

Environmental Services

This section includes all of the budgets in the Divisions of Environmental Services which are under the Department of Public Works and Utilities. Environmental Services includes Solid Waste Management, the Sewer Utility (Sewer Utility Fund, Sewer Utility Construction, Sewer Revenue Bonds, and the Sewer Facility Restricted Reserve) and Water Programs (Surface Water Management Fund, Water Utility Fund, Real Estate Excise Tax - River Fund, and the Drinking Water Supply Program presented under Special Projects in the Other Services and Programs section of the document). The budget for the Chambers Bay Golf Course is also included in this section as the land is owned by the Sewer Utility and the Golf Course is a part of the reclamation program for that site.

Major Accomplishments in 2005

The **Sewer Utility Division** provides wastewater collections and treatment services to over 165,000 people in Pierce County. The Chambers Creek Regional Wastewater Treatment Plant is an advanced secondary treatment facility which provides treatment and disinfection to 100% of the wastewater received at the plant. This past year, the plant was once again recognized by the Environmental Protection Agency for Excellence in Operations and Maintenance and received the Washington State Department of Ecology's Outstanding Performance Award.

To maintain and extend the life of the aging Wastewater Collection System, the Division uses televised inspections and cleans the system at a rate of over 23% of the system per year (approximately 533,362 linear ft. and 217,331 routine sewer line television inspections in 2005). Also in 2005, over 150,000 linear ft. of developer installed sewer lines were television inspected and 3,220 routine inspections of 92 pump station facilities were conducted.

The **Chambers Creek Properties** are a unique set of parcels owned and managed by the Public Works and Utilities, and Parks and Recreation Services Departments. In 2005, the program received the American Society of Landscape Architect's (Washington Chapter) Special Mention Award for Outstanding Professional Achievement for the Soundview Trail and Park Design project. The Chambers Bay Golf Course was designed, bid and began construction. The financing strategy, a Limited Tax General Obligation bond received approval from the County Council on the September 13, 2005. Groundbreaking for the course was held on October 11, 2005. The 10-year Update of the award-winning Chambers Creek Properties Master Site Plan was undertaken in 2005. Final recommendations from the appointed Citizens Committee were forwarded to the Executive and Council late in the year.

The **Water Programs Division** provides resources to plan, manage, and maintain the storm drainage and surface water runoff systems within unincorporated Pierce County drainage basin areas. The goals of the utility are to maintain water quality by preventing siltation and erosion of the County's waterways, protect water quality of lakes and aquifers, protect water quality for wildlife and fish habitat, and to minimize property loss from water damage. The Division maintains levee and creeks to reduce flood hazards. In 2005, seven Joint Aquatic Permit Application permits were approved and issued to the Division to authorize 4 to 10 miles of maintenance. Most notable for 2005, the Division's Flood Bulletin received the National Association of Counties (NACO) Public Outreach Award.

The **Solid Waste Division** is primarily responsible for planning, program development and recycling activities. During its first four complete months, June through September 2005, the new single-cart curbside recycling program for single-family residences exceeded all projections in terms of increased tonnage, average lbs per household, low contamination rates, and increases in targeted commodities. Newspaper and mixed paper made up 79% by weight of the commodities set-out during the four months. Cardboard was the next largest amount at 13%. For the first four months, the average pounds per month per recycling household were nearly 42.5 lbs per month for recyclables without glass.

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During 2005 Pierce County Responds conducted 1,778 site inspections which resulted in the removal of 1,498 public nuisance vehicles. Staff has assisted 400 individual property owners with the removal of small quantities of illegally dumped waste.

Also in 2005, the Solid Waste Division's Environmental Educators provided 860 presentations to 22,814 students. Appearances at fairs and community festivals increased the total number of outreach opportunities to 1,406 resulting in direct one-on-one contact with more than 31,000 youth and adults.

During 2004, Utility staff assigned to implement the Coordinated Water System Plan (CWSP) successfully negotiated a change of ownership of a water system threatened with a "receivership" action by the Washington State Department of Health. The **Water Utility** participated in three multi-stakeholder watershed management planning processes under the Watershed Management Act for the Nisqually, Kitsap Peninsula and Chambers-Clover Creek Watershed or WRIA. The Nisqually Plan was the first in the State to be approved. Although completed in September 2004, the Chambers-Clover Watershed Management Plan has not yet been approved as prescribed by the Watershed Act. Because the primary focus of the watershed management planning process is to make water resource allocation decisions, the use of the County's Chambers Creek Properties water supply was discussed during the development of the Chambers-Clover Creek Watershed Plan.

Solid Waste Division managed program design and public outreach campaign in support of the County's curbside recycling programs. In September, the County Council approved a change to a new covered, wheeled cart system with a formal launch on February 15, 2005. The new program has broad public acceptance for despite the need to remove glass from curbside recycling and the small rate increase.

Pierce County Responds program continues to manage a large caseload and in the second half of the year headway was made on reducing the backlog. The assignment of full-time staff to work on Pierce County Responds and the hiring of a full-time supervisor will reduce the backlog further in 2005. Staff supervised the cleanup of one major Dirty Dozen dumpsite and the removal of more than 2,000 nuisance vehicles from private properties.

During 2004, Environmental Educators provided classroom presentations and resource loans that reached over 25,000 youth, one-third more than last year. Participation in a wide variety of community fairs and celebrations exposed thousands more to Solid Waste Division messages.

2004 was marked by the re-establishment of the Storm Drainage and Surface Water Management Advisory Board (SWAB). The Board assists with the public review of **Water Programs** planning documents and makes recommendations to the Pierce County Council on policy issues affecting the program. This year the Advisory Board reviewed and recommended adoption of the Gig Harbor, Muck Creek and Clover Creek basin plans.

In 2004, Capital Improvement Project (CIP) staff completed several significant projects including the construction of the Artondale Creek culvert replacement (flooding and fish passage issues), the Sylvia Lake Drainage improvements (flooding and sedimentation control), the Spanaway Airport Pipeline (groundwater flooding) and the Beach Drive pump station (flooding and contamination from septic tank effluent). Land acquisition for the Soldiers Home setback levee was completed with final design and construction anticipated in 2005. CIP staff also completed the Channel Migration Zone Study for South Prairie Creek, acquired land and/or conducted preliminary engineering for several future storm drainage and/or flood hazard reduction projects.

Program Services staff secured environmental authorizations for all CIP projects constructed in 2004, secured SWAB approval of three basin plans, completed Phase One Characterization for Key Peninsula/Islands Basin Plan, held basin community updates in Gig Harbor, Clover Creek, Muck Creek, and Key Peninsula/Islands basins, and initiated Basin Plans for Carbon River, White River, and Nisqually River basins. Program Services completed property acquisitions for Clover Creek, Gig Harbor, and South Prairie Creek, Mid-Nisqually, Mid-Puyallup, and Muck Creek basins. Staff also organized and conducted additional volunteer planting of W-1 Pond, involving over 100 volunteers.

Program Services staff initiated the Graham Groundwater Study, a USGS cooperative project, the Naches Trail Preserve Stewardship Plan, a water quality monitoring plan and a wetlands mitigation bank program.

Environmental Services

Staff also updated the Pierce County Lead Entity Strategy, which was rated “excellent” by the State Salmon Recovery Funding Board (SRFB) and prepared a major SRFB grant application for a setback levee feasibility study in 2005. 2004 was another very productive year for the Maintenance Division. Significant completed projects included: maintenance, construction and/or improvement of 188 Storm Drainage Pond Facilities, 11 major ditch systems, 2 major creeks, 7 small works projects, 15 fencing repairs and 2 new fencing projects (pond and quarry facility), 31.5 miles of vegetation management along the Puyallup and Carbon Rivers, repair of 5 levee sections on the Puyallup River and 2 sections on the Nisqually River, 28 misc./general drainage related maintenance projects, demolition of 5 repetitive flood-loss homes, and addressed 231 citizen drainage inquiries in the field.

To further implement long-standing elements of the NPDES permit, watershed action plans, 1997 Rate Study, and basin plans, Water Programs hired four new staff members in 2004; a watershed coordinator, a wetlands biologist, a community outreach specialist and a water quality technician who will assist with monitoring and inspections.

As regional coordinator for flooding, water quality and habitat issues, Water Programs continued working with FEMA to remap the 1987 floodplain regulation maps. The remapping of all the major river and creek systems within unincorporated Pierce County has been completed. Remapping of the floodplains of some of the smaller creeks and isolated depression areas will begin soon. Public review and comment on the remapping will start in 2005.

Water Programs led promotion of Low Impact Development (LID) within Pierce County, facilitating the construction of the County’s first LID demonstration development, and participating closely in development of the new “Directions” package. Water Programs also coordinated with the South Puget Sound Salmon Enhancement group for the review and construction of the 94th St. Oxbow salmon habitat project.

DEPARTMENT BUDGETS

Department Name	2005 Budget	2006 Budget	Absolute Change	Percent Change
Chambers Bay Golf Course	\$ 6,350,000	\$ 15,993,950	\$ 9,643,950	151.9 %
Real Estate Excise Tax - River	2,664,520	5,918,220	3,253,700	122.1
Sewer Facility Restricted Reserve	6,590,980	11,065,200	4,474,220	67.9
Sewer Revenue Bond Funds	8,308,000	5,671,730	(2,636,270)	(31.7)
Sewer Utility Fund	48,375,790	48,984,330	608,540	1.3
Sewer Utility Construction	18,069,000	27,732,290	9,663,290	53.5
Solid Waste Management Fund	6,302,630	4,971,130	(1,331,500)	(21.1)
Surface Water Management Fund	20,252,880	25,917,630	5,664,750	28.0
Water Utility Fund	198,750	304,170	105,420	53.0
Total Environmental Services & Water Programs	\$ 117,112,550	\$ 146,558,650	\$ 29,446,100	25.1 %

Environmental Services

Chambers Bay Golf Course

Enterprise Fund

Departmental Summary:

The Chambers Bay Properties Golf Course is a project within the Chambers Creek Master Site Plan that was adopted by the County Council in 1997. The Chambers Creek Properties consist of over 950 acres located within the City of University Place adjacent to the County's wastewater treatment plant. The purpose of the Chambers Bay Golf Course fund is to develop an 18-hole championship flight golf course that maximizes the site potential, enhances the County's economic development effort, provides an environmental showcase, and generates revenue for both the course operations and other recreational features.

Limited Tax General Obligation Bonds, 1992 – The \$20,770,000 Chambers Bay Golf Course general obligation bonds are serial bonds through 2030 due in annual installments ranging from \$370,000 to \$995,000, plus interest of 3% to 4.375%. The 2035 bonds are term bonds in the amount of \$5,685,000 with an interest rate of 4.5% having mandatory calls beginning in 2031 ranging from \$1,040,000 to \$1,240,000. The final maturity date is 2035. Financing is provided from the net revenues of the golf course, net revenues of the sewer utility, and/or the general fund. Bonds maturing on or after December 1, 2016 are callable beginning December 1, 2015 or any scheduled interest payment date thereafter. The outstanding bond balance on December 31, 2005 is \$20,770,000.

Budget Highlights:

The proposed 2006 budget for the Chambers Bay Golf Course funds the course and clubhouse design and construction, related staff costs, and interest expense.

Funding in 2006 is provided by the proceeds of the recently approved bond issue and an interfund Sewer fund loan for the "growth period" expenses.

FUNDING SOURCES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ —	\$ 15,548,950	\$ 15,548,950	∞ %
Other Financing Sources	—	—	6,350,000	445,000	(5,905,000)	(93.0)
Total	\$ —	\$ —	\$ 6,350,000	\$ 15,993,950	\$ 9,643,950	151.9 %

EXPENDITURES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ —	\$ 83,278	\$ 71,210	\$ 69,610	\$ (1,600)	(2.2) %
Personnel Benefits	—	16,764	14,810	16,010	1,200	8.1
Supplies	—	155	1,000	1,000	—	—
Other Services & Charges	—	502,193	2,023,200	1,030,180	(993,020)	(49.1)
Capital Outlays	—	—	4,142,940	14,015,090	9,872,150	238.3
Interest	—	5,130	96,840	862,060	765,220	790.2
Total	\$ —	\$ 607,520	\$ 6,350,000	\$ 15,993,950	\$ 9,643,950	151.9 %

Chambers Bay Golf Course

STAFFING SUMMARY

	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
Administrative Svcs Mgr	—	—	—	—	0.50	0.55
Special Asst to Dir PW&U	—	—	—	—	0.15	0.10
Planner	—	—	—	—	0.15	0.10
Total	—	—	—	—	0.80	0.75

Real Estate Excise Tax - River

Special Revenue Fund

The mission of the Water Programs Division is to be a responsive service organization that efficiently addresses flood control, water quality, and the preservation of natural drainage systems.

Departmental Summary: The revenue for this fund is derived from a portion (currently 25%) of the first one-quarter of one percent tax imposed on the sale of real property situated in the unincorporated areas of Pierce County. The monies are used for river improvement capital projects as identified in the Puyallup River Basin Comprehensive Flood Control Management Plan.

Budget Highlights: The 2006 R.E.E.T. - River budget includes flood plain land acquisitions, necessary studies, and the Setback Levee project near the Soldiers Home in Orting.

FUNDING SOURCES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 979,520	\$ 958,720	\$ (20,800)	(2.1) %
Taxes	1,493,594	1,886,722	1,250,000	1,500,000	250,000	20.0
Intergovernmental Revenue	43,837	73,904	435,000	1,147,000	712,000	163.7
Miscellaneous Revenue	—	—	—	2,312,500	2,312,500	∞
Total	\$ 1,537,431	\$ 1,960,626	\$ 2,664,520	\$ 5,918,220	\$ 3,253,700	122.1 %

PROGRAM EXPENDITURES

	2005 FTE	2006 FTE	2005 Budget	2006 Budget	Absolute Change	Percent Change
Administration & Tech Support	1.57	1.39	\$ 2,164,520	\$ 814,220	\$ (1,350,300)	(62.4) %
Basin Plan & Land Acquisition	—	—	500,000	5,104,000	4,604,000	920.8
Total	1.57	1.39	\$ 2,664,520	\$ 5,918,220	\$ 3,253,700	122.1 %

Real Estate Excise Tax –River

STAFFING SUMMARY						
	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
Water Programs Manager	0.10	0.10	0.10	0.10	0.05	0.05
Civil Engineer	0.60	0.92	1.05	0.94	0.90	0.75
Planner	—	—	—	—	—	0.03
Right of Way Agent	0.15	0.15	0.15	0.15	0.15	0.15
GIS Specialist	—	—	0.10	0.06	0.06	0.06
Accounting Assistant	0.30	0.30	0.30	0.30	0.30	0.25
Environmental Biologist	0.20	—	—	—	—	0.10
Administrative Svcs Mgr	0.05	0.05	0.05	0.05	0.03	—
Fiscal Services Manager	—	—	—	—	0.05	—
Supervisory Admin Asst	0.05	0.05	0.05	0.05	0.03	—
Admin Program Mgr	0.05	0.05	0.05	0.05	—	—
Deputy PW & Utilities Dir	0.01	0.01	—	0.01	—	—
Engineering Tech	0.15	0.15	0.10	—	—	—
Dir – Public Works & Util	0.01	0.01	—	—	—	—
Water Prog Maint Mgr	0.05	—	—	—	—	—
Total	1.72	1.79	1.95	1.71	1.57	1.39

Sewer Revenue Bonds

Enterprise Fund

Departmental Summary:

This fund is used to accumulate monies for repayment of the following bond issues:

Sewer Revenue Bonds, 2001 -- The \$18,495,000 sewer revenue bonds which were issued to provide sewer service to the Dupont area, are serial bonds due in annual installments ranging from \$915,000 to \$1,100,000 plus interest of 4.25% to 5.10%. Bonds maturing August 1, 2009 through August 1, 2012 are callable beginning August 1, 2002 or on any scheduled interest payment date thereafter from excess ULID assessment payments. Bonds maturing on or after August 1, 2012 are callable on August 1, 2011 or on any scheduled interest payment date thereafter. The bond balance on December 31, 2004 is \$14,835,000.

Limited Tax General Obligation Refunding Bonds, 2005 -- The \$38,380,000 general obligation refunding bonds, which advance refunded \$760,000 of the Limited Tax General Obligation Bonds, 1997B, \$3,245,000 of the Limited Tax General Obligation Bonds, 1999, \$28,930,000 of the Limited Tax General Obligation Bonds, 2000, \$5,340,000 of the Sewer Revenue and Refunding Bonds, 1993, and \$900,000 of the Sewer Revenue and Refunding Bonds, 1997, are serial bonds due in annual installments ranging from \$515,000 to \$2,570,000 plus interest of 3.00% to 5.125%. Financing is provided from the General Fund regular tax levy for the limited tax general obligation bonds and from sewer assessments and rates for the sewer revenue bonds. The bonds maturing on or after August 1, 2016 are callable beginning August 1, 2015. The outstanding balance on December 31, 2005 is \$38,380,000; \$32,915,000 payable by the General Fund and \$5,465,000 payable by the Sewer Utility.

Sewer Revenue Bonds

FINANCIAL SUMMARY

Bond Issue	2006 Revenue	2006 Expense
Sewer Revenue Bonds Accounts		
Operating Transfer from Sewer Assessment Account	\$ 1,428,140	\$ —
Operating Transfer from Sewer Revenue Bond Reserve Account	178,000	—
Principal	—	915,000
Interest and Amortization Expense	—	691,140
Subtotal	1,606,140	1,606,140
Limited Tax GO/Sewer Revenue Bond Accounts		
Operating Transfer from Sewer Assessment Account	1,218,270	—
Use of Fund Balance	22,910	—
Principal	—	980,000
Interest and Amortization Expense	—	261,180
Subtotal	1,241,180	1,241,180
Assessment Collection Account		
Assessments Receivable	935,000	—
Interest and Penalties on Assessments	905,000	—
Investment Interest	75,000	—
Use of Fund Balance	731,410	—
Operating Transfer to Sewer Revenue Bond Account	—	1,428,140
Operating Transfer to LTGO Bond Account	—	1,218,270
Subtotal	2,646,410	2,646,410
Sewer Revenue Bond Reserve Account		
Investment Interest	63,000	—
Use of Fund Balance	115,000	—
Operating Transfer to Sewer Bond Account	—	178,000
Subtotal	178,000	178,000
Grand Total	\$ 5,671,730	\$ 5,671,730

Sewer Utility Fund

Enterprise Fund

The mission of the Sewer Utility is to provide customers with high quality, cost effective sanitary sewer services by collecting and treating all wastewater generated from County service areas in accordance with applicable Local, State and Federal permit requirements.

Departmental Summary:

The Sewer Utility Fund accounts for all activities involved with the collection and treatment of wastewater produced within unincorporated Pierce County. The fund is under the administration of the Public Works and Utilities Department. The system currently is comprised of a 24 million gallon a day secondary treatment plant located near the Chambers Creek entrance to Puget Sound, over 576 lineal miles of collection and transmission pipe, 80 major pumping stations, and over 900 minor pumping stations. The Sewer Utility's major service areas include University Place, Lakewood, Parkland, Spanaway, Frederickson, South Hill, Puyallup, Brown's Point, Midland, Milton, Dupont, and the lower Hylebos area of northern Pierce County. The department works with Steilacoom, Federal Way Water and Sewer, and Tacoma in the area of wastewater collection and treatment under different interlocal sewerage service agreements.

The fund's major activities revolve around the maintenance of the pumping stations, collection system, and the treatment plant facilities as well as the treatment of wastewater at the Chambers Creek Wastewater Treatment Plant. When required, the fund finances construction projects which benefit its customers. The fund derives its revenues predominately from customer user charges and development permit fees.

Budget Highlights:

The recommended 2006 Sewer Utility Fund budget is 1.3% above the current year and reflects the following items of note.

- a) An allocation of \$13.6 million for capital improvements (transferred to the Sewer Utility Construction Fund);
- b) 8 new positions to effectively meet workload responsibilities in collection system maintenance, engineering and construction, development engineering and permit processing, and at the Chambers Bay properties; and
- c) The use of \$15.8 million in fund balance (net of depreciation expense).

Performance Measures

- 1) Projected wastewater flows require that the planning and environmental review phases of the plant expansion project be completed by the end of 2006. (Goals B, D, E, F, G, H, I)
- 2) The five year (2002-2006) average cost per million gallons treated will increase by 3% or less over the previous (2001-2005) five year average (excluding depreciation). (Goals B, D, E, F, G, H, I)

Sewer Utility Fund

FUNDING SOURCES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$20,371,350	\$21,207,250	\$ 835,900	4.1 %
Intergovernmental Revenue	59,706	—	—	—	—	—
Charges for Services	22,732,916	24,706,731	27,684,440	27,352,080	(332,360)	(1.2)
Miscellaneous Revenue	370,678	588,072	240,000	335,000	95,000	39.6
Contributed Capital	74,798	92,438	80,000	90,000	10,000	12.5
Other Financing Sources	(88,651)	22,254	—	—	—	—
Total	\$23,149,447	\$25,409,495	\$48,375,790	\$48,984,330	\$ 608,540	1.3 %

PROGRAM EXPENDITURES

	2005 FTE	2006 FTE	2005 Budget	2006 Budget	Absolute Change	Percent Change
Collection System Maintenance	37.00	39.00	\$ 4,721,540	\$ 5,203,060	\$ 481,520	10.2 %
Wastewater Treatment O & M	40.60	38.60	8,511,560	8,637,220	125,660	1.5
Admin, Engineering, & Planning	40.79	48.78	8,025,730	9,129,570	1,103,840	13.8
Depreciation/Depletion	—	—	12,641,270	11,383,940	(1,257,330)	(9.9)
Capital Improvement Program	—	—	14,475,690	14,630,540	154,850	1.1
Total	118.39	126.38	\$48,375,790	\$48,984,330	\$ 608,540	1.3 %

WORKING CAPITAL SUMMARY

	2005 Estimate	2006 Budget
Operating Revenues		
Charges for Services	\$ 26,458,240	\$ 27,352,080
Grant Reimbursements	—	—
Subtotal	26,458,240	27,352,080
Operating Expenses		
Administration and Planning	7,608,200	9,129,570
Collection Systems Maintenance	4,643,800	5,203,060
Wastewater Treatment O & M	7,988,910	8,637,220
Depreciation/Depletion	11,129,300	11,383,940
Subtotal	31,370,210	34,353,790
Net Operating Income (Loss)	(4,911,970)	(7,001,710)
Non-Operating Revenue (Expense)		
Interest Income	500,000	300,000
Miscellaneous	102,500	35,000
Subtotal	602,500	335,000
Net Operating Income (Loss)	(4,309,470)	(6,666,710)
Other Sources (Uses) of Working Capital		
Depreciation/Depletion - add back	11,129,300	11,383,940
Equipment Purchases	(644,290)	(1,042,750)
Construction/Asset Acquisition	(12,541,650)	(13,587,790)
Contributed Capital	4,795,000	90,000
Subtotal	2,738,360	(3,156,600)
Net Increase (Decrease) in Working Capital	\$ (1,571,110)	\$ (9,823,310)

Sewer Utility Fund

STAFFING SUMMARY						
	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
Dir – Public Works & Util	0.33	0.23	0.23	0.23	0.20	0.24
WW Utility Manager	1.00	1.00	1.00	1.00	1.00	1.00
Administrative Svcs Manager	0.50	0.50	0.50	0.50	0.28	0.23
Special Asst to Dir of PW & U	0.70	0.90	0.90	0.90	0.44	0.65
WWTP Superintendent	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Manager	—	—	—	—	1.00	1.00
Deputy PW & Utilities Dir	—	—	—	—	0.20	0.24
Strategic Plng/Asset Manager	—	—	—	—	1.00	1.00
WW Collection System Manager	1.00	1.00	1.00	1.00	1.00	1.00
WW Construction Proj Manager	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Engineer	—	1.00	1.00	1.00	1.00	1.00
Civil Engineer	9.00	9.00	9.00	10.00	11.00	13.00
Fiscal Services Manager	—	—	—	—	0.40	0.40
Planner	1.50	1.00	1.00	1.00	1.85	2.90
WW Asst Coll System Manager	—	1.00	1.00	1.00	1.00	1.00
WWTP Chief Operator	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Lab Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Maint Supv	1.00	1.00	1.00	1.00	1.00	1.00
WW Maint Spec Mech	3.00	5.00	5.00	5.00	5.00	5.00
Engineering Tech	10.70	11.00	11.00	11.00	12.00	14.00
Right of Way Agent	0.50	0.50	0.50	0.50	0.24	0.24
WW Coll Maint Supv	2.00	2.00	2.00	2.00	2.00	2.00
WWTP Lab Analyst	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	3.85	3.80	4.80	5.75	5.80	5.80
WWTP Operator	10.00	10.00	10.00	10.00	12.00	12.00
WW Coll Maint Tech Lead	3.00	3.00	3.00	3.00	3.00	3.00
WW Maint Spec Elec	2.00	2.00	2.00	2.00	2.00	3.00
WW Maint Spec Inst	4.00	4.00	4.00	4.00	4.00	4.00
Dept Info Tech Spec	—	—	—	0.17	0.47	0.17
Supervisory Admin Asst	0.55	0.55	0.55	0.55	0.62	0.62
WW Maint Tech	25.00	24.00	24.00	24.00	25.00	26.00
Administrative Asst	0.75	0.55	0.55	0.55	0.55	0.55
Records Specialist	—	—	—	—	0.34	0.34
WWTP Laboratory Tech	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Pretreatment Tech	—	3.00	3.00	3.00	3.00	3.00
Office Assistant	9.00	9.00	8.00	8.00	8.00	9.00
WW Inventory Expeditor	1.00	1.00	1.00	1.00	1.00	1.00
WW Maint Worker	—	—	—	3.00	2.00	2.00
WWTP Utility Worker	1.00	2.00	2.00	4.00	4.00	4.00
WW Asst Const Proj Manager	1.00	—	—	—	—	—
WWTP Lab/Pretmt Tech	3.00	—	—	—	—	—
Deputy PW & Utilities Dir	0.33	0.23	0.23	0.21	—	—
Admin Program Manager	0.40	0.40	0.40	0.40	—	—
Total	102.11	104.66	104.66	111.76	118.39	126.38

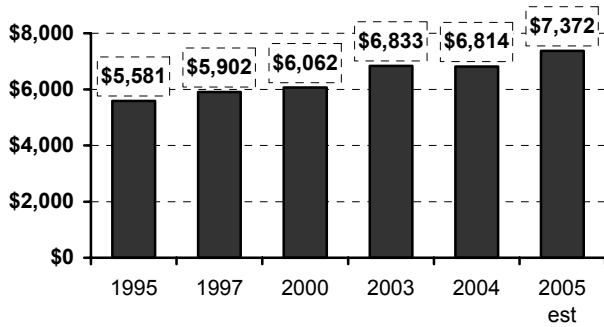
Sewer Utility Fund

WORKLOAD SERVICE DATA

	Unit of Measure	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Estimate	2006 Estimate
Laboratory analysis	Tests	28,806	27,219	27,142	29,822	28,600	25,000
Pretreatment program	Reviews	1,425	1,676	2,255	1,588	1,590	1,500
Accidental spill prev program	Reviews	492	336	696	375	725	400
Residual hauling/acceptance	Wet tons	14,359	12,893	12,196	15,816	13,700	14,000
Residual dryness	Percentage	15.2	15.8	15.4	14.8	15.5	15.5
Avg daily wastewater flow rec	ADF/MGD	15.18	16.38	16.65	17.10	17.84	17.30
Preventative maintenance	Orders	4,787	6,089	7,924	10,703	9,000	12,000
Pump station maintenance visits	Visits	4,340	4,574	5,551	5,424	5,200	5,000
Auxiliary power system maint	Visits	1,267	1,173	1,600	1,593	1,150	1,160
Residential grinder pump	Visits	1,330	1,180	910	1,160	1,050	1,050
Sewer line cleaning	Linear Ft	662,595	680,754	667,690	1,015,197	925,000	1,000,000
Sewer utilities locates	Visits	12,559	11,563	15,530	12,797	14,000	13,000
Smoke testing	Linear Ft	357,083	371,430	365,595	369,359	340,000	350,000
Sewer manhole	Repairs	581	517	749	1,428	950	1,000
Inflow and Infiltration	Repairs	427	333	266	261	350	300
Television inspection	Linear Ft	241,606	246,249	264,074	292,180	300,000	300,000
Emergency pump station calls	Incidents	114	90	93	43	70	75
Sewer line blockages	Incidents	10	17	4	4	6	10
Active billing accounts	Accounts	42,334	43,934	46,115	48,577	50,750	53,150
Permits, reviews and inspections	Cases	4,997	5,448	5,281	6,840	6,000	6,000
Collector pipe	Miles	576	578	583	593	608	615

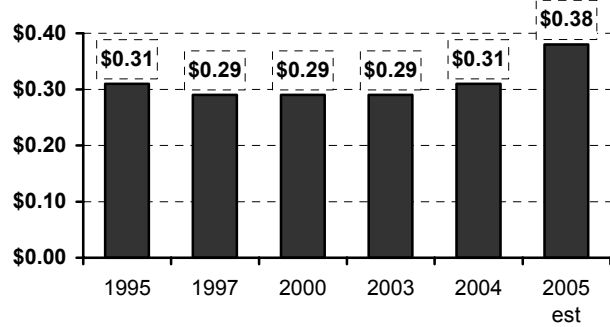
BUDGET RATIOS

Maintenance Cost per Mile of Pipe



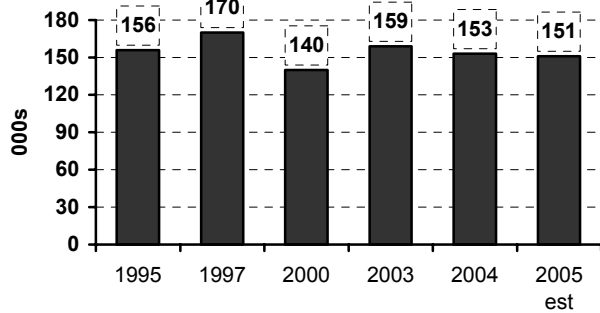
❖ From 1995 to 2005 the maintenance cost per mile of collection pipe increased 32% after adjusting for inflation.

Treatment Cost per Daily Gallon



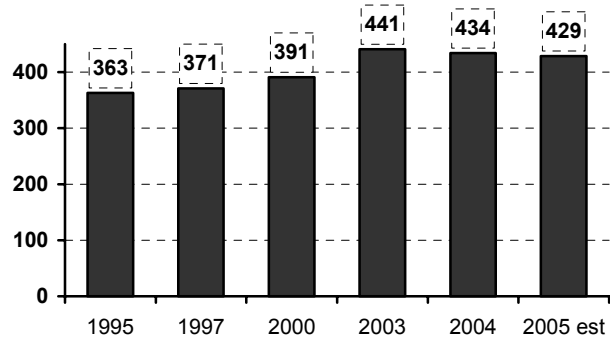
❖ From 1995 to 2005 the treatment cost per daily gallon of wastewater increased 23% after adjusting for inflation.

Wastewater Treated per Employee
Gallons in Thousands



❖ From 1995 to 2005 the number of gallons of wastewater treated daily per Sewer Utility employee decreased 3%.

Customer Accounts per Employee



❖ From 1995 to 2005 the number of active customer accounts per Sewer Utility employee increased 18%.

Sewer Utility Fund

Sewer Utility Construction

Enterprise Fund

**Departmental
Summary:**

The Utilities Construction Fund is used to account for all non-ULID sewer construction work. This fund is financed through appropriations from the Sewer Utility Operating Fund, the Facility Restricted Reserve Fund and interest bearing loans.

**Budget
Highlights:**

The \$28,107,290 is allocated to the projects listed below. These projects include the Central and North Meadows Parks at the Chamber Creek Site, which are financed through a General Fund loan (\$3,000,000), an allocation from the Parks Sales Tax fund (\$500,000) and an allocation from the Sewer Utility (\$500,000).

Aeration Basin Diffuser Project - This project would add diffusers to each aeration basin swing zone to allow more air to be introduced into the zone. The project would double the diffusers.

Canyon Road CRP 5404 Sanitary Sewer Improvements – Installation of parallel eight inch collector sewers on Canyon Road in conjunction with the Transportation Division’s CRP 5404 road improvement project. This project also includes sewer collectors on portions of 144th Street East. and 152nd Street East.

Canyon Road Improvements (116th - 144th) - Installation of approximately 4,060 LF of 8-inch collector pipeline. This project provides sanitary sewers in conjunction with the Transportation Division's CRP 5433 project. The project provides service to the properties along Canyon not directly served under the Canyon Road Interceptor project between 116th Street and 144th Street. The project also includes installation of sanitary sewers along side streets to the extent identified in the CRP project.

Chambers Creek Properties Central Meadow Park – Construction of a 22 acre site for passive recreation and staging area for large events such as golf tournaments and community festivals. Will contain restroom facilities, parking for 84 cars and half mile loop trails on the south and west sides to link to the Soundview trail.

Chambers Creek Properties Entry Drive Road - Construction of an entry drive access to Grandview Drive and a road into the Chambers Creek Properties.

Chambers Creek WWTP Maintenance Facility Expansion - Construction of an 11,000 square foot maintenance facility expansion to serve the Collections Division of the Sewer Utility. A portion of this facility will also be leased to the Chambers Bay Golf Course to serve as a temporary golf course maintenance area.

Chambers Creek Properties North Meadow Park – Construction of a six acre site for passive recreation and viewing of Puget Sound and the Chambers Bay golf course, including restroom facilities and parking for 38 cars.

Chambers Creek Properties Site Infrastructure - Installation of utilities to serve the Chambers Creek Properties including fire hydrants, water system and underground electrical system.

Chambers Creek Properties Soundview Trail - Construction of the Soundview Trail on the Chambers Creek Properties.

Chambers Creek WasteWater Treatment Plant (WWTP) Fertilizer Manufacturing Facility (formerly Sludge Drying & Dewatering Facility) – Design and construction of a system to process the current Class B Biosolids to Class A fertilizer product manufactured at the treatment plant. The final product will be

licensed as a commercial fertilizer and sold for commercial uses to offset operating expenses. In addition, the final product will be used for various projects on the Chambers Creek Properties or on other publicly-owned properties.

Chambers Creek WWTP Headwork Modification - Includes the installation of new screening and grit removal capacity, addition of a new grit chamber, replacement of the scum collection system and the addition of odor control for this area of the WWTP. It also includes the removal of the existing belt presses which will be abandoned as a result of the centrifuge installation in the Fertilizer Manufacturing building.

Collection System Flow Meters - This is an administrative project and includes the installation of flow meters throughout the County's collection system in two phases. This system allows the Utility to identify potential areas with inflow/infiltration problems as well as identifying illegal dumps into the sewer system.

Cypress Green Drainfield Rehab – This project includes the design of an existing community septic system repair and rehabilitation. The existing system is showing early signs of failure.

Digester 1 & 3 Roof Insulation - This project would provide the application of a lining system to the roofs of Digesters 1 & 3 at the Chambers Creek WWTP.

Environmental Services Building Expansion - The project consists of the pre-design, design, permitting and construction of an expansion to the Environmental Services Building.

Gravity Belt Thickener Project - A project to increase the primary sludge solids concentration to the gravity belt thickener (GBT) rated limit of five percent. The project consists of adding additional GTB units. This new project is identified in the Sewer Utility's capacity study. Primary sludge GBT will be limited in late 2005.

Miscellaneous Sewer Line Extensions - Collection system improvement projects to construct gravity collector sewer line extensions. This includes sewer improvements in conjunction with other jurisdiction's road improvement projects.

Park Royal Sewer Line Extension – Installation of approximately 460 LF of 2 and 3 inch low pressure force main pipeline and approximately 390 LF of 1 ¼ inch pressure stubs to provide sanitary sewer service to the existing Park Royal second addition subdivision (49th Street West) located in the City of University Place.

Phillips Siphon Vault – Construction of a new vault structure for an existing inverted siphon under a creek. The completed structure will allow for maintenance access to the siphon to perform normal maintenance activities.

Reclaimed Water System - This project will provide Class A reclaimed water from the treatment plant for irrigation of the new golf course on the Chambers Creek Properties. The reclaimed water system will treat up to one million gallons a day for distribution on the Chambers Creek Properties.

Replacement Pump on Chambers Creek - Project consists of replacing existing pump at the impoundment on Chambers Creek.

Revised Burlington Northern Santa Fe Access - Project consists of revising the Burlington Northern Santa Fe Railroad access, including design and permitting, fencing, landscaping and construction.

WWTP Heating Hot Water System Upgrade – Project includes an overall plant energy audit to improve the efficiency of operations and equipment processes as well as piping demolition and replacement, boiler system upgrades and other miscellaneous hot water system improvements to meet WWTP needs.

Sewer Utility Construction

WWTP Lab Expansion - This project will expand and improve the existing WWTP laboratory to meet the existing and future testing requirements for the WWTP. A study will be conducted to verify the actual space needs which is currently identified as approximately 3,000 square feet.

WWTP Plant Expansion - This project will provide increased wastewater treatment capacity due to the expansion and growth of the County's sewer service area. It will include the addition of new tankage for all phases of the treatment plant to increase the plant's capacity rating. The future expansion is currently being studied by the County's engineering consultant. Once the study is completed, sizing and timing of the project will be more accurately identified.

WWTP UV Module Additions - This Operations and Improvement project provides additional system capacity for the Ultra Violet (UV) disinfection system. It includes the installation of one additional module of UV lights for each of the eight existing banks of lights to increase the UV system capacity by 20%.

Performance Measures

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1) Design and award at least 90% of the number of projects planned to be awarded in the 2006 capital facilities plan. (Goals B, D, E, G, H, I)</p> | <p>2) At least 95% of first reviews will be completed within 15 calendar days after application submittal and at least 95% of subsequent reviews will be accomplished within 10 days. (Goals B, D, E, F, G, H, I)</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PROJECT SUMMARY

Capital Reserve Fund # 403	2006
Project Name	Budget
Canyon Road CRP 5404 Sanitary Sewer Improvements	160,000
Canyon Road Improvements (116th - 144th)	1,150,000
Chambers Creek WWTP Fertilizer Manufacturing Facility	292,000
Chambers Creek WWTP Headworks Modifications	1,400,000
Environmental Services Building Expansion	250,000
Miscellaneous Sewer Line Extensions	255,000
Reclaimed Water System	6,300,000
WWTP Plant Expansion	900,000
WWTP UV Module Additions	312,500
SubTotal -- Contributions to Construction Fund #425	11,019,500
Geographical Information System Support	45,700
Total	\$ 11,065,200

Sewer Utility Construction

PROJECT SUMMARY

Sewer Utility Construction Fund #425

Project Name	Total Project Cost	2006 Expenditure	Fund 402 Sewer Utility Fund	Funding Sources		Fund 403 Facilities Capital Reserve
				Use of Fund Balance	Contrib & Loans	
Aeration Basin Diffuser Project	\$ 50,000	\$ 50,000	\$ 50,000			\$ —
Canyon Road CRP 5404 Sanitary Sewer Improvements	5,430,096	160,000	—			160,000
Canyon Road Improvements (116th - 144th)	1,150,000	1,150,000	—			1,150,000
Chambers Creek Properties North Meadow Park	600,000	500,000	—		500,000	—
Chambers Creek Properties Entry Drive Road	1,305,040	1,076,270	1,076,270			—
Chambers Creek Properties Maintenance Facility Expan	4,331,290	3,990,400	3,990,400			—
Chambers Creek Properties Central Meadow Park	3,400,000	3,000,000	500,000		2,500,000	—
Chambers Creek Properties Site Infrastructure	1,367,980	1,073,880	1,073,880			—
Chambers Creek Properties Soundview Trail	1,101,380	889,240	889,240			—
Chambers Creek WWTP Fertilizer Manufacturing Facility	13,293,298	1,460,000	1,168,000			292,000
Chambers Creek WWTP Headworks Modifications	10,337,017	2,000,000	600,000			1,400,000
Collection System Flow Meters	502,695	40,000	40,000			—
Cypress Green Drainfield Rehab	300,000	300,000	300,000			—
Digester 1 & 3 Roof Insulation	200,000	200,000	200,000			—
Environmental Services Building Expansion	250,000	250,000	—			250,000
Gravity Belt Thickener Project	325,000	325,000	325,000			—
Miscellaneous Sewer Line Extensions	1,771,477	255,000	—			255,000
Park Royal Sewer Line Extension	125,000	125,000	—	125,000		—
Phillips Siphon Vault	522,537	335,000	335,000			—
Reclaimed Water System	6,350,000	6,300,000	—			6,300,000
Replacement Pump on Chambers Creek	340,000	340,000	340,000			—
Revised Burlington Northern Santa Fe Access	2,280,000	2,280,000	2,280,000			—
WWTP Heating Hot Water Systems Upgrade	680,000	320,000	320,000			—
WWTP Lab Expansion	980,500	100,000	100,000			—
WWTP Plant Expansion	47,404,400	900,000	—			900,000
WWTP UV Module Additions	312,500	312,500	—			312,500
Total	\$ 104,710,210	\$ 27,732,290	\$ 13,587,790	\$ 125,000	\$ 3,000,000	\$ 11,019,500

Solid Waste Management Fund

Enterprise Fund

The mission of the Solid Waste Management division is to provide Pierce County citizens with efficient waste reduction, recycling, disposal and household hazardous waste management systems which protect public health and safety and the natural and human environment of Pierce County.

Departmental Summary:

The Solid Waste Management Fund finances the planning, administration, program development, permitting and enforcement for the County's solid waste management system. The fund is under the administration of the Public Works and Utilities Department. The fund supports two separate functions: the Solid Waste Division of the Public Works and Utilities Department which is primarily responsible for planning, program development and recycling, and the Waste Management Section of the Tacoma-Pierce County Health Department which is responsible for regulatory permitting and enforcement issues. Financing is generated through an allocation of the disposal fees collected at disposal sites operated by Land Recovery, Inc.

Budget Highlights:

The Solid Waste Management Fund budget is 21.1% below the current year's budget, due to the fact that the 2005 budget includes the one time costs for the Bachman property clean-up project. The 2006 budget does include:

- a) Consulting and legal services for the Hidden Valley clean-up action plan/consent decree/remediation services; and for on-going post-closure activities;
- b) On-going funding for the Pierce County Responds program;
- c) Continued emphasis on public information programs for recycling, yard-waste/composting activities;
- d) The conversion of extra hire staff to a full time office assistant position;
- e) An \$.89/ton fee increase (March 1,2006); and
- f) Pre-design and programming monies for an Environmental Education Center (\$250,000).

Performance Measures

- 1) The 2006 waste recycling pounds per household will be increased by 25% over 2004. (Goals B, D, E, G, H, I)

FUNDING SOURCES						
	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 2,748,890	\$ 985,460	\$ (1,763,430)	(64.2) %
Intergovernmental Revenue	114,365	599,251	524,240	331,000	(193,240)	(36.9)
Charges for Services	2,791,325	3,017,936	2,700,000	3,200,500	500,500	18.5
Miscellaneous Revenue	148,552	158,619	154,500	286,650	132,150	85.5
Other Financing Sources	(1,474)	175,400	175,000	167,520	(7,480)	(4.3)
Total	\$ 3,052,768	\$ 3,951,206	\$ 6,302,630	\$ 4,971,130	\$ (1,331,500)	(21.1) %

Solid Waste Management Fund

PROGRAM EXPENDITURES

	2005 FTE	2006 FTE	2005 Budget	2006 Budget	Absolute Change	Percent Change
Administration and Planning	6.67	6.31	\$ 1,797,680	\$ 2,029,060	\$ 231,380	12.9 %
Recycling and Debris Cleanup	4.35	4.80	2,958,010	1,393,100	(1,564,910)	(52.9)
Public Information & Education	5.00	5.00	791,270	845,350	54,080	6.8
Capital Improvements	—	—	65,000	100,000	35,000	53.8
Depreciation	—	—	206,450	155,620	(50,830)	(24.6)
Self Insurance	—	—	55,000	55,000	—	—
Landfill Post Closure	—	—	429,220	393,000	(36,220)	(8.4)
Total	16.02	16.11	\$ 6,302,630	\$ 4,971,130	\$ (1,331,500)	(21.1) %

STAFFING SUMMARY

	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
Dir – Public Works & Util	0.03	0.03	0.03	0.03	0.10	0.08
Administrative Svcs Mgr	0.15	0.15	0.15	0.15	0.05	0.05
Solid Waste Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Deputy PW & Utilities Dir	0.03	0.03	0.03	0.05	0.10	0.08
Code Enforcement Supv	—	—	—	—	1.00	1.00
Fiscal Services Mgr	—	—	—	—	0.15	0.15
Planner	1.00	1.00	1.00	1.00	1.00	1.00
Code Enforcement Officer	—	2.00	2.00	2.00	2.00	2.00
Environmental Educator	5.00	4.00	4.00	4.00	4.00	4.00
Solid Waste Recyc Analyst	2.00	3.00	3.00	3.00	3.00	3.00
Accounting Assistant	0.50	0.50	0.50	0.55	0.46	0.46
Dept Info Tech Spec	—	—	—	0.16	0.45	0.16
Supervisory Admin Asst	0.25	0.25	0.25	0.25	0.20	0.20
Administrative Assistant	0.10	0.10	0.10	0.10	0.10	0.10
Records Specialist	—	—	—	—	0.33	0.33
Office Assistant	1.00	1.50	1.50	2.00	2.00	2.50
Special Asst to Dir PW&U	—	—	—	—	0.08	—
Admin Program Mgr	0.15	0.15	0.15	0.15	—	—
Total	11.21	13.71	13.71	14.44	16.02	16.11

Solid Waste Management Fund

WORKING CAPITAL SUMMARY

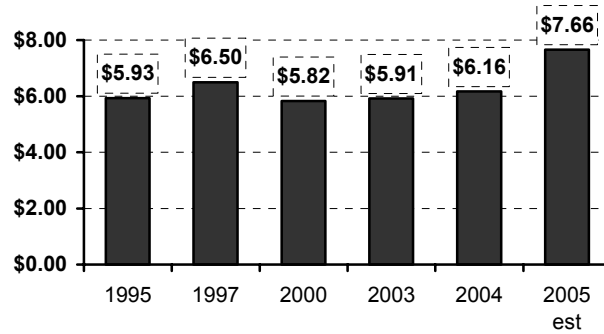
	2005 Estimate	2006 Budget
Operating Revenues		
Charges for Services	\$ 2,728,400	\$ 3,202,000
Grant Reimbursements	524,240	331,000
Subtotal	3,252,640	3,533,000
Operating Expenses		
Administration and Planning	1,781,560	2,029,060
Recycling and Debris Cleanup	2,973,210	1,393,100
Public Information and Education	793,310	845,350
Self Insurance	24,900	55,000
Depreciation	154,780	155,620
Post Closure Care	273,000	393,000
Subtotal	6,000,760	4,871,130
Net Operating Income (Loss)	(2,748,120)	(1,338,130)
Non-Operating Revenue (Expense)		
Interest Income	308,000	285,150
Operating Transfers	175,000	167,520
Subtotal	483,000	452,670
Net Operating Income (Loss)	(2,265,120)	(885,460)
Other Sources (Uses) of Working Capital		
Depreciation/Amortization - add back	154,780	155,620
Equipment Purchases	(5,860)	—
Other Improvements	(65,000)	(100,000)
Subtotal	83,920	55,620
Net Increase (Decrease) in Working Capital	\$ (2,181,200)	\$ (829,840)

WORKLOAD SERVICE DATA

	Unit of Measure	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Estimate	2006 Estimate
Solid Waste Operations							
Monitor solid waste operations	Sites	7	7	7	7	7	7
Household haz. waste cleanup	Participants	4,570	4,869	4,269	4,261	4,500	4,750
Education and Outreach							
Presentations and Workshops	Students	15,257	18,500	23,240	27,000	22,500	25,000
Fairs, Community Events, and Newsletter Recipients	Attendees	425,000	438,000	400,000	407,900	410,000	415,000
Pierce County Responds							
Abating Small Illegal Dumpsites	Vouchers	N/A	N/A	50	425	500	500
Abating Nuisance Vehicles	Vehicles	N/A	N/A	N/A	1,830	1,200	1,200
Abating "Dirty Dozen" Sites	Sites	N/A	2	8	1	1	2

BUDGET RATIOS

Expenditures per Resident Served



- ❖ From 1995 to 2005 expenditures per resident served, excluding closure expenses, post-closure care, and the Connells Prairie Dump cleanup, increased 29% after adjusting for inflation.

Surface Water Management Fund

Special Revenue Fund

The mission of the Water Programs Division is to be a responsive service organization that efficiently addresses flood control, water quality, and the preservation of natural drainage systems.

Departmental Summary:

The Storm Drainage and Surface Water Management Fund (SWM) was established to provide resources to plan, manage, and maintain the storm drainage and surface water runoff systems within unincorporated Pierce County drainage basin areas. The goals of the utility are to maintain water quality by preventing siltation and erosion of the County's waterways, protect water quality of lakes and aquifers, protect water quality for wildlife and fish habitat, and to minimize property loss from water damage.

The Flood Control - Rivers Division of SWM maintains the flood control capacity of about 43 miles of channel in the downstream reaches of the Puyallup, White and Carbon Rivers. Pierce County has adopted the Puyallup River Basin Comprehensive Flood Control Management Plan that establishes maintenance and construction alternatives for the downstream reaches of the three rivers.

Budget Highlights:

The proposed 2006 Surface Water Management Fund budget total is 28% above 2005. The 2006 budget reflects a sizeable program of capital improvements (i.e. land purchases and construction projects) and five new positions devoted to permitting assistance, design support, maintenance activities, and construction oversight.

In order to balance this budget we will be using approximately \$11.8 million in prior fund surplus.

Performance Measures

- 1) Design and award at least 90% of the number of projects planned to be awarded in the 2006 capital facilities plan. (Goals B, D, E, G, H, I)

FUNDING SOURCES						
	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 6,862,330	\$ 11,827,580	\$ 4,965,250	72.4 %
Intergovernmental Revenue	1,392,190	78,292	77,610	79,980	2,370	3.1
Charges for Services	13,161,073	12,792,896	13,102,940	13,404,070	301,130	2.3
Miscellaneous Revenue	299,283	321,364	210,000	606,000	396,000	188.6
Other Financing Sources	1,500	69	—	—	—	—
Total	\$ 14,854,046	\$ 13,192,621	\$ 20,252,880	\$ 25,917,630	\$ 5,664,750	28.0 %

Surface Water Management Fund

PROGRAM EXPENDITURES

	2005 FTE	2006 FTE	2005 Budget	2006 Budget	Absolute Change	Percent Change
Drainage Ops & Maint/Admin	33.53	34.24	\$ 8,083,980	\$ 10,026,400	\$ 1,942,420	24.0 %
Water Quality/NPDES	5.68	5.27	1,086,380	1,208,780	122,400	11.3
Capital Improvement Program	7.69	11.14	9,314,480	12,159,400	2,844,920	30.5
Habitat Protection/Restoration	—	—	150,000	65,000	(85,000)	(56.7)
Quarry Operations	2.20	1.55	511,040	509,880	(1,160)	(0.2)
River Improvement	6.17	8.09	1,107,000	1,948,170	841,170	76.0
Total	55.27	60.29	\$ 20,252,880	\$ 25,917,630	\$ 5,664,750	28.0 %

PROJECT SUMMARY

Drainage Basin	Project Name	Project #	Total Est Project Cost	2006 Budget
Chambers Bay	Parkland Ditch	D160	\$ 215,000	\$ 42,000
Clear/Clarks Creek	Springfield Pothole	D136	582,500	150,000
Clear/Clarks Creek	Canyon Creek Bypass	D138	1,454,500	50,000
Clear/Clarks Creek	144th Street & 94th Avenue East	D174	128,000	100,000
Clear/Clarks Creek	144th & Meridian Region Stormwater Facility	D337	900,000	900,000
Clear/Clarks Creek	128th Street East & Meridian Infiltration Pond	D338	600,000	400,000
Clear/Clarks Creek	Springfield Alternative Outfall to the Puyallup	D339	900,000	500,000
Fox Island	Fox Island Etloh Drainage	D188	129,000	120,000
Gig Harbor	Gig Harbor Basin Floodplain Acquisition	D340	2,500,000	500,000
Gig Harbor	McCormick Creek Culvert Replacements	D180	635,000	450,000
Key Peninsula	Rocky Creek Acquisition	D170	1,200,000	300,000
Mid-Nisqually	Mid-Nisqually Flood Prone Property Acquisition	D185	918,000	300,000
Mid-Puyallup River	Fennel Creek Wetland Enhancement & Det	D172	918,000	600,000
Mid-Puyallup River	Mid-Puyallup Floodprone Property Acquisition	D177	1,858,000	750,000
Mid-Puyallup River	Quarry Tax Title Acquisition	1350	1,536,000	384,000
Mid-Puyallup River	Puyallup River PR 5.2 Bank Stabilization	1360	1,171,900	1,171,900
Muck Creek	Christian-Muck Road	D166	408,000	75,000
Muck Creek	Lower Lacamas Riparian Restoration	D341	1,538,000	350,000
Muck Creek	288th & Muck Creek	D826	313,000	66,000
South Prairie	South Prairie Flood Prone Property Acquisition	D184	1,934,000	300,000
Steilacoom/Clover Creek	North Fork Clover Creek	D143	5,205,000	100,000
Steilacoom/Clover Creek	Spanaway Creek Fish Ladder	D825	380,000	350,000
Steilacoom/Clover Creek	Clover Creek Habitat	D157	3,159,000	250,000
Steilacoom/Clover Creek	224th & Meridian Infiltration Pond	D186	2,454,000	100,000
Steilacoom/Clover Creek	Morey Creek Fish Ladder	D189	50,000	50,000
Steilacoom/Clover Creek	Improv	D178	2,122,000	2,087,000
Steilacoom/Clover Creek	Clover Creek Channel Modification	D183	3,709,000	1,124,000
Steilacoom/Clover Creek	Outfall Retrofits	D823	690,400	132,000
Steilacoom/Clover Creek	Graham Area Groundwater Study	D187	143,000	115,000
Steilacoom/Clover Creek	E1 Detention Pond Wetland Monitoring	D303	5,405,000	4,000
Steilacoom/Clover Creek	W1 Detention Pond Wetland Monitoring	D327	4,545,000	8,000
Steilacoom/Clover Creek	Frederickson / 192nd St	D165	425,000	25,000
Steilacoom/Clover Creek	Springwood Retention Pond	D824	413,200	25,000
Subtotal			48,539,500	11,878,900
All	General Capital Improvement Project Support	D100	—	280,500
Total CIP			\$ 48,539,500	\$ 12,159,400

Surface Water Management Fund

STAFFING SUMMARY

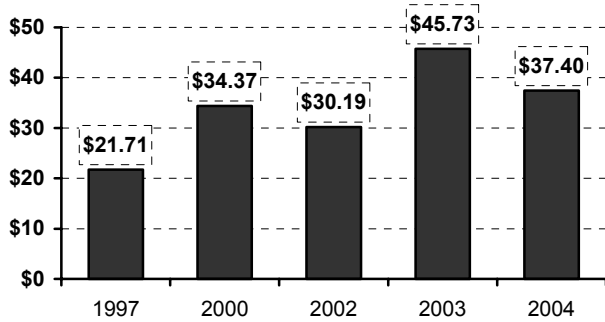
	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
Dir – Public Works & Util	0.07	0.17	0.18	0.18	0.20	0.14
Water Programs Manager	0.60	0.60	0.70	0.70	0.95	0.95
Administrative Svcs Mgr	0.30	0.30	0.30	0.30	0.14	0.17
Deputy PW & Utilities Dir	0.07	0.17	0.18	0.17	0.20	0.14
Planner	3.00	5.00	4.90	6.00	7.00	6.97
Water Program Maint Mgr	0.95	1.00	1.00	1.00	1.00	1.00
Civil Engineer	8.90	9.93	9.80	10.71	10.85	13.25
Fiscal Services Mgr	—	—	—	—	0.40	0.45
Public Works Proj Coord	—	—	—	—	1.00	1.00
Engineering Technician	9.15	8.65	7.90	9.00	10.00	12.00
Right of Way Agent	0.35	0.35	0.35	0.35	0.61	0.61
Heavy Equipment Operator	—	4.00	4.00	4.00	4.00	4.00
GIS Specialist	—	—	0.80	0.92	0.93	0.93
Public Works Supv	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	2.35	2.40	2.40	2.40	2.44	2.49
Maintenance Technician	—	—	6.00	6.00	6.00	6.00
Water Quality Specialist	1.00	1.00	1.00	1.00	1.00	1.00
Environmental Biologist	0.80	0.40	0.50	2.00	2.00	2.90
Dept Info Tech Spec	—	—	—	0.17	0.46	0.17
Supervisory Admin Asst	0.15	0.15	0.15	0.15	0.15	0.18
Administrative Assistant	0.15	0.35	0.35	0.35	0.35	0.35
Records Specialist	—	—	—	—	0.33	0.33
Maintenance Office Mgr	1.00	1.00	1.00	1.00	1.00	1.00
Office Assistant	2.26	2.26	2.26	2.26	2.26	2.26
Administrative Aide	1.00	0.98	0.98	1.00	1.00	1.00
Admin Program Mgr	0.40	0.40	0.40	0.40	—	—
Environmental Educator	—	—	—	1.00	—	—
River Improvement Spec	4.00	—	—	—	—	—
River Technician	6.00	6.00	—	—	—	—
Total	43.50	46.11	46.15	52.06	55.27	60.29

WORKLOAD SERVICE DATA

	Unit of Measure	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Estimate	2006 Estimate
Inquiries/responses	Contacts	331	151	229	250	250	250
Drainage plan reviews	Plans	70	80	65	70	80	70
Constructed CIP projects	Each	3	4	2	4	4	5
Drainage studies	Each	3	4	4	6	10	15
NPDES compliance	Hours	10,400	10,155	8,445	9,746	11,472	11,356
Access roads maintained	Miles	5	5	38	16	22	18
Vegetation control	Hours	1,304	1,853	1,466	1,000	1,000	1,000
Dike repair materials	Tons	4,653	145	6,183	4,800	5,000	7,500
Retention/Detention pond maint	# of sites	95	146	127	110	110	120
CIP expenditures	Dollars	8,860,000	2,350,000	5,015,829	7,273,700	7,790,700	8,500,000
Small works projects	Each	9	16	10	6	5	5
Proj w/ on-time environ approvals	Projects	10	0	2	5	5	5
Non-point watershed plans	Actions	16	15	61	55	50	50
Projects funded by Salmon RFBrd	Percent	50	100	19	33	100	100
Basin plans/characterization reports	Issued	0	7	3	4	4	3

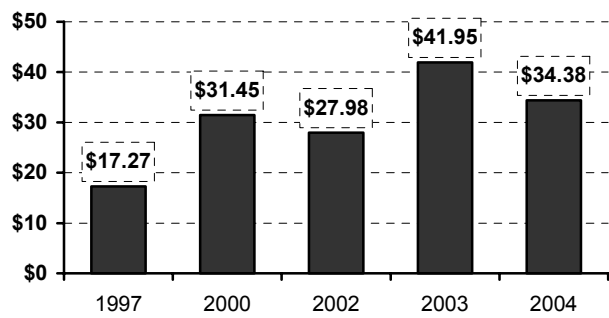
BUDGET RATIOS

SWM Total Expenditures
Per County Resident Served



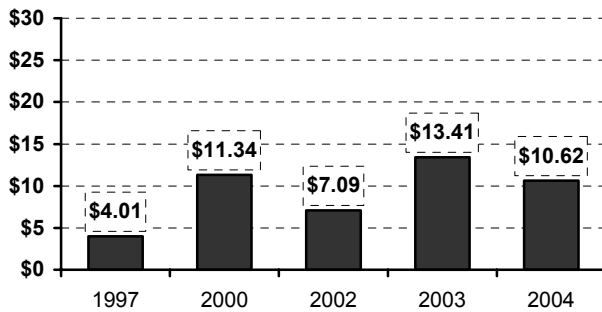
❖ From 1997 to 2004 total SWM expenditures per resident served increased 72% after adjusting for inflation. (Beginning in 1997, total SWM costs include River Improvement costs.)

SWM Total Expenditures Less River
Per County Resident Served



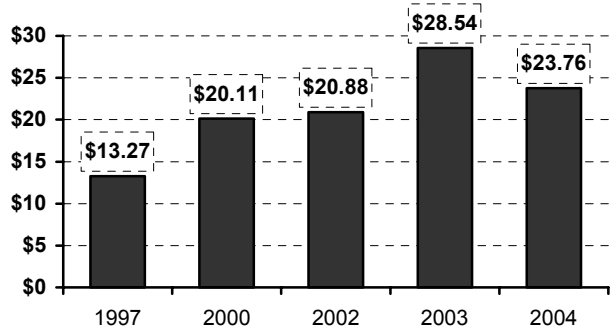
❖ From 1997 to 2004 total SWM expenditures per resident served excluding River Improvement costs increased 99% after adjusting for inflation

SWM Land/Construction Costs
Per County Resident Served



❖ From 1997 to 2004 land and construction expenditures per resident served (excluding River Improvement costs) increased 165% after adjusting for inflation.

SWM Operating Expenditures
Per County Resident Served



❖ From 1997 to 2004 SWM operating expenditures per resident served (excluding River Improvement costs) increased 79% after adjusting for inflation.

Water Utility Fund

Enterprise Fund

Departmental Summary:

The Water Utility was created to develop the ground and surface water rights located at the County's Chambers Creek Properties. The Utility initial plan is to either develop the water rights itself or utilize a water development contract with a third party. The developed water resource would then be wholesaled to one or more water utilities within Pierce County.

Budget Highlights:

The proposed 2006 budget continues to fund the initial development of the Water Utility, which began in 1999. The initial steps include conversion of the water rights at Chambers Creek from industrial to municipal use; investigation of methods to contract out development of the water rights; development of a Water General Plan; assessment of the ground and surface waters; and development of a Water System Plan. The major components of the 2006 budget are:

- a) The on-going expenses associated with these various studies;
- b) The costs for staff assigned to these activities;
- c) Interest expense; and
- d) An 800 gal/min well pump with flow control valves and meter.

The initial funding for the development of the Water Utility is a loan from the Sewer Facilities Capital Reserve Fund.

FUNDING SOURCES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ 198,750	\$ 304,170	\$ 105,420	53.0 %
Total	\$ —	\$ —	\$ 198,750	\$ 304,170	\$ 105,420	53.0 %

EXPENDITURES

	2003 Actual	2004 Actual	2005 Budget	2006 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ 9,255	\$ 3,574	\$ 8,110	\$ 660	\$ (7,450)	(91.9) %
Personnel Benefits	2,192	(180)	1,680	200	(1,480)	(88.1)
Other Services & Charges	6,349	2,835	158,960	157,810	(1,150)	(0.7)
Capital Outlays	—	—	—	110,000	110,000	∞
Interest	22,004	22,557	30,000	35,500	5,500	18.3
Total	\$ 39,800	\$ 28,786	\$ 198,750	\$ 304,170	\$ 105,420	53.0 %

Water Utility Fund

STAFFING SUMMARY						
	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE	2006 FTE
GIS Specialist	—	—	—	0.01	0.01	0.01
Special Asst to Dir PW&U	—	0.10	0.10	0.10	0.08	—
Water Programs Manager	0.20	0.20	0.20	0.20	—	—
Asst to Exec Dir of Oper	0.30	—	—	—	—	—
Planner	0.50	—	—	—	—	—
Total	1.00	0.30	0.30	0.31	0.09	0.01