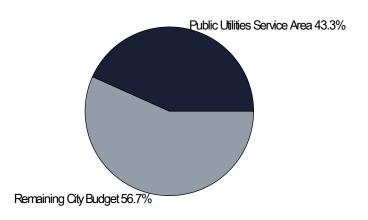
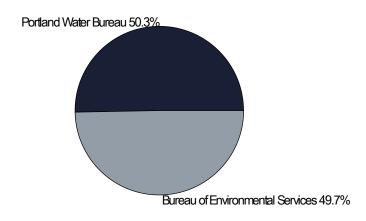
· Bureau of Environmental Services

Portland Water Bureau

Percent of City Budget



Percent of Service Area Budget



Service Area Overview

	Revised	Adopted	Change from	Percent
Requirements	FY 2011-12	FY 2012-13	Prior Year	Change
Operating	1,442,208,883	1,322,689,788	(119,519,095)	(8.29)
Capital	191,701,047	231,297,000	39,595,953	20.66
Total Requirements	1,633,909,930	1,553,986,788	(79,923,142)	(4.89)
Authorized Positions	1,173.83	1,151.83	(22.00)	(1.87)
Total Requirements	1,633,909,930	1,553,986,788	(79,923,142)	

Service Area Highlights

Description

The Public Utilities service area includes utility services provided by the City. These include water service provided by the Portland Water Bureau and sewer and stormwater management services provided by the Bureau of Environmental Services (BES).

Major Themes

Utility Rate Increases

The Adopted Budget for FY 2012-13 includes an average monthly effective retail rate increase of 7.6% for water service. The average monthly single family sewer and stormwater bill increase is 5.4%.

Portland Water Bureau

The Water Division's budget of \$216.7 million is composed of the operating budget of \$80.8 million and the capital budget of \$135.9 million.

The operating budget of \$80.8 million represents an increase of \$3.2 million from the FY 2011-12 Revised Budget of \$77.6.

The capital budget of \$135.9 million is an increase of \$23.4 million from the FY 2011-12 Revised CIP Budget. For additional information, review the Water Bureau CIP section of the budget submission.

The budget funds 616.8 FTE. This includes five new positions associated with the increased monitoring decision package, ten position reductions, one limited term full time and two limited term part time.

Long Term 2 Enhanced Surface Water Treatment Rule

The City has received a variance from building a UV treatment plant for cryptosporidium. If Portland is successful in continuously meeting the stated conditions of the variance that went into effect April 1, 2012, then it will be in effect for ten years. However the City does have to cover its open finished drinking water reservoirs by December 31, 2020.

Bureau of Environmental Services

The FY 2012-13 Adopted Budget for operating and capital expenditures is \$220.2 million which is \$6.1 million, or 2.7%, lower than the Revised Budget for FY 2011-12

The operating portion of BES's Adopted Budget is 8.9%, or \$10.2 million, higher than the FY 2011-12 Revised Budget.

The CIP will decrease \$16.3 million over the FY 2011-12 Revised Budget which is primarily due to the completion of the Combined Sewer Overflow (CSO) abatement projects.

Combined Sewer Overflows

The City is subject to Oregon Department of Environmental Quality (DEQ) administrative orders regarding overflows from the bureau's combined sewer and stormwater collection system. CSO control facilities were fully operational by the agreed upon date of December 1, 2011. The FY 2012-13 Adopted Budget includes \$3.4 million of CSO capital costs, reflecting completion of the CSO projects.

Portland Harbor Superfund

BES represents the city's interests on the Portland Harbor Superfund site by working with DEQ to identify and reduce sources of contamination conveyed to the Willamette River via stormwater outfalls, and working with other stakeholders to assess current and past land use practices within the lower Willamette drainage basin. This information will be used in the Superfund process over the next several years to assess the city's potential liability for cleanup activities. The FY 2012-13 Adopted Budget includes \$3.9 million of expenditures related to the Portland Harbor Superfund.

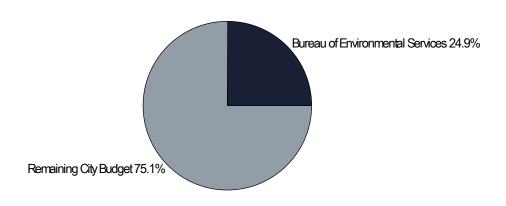
The Office of Healthy Working Rivers

Healthy Working Rivers (HWR) will integrate environmental restoration, economic development, and community involvement for the Portland segments of the Willamette and Columbia Rivers. HWR will facilitate river-related projects contributing to City and regional economic prosperity, and implement habitat improvement projects to restore and protect riparian ecological functions. The Adopted Budget includes funding of \$622,455 for four positions, as well as funding for technical support. For FY 2012-13, one HWR position will be temporarily assigned to work on the Endangered Species Act Program and one vacant position is being eliminated.

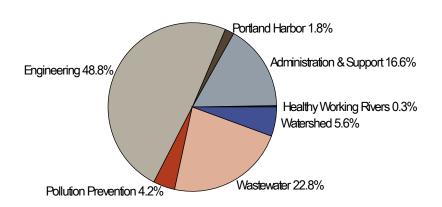
Public Utilities Service Area

Dan Saltzman, Commissioner-in-Charge Dean Marriott, Director

Percent of City Budget

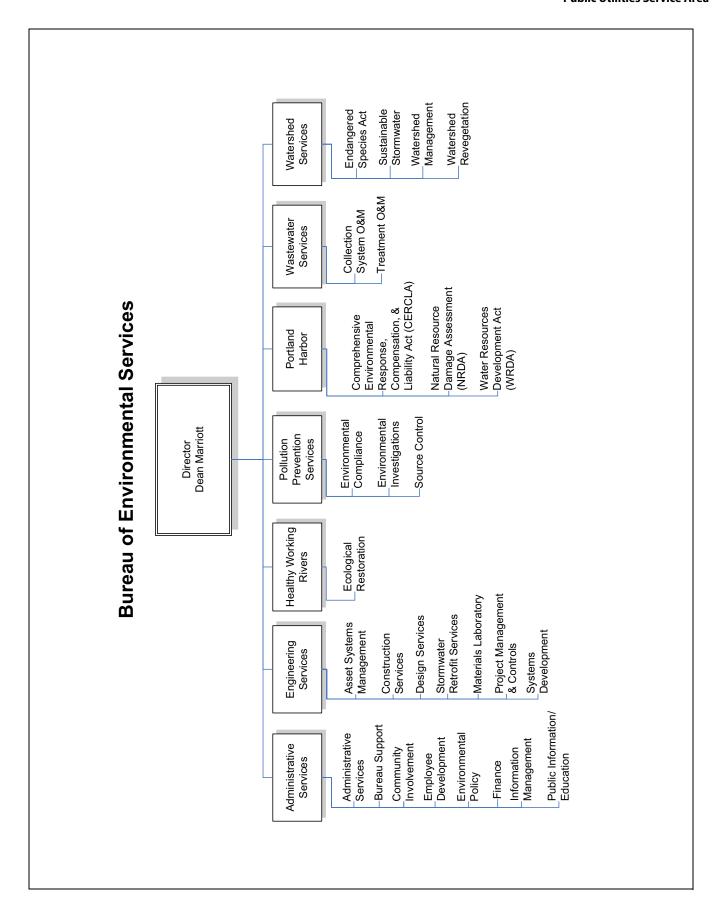


Bureau Programs



Bureau Overview

Requirements	Revised FY 2011-12	Adopted FY 2012-13	Change from Prior Year	Percent Change
Operating	886,144,413	799,514,419	(86,629,994)	(9.78)
Capital	112,101,047	95,427,000	(16,674,047)	(14.87)
Total Requirements	998,245,460	894,941,419	(103,304,041)	(10.35)
Authorized Positions	543.03	532.78	(10.25)	(1.89)



Bureau Summary

Bureau Mission

The Bureau of Environmental Services, Portland's clean river agency, serves the Portland community by protecting public health, water quality, and the environment.

BES provides sewage and stormwater collection and treatment services to accommodate Portland's current and future needs.

BES protects the quality of surface and ground waters and conducts activities that plan and promote healthy ecosystems in our watersheds.

Bureau Overview

The bureau has seven major functional program areas and serves over 586,000 customers. The bureau operates and maintains sanitary sewer and stormwater collection systems with retail sewer and stormwater charges, wholesale contract revenues from surrounding jurisdictions, and reimbursements for services provided to other bureaus. The bureau's seven primary functional program areas are: Engineering Services, Pollution Prevention Services, Watershed Services, Wastewater Services, Portland Harbor, Healthy Working Rivers, and Administrative Services.

The FY 2012-13 Adopted Budget for operating and capital expenditures is \$220.2 million, which is \$6.1 million or 2.7% lower than the Revised Budget for FY 2011-12 and includes 532.78 full-time equivalent positions. The Capital Improvement Plan will decrease \$16.3 million from FY 2011-12 which is primarily due to the completion of the Combined Sewer Overflow (CSO) abatement projects. The operating portion of the Adopted Budget is 8.3% or \$9.6 million higher than the FY 2011-12 Revised Budget. Increases within the bureau budget are for services from other bureaus (+\$1.6 million /+4.8%) and \$13.5 million of Utility Franchise Fee payments to the General Fund now reflected within external materials and services (+\$11.9 million /+38.1%). The average single-family residential sewer and stormwater bill will increase by 5.4% in FY 2012-13

Strategic Direction

Environmental

Combined Sewer Overflows (CSO)

The City is subject to Oregon Department of Environmental Quality (DEQ) administrative orders regarding overflows from the bureau's combined sewer and stormwater collection system. CSO control facilities were fully operational by the agreed upon date of December 1, 2011. The Adopted Budget includes \$3.4 million of CSO capital costs and reflects the completion of the CSO projects.

Portland Harbor Superfund

The bureau represents the City's interests on the Portland Harbor Superfund site by both working with DEQ to identify and reduce sources of contamination conveyed to the Willamette River via stormwater outfalls, and with other stakeholders to assess current and past land use practices within the lower Willamette drainage basin. This information will be used in the Superfund process over future years to assess the City's potential liability for cleanup activities. The FY 2012-13 Adopted Budget includes \$3.9 million of expenditures related to the Portland Harbor Superfund.

Healthy Working Rivers

Healthy Working Rivers (HWR) will integrate environmental restoration, economic development, and community involvement for the Portland segments of the Willamette and Columbia Rivers. HWR will facilitate river-related projects contributing to City and regional economic prosperity, and implement habitat improvement projects to restore and protect riparian ecological functions. The Adopted Budget includes funding of \$622,455 for four positions, as well as funding for technical support. For FY 2012-13, one HWR position is on loan to the Endangered Species Act Program and one vacant administrative position is being eliminated.

Water Quality Compliance

Compliance with the City's National Pollution Discharge Elimination System (NPDES) stormwater permit and with total maximum daily load (TMDL) regulations issued by DEQ requires modeling and evaluation of citywide pollutant loads, stormwater runoff volumes, and the effectiveness of stormwater management program implementation. The bureau must also comply with underground injection control (UIC) regulations issued by DEQ for the City's 8,548 stormwater sumps. The Adopted Budget contains water quality compliance-related funding across a variety of bureau program areas including Watershed Services, Pollution Prevention Services, and Engineering Services.

Endangered Species Act Requirements

The bureau continues to develop and implement a comprehensive watershed framework for the protection of the Lower Columbia steelhead and the Lower Columbia Chinook salmon per the requirements of the Endangered Species Act (ESA). In addition, the bureau has also begun implementing procedures to comply with requirements related to the designation of the City's streams as critical habitat by the National Marine Fisheries Service. The FY 2012-13 Adopted Budget contains \$1.2 million in ESA-related funding in program areas including Watershed Services, Pollution Prevention Services, and Engineering Services.

Restoration and Remediation

The Adopted Budget includes funding for continued flood management and watershed restoration activities in the Johnson Creek watershed. It also funds the identification and characterization of contaminated sediment sites in the Columbia Slough, pursuant to a consent order between the City and DEQ.

Operational Issues

The Adopted Budget includes \$31.6 million to support the operation and maintenance of 97 active pumping stations, 2,328 miles of pipeline, 62,706 manholes, 8,548 stormwater sumps, 172,216 laterals, 758,117 lineal feet of ditches, 55,380 stormwater inlets and catch basins, 347 trash racks, 155 parcel-based stormwater facilities (manufactured), 1,375 green stormwater facilities (including parcel-based facilities and green streets), and 242 stormwater detention facilities. The FY 2012-13 Adopted Budget includes costs associated with increased inspection, cleaning and repair of sewer system assets.

Infrastructure

The Adopted Budget includes \$36.8 million to support capital repair and replacement of sewer system assets to prevent catastrophic failures. More than 30% of the collection system is over 80 years old and maintenance needs are anticipated to increase significantly in the near future. The bureau has committed to providing funds for repair of structurally deficient portions of the sewer collection system, and the long-term financial forecast anticipates significant increases in the capital maintenance budget beyond completion of the CSO program.

Watershed Opportunities

The Adopted Budget includes \$1.5 million for each year of the five-year Capital Improvement Plan to fund innovative watershed enhancements. Priority will be given to projects that leverage other funding sources, demonstrate new technologies, and/or address multiple watershed health goals. Additionally, the bureau is investing \$48 million over the next four years to ensure Portland continues to grow in a way that protects and enhances watershed health. The Grey to Green initiative will add 43 acres of ecoroofs, construct 920 Green Street facilities, plant 33,000 yard trees and 50,000 street trees, set up the fight against invasive weeds, replace eight culverts that block fish passage, and purchase 419 acres of high priority natural areas.

Green Street Facilities on Bicycle Boulevards

The Adopted Budget includes \$13.4 million in CIP expenditures for Fiscal Years 2012- 13 through 2015-16 to construct green street facilities along high-priority bicycle boulevards. These facilities will serve the dual purpose of removing stormwater inflows from combined sewers, thereby reducing basement backups, and of calming traffic along designated bicycle boulevards. The facilities constructed will include 920 facilities targeted for completion under the Grey to Green initiative.

Service Improvement Asset Management

Providing wastewater and stormwater utility services requires infrastructure such as pipes, pumps, treatment facilities, as well as the natural environment including surface and ground water, topography, soils, and vegetation. The bureau has researched and applied the leading asset management principles by participating in the Water Services Association of Australia's asset management benchmarking program. This has formulated an asset management framework and implementation plan and the next step is to implement key asset management elements. In 2011, the bureau updated its strategic plan that mandates the use of asset management principles in the bureau's business practices.

Ongoing activities include the increasing use of asset management principles in system planning activities, which includes the Sewer Rehabilitation Program, and the selection criteria for prioritizing project in the Capital Improvement Program.

The following will be completed by June 30, 2013:

- Level of Service "strategic outcomes" will be used to help inform the new revised BES Strategic Plan and help to identify define specific bureau activities necessary to meet the strategic levels of service.
- Review and refine bureau-wide performance measures in light of the revised strategic plan. New performance measures will be developed where necessary to reinforce the direction set by the strategic plan.
- Complete Phase I of the Green Asset Inventory and Assessment Project, designed to help define the necessary follow-on phases to perform field work and information management tasks.
- Integrate asset management principles for risk-based planning into three infrastructure planning projects: sewer rehabilitation, plants and pump station operations and maintenance, and the Stephens Creek stormwater system plan. Specific deliverables would include submittals to DEQ to satisfy regulatory requirements such as a Pump Station Reliability Plan, and a Grease Management and Control Program.

Fats, Oils, and Greases (FOG) Program

The City of Portland's FOG Program goals are to minimize the accumulation of fats, oils, and grease in the collection system, reduce associated cleaning costs, eliminate the potential for sewage overflows and basement backups, and promote the proper handling and disposal of fats, oils, and grease. The City has implemented this program through outreach to residential homes and commercial facilities, inspecting grease removal devices at food service establishments, increased sewer line cleaning in areas at increased risk of blockages and overflows, and conducting enforcement actions when sewage overflows are a result of grease blockages. While this has been partially successful, it appears that technical assistance is becoming less effective, which has resulted in increased line cleaning frequency and a

growing number of areas at risk for line blockages and sewer overflows. To address this issue, the City has begun to reorganize the program and take a more proactive approach in minimizing fats, oils, and grease from entering the City's sewer system. Consistent with last year's goals, City Code and Administrative Rules have been updated to reflect the following FOG program goals:

- By June of 2013, the bureau plans to meet with all food service establishments to encourage proper implementation of best management practices;
- Inspect all grease removal devices at all food service establishments to ensure they are in good working condition and being pumped out regularly to minimize the discharge of FOG into City sewers; and
- Phase in tiered extra strength charges for food service establishments and other high-strength dischargers to more equitably distribute the costs of treating FOG and other high-strength discharges across customer groups and to provide enhanced incentives to businesses to minimize discharges of FOG into City sewers.

Audit of BES/PBOT Maintenance Activities

The bureau is responsible for maintaining the City's sanitary sewer and stormwater collection infrastructure, including approximately 2,300 miles of pipes. The bureau has an agreement with the Portland Bureau of Transportation (PBOT) Maintenance Division to provide pipe inspection, cleaning, and repair services. The Auditor's office examined the current agreement against the possibility of locating the maintenance operation within BES, and found potential savings to sewer and stormwater customers from a transfer of responsibility, but pointed out several operational issues that could affect that estimate. The audit recommended that the Commissioners in charge of the respective bureaus develop a coordinated proposal to either maintain or reorganize the relationship, while taking account of the operational issues involved in any transfer.

PBOT and BES worked with OMF staff to develop a scope of work and timeline for a consultant study to assess the potential for savings in relocating the maintenance operation within BES. The City issued an RFP for the work and there were no responses. Follow-up with firms having shown initial interest revealed some uncertainty as to the extent of the work and qualifications required.

By June of 2013, BES and PBOT staff will refine the scope and timeline, reissue the RFP, complete work on the consultant study and have a joint recommendation for Council on the appropriate organization of sewer and stormwater maintenance work.

Summary of Budget Decisions

Reductions

The FY 2012-13 Adopted Budget, including the following budget decisions, results in a 5.4% average rate increase.

Reductions for 5.4% Rate Increase

These changes include identified reductions that represent removal of one-time expenditures from the current budget, savings from past projects and completed programs or program expenditures, savings on new contracts, or other reductions that pose acceptable risks to service delivery. All decision package reductions total \$4,044,172.

The budget in Healthy Working Rivers was reduced by \$35,000 for outside consultant assistance and eliminate a vacant Office Support Specialist III position and correlating budget of \$75,564.

Eliminate a Principal Financial Analyst (\$139,932) due to retirement within the Environmental Policy program.

Eliminate agreement with the Tribal Institute at Portland State University (\$35,000) within the Portland Harbor Program.

Within the Finance Program, eliminate one-year consultant funding (\$21,000) for rate approval process, remove \$35,615 contribution for the COPPEA Professional Development Fund for one year, eliminate consultant support (\$23,315) for auditing bureau contracts, and hold vacant an Accountant I position (\$59,430) for one year.

Within the Asset Management Program, eliminate funding for legal expenses (\$35,000) that were associated with the possibility of an EPA consent order.

Within Watershed Revegetation Program reduce support for private property stormwater retrofits (\$75,500).

Within the Construction Services Program eliminate a vacant Chief Engineer (\$138,342) position and within all Engineering Services programs eliminate 25% of training and travel (\$37,500) for 180 employees within Engineering Services. Additionally, the program is eliminating a Senior Administrative Specialist (\$51,540) at mid-year, a position that is on loan for community outreach purposes related to the FOG program.

Within Pollution Prevention Services, reduce maintenance of grounds at Water Pollution Control Lab and changes in scheduled services from Parks (\$27,398), reduce office support, travel and outside laboratory services (\$100,150), reduce maintenance inspection program for privately owned stormwater facilities (\$10,000), eliminate agreement with DEQ for Underground Injection Control permits as this is being done in-house (\$19,000) and hold vacant an Environmental Program Manager within the Environmental Compliance Program for one year (\$115,356).

Watershed Services reduces outside support to continue the implementation of the Portland Watershed Management Plan (\$65,000), and eliminates two interagency agreements with Parks; these include the IGA with Multnomah County for dog rule enforcement (\$69,000) and Arbortec fungicide to protect elm tree canopy (\$62,500). Additionally, the Grey to Green program is deferring funding for the ecoroof grant program to reflect lower-than-forecast expenditures due to current economic conditions (\$637,512).

Wastewater Services reduces overtime (\$50,000) within the Treatment program by budgeting for historical trends; reduces operating budget funding for emergency repairs (\$250,000) as they are more appropriately recorded within the CIP; eliminates funding for a forklift (\$20,938); holds vacant an Electrician/Instrument Technician (\$93,972) for one year; and reduces security services (\$62,500) as the new Support Facility, operational January 2013, will have security card access, thus eliminating the need for on-site security guards. There are no reductions within the Collections System Program.

Vacancy Savings

The bureau eliminated an additional 7.5 FTEs and associated budget of \$467,436. The positions eliminated are the Portland Harbor Superfund Administrator, a CAD Technician II, a Capital Projects Manager I, a Senior Engineering Associate (Civil), 1.5 Engineering Technicians IIs, a Environmental Technician I, a part-time Senior Management Analyst and a part-time Senior Administrative Specialist. Of the total vacancy cuts, 5.25 FTEs resulted in savings within the operating budget.

COLA and Merit Savings

The Adopted Budget includes delaying cost of living adjustments until the first pay period in June 2012 and freezing merit increases for non-represented employees with a salary over \$45,000 per year to achieve a total savings of \$884,909.

OMF Interagency Adjustments

As a result of mandatory and efficiency reduction packages submitted by the Office of Management and Finance internal service operations, the Bureau's interagencies have decreased by a total of (\$415,763), including COLA savings passed through to customer bureaus. The reductions include:

- Debt Management reduction of \$11,009 reflecting savings in consulting contracts.
- Enterprise Business Solution Fund reduction of \$110,704 reflecting savings in consulting contracts and reductions to corporate applications, emergency management system and professional development.
- City Fleet reduction of \$1,626 reflecting the bureau's share of COLA savings.
- Risk Management reduction of \$25,400 reflecting savings from reducing excess liability second layer and eliminating an office support position.
- ◆ Technology Services reduction of \$257,014 reflecting savings from a mobile data contract, discounts for 800 MHz radio equipment replacement and GIS major maintenance. Other areas of savings were cuts in materials and services for IRNE operations, Business Solution support, Support Center, Telecommunications, Windows Server support and Radio System support. Positions cuts of 10.0 FTE also contributed to the savings.
- Facilities Services reduction of \$30,714 reflecting savings through the elimination of Portland Building desk-side trash service, replacement of paper towels in the Portland Building restrooms with electronic hand dryers, the elimination of regularly scheduled air quality testing, the reduction of renewable energy funding account and reduction of software upgrades and support staffing. Additional cuts to the Portland Building operations will reduce winter temperature to 68 degrees, increase summer temperature to 74 degrees, reduce window cleaning, and reduce custodial services by 4%.
- Printing and Distribution reduction of \$11,925 reflecting savings through cuts to equipment maintenance, copier/printer replacement cycles, inter-office efficiencies and the elimination of one position.

The above savings are offset by additional cost-sharing of \$100,956 for these centralized city services:

- Facilities Services funding of \$27,932 for American with Disabilities Act Phase II and III Compliance Assessment.
- Procurement funding of \$17,711 for a Minority Evaluator to support the City's minority evaluator services in reviewing Professional, Technical, and Expert (PTE) contracts and bids. Additional duties include bureau support management for the Mayor's Summer Youth Connect Program through SummerWorks. This cost will be added to the General Fund overhead recovery model in FY 2013-14.
- Procurement funding of \$55,313 for Reinvestment Act (ARRA) position support. This one-time extension of funding will allow Procurement Services compliance staff to continue compliance monitoring activities.

Adds Portland Loos

The Portland Water Bureau will transfer all Portland Loos' assets and maintenance responsibilities to BES effective July 1, 2012. The maintenance responsibilities on seven facilities is estimated at \$105,000 to maintain and \$14,000 for annual repairs. Bureau budget reductions to absorb this additional cost were derived from funding decreases for interns and security and project management services from central facilities.

Capital Budget

Bureau Summary

CIP Highlights and Major Issues

BES successfully met its December 2011 deadline for Combined Sewer Overflow (CSO) commitments mandated by the requirements of the Amended Stipulation and Final Order (ASFO). A few small projects remain to be completed (1% of the total CIP). The majority, 63%, of the 5-Year CIP is in Maintenance and Reliability. The balance is divided among Sewage Treatment Systems (18%), Surface Water Management (15%), and Systems Development (3%). BES operates and maintains an extensive array of capital facilities that include both sanitary and storm water collections systems, pumping and treatment facilities, and watershed enhancements.

In order to manage the Bureau's extensive infrastructure investment, BES is developing an asset management approach to prioritize future investment. Much of the collection system pipe in the City's older neighborhoods is more than 100-years old. BES has a regular inspection program to determine pipe condition and utilizes capital projects and operational activities to rehabilitate or replace failing pipe. The recently completed system plan element for the sanitary and combined collection systems, identified an estimated \$123 million in priority pipe maintenance needs. The Sewage Treatment Systems program is to maintain and upgrade the two wastewater treatment plants (Columbia Boulevard and Tryon Creek) and nearly 100 pump stations located throughout the collection system. A number of major upgrades are underway at the Columbia Boulevard plant. These upgrades are required in order to continue to meet permit requirements and to handle the increased flow from the CSO projects.

Public Utilities Service Area

Changes from Prior Year

In comparing this proposed five-year CIP to last year's 2012-2016 CIP, the four common years (2013-2016) have increased by \$13 million or 3%. The increase can be attributed to a combination of minor shifts in project schedules and project priorities and a 1.016% escalation factor for future projects. All projects in the five-year CIP are in FY 2012-13 dollars. The five-year financial forecast, however, makes assumptions for escalation to account for the future cost of construction.

Strategic Direction

Criteria

In 2011, the Bureau updated its Strategic Plan, incorporating an increased emphasis on asset management principles. The CIP development strategy is built on the Bureau's strategic plan, input from the 2006 Citizen Task Group, updates to the systems plan, and the regulatory framework. The CIP is shaped by the strategic directives and further shaped by the regulatory environment and stresses the need for comprehensive, multi-objective solutions and reflects the objectives of River Renaissance, the Comprehensive Plan, and the Portland Watershed Management Plan.

Council Goals and Priorities

Over the past few years, citizens and neighborhood committees have been more involved in the planning and development of the Bureau's capital projects. This involvement has included interest in specific construction projects such as the stream restoration work and sewer replacement projects in major arterial streets. Public involvement has also come in the form of policy advisory groups for work elements like the update to the Stormwater Management Manual and the Portland Watershed Management Plan. In addition, there are a number of standing committees including the Stormwater Advisory Committee, the Watershed Science Advisory Committee, the Portland Utility Review Board, and the Columbia Boulevard Wastewater Treatment Plant Citizens Advisory Committee.

As part of the FY 2012-13 budget development process, the Bureau convened a Budget Advisory Committee (BAC). The BAC was briefed on the proposed CIP and its impact on sewer rates. Following extensive discussion, the BAC endorsed the CIP. The CIP development strategy is consistent with the City's goal to improve water quality and the overall well-being of its citizens. It is focused on strategic and comprehensive program delivery and environmental protection and restoration within a prescribed regulatory framework. Priority is given to those projects mandated by federal and state laws and those projects that address City Council goals and objectives.

City Comprehensive Plan

The City's Comprehensive Plan guides future development through a set of goals and policies across a broad range of urban issues. One of those policy areas is public facilities and services which provides guidance on how the City spends money to maintain and construct physical facilities and public services necessary to support the approved land use patterns. The sanitary and stormwater facilities goal and policies state that facilities be provided in an efficient and adequate manner to support the needs of the public while also meeting federal, state, and local clean water requirements. Specific policies address preventative maintenance, control of combined sewer overflows, sewer connection priorities, operation of treatment plants, master planning for stormwater management, and the limit of impervious surfaces. The CIP reflects a commitment to improving the water quality in Portland and to meeting the Comprehensive Plan's sanitary and stormwater facilities policies.

Capital Planning & Budgeting

Capital Planning Process

The CIP is developed utilizing a multi-step process to identify, develop, review, score, and rank projects for funding and scheduling priority. This process insures that the core needs of the sewerage, drainage, and surface water systems and the community served are appropriately funded and scheduled. A bureau-wide stakeholder review team investigates, scores, and ranks all CIP projects in accordance with identified CIP Criteria. CIP weighted criteria, scoring instructions, scheduling guidelines, estimating procedures, and project request forms are used to ensure each project is developed, reviewed, and scored based on detailed and consistent information. A CIP development strategy guides project selection and scheduling. Projects are reviewed by managers in finance, program areas, operations, and engineering to ensure financial resources are expended effectively and appropriately. The CIP management team evaluates all the information from the process, meets with selected Bureau project and program managers to refine cost and schedule data, and submits a recommendation to the Bureau Director. The Bureau Director then reviews the findings and approves the CIP.

Financial Plan Overview

The most recent five-year financial forecast presents the bureau's revenue and expenditure plan for the operation, maintenance, expansion, and reconstruction of the City's sanitary sewer and stormwater systems. The operations, maintenance, and capital construction programs represented in the plan must provide for operation of the system in a safe, sound, and efficient manner as well as compliance with all applicable health, safety, and environmental laws, regulatory body rules, regulatory body orders, and court orders. Revenues from rates and other sources must be sufficient to fund the necessary operation and capital programs. With the Adopted Budget, the Bureau forecasts annual rate increases of 5.4% in FY 2012-13 and 6.5% the following year, 5.2% in the third and fourth years, and 3.75% for the fifth year. These increases are due to growth in annual debt service costs resulting from the CIP, partially offset by transfers from the Rate Stabilization Fund, and increases in non-rate revenues. All CIP expenditures in the financial forecast include an estimate for inflation.

Asset Management and Replacement Plans

In the March 2012 Citywide Assets Report, BES reported an annual funding gap of \$23.3 million. This gap includes rehabilitation and capacity needs in four major systems: combined sewers, sanitary only sewers, stormwater conveyance and water quality facilities, and sewage treatment. The estimated gap is based on information from different sources including:

- The difference between the amount of needed pipe rehabilitation identified in the Combined and Sanitary Sewer Elements of the System Plan and the amount included in the financial plan.
- The capacity projects in the combined system with positive benefit/cost ratios not included in the financial plan as identified in the System Plan.
- For stormwater and treatment, the estimated funding gap is based on the difference between the replacement value of assets in very poor condition and the amount of funding in the financial plan for the rehabilitation of those assets.

Capital Programs and Projects

Program Description

The Capital Improvement Program is divided into five program areas: Combined Sewer Overflow, Maintenance and Reliability, Sewage Treatment Systems, Surface Water Management, and Systems Development.

Combined Sewer Overflow

Approximately 60% of Portland's population is served by a combined sewer system which carries both domestic sewage and stormwater runoff. With significant rainfall, historically, stormwater runoff has exceeded the carrying capacity of the combined sewers, causing overflows through outfalls to both the Willamette River and the Columbia Slough. With the completion of the 2011 ASFO requirements, overflows to the Columbia Slough are reduced by 99.6% and to the Willamette River by 94%. Only a few minor CSO related projects remain to be completed: the Portsmouth Odor Control Facility, adjustments to automated control systems, and a land use requirement to restore the field office site.

Maintenance and Reliability

Projects in this program area address major maintenance requirements of the sewerage collection system including collector sewers, trunk sewers, and interceptor sewers. The City's sewerage collection and transportation system includes approximately 2,470 miles of sewer line ranging in diameter from four inches to 14 feet. Much of the collection system pipe in the City's older neighborhoods is more than 100 years old. In some areas of the City, recurrent basement flooding is a problem creating health and environmental hazards as well as property damage. This program addresses those problems using a multi-objective approach which includes on-site drainage controls, street inflow controls, and up-sizing undersized public facilities that are causing backup of sewage into basements. Funding in this program area is focused on rehabilitation/reconstruction of the most structurally deficient portions of the collection system.

Sewage Treatment Systems

This program funds projects located at the Columbia Boulevard Wastewater Treatment Plant (CBWTP) and the Tryon Creek Wastewater Treatment Plant (TCWTP) as well as maintenance and repair/rehabilitation of the 97 active pump stations located system-wide. Both treatment plants operate within the framework of the Federal Clean Water Act. Specific requirements for removal of pollutants from wastewater before the treated effluent is discharged into the Columbia or Willamette Rivers are contained in the NPDES permit for each plant. High priority is given to projects that provide operating efficiency, reliability, and longevity of the facilities. Most of these improvements include replacement and reconstruction of aging and unreliable plant or pump station components. Projects that mitigate odor from the CBWTP are also part of this program in accordance with a citizen supported City Council resolution.

Systems Development

In support of the 2040 plan, this programs funds projects that cost effectively and incrementally expand the City's sewer collection system. Work meets multiple watershed objectives in execution of these projects. In addition, the program manages sewer rehabilitation and/or relocation required for major public infrastructure projects managed by others, specifically the extension of streetcar to the eastside and light rail to Milwaukie.

Surface Water Management

The primary objective of this program is to protect the quality of surface and ground waters by addressing watershed health and public safety concerns associated with flooding, stream erosion, and urban pollution. Water quality and flood control projects are located in the Columbia Slough, Fanno Creek, Johnson Creek, Tryon Creek, and along the main stem of the Willamette River. Projects are developed to meet the provisions of the Watershed Management Plan adopted by City Council in 2005. This program is also guided by the ESA Resolution adopted in 1998, the Clean River Plan finalized in 2000, and the River Renaissance Vision adopted in 2001.

The Surface Water Management Program focuses on conditions placed on the City associated with owning and operating 9,000 active Underground Injection Control Systems (UICs). As part of this permit, the City is required to identify any UIC that will not meet conditions of the permit and retrofit or decommission them. Projects proposed under this program include construction of Pollution Reduction Facilities (PRF), sump retrofits, stream restorations, and the installation of surface water filtering systems. By addressing water quality and flooding issues, these projects aim to protect fish, enhance wildlife habitat, and enhance community livability through the "greening" of urban areas.

Funding Sources

Planned CIP outlays total \$523 million (excluding inflation) over the five-year forecast interval FY 2012-13 through FY 2016-17. A brief description of the resources needed to finance this requirement follows:

- Fees, Charges, and Permits. This source of funding includes an estimate of reimbursements for engineering, administration, and construction management services charged to local improvement districts and for permit sewer construction. Also included are anticipated revenues from construction and/or engineering services for projects initiated by other local government agencies such as the PBOT and the Port of Portland.
- ◆ Line and Branch Charges. Charges in lieu of assessment will be used to support CIP outlays. Line and branch charges are received in the form of cash and in the form of proceeds from special assessment bonds issued for property owners who elect to finance their line. branch and SDC charges. Total revenues from these charges are projected to be approximately \$11.2 million over the five-year forecast interval.

- Cash Transfers from the Sewer System Operating Fund. Current Sewer System net income from service fees and charges will also be used to fund CIP outlays. The availability of current income to fund CIP expenditures is the result of meeting debt service coverage requirements on outstanding bonds. For planning purposes, the Bureau maintains coverage ratios of 1.50 on first lien debt, 1.30 on combined first and second lien debt, and an ongoing reserve of ten percent of operating expenses for unforeseen financial needs. After making debt service payments, funds in excess of those required for the ten percent operating reserve are available to fund capital improvements. Cash transfers from the Sewer Operating Fund to the Construction Fund are projected to total \$104.2 million over the five-year forecast interval.
- Bond Proceeds. Based on current planning assumptions, the Bureau's five-year CIP request will require \$640 million (nominal dollars) in additional borrowings over the next five fiscal years. Debt service requirements for future bond sales have been calculated assuming level debt service. Interim short-term financing may be used in lieu of or in combination with, long-term financings. The forecast assumes an average annualized coupon rate of 5.5% for the bonds sold in FY 2012-13, 6.25% for the bonds sold in FY 2014-15, and 6.5% for the bonds sold in FY 2016-17, all with the bureau's planning standard debt service coverage ratios of 1.50 and 1.30, as mentioned previously.

Major Projects

Major CIP projects include the following highlights:

Fanno Basin Improvements

This group of projects will address deficiencies in the Fanno Basin Pump Station Pressure Line system. Remaining work includes the expansion of the existing pump station and improvements to major trunk lines.

Phase 2 Pipe Rehabilitation

This project includes structural rehabilitation of critical combined and sanitary sewers that are at the end of their economic life and have the highest consequence of failure. The pipes have been prioritized based on their business risk exposure so that the pipes with the highest benefit-to-cost ratios are completed first. This dynamic priority list will be updated once a year and the highest priority pipes will proceed to design and construction. The initial list identified 458 small diameter sewers (36 inch or less) and 59 large diameter sewers requiring whole pipe rehabilitation.

Ankeny Pump Station Upgrade

This project will modernize the aging Ankeny Pump Station: replace 4 sewerage pumps and associated systems; add upgraded instrumentation, control, and communication to operate with the Willamette River CSO Control System during storm events; and make exterior improvements to be more compatible with the Waterfront Park.

CBWTP Secondary Process Improvements

Construct upgrades to aeration basins and instrumentation and controls to improve the settling of solids produced in the secondary treatment process to allow the existing secondary clarifiers to better remove solids. Improvements are needed to continue to meet the requirements of the NPDES permit.

Operating and Maintenance Costs

Each project includes estimated Operating and Maintenance (O & M) costs (or savings) to be included in the operating budget once the facility comes on line. The O & M estimates for costs or savings were prepared by the Wastewater Group. The basis for the estimates depended upon the type of expected impact. The four major components for treatment plant O & M are labor, energy, chemicals, and materials. Costs for energy and chemicals are more easily predicted. The equipment projected for installation has design parameters that more clearly dictate the resource demands. If there is a direct labor application which will have changed as a result of a project, that estimate would be accurate. However, labor and material costs are more commonly based on experienced estimates with similar projects and facilities from either the City of Portland or others.

Administration & Support

Description

The Administrative Services program area manages the Bureau of Environmental Services, coordinates the activities of the bureau's five service provider groups, and ensures timely and appropriate response to the public, ratepayers, and regulatory agencies. Coordination includes overseeing the development of the bureau's budget and managing review of programs, projects, and services offered by the bureau.

- Administrative Services works closely with other City bureaus, regulatory
 agencies, the Natural Resource Trustees, and tribal governments on local, state,
 and national environmental issues. The Administrative Services program area
 provides supervision of the following specific service areas:
- Public Information and Community Outreach and Involvement provides public information, communication planning, public involvement, environmental education, and internal communication services required to meet the mandates of several state and federal requirements.
- Environmental Policy is responsible for developing environmental policies, rules and codes, and coordinating that work within the bureau, with other city bureaus, interest groups, and federal, state, and local agencies involved in environmental planning and implementation affecting the City.
- Bureau Support provides operating and administrative services for all bureau programs.
- Employee Development includes identifying training needs and solutions for managers and employees, coordinating internal and external education and training, and maintaining the bureau's database of employee training and development activities.
- Finance includes budget development, accounting, financial planning and forecasting, debt management, rate development, grants management, project tracking and year-end financial reporting, wholesale service contract development and administration, management of the Clean River Rewards stormwater discount program and administration of the Party Sewer Conversion program.
- Information Management activities include administering the bureau's data management software and software needs.

Goals

Public Information and Community Outreach and Involvement support the City goal to protect and enhance the natural and built environment by communicating the importance of these goals to City residents and ratepayers through public information, education, and involvement in bureau programs and projects.

Environmental Policy provides indirect support to the city goal of protecting the natural and built environment by working with legislation and regulations that protect the environment.

Bureau Support, Employee Development, and Finance provide indirect support to the City goal of protecting the natural and built environment by performing necessary business processes, helping to enhance employee skills, and securing necessary financing for bureau operating programs and capital construction. Information Management supports the City goal of protecting the natural and built environment by developing and maintaining the data to support the bureau's asset management efforts.

Performance

Communication performance measures focus on an increased community awareness of BES programs and services, engaging citizens in the decision making processes for bureau projects and programs that impact the community, and providing clean river education opportunities for grades K-12.

The bureau's debt service coverage ratio for all revenue bonds was 1.32 for FY 2010-11 and is 1.30 for FY 2011-12. The goal is to maintain the financial planning standard of 1.30 over the coming five years. The bureau's current bond rating is Aa3/ AA, a strong rating for sewer revenue credit. The goal is to maintain this rating.

The bureau's accident/injury incident rate (recordable incidents per 100 workers) is 3.2 for FY 2010-11, down from 3.36 for the previous year. The goal for FY 2011-12 is to keep reportable incidents per 100 employees at or below 4.0.

Changes to Services and Activities

The Environmental Policy group will eliminate a Principal Financial Analyst (\$139,932) due to retirement.

The Finance group will eliminate one-year consultant funding (\$21,000) for rate approval process, remove (\$35,615) contribution for the COPPEA Professional Development Fund for one year, eliminate consultant support (\$23,315) for auditing bureau contracts, hold vacant an Accountant I position (\$59,430) for one year and eliminate a Senior Administrative Specialist (\$51,540) at mid-year, a position that is on loan for community outreach purposes related to the Fats, Oils and Greases program. There are no service delivery impacts resulting with these reductions.

The Bureau Support group will reduce maintenance of grounds at the Water Pollution Control Lab (WPCL) and will implement changes in scheduled services from Parks (\$27,398) and reduce WPCL facility operations and maintenance from centralized Facilities Services (\$16,800). Funding is eliminated for a treatment plant forklift (\$20,938) and for plant security services (\$62,500). In additional to the specific reductions above, pass-through savings from centralized services from the Office of Management totaling \$387,803 were offset by \$73,024 of additional pass-through charges for procurement activities. There are no service delivery impacts resulting with these reductions.

In additional to the specific program cuts above, there was a one-time elimination of merit increases for non-represented personnel that saved \$33,906.

The assets and maintenance responsibilities for the Portland Loos, which will cost \$119,000, has transferred from the Water Bureau effective July 1, 2012, and has been included in this budget program, but managed by the Wastewater Treatment Group. Additional internal bureau reductions were made to absorb the extra cost.

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FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	76.95	76.80	68.50	67.50	67.00
Expenditures					
Administration	1,005,169	1,054,487	1,296,801	1,222,537	1,222,537
Administration & Support	22,351	53,237	0	0	0
Bureau Support	7,599,579	6,700,955	8,172,305	8,143,211	8,233,727
Communications	919,814	906,446	927,383	908,020	908,020
Employee Development	516,171	441,183	86,867	77,720	77,720
Facilities	90	0	0	0	0
Finance	4,621,052	4,930,933	7,004,880	20,364,280	20,837,740
Information Management	5,525,162	6,956,057	5,033,578	5,204,780	5,204,780
Planning	0	155	0	0	0
Total Expenditures	20,209,388	21,043,453	22,521,814	35,920,548	36,484,524
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Maintain the bureau's first lien debt service coverage ratio at 1.5 or greater	1.71	1.97	1.95	1.95	1.95
Maintain bureau's combined 1st & 2nd lien debt service coverage ratio at 1.3 or greater	1.30	1.31	1.30	1.31	1.31
Efficiency					
Time loss hours (due to injuries)	3.36	3.20	4.00	4.00	4.00
Workload					
No. of students provided with bureau education programs	15,759	16,121	11,500	12,500	12,500

Engineering

Description

Engineering Services serves the community by managing the planning, design, and construction of public improvements necessary to protect public health and watersheds. Engineering Services provides analyses, design, construction management, technical standards, documentation of best management practices, protection and enhancement of the system, development review and permitting, CIP program and budget management, and implementation of programs to protect infrastructure.

- Program Management & Controls develops the bureau's annual capital budget and five-year capital improvement plan, monitors the budget and program, and provides support functions for program delivery.
- Asset Systems Management provides short and long-term engineering analyses and planning for combined, sanitary, and stormwater facilities and watersheds using an asset management framework. It is responsible for developing and leading improvement to the bureau's asset management program and manages the CSO program to ensure the requirements of the Amended Stipulation and Final Order are met in a timely, cost effective, and functional manner.
- Design Services provides project management and engineering design services, and is responsible for ensuring each assigned project accomplishes its intended purpose on schedule, within budget, at best value, and in a manner consistent with City and bureau missions and values.
- Watershed Revegetation reforests city natural areas and adjacent lands, plants and maintains City greenstreets and stormwater management facilities, and plants street trees to improve the urban forest canopy and enhance the functional ability of urban watersheds.
- Construction Services provides construction management and inspection services for bureau projects, development projects and projects managed by other City bureaus for assets that become part of the BES infrastructure. This program also provides materials testing, inspection, and geotechnical services for both bureau projects and projects managed by other City bureaus.
- Systems Development assists developers and other customers and supports
 City development goals by reviewing and approving plans, issuing permits
 and inspecting private stormwater facilities. This division also has primary
 responsibility to develop and revise the City's Stormwater Manual and to
 implement policies that protect water resources and stream integrity.
- Administrative/Stormwater Retrofit Services manages group operations, operating budget, personnel, and contract services, and provides support to all group programs. This program also partners with private property owners to increase on-site stormwater management at targeted locations in support of distinct bureau priorities.

Goals

Engineering Services supports the City goal of protecting and enhancing the natural and built environment by preserving, protecting, and enhancing infrastructure. Engineering Services manages wastewater and stormwater assets to preserve and enhance the value of the community's investment; aggressively controls sewer overflows and basement flooding; explores and evaluates innovative technologies and solutions; and integrates natural system concepts into design, construction, and maintenance of systems that retain or improve the current service level.

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Performance

An estimated 96% of combined sewer overflow volumes have been diverted from the rivers and receive treatment as a result of completing the 20-year CSO control program in late Fall 2011. Construction management costs are forecasted to be 12% of total construction costs. More than 99% of pipe identified as highest priority for repair or replacement is incorporated into funded CIP or operating projects.

Changes to Services and Activities

Engineering Services budget will increase by \$325,000 reflecting planned, current service level adjustments to provide for the updates of the Tryon Creek Wastewater Facilities Plan (\$250,000); to include work requested by Lake Oswego, offset by reimbursement from Lake Oswego; and the Stormwater Management Manual (\$75,000) to meet commitments in our MS4 permit and improve facility sizing calculator.

Engineering Services is eliminating funding for legal expenses (\$35,000) that were associated with the possibility of an EPA consent order and eliminating 25% of training and travel (\$37,500) for 180 employees of Engineering Services. Other city budget decisions resulted in pass-through savings from the Office of Management totaling \$11,894.

Four and one-half vacant FTE positions were eliminated for a savings of \$456,920: a Chief Engineer (\$138,342), a part-time Engineering Technician II (\$40,560), a CAD Technician II (\$74,844), a Senior Civil Engineering Associate (\$98,466); and a Capital Projects Manager I (\$104,708). Additionally, there was a one-time elimination of merit increases for non-represented personnel that saved \$28,861. There are no service delivery impacts resulting with these reductions.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	176.28	182.70	195.88	190.69	191.69
Expenditures					
Asset Systems Management	175,272,688	176,293,639	3,539,420	98,181,904	98,178,021
Capital Program Mgmt & Controls	16,308,447	33,283,452	111,924,638	754,618	754,618
Construction Services	1,402,022	1,322,987	1,032,425	874,053	925,593
Design	1,631,318	1,813,755	1,450,326	1,433,833	1,500,600
Downspout Disconnection	580,452	426,758	494,404	405,716	416,073
Engineering	942,155	924,376	1,643,386	1,391,653	1,366,653
Materials Test Lab	758,026	474,863	995,634	1,453,549	1,453,549
Stormwater Retrofit	210,605	473,193	357,497	430,308	430,308
Systems Development	3,204,838	3,989,728	2,517,563	2,526,710	2,547,044
Total Expenditures	200,310,552	219,002,751	123,955,293	107,452,344	107,572,459
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Percent of pipe identified as highest priority for repair or replacement incorporated into funded CIP or Op. proj.	99%	43%	99%	99%	99%
Efficiency					
Construction management costs as a percentage of total construction costs	10%	7%	12%	12%	12%

Healthy Working Rivers

Description

Healthy Working Rivers (HWR) promotes the integration of environmental restoration, economic development, and community involvement for the Portland segments of the Willamette and Columbia Rivers. HWR facilitates river-related projects contributing to City and regional economic prosperity and implements habitat improvement projects to restore and protect riparian ecological functions. HWR coordinates implementation of river-related projects restoring and protecting ecological functions, identifies and selects pilot restoration projects, and facilitates river projects contributing to City and regional economic prosperity.

Goals

HWR's activities support efforts to enhance watershed health with a focus on the City's two main stem rivers. The office supports the City's goals to promote economic development by redeveloping Brownfield sites and connecting the community to the river to build support for improvements to watershed health.

Performance

HWR continues to provide support for restoration projects in the industrial harbor to enhance ecological values and promote economic redevelopment. The group supports implementation of a compensatory mitigation bank to support watershed restoration efforts; reviews river-related plans and programs to ensure that watershed health, economic development, and community involvement goals are being met. HWR engages other bureaus and stakeholders in discussions related to on-river recreational needs, public access and environmental protection goals and builds partnerships to support the City's watershed health efforts.

Changes to Services and Activities

Healthy Working Rivers will reduce outside consultant assistance (\$35,000) and eliminate a vacant Office Support Specialist III position (\$75,564). There are no service delivery impacts resulting with these reductions. Additionally, there was a one-time elimination of merit increases for non-represented personnel that saved \$3,930.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	4.00	5.00	5.00	5.00	4.00
Expenditures					
Healthy Working Rivers	393,512	746,971	800,726	698,019	622,455
Total Expenditures	393,512	746,971	800,726	698,019	622,455

Pollution Prevention

Description

Pollution Prevention Services includes three programs: Source Control, Environmental Investigations, and Environmental Compliance. This service area also includes the Brownfield Program.

- Source Control provides environmental oversight and technical services to industrial and commercial customers to control or eliminate harmful or toxic pollutants to the City's sewer systems. This environmental oversight supports compliance with various permits held by the bureau, including the NPDES permits for both the wastewater and stormwater systems.
- Environmental Investigations provides wastewater, stormwater, surface water, groundwater, industrial wastewater, gases, soils and sediment sampling and monitoring services; a full-service environmental laboratory; and environmental project management including consultation, data analysis, and reporting for the bureau, other City bureaus, and outside agencies.
- Environmental Compliance manages the bureau's regulatory enforcement process which includes industrial pre-treatment, stormwater, and other environmental regulations under the bureau's authority. This service area also ensures bureau compliance with its state and federal regulatory obligations including permits governing wastewater collection and treatment, influences environmental policy and regulations developed by other entities; and manages the City's stormwater and groundwater permits under the Clean Water Act and the Safe Drinking Water Act.
- Brownfield Program involves clean-up and redevelopment activities through use of federal Brownfield grants, matching funds from the City and other public agencies, and investment by private sector partners. The focus of the program is to return previously contaminated property to productive economic and community use through partnership with neighborhoods and businesses.

Goals

Pollution Prevention Services supports the City goal of protecting and enhancing the natural and built environment by increasing innovative pollution prevention strategies. Pollution Prevention Services provides technical assistance to City staff and to citizens to help others prevent pollution through effective permit management, best management practices and education, and partners with customers to prevent or control pollution at the source.

Performance

In FY 2011-12 it is expected that 99% of industrial enforcement tests be in full compliance, which is the same level of performance as FY 2010-11. The goal for FY 2012-13 is to work with customers to maintain this level of performance.

Site investigations and remediation will require an average expenditure of \$13,000 per site in FY 2012-13. This is more than double the figure for FY 2010-11. The methodology used to calculate the project costs was modified to analyze projects that represent the types of projects the section manages, for example green street projects, property acquisitions, restorations, dredge projects, and pipe projects. These projects were analyzed to obtain personnel and other costs charged to the project from SAP, work orders, and invoices. The average is much larger than in past years, but the size of the project has increased. Total costs per project ranges from around \$3,000 to \$100,000, with the rounded average of \$13,000.

The Water Pollution Control Laboratory estimates it will perform 46,000 lab analyses in FY 2012-13. This figure is approximately the same as the actual number of testing performed during FY 2010-11. In FY 2010-11 46,048 tests were performed which was a significant increase from the previous years. The bureau is projecting approximately the same results because of a decrease in the types of tests required for the UIC Program with an increase in the number of tests coming from outside agencies.

Changes to Services and Activities

Pollution Prevention Services budget will increase by \$181,000 reflecting planned current service level adjustments to provide for replacements of required lab equipment. Reductions will occur within Pollution Prevention Services and include reducing office support, travel, and outside laboratory services (\$100,150); reducing maintenance inspection program for privately owned stormwater facilities (\$10,000); eliminating agreement with DEQ for Underground Injection Control permits as this is being done in-house (\$19,000); holding vacant an Environmental Program Manager for one year (\$115,356); and eliminating a vacant Engineering Technician II (\$74,844). There was a one-time elimination of merit increases for non-represented personnel that saved \$8,731. Other city budget decisions resulted in pass-through savings from centralized services from the Office of Management totaling \$11,382.

Effective July 1, 2013, the bureau will assume the responsibility of the Portland Loos at an additional cost of \$119,000. The cost will be absorbed by \$27,400 of internal cuts (\$20,000 from minor equipment and \$7,400 from the budget for intern support).

There are no service delivery impacts resulting with these reductions.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	81.60	80.00	85.17	84.50	84.50
Expenditures					
Env. Monitoring & Investigation	1,619,184	1,817,397	2,350,267	1,930,106	1,910,106
Environmental Compliance	1,695,327	2,378,343	4,332,355	3,515,962	3,534,962
Pollution Prevention	198,552	224,287	354,475	389,295	338,479
Source Control	2,827,185	2,839,050	3,607,239	3,425,463	3,402,355
Total Expenditures	6,340,249	7,259,077	10,644,336	9,260,826	9,185,902
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Percent of industrial enforcement tests in full compliance	99.0%	99.0%	99.0%	99.0%	99.0%
Efficiency					
Average resources spent in site investigations and cleanup, per site investigated or remediated	\$3,652	\$6,132	\$4,435	\$13,000	\$13,000
Workload					
VVOIRIOAU					

Portland Harbor

Description

The Portland Harbor Superfund program is managed through the Office of the Director and is funded within the Environmental Remediation Fund. The existence of the bureau's Superfund program is recognition by City Council that a strong City presence in the Superfund cleanup is critical. The Administrator of the Portland Harbor Superfund Program reports to the bureau director. The Administrator represents the City at a management level in the Lower Willamette Group (LWG), and with the tribal governments, and federal and state agencies.

The City is a member of the LWG, composed of private and public entities who have signed a formal Consent Order agreement with the Environmental Protection Agency (EPA) to fund a contaminated sediment investigation. The City has a dual role as a party potentially responsible for cleaning up contaminated sediments and as a government with strong stewardship obligations and commitments. The City is also assessing the potential of the City's stormwater conveyance system to carry contamination from upland sources to the river sediments.

Program staff work with Natural Resource Trustee agencies and tribal governments on natural resource restoration efforts, and have developed government-to-government relationships with several tribal governments involved in the project. Program staff are working with other City staff, spearheading a Lower Willamette Ecosystem Restoration Project with the Army Corps of Engineers under the authority of the federal Water Resources Development Act (WRDA). This work is closely coordinated with the Office of Healthy Working Rivers, Bureau of Planning and Sustainability, and the BES watershed management staff.

The City is continuing to pursue and maintain a strong, direct government-to-government role with EPA, DEQ, and the six tribal governments on all of these issues in addition to its work as a member of the LWG.

Goals

The Superfund program supports the City goal of protecting and enhancing the natural and built environment by actively participating in the Superfund cleanup. This involvement will also ultimately promote economic vitality and opportunities as Superfund cleanup issues are resolved. The City is helping to fund and coordinate the investigation and potential cleanup activities to ensure that the Lower Willamette River is fully evaluated in a timely and cost effective manner, the Lower Willamette is restored to protect human health and the environment, and liability is fairly allocated among all responsible parties.

Changes to Services and Activities

Reductions within Portland Harbor include eliminating a vacant Portland Harbor Superfund Administrator position (\$119,046), a reduction in contractor assistance for outfall investigation (\$125,000), CERCLA technical assistance (\$200,000), elimination of an agreement with the Tribal Institute at Portland State University (\$35,000) and reduction of payments to the LWG (\$900,000), reflecting a planned decrease in contributions for studies in anticipation of a Record of Decision. There is also a reduction of (\$190,528) in internal services for field operations and

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laboratory services, offset by additional services from the City Attorney's Office of \$137,660. There was a one-time elimination of merit increases for non-represented personnel that saved \$1,028. Other City budget decisions resulted in pass-through savings from centralized services from the Office of Management totaling \$704. There are no service delivery impacts resulting with these reductions.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	6.00	6.00	5.00	3.00	4.00
Expenditures					
CERCLA (Superfund)	3,141	16,195	1,550,000	650,000	650,000
Portland Harbor	5,580,862	5,421,005	3,690,526	3,154,781	3,230,345
Total Expenditures	5,584,004	5,437,200	5,240,526	3,804,781	3,880,345

Wastewater

Description

Wastewater Services protects public health, water quality, and the environment by cost-effectively operating and maintaining wastewater and stormwater collection, pumping and treatment facilities and managing related programs in a manner that assures compliance with all applicable permits, regulations, and contracts. In addition to two wastewater treatment plants, the system includes 97 active pumping stations, 2,328 miles of pipeline, 62,706 manholes, 8,548 stormwater sumps (UICs), 172,216 laterals, 758,117 lineal feet of ditches, 55,380 stormwater inlets and catch basins, 347 trash racks, 155 manufactured stormwater facilities, 1,375 "green" stormwater facilities, and 242 stormwater detention facilities. Additional services provided by Wastewater include residuals management, odor control, biosolids reuse, methane reuse, vector control, and emergency repairs.

Inspection, cleaning, maintenance, and repair for most sewer and stormwater facilities are provided through an interagency agreement with the Portland Bureau of Transportation Maintenance Division (PBOT). PBOT also provides collection system customer response and utility locating services.

This program also manages services that support the operation and maintenance of wastewater infrastructure. This includes administrative services, work and asset management system administration, facilities management, and inventory management and acquisition.

Goals

Wastewater Services support the City goal of protecting and enhancing the natural and built environment by meeting regulatory requirements.

Performance

The treatment process at both treatment plants continues to achieve removal of greater than 96% of total suspended solids and biochemical oxygen demand from the wastewater, compared with the 85% regulatory performance required in the NPDES permits. Wastewater Services plans to sustain this level of performance in FY 2012-13.

Collection and treatment facilities delivered and processed 30.4 billion gallons of wastewater during FY 2010-11. Factors affecting total volume include the degree of water conservation by customers, how much stormwater and groundwater are kept out of the system, the volume of captured CSO now in place, and rainfall in the service area. High rainfall during FY 2010-11 drove the total flow higher than originally anticipated. It is expected that wastewater conveyed and treated will total approximately 28.4 billion gallons in FY 2011-12, and, with a full year of East Side CSO flow captured and treated during FY 2012-13, total flow during FY 2012-13 is expected to increase to 30.4 billion gallons.

The operating and maintenance cost of wastewater treatment was approximately \$509 per million gallons treated for FY 2010-11, driven down by the high rainfall. This is projected to increase in FY 2011-12 to about \$555 per million gallons treated and then increase slightly again for FY 2012-13.

In an effort to continue to preserve system capacity and prevent sanitary sewer overflows in the collection system, 1.35 million feet of sewers were inspected and approximately the same feet cleaned, totaling 2.7 million feet inspected and cleaned in FY 2010-11. This is projected to remain approximately the same in FY 2011-12.

Changes to Services and Activities

Wastewater Services budget increased by \$585,000 reflecting planned, current service level adjustments for increases in utilities and materials costs, as FY 2012-13 will be the first full year operating and maintaining all the new facilities associated with the CSO system. This includes \$250,000 for collections system utilities; \$80,000 for treatment plant utilities, \$120,000 for chemically enhanced primary treatment, \$50,000 for chemicals at Swan Island CSO Pump Station and \$50,000 for hypochlorite prices increases that will take effect October 2012.

Additionally, CBWTP was issued a new NPDES permit, effective July 1, 2011. The permit includes several new requirements for monitoring, inspections, procedures and studies. These new regulatory requirements increase the bureau's work and supporting budget in several areas including \$120,000 for outfall inspections, \$8,200 for new permit procedures, and \$129,000 for required studies.

Costs to sustain current service levels include \$78,316 for biosolids transportation, \$29,575 for polymer, \$43,438 for services to maintain co-generation engines, \$91,000 for replacement of existing inspection equipment, \$220,000 for replacement of existing vehicles, \$67,000 for replacement of an existing engine lath, the refunding of \$25,000 for odor control chemicals, and \$50,000 for utilities at Fanno Basin Pump Station with this facility back on-line.

Costs for additional services include \$100,000 for adequate operation and maintenance of stormwater facilities, \$190,000 for biosolids land application to return service levels to previous years' and mitigate accumulating solids in the lagoon, and \$32,000 for services to inspect medium voltage variable frequency drives.

The increases are offset by reductions of \$863,000 for fleet replacements assigned to PBOT for the collection system interagency and (\$75,000) for security improvements that will be implemented by the end of FY 2012-13.

Wastewater Services' FY 2012-13 budget reflects additional reductions in overtime (\$50,000) by budgeting for historical trends, reduced operating budget funding for emergency repairs (\$250,000) as they are more appropriately recorded within the CIP, hold vacant an Electrician/Instrument Technician (\$93,972) for one year, and eliminate a vacant Engineering Technician II (\$74,844). There was a one-time elimination of merit increases for non-represented personnel that saved \$6,935. Other city budget decisions resulted in pass-through savings from centralized services from the Office of Management totaling \$68,228. There are no service delivery impacts resulting with these reductions.

Effective July 1, 2013, the bureau will assume the responsibility of the Portland Loos, at an additional cost of \$119,000 of which this budget program contributed \$7,400 of internal cuts (intern support) to absorb the added expense. Improved operational activities with regard to sale of methane gas to Malarkey Roofing resulted in an additional \$60,000 of revenue. The Portland Loos has been included in the Administration and Support budget program, although managed by the Wastewater Treatment Group.

Public Utilities Service Area

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	135.67	137.00	128.95	128.02	128.02
Expenditures					
Collection System	27,183,599	25,298,363	34,821,609	31,603,509	31,596,109
Maintenance	1,641	2,061	0	0	0
Operations	0	1,657	0	(4,235)	0
Treatment	15,762,695	15,446,180	16,628,876	17,727,578	17,723,343
Wastewater	788,599	774,603	943,151	849,223	849,223
Total Expenditures	43,736,535	41,522,864	52,393,636	50,176,075	50,168,675
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Percent of biochemical oxygen demand (BOD) removed	96.5%	96.5%	85.0%	85.0%	85.0%
Efficiency					
Cost to operate and maintain the treatment plants reflected in costs per million gallons per day (mgd)	\$573	\$509	\$555	\$565	\$565
Workload					
Wastewater processed in million gallons per day	27,566	30,449	28,450	30,400	30,400

Watershed

Description

The Watershed Services is comprised of three Programs: Watershed Management, Sustainable Stormwater, and Endangered Species Act (Science Fish and Wildlife). The Group works with other City bureaus, local, regional, state and federal agencies and the Portland community to protect and restore our rivers and watersheds. Watershed Services plans, implements, and monitors watershed-based projects to meet regulatory mandates and maintain public health and safety. The group also tests, promotes, and implements sustainable site development practices and projects, and interprets and implements state and federal fish and wildlife laws, regulations, and policies.

- ◆ The Watershed Management Program leads development and implementation of the Portland Watershed Management Plan (PWMP), which establishes comprehensive approaches and priority projects to protect and restore Portland's urban waterways. The FY 2012-13 is the seventh year of integrated watershed management under the PWMP. The PWMP is designed to integrate the City's response to regulatory requirements of the Clean Water Act, the Safe Drinking Water Act, the ESA, and other laws and programs in an approach based in ecological principles and watershed conditions, rather than relying strictly on regulatory requirements to define city actions. FY 2012-13 will be the fourth year implementing the Grey to Green Initiative, an acceleration of project activities under the PWMP.
- The Sustainable Stormwater Management Program provides policy and technical assistance, education and outreach, and project design and implementation to demonstrate and create incentives for sustainable stormwater projects. Sustainable stormwater facilities cost-effectively reduce the volume of stormwater entering the combined system, mitigate impacts to sensitive habitats, and reduce stormwater pollutants. These projects also help the City meet resource protection and environmental compliance goals and regulations.
- ◆ The Endangered Species Act (Science, Fish, and Wildlife) Program provides the scientific foundation needed to respond to, and implement, the City's environmental mandates especially the ESA and to integrate those mandates fully into the watershed context. The Program provides vital services and ecological expertise for implementation of a variety of city projects and programs in multiple bureaus. ESA also is responsible for managing a streamlined process for in-water construction permits for all City bureaus and for coordination with a variety of regional-scale watershed management programs.

Goals

Watershed Services supports the City goal of protecting and enhancing the natural and built environment by improving and protecting watershed health within the urban community. Watershed Services demonstrates and promotes the advantages of watershed health protection when developing and implementing City programs and projects. Watershed Services responds to regulatory and environmental compliance using a natural systems approach (green infrastructure) to meet the

Public Utilities Service Area

bureau's objectives, minimize costs, and provide maximum benefits. Watershed Services is working closely with the Bureau of Planning and Sustainability in the planning and implementation of the Climate Action Plan and the Portland Plan. Watershed Services also is investing significant support of asset management work within BES and integration of green infrastructure into system development work.

Performance

Watershed Services and the Watershed Revegetation Program restored 26,225 feet of stream bank during FY 2010-11, bringing the bureau's cumulative total restored to over 376,000 feet. The bureau goal for FY 2011-12 and FY 2012-13 is to restore an additional 25,000 feet each year. The annual amount of stream bank restoration reported each year varies based on timing of project completion and the varying size and nature of projects.

Also in FY 2010-11, 9,965 people contributed thousands of volunteer hours in projects organized or coordinated by the Community Watershed Stewardship Program and other watershed stewardship programs. For FY 2011-12 and FY 2012-13, the number of participants is expected to remain fairly constant, with some variances in participation levels due to the type of volunteer projects that are selected for funding.

Watershed Services and the Watershed Revegetation Program planted 48,797 trees in FY 2010-11. The bulk of those were seedlings planted as part of natural area revegetation projects, while 7,348 were new (larger) street and yard trees planted through the Grey to Green initiative. The FY 2011-12 goal for natural area trees was 35,000, and the goal for new Grey to Green street and yard trees was 7,700. The target for FY 2012-13 is an additional 41,400 trees planted between the two programs.

The Grey to Green initiative accomplishments from 2008 to June 30, 2011 also include: over 281,000 square feet of ecoroofs constructed (6.47 acres), over 2,700 new acres treated for invasive plant control in parks and through the Early Detection Rapid Response program, 546 green street facilities constructed, and 261 acres of natural area purchased to protect water quality and restore watershed function. Of eight culverts targeted for replacement in Crystal Springs Creek, one is complete and five others are designed and slated for construction in FY 2012-13 and FY 2013-14, with the majority of the funding coming from the Army Corps of Engineers and other partners.

Changes to Services and Activities

Watershed Services budget increased by \$300,012 reflecting a planned, current service level adjustment to ecoroof activities and \$55,000 for the continuation of private property retrofits to address sewer backups.

Watershed Services reflects the reduced support for private property stormwater retrofits (\$75,000), the elimination of part time positions: a Senior Administrative Specialist (\$34,776) and a Senior Management Analyst (\$45,180), and the elimination of Parks pass-through funding to Multnomah County (\$69,000). Additionally, the Grey to Green program is deferring funding for the ecoroof grant program to reflect slower than forecast expenditures due to current economic conditions (\$637,512). There was a one-time elimination of merit increases for non-represented personnel that saved \$15,229. Other city budget decisions resulted in pass-through savings from centralized services from the Office of Management totaling \$8,776. There are no service delivery impacts resulting with these reductions.

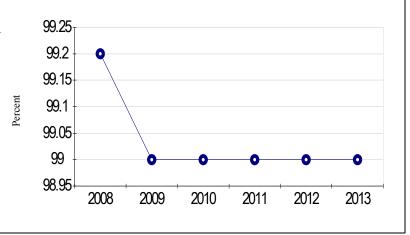
Effective July 1, 2013, the bureau will assume the responsibility of the Portland Loos, at an additional cost of \$119,000, of which this budget program contributed \$7,400 of internal cuts (intern support) to absorb the added expense.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	60.25	61.60	54.53	52.57	53.57
Expenditures					
Environmental Policy	1,953,628	509,969	0	0	0
Science, Fish & Wildlife	891,211	1,311,130	1,279,466	1,189,510	1,189,510
Sustainable Stormwater	2,007,713	1,811,710	2,712,295	2,295,679	2,295,679
Watershed	294,775	355,509	384,009	504,721	534,157
Watershed Management	4,308,031	4,764,442	6,683,949	6,499,887	6,984,494
Watershed Revegetation	3,043,325	3,815,874	906,175	1,659,097	1,322,169
Total Expenditures	12,498,683	12,568,634	11,965,894	12,148,894	12,326,009
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Workload					
Number of individual participants in projects catalyzed or hosted by the Stewardship Program	12,346	9,965	10,000	9,500	9,500
Number of trees planted	58,370	48,797	56,950	41,400	41,400

Performance Measures

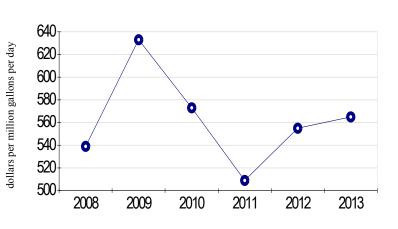
Enforcement Tests

Percent of industrial enforcement tests in full compliance.



Wastewater Processing Cost

Cost to operate and maintain the wastewater treatment plants reflected in costs per million gallons. FY 2008-09 reflects the lowest combined flow rate in the last decade. When flow is low, cost per unit increases.



	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
Resources	1 1 2003-10	1 1 2010-11	1 1 2011-12	1 1 2012-13	1 1 2012-13
External Revenues					
Licenses & Permits	1,042,164	1,103,843	1,230,000	1,155,000	1,155,000
Charges for Services	224,878,011	243,984,954	260,873,837	282,202,746	282,402,628
Intergovernmental	1,793,336	2,774,926	2,966,878	2,385,828	2,385,828
Bond & Note	162,699,982	456,960,581	244,700,000	217,000,000	217,000,000
Miscellaneous	8,291,241	6,456,444	1,688,315	1,187,500	1,247,500
Total External Revenues	398,704,734	711,280,748	511,459,030	503,931,074	504,190,956
Internal Revenues	,	, ,		,	,,
Fund Transfers - Revenue	327,847,971	409,330,974	295,093,823	276,760,000	276,840,366
Interagency Revenue	1,595,545	2,461,417	3,347,107	1,952,597	1,952,597
Total Internal Revenues	329,443,515	411,792,391	298,440,930	278,712,597	278,792,963
Beginning Fund Balance	181,663,261	131,439,939	188,345,500	111,957,500	111,957,500
Total Resources	\$909,811,511	\$1,254,513,078	\$998,245,460	\$894,601,171	\$894,941,419
Requirements					
Bureau Expenditures					
Personnel Services	52,487,649	54,040,521	58,425,996	57,666,694	57,851,989
External Materials and Services	58,894,732	54,584,071	48,694,437	50,341,034	50,959,034
Internal Materials and Services	38,211,915	38,860,389	42,658,343	41,077,948	41,061,148
Capital Outlay	139,496,239	160,099,385	77,743,449	70,375,811	70,368,198
Total Bureau Expenditures	289,090,535	307,584,366	227,522,225	219,461,487	220,240,369
Fund Expenditures					
Debt Service	145,309,583	310,878,334	150,842,986	151,786,222	151,786,222
Contingency	0	0	256,802,227	191,289,346	190,850,712
Fund Transfers - Expense	343,971,454	427,679,811	314,101,981	283,987,250	283,987,250
Debt Service Reserves	0	0	46,070,500	45,070,500	45,070,500
Total Fund Expenditures	489,281,037	738,558,145	767,817,694	672,133,318	671,694,684
Ending Fund Balance	131,439,939	208,370,567	2,905,541	3,006,366	3,006,366
Total Requirements	\$909,811,511	\$1,254,513,078	\$998,245,460	\$894,601,171	\$894,941,419
Programs					
Administration & Support	20,209,388	21,043,453	22,521,814	35,920,548	36,484,524
Area Planning	0	3,416	0	0	0
Assessments & Improvements	1,476	0	0	0	0
Engineering	200,310,552	219,002,751	123,955,293	107,452,344	107,572,459
Financial Planning	15,987	0	0	0	0
Healthy Working Rivers	393,512	746,971	800,726	698,019	622,455
Pollution Prevention	6,340,249	7,259,077	10,644,336	9,260,826	9,185,902
Portland Harbor	5,584,004	5,437,200	5,240,526	3,804,781	3,880,345
Recreation	150	0	0	0	0
Wastewater	43,736,535	41,522,864	52,393,636	50,176,075	50,168,675
Watershed	12,498,683	12,568,634	11,965,894	12,148,894	12,326,009

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
Combined Sewer Overflow								
Eastside Combined Sewer Overflow System Startup	0	3,002,000	1,093,000	495,000	0	0	0	1,588,000
Portland Opera Permanent Parking Lot	0	0	277,000	0	0	0	0	277,000
Portsmouth Force Main Odor Control	0	2,800,000	2,034,000	0	0	0	0	2,034,000
Total Combined Sewer Over- flow	0	5,802,000	3,404,000	495,000	0	0	0	3,899,000
Maintenance and Reliability Alder: Ladd's Addition South Reconstruction/GreenStreets	0	0	0	0	0	0	725,000	725,000
Alder: Sunnyside East South Recon Green Streets	0	0	0	0	0	462,000	2,330,000	2,792,000
Alder: Sunnyside North Recon/ Green Street	0	0	0	0	0	1,746,000	4,807,000	6,553,000
Alder: Sunnyside South Recon/ Green Street	0	0	0	0	0	0	1,021,000	1,021,000
Ash Creek Sewer Rehabilitation	0	0	0	700,000	0	0	0	700,000
Beech Essex CP-K	0	0	0	0	0	51,000	279,000	330,000
Beech-Essex CP-J	0	0	0	0	51,000	814,000	5,486,000	6,351,000
Bike Boulevard Green Streets	0	1,300,000	4,260,000	3,606,000	3,573,000	2,000,000	0	13,439,000
Fanno Basin System Improvement	791,615	5,835,000	2,712,000	9,496,000	7,766,000	0	0	19,974,000
Fanno Creek Infiltration and Inflow	0	200,000	1,316,000	616,000	1,310,000	2,520,000	2,025,000	7,787,000
Fanno/Tryon Rehab	0	0	0	0	0	166,000	1,537,000	1,703,000
Hollywood Stormwater & Sewer Solutions	0	0	860,000	1,619,000	1,619,000	2,034,000	2,034,000	8,166,000
Maintenance Capital - Construction	8,689,526	230,000	230,000	230,000	230,000	230,000	240,000	1,160,000
Maintenance Capital - Contract	30,911,265	2,500,000	2,533,000	2,700,000	2,700,000	2,500,000	3,000,000	13,433,000
NE 13th: Piedmont-King Reconstruction	0	0	0	0	930,000	3,336,000	3,099,000	7,365,000
NE 13th: Woodlawn-Piedmont Reconstruction	0	0	0	0	520,000	2,052,000	1,869,000	4,441,000
NWN: BCC Support Project	0	0	500,000	1,000,000	0	0	0	1,500,000
NWN: Far North Nicolai Pipe Replacement	0	0	444,000	1,921,000	1,610,000	0	0	3,975,000
NWN: North Tanner Pipe Construction	0	0	0	0	0	1,488,000	747,000	2,235,000
NWN: Southeast Tanner	0	0	0	0	0	576,000	1,792,000	2,368,000
NWN: Southwest Tanner	0	0	0	0	0	0	472,000	472,000
Oak A Basin Phase 2	0	0	0	0	0	0	500,000	500,000
OAK:SE Oak St Sewer Repair	0	0	800,000	0	0	0	0	800,000
Owner Controlled Insurance Program Phase IV	0	804,000	802,000	802,000	802,000	0	0	2,406,000
Phase 2 Pipe Rehabilitation	0	3,113,000	8,627,000	25,884,000	38,431,000	32,171,000	33,754,000	138,867,000
SE Interceptor Rehabilitation	0	0	699,000	688,000	3,494,000	3,563,000	0	8,444,000

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
Sewer Structural Rehabilitation	249,452	8,041,000	5,659,000	1,413,000	0	0	0	7,072,000
Stark HSS-17	0	0	0	0	0	893,000	1,160,000	2,053,000
Structural Rehab Taggart Outfall 30	0	0	102,000	1,016,000	844,000	8,684,000	4,395,000	15,041,000
Taggart TGA-06	0	0	10,000	141,000	763,000	0	0	914,000
TGD: SE 41st & SE Madison	0	0	524,000	24,000	23,000	0	0	571,000
TGD: SE 41th Reconstruct & Greenstreet	0	0	0	40,000	449,000	472,000	25,000	986,000
TGD: SE 9th Greenstreet	0	0	110,000	348,000	33,000	20,000	0	511,000
TGD: SE Division Stormwater & Pipe Reconstruction	0	0	3,828,000	532,000	119,000	0	0	4,479,000
TGD: SE Hawthorne Green Street and Pipe Replacement	0	0	102,000	1,089,000	1,110,000	22,000	6,000	2,329,000
TGD: SE Powell Green Street and Pipe Reconstruction	0	0	554,000	655,000	3,059,000	3,059,000	79,000	7,406,000
TGD: SE Salmon Green Street and Pipe Reconstruction	0	0	31,000	135,000	537,000	938,000	27,000	1,668,000
TGD: Taggart D Phase 2	0	0	0	0	1,053,000	1,054,000	3,163,000	5,270,000
TGD:SE Clinton-Caruthers System Improvements	0	0	1,650,000	0	0	0	0	1,650,000
Tryon Creek Infiltration and Inflow	0	375,000	300,000	2,825,000	2,270,000	2,120,000	1,015,000	8,530,000
Tryon SS Protection 1A TCWTP to Hwy 43	0	0	136,000	460,000	921,000	0	0	1,517,000
Wheeler WHE-04	0	0	0	725,000	944,000	4,174,000	4,173,000	10,016,000
Willamette Interceptor Upgrade	0	0	0	0	0	168,000	654,000	822,000
Total Maintenance and Reliability	40,641,858	22,398,000	36,789,000	58,665,000	75,161,000	77,313,000	80,414,000	328,342,000
O								
Sewage Treatment Systems	040.000	0.400.000	0 000 000	4 000 000	•	•	•	7 000 000
Ankeny Pump Station Upgrade	218,002	2,162,000	6,000,000	1,000,000	0	0	0	7,000,000
CBWTP Cogeneration	0	320,000	350,000	350,000	3,154,000	1,290,000	0	5,144,000
CBWTP Digester Mixing	0	3,100,000	4,300,000	3,700,000	0	0	0	8,000,000
CBWTP Lagoon Phase 2, Cells 3	0	0	2,373,000	981,000	1,361,000	0	0	4,715,000
CBWTP Lagoon Phase 3 & 4, Cell	0	0	0	1,275,000	3,354,000	1,822,000	521,000	6,972,000
CBWTP Outfall Diffuser	0	0	0	0	0	642,000	1,392,000	2,034,000
CBWTP Secondary Treatment Expansion	0	0	0	0	0	1,821,000	3,019,000	4,840,000
CBWTP Seismic Improvements	0	0	0	0	0	1,669,000	1,538,000	3,207,000
CBWTP Selector Performance Enhancement	0	1,610,000	11,320,000	4,680,000	0	0	0	16,000,000
CBWTP Support Facility	0	0	4,000,000	0	0	0	0	4,000,000
CBWTP Thickened Waste Activated Sludge Piping	0	0	50,000	150,000	400,000	400,000	0	1,000,000
Guilds Lake Pump Station Upgrade	0	2,356,000	2,116,000	0	0	0	0	2,116,000
Pump Station Improvements	25,443,646	2,000,000	2,500,000	3,600,000	3,800,000	4,000,000	4,000,000	17,900,000
Repair, Rehabilitation, and Modification	19,778,780	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
Tryon Creek Wastewater Treatment Plant Improvements	0	263,000	0	216,000	749,000	378,000	860,000	2,203,000
Total Sewage Treatment Systems	45,440,428	13,811,000	35,009,000	17,952,000	14,818,000	14,022,000	13,330,000	95,131,000
Surface Water Management								
CS: Columbia Slough Outfalls Predesign	0	155,000	315,000	154,000	0	0	0	469,000
CS: Mason Flats	0	0	1,020,000	15,000	15,000	0	0	1,050,000
CS: NE 148th Basin Water Quality Facility	121,619	0	130,000	1,708,000	0	0	0	1,838,000
CS: NE 33rd Drive Culvert Phase 2	0	0	1,499,000	145,000	0	0	0	1,644,000
Culvert Replacement Phase 2	0	0	50,000	1,200,000	1,650,000	900,000	0	3,800,000
FT: Barbur Blvd Drainage Retrofit	0	0	0	39,000	39,000	246,000	246,000	570,000
FT: Boones Ferry Culvert	0	0	254,000	231,000	1,184,000	0	0	1,669,000
FT: Fanno BvrtnHills Hwy	0	0	83,000	373,000	584,000	0	0	1,040,000
FT: Fanno Tryon Drainage Shoulder Improvements	0	0	0	0	206,000	1,158,000	1,155,000	2,519,000
FT: Fanno/Tryon Creek Watersheds Land Acquisition	0	0	0	154,000	154,000	154,000	0	462,000
FT: Fanno/Tryon Outfall	0	0	427,000	1,000,000	0	0	0	1,427,000
FT: Fanno/Tryon Stormwater Facilities	0	0	320,000	0	0	0	0	320,000
FT: Fanno/Tryon WQF 2	0	0	34,000	263,000	262,000	69,000	0	628,000
FT: FannoTryon StrmRetro	0	0	76,000	128,000	468,000	468,000	392,000	1,532,000
FT: I5/SW 26 WQF	0	0	0	0	146,000	133,000	1,000,000	1,279,000
FT: Jackson Middle School Creek Daylight	0	0	0	0	162,000	898,000	285,000	1,345,000
FT: Spring Garden Stream	0	0	223,000	0	0	0	0	223,000
FT: SW 45th Ave Culvert	0	0	0	63,000	60,000	467,000	0	590,000
Green Streets/Bikeways	0	1,900,000	1,513,000	0	0	0	0	1,513,000
Grey to Green - Green Street Projects	0	0	75,000	719,000	0	0	0	794,000
Grey to Green Culverts	0	0	527,000	302,000	125,000	0	0	954,000
Grey to Green: Land Acquisition	0	9,136,475	3,000,000	4,000,000	1,500,000	2,000,000	1,000,000	11,500,000
JC: Brunkow	0	0	0	248,000	497,000	23,000	0	768,000
JC: Community Restoration Partnership	0	0	25,000	75,000	300,000	398,000	398,000	1,196,000
JC: Freeway Land Floodplain Restoration	0	0	50,000	800,000	700,000	1,000,000	3,000,000	5,550,000
JC: Hammersmith	0	0	0	0	444,000	875,000	38,000	1,357,000
JC: Johnson Creek Willing Seller Phase 2	0	0	500,000	500,000	500,000	500,000	500,000	2,500,000
JC: Oxbox	0	0	0	234,000	176,000	940,000	0	1,350,000
JC: Springwater Wetland	0	0	340,000	0	0	0	0	340,000
JC: West Lents Flood Mitigation	428,108	0	0	0	293,000	527,000	2,665,000	3,485,000
JC:Luther Road Habitat Restoration	97,021	0	200,000	3,500,000	200,000	0	0	3,900,000

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
JC:S Foster - E Lents Phase 2 Flood Mitigation	0	0	2,000,000	0	0	0	0	2,000,000
Oaks Bottom Culvert Replacement	0	0	10,000	2,054,000	0	0	0	2,064,000
Swan Island Beach Mitigation Bank	0	0	1,100,000	500,000	1,332,000	1,336,000	1,332,000	5,600,000
Underground Injection Control Improvements	156,050	1,605,000	1,056,000	3,223,000	1,448,000	0	0	5,727,000
Watershed Investment	0	1,500,572	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
Total Surface Water Manage- ment	802,798	14,297,047	16,327,000	23,128,000	13,945,000	13,592,000	13,511,000	80,503,000
Systems Development								
Drainage Improvement	2,232,967	29,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Milw Light Rail Ext	0	571,000	226,000	226,000	226,000	42,000	0	720,000
Party Sewers	0	750,000	750,000	2,450,000	2,400,000	1,000,000	1,000,000	7,600,000
PBOT Interagency Reimbursement	7,578,004	350,000	350,000	350,000	350,000	350,000	350,000	1,750,000
Permit Reimbursement	950,027	45,000	45,000	45,000	45,000	45,000	45,000	225,000
Pleasant Valley Strm	0	0	0	0	0	0	567,000	567,000
Public Works Permit Projects	11,194,271	725,000	350,000	400,000	400,000	400,000	400,000	1,950,000
SE Foster & 122nd Sewer Construction	0	0	0	368,000	0	0	0	368,000
Sewer Easements on Existing Sewers	0	0	62,000	50,000	50,000	50,000	50,000	262,000
South Airport Pump Station	0	1,085,000	1,865,000	660,000	0	0	0	2,525,000
Total Systems Development	21,955,269	3,555,000	3,898,000	4,799,000	3,721,000	2,137,000	2,662,000	17,217,000
Total Requirements	108,840,353	59,863,047	95,427,000	105,039,000	107,645,000	107,064,000	109,917,000	525,092,000

		Salary Range			Revised FY 2011-12		Proposed FY 2012-13		Adopted FY 2012-13	
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount	
30000062	Accountant I	38,064	53,123	1.00	38,064	1.00	38,064	1.00	38,064	
30000063	Accountant II	49,754	60,798	4.00	232,032	4.00	234,900	4.00	234,900	
30000064	Accountant III	54,787	66,893	1.00	66,888	1.00	66,888	1.00	66,888	
30000434	Administrative Assistant	45,074	69,451	5.00	317,816	5.00	323,222	5.00	323,222	
30000433	Administrative Specialist, Sr	41,974	64,626	5.00	319,618	3.50	246,388	4.50	288,364	
30000436	Administrative Supervisor I	54,725	72,925	2.00	145,848	2.00	145,848	2.00	145,848	
30000104	Automotive Equip Oper II: Tractor-Trailr	43,347	52,208	1.00	52,212	1.00	52,212	1.00	52,212	
30000671	Biosolids/Reuse Program Manager	69,826	93,829	1.00	89,789	1.00	93,201	1.00	93,201	
30000315	Botanic Spec I-Generalist	51,334	65,520	1.00	59,424	1.00	61,656	1.00	61,656	
30000320	Botanic Spec II-Generalist	54,038	68,931	3.00	173,736	3.00	178,454	3.00	178,454	
30000321	Botanic Spec II-Ntrl Resource Ecologist	54,038	68,931	6.00	404,420	6.00	409,760	6.00	409,760	
30000441	Business Operations Manager	75,109	100,048	3.00	297,701	3.00	300,132	3.00	300,132	
30000442	Business Operations Manager, Sr	93,288	130,291	1.00	130,296	1.00	130,296	1.00	130,296	
30000448	Business Systems Analyst	57,450	76,586	1.00	74,576	1.00	76,584	1.00	76,584	
30000449	Business Systems Analyst, Sr	63,378	84,635	3.00	250,908	3.00	252,658	3.00	252,658	
30000329	CAD Technician II	50,690	64,667	15.00	919,200	14.00	879,520	14.00	879,520	
30000330	CAD Technician III	61,568	78,645	5.00	389,532	5.00	392,313	5.00	392,313	
30000689	Capital Program Mgmt & Controls Manager	86,840	117,686	1.00	103,728	1.00	107,979	1.00	107,979	
30000399	Capital Project Manager I	61,568	78,645	3.00	224,868	2.00	167,899	2.00	155,755	
30000686	Capital Project Manager II	66,602	89,107	2.00	178,224	2.00	178,224	2.00	178,224	
30000700	Communications Engineer	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112	
30000491	Community Outreach & Informtn Assistant	45,074	69,451	2.00	91,222	2.00	94,960	2.00	94,960	
30000492	Community Outreach & Informtn Rep	54,725	72,925	2.00	145,848	2.00	145,848	2.00	145,848	
30000493	Community Outreach & Informtn Rep, Sr	60,341	80,475	2.00	136,840	2.00	141,291	2.00	141,291	
30000470	Contractor Dev Program Coordinator	63,378	84,635	1.00	73,068	1.00	75,558	1.00	75,558	
30000455	Contracts Dev & Review Administrator	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112	
30000672	Data Acquisition & Mgmt Supervisor	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828	
30000733	Development Services Manager	80,787	107,557	1.00	107,556	1.00	107,556	1.00	107,556	
30000333	Development Services Technician II	50,690	64,667	1.00	64,668	1.00	64,668	1.00	64,668	
30000732	Development Supervisor I	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636	
30000576	Economist, Sr	66,602	89,107	1.00	85,632	1.00	88,822	1.00	88,822	
30000635	Electrical/Instrumentation Supervisor	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828	
30000116	Electrician	64,376	69,493	6.00	416,952	6.00	416,952	6.00	416,952	
30000121	Electrician/Instrument Technician	66,331	71,594	7.00	495,888	7.00	495,888	7.00	495,888	
30000401	Electronic Systems Technician	52,666	67,184	3.00	201,564	3.00	201,564	3.00	201,564	
30000683	Engineer, Chief	102,648	146,952	2.00	249,600	1.00	146,952	1.00	146,952	
30000682	Engineer, Principal	93,787	125,070	3.00	372,156	3.00	374,204	3.00	374,204	
30000680	Engineer, Sr	81,182	108,243	11.00	1,176,463	11.00	1,187,035	11.00	1,187,035	
30000681	Engineer, Supervising	87,277	116,355	11.00	1,268,416	11.00	1,277,449	11.00	1,277,449	
30000365	Engineer-Civil	80,954	98,384	29.00	2,789,784	29.00	2,817,903	29.00	2,817,903	
30000366	Engineer-Electrical	80,954	98,384	2.00	196,776	2.00	196,776	2.00	196,776	
30000368	Engineer-Mechanical	80,954	98,384	1.00	94,076	1.00	98,388	1.00	98,388	
30000358	Engineering Associate, Sr-Civil	69,992	89,232	11.00	916,226	10.00	856,588	10.00	856,588	
30000360	Engineering Associate, Sr-Geotechnical	69,992	89,232	1.00	89,232	1.00	89,232	1.00	89,232	
30000353	Engineering Associate-Civil	57,533	77,106	8.00	536,755	8.00	558,154	8.00	558,154	
30000324	Engineering Technician I	37,835	50,690	1.00	38,148	1.00	40,044	1.00	40,044	
30000325	Engineering Technician II	50,690	64,667	26.00	1,592,901	25.00	1,563,109	26.00	1,618,993	
30000326	Engineering Technician III	61,568	78,645	7.00	532,476	7.00	536,827	7.00	536,827	
30001659	Env Svcs OCIP, Risk & Safety Officer	75,109	100,048	1.00	98,532	1.00	99,666	1.00	99,666	
30001736	Environmental Compliance Mgr	80,787	107,557	1.00	100,044	1.00	103,464	1.00	103,464	
55551100		1 30,707	.07,007	1.00	100,044	1.00	100,404	1.00	100,707	

		Salary	Range	Revi		Propo FY 201		Ado _l FY 20	
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000859	Environmental Intergovernmental Rel Mgr	80,787	107,557	1.00	107,556	1.00	107,556	1.00	107,556
30001735	Environmental Investigations Mgr	80,787	107,557	1.00	125,076	1.00	125,076	1.00	125,076
30000669	Environmental Monitoring Svcs Group Mgr	93,288	130,291	1.00	130,296	1.00	130,296	1.00	130,296
30000459	Environmental Policy Analyst	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000662	Environmental Program Coordinator	60,341	80,475	9.00	672,107	9.00	686,345	9.00	686,345
30000663	Environmental Program Manager	66,602	89,107	11.00	951,010	10.00	871,504	10.00	871,504
30000664	Environmental Program Manager, Sr	75,109	100,048	3.60	349,832	3.60	353,506	3.60	353,506
30000661	Environmental Program Specialist	54,725	72,925	3.00	210,972	3.00	213,640	3.00	213,640
30000419	Environmental Services Director	129,834	186,056	1.00	179,373	1.00	185,142	1.00	185,142
30000339	Environmental Specialist	61,568	78,645	27.00	2,016,371	27.00	2,050,380	27.00	2,050,380
30001359	Environmental Svcs Public Affairs Mgr	75,109	100,048	1.00	95,808	1.00	99,732	1.00	99,732
30000337	Environmental Technician I	37,835	50,690	4.00	153,216	2.00	79,224	3.00	117,060
30000338	Environmental Technician II	50,690	64,667	34.00	2,112,920	35.00	2,190,021	34.00	2,139,333
30000712	Facilities Services Specialist	54,725	72,925	1.00	61,590	1.00	64,118	1.00	64,118
30000569	Financial Analyst, Principal	75,109	100,048	4.00	404,004	3.00	305,136	3.00	305,136
30000341	GIS Technician I	37,835	50,690	1.00	50,688	1.00	50,688	1.00	50,688
30000342	GIS Technician II	50,690	64,667	2.00	115,248	2.00	119,410	2.00	119,410
30000343	GIS Technician III	61,568	78,645	3.00	225,252	3.00	227,468	3.00	227,468
30000373	Graphics Designer III	61,568	78,645	1.00	78,648	1.00	78,648	1.00	78,648
30001080	Healthy Working Rivers Manager	86,840	117,686	1.00	92,700	1.00	95,870	1.00	95,870
30000340	Hydrogeologist	69,826	89,066	1.00	89,064	1.00	89,064	1.00	89,064
30000126	Industrial Machinist	51,979	56,472	1.00	56,472	1.00	56,472	1.00	56,472
30000157	Industrial Maintenance Millwright	51,979	56,472	28.00	1,572,240	28.00	1,575,232	28.00	1,575,232
30000114	Industrial Painter	51,438	55,890	1.00	51,444	1.00	51,444	1.00	51,444
30001510	Inf Syst Analyst IV-GIS, Vertical	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000218	Inf Syst Analyst, Principal-Gen	75,109	100,048	2.00	191,320	2.00	195,056	2.00	195,056
30000880	Inf Syst Analyst, Principal-GIS, Vertical	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000606	Inf Syst Mgr-Enterprise Database Mgr	80,787	107,557	1.00	97,134	1.00	101,109	1.00	101,109
30000239	Instrument Technician	64,376	69,493	9.00	625,428	9.00	625,428	9.00	625,428
30001283	Laboratory Analyst II	45,760	60,382	6.00	359,448	6.00	362,304	6.00	362,304
30001284	Laboratory Analytical Specialist	52,166	69,264	6.00	415,584	6.00	415,584	6.00	415,584
30001285	Laboratory Coordinator	54,142	76,398	2.00	152,808	2.00	152,808	2.00	152,808
30000670	Laboratory Manager	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000644	Maintenance Planner/Scheduler	54,725	72,925	5.00	363,916	5.00	364,620	5.00	364,620
30000451	Management Analyst	57,450	76,586	1.00	76,584	1.00	76,584	1.00	76,584
30000453	Management Analyst, Principal	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000452	Management Analyst, Sr	63,378	84,635	3.00	235,471	2.00	177,391	3.00	240,775
30000450	Management Assistant	45,074	69,451	2.00	138,912	2.00	138,912	2.00	138,912
30000692	Maps & Records Supervisor	60,341	80,475	1.00	77,712	1.00	77,712	1.00	77,712
30000345	Materials Testing Technician II	50,690	64,667	4.00	242,112	4.00	244,692	4.00	244,692
30000346	Materials Testing Technician III	61,568	78,645	1.00	78,648	1.00	78,648	1.00	78,648
30000012	Office Support Specialist II	31,512	43,950	5.00	194,892	5.00	197,705	5.00	197,705
30000012	Office Support Specialist III	40,310	51,896	6.00	310,776	5.00	259,500	5.00	259,500
30000678	Portland Harbor Superfund Administrator	86,840	117,686	1.00	86,844	0.00	200,000	0.00	233,300
30000677	Portland Harbor Superfund Technical Mgr	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000677	Program Coordinator	60,341	80,475	3.50	253,352	5.00	351,837	5.00	351,837
30000464	Program Manager	63,378	84,635	6.00	489,144	6.00	494,538	6.00	494,538
30000465	Program Manager, Sr	75,109	100,048	1.00	98,832	1.00	99,943	1.00	494,536 99,943
30000468	Program Specialist	54,725	72,925	2.00	136,800	2.00	138,980	2.00	138,980
30000463	Program Specialist, Assistant	45,074	69,451	2.50	158,684	2.00	131,340	2.00	131,340
JUUUU4UZ	i rogiani opediansi, Assistant	45,074	03,431	2.50	150,004	2.00	131,340	2.00	101,040

		Salary	Range	Rev FY 20		Prop FY 20		Ado _l FY 20	
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000698	Property Acquisition & Services Manager	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000495	Public Information Officer	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000691	Public Works Inspection Manager	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000690	Public Works Inspection Supervisor	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000228	Public Works Inspector	56,888	65,000	16.00	1,012,392	16.00	1,014,894	16.00	1,014,894
30000229	Public Works Inspector, Sr	61,693	72,696	12.00	872,352	12.00	872,352	12.00	872,352
30000828	Records Specialist	31,512	43,950	1.00	43,956	1.00	43,956	1.00	43,956
30000481	Risk Specialist	54,725	72,925	1.00	56,976	1.00	58,722	1.00	58,722
30000482	Risk Specialist, Sr	60,341	80,475	1.00	80,472	1.00	80,472	1.00	80,472
30000485	Safety & Risk Officer I	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000179	Site Development Inspector II	62,546	72,363	1.00	62,544	0.00	0	0.00	0
30000668	Source Reduction & Control Manager	80,787	107,557	1.00	80,784	1.00	80,784	1.00	80,784
30000054	Storekeeper/Acquisition Specialist II	43,139	52,728	3.00	158,184	3.00	158,184	3.00	158,184
30000056	Storekeeper/Acquisition Specialist III	48,714	60,570	1.00	60,576	1.00	60,576	1.00	60,576
30000468	Stores System Supervisor II	57,450	76,586	1.00	75,528	1.00	76,144	1.00	76,144
30001078	Sustainable Stormwater Division Mgr	80,787	107,557	1.00	107,556	1.00	107,556	1.00	107,556
30000675	Wastewater Collections System Manager	86,840	117,686	1.00	117,684	1.00	117,684	1.00	117,684
30000676	Wastewater Operations Group Manager	93,288	130,291	1.00	130,296	1.00	130,296	1.00	130,296
30000163	Wastewater Operations Specialist	53,622	60,694	5.00	303,480	5.00	303,480	5.00	303,480
30000161	Wastewater Operator II	46,696	56,472	41.00	2,254,594	41.00	2,273,427	41.00	2,273,427
30000674	Wastewater Treatment Manager	86,840	117,686	2.00	177,240	2.00	180,639	2.00	180,639
30000673	Wastewater Treatment O&M Supervisor	66,602	89,107	4.00	324,932	4.00	330,952	4.00	330,952
30000656	Water Resources Program Manager	66,602	89,107	5.00	423,048	5.00	423,048	5.00	423,048
30000659	Watershed Division Manager	80,787	107,557	1.00	107,556	1.00	107,556	1.00	107,556
30000667	Watershed Revegetation Program Manager	66,602	89,107	1.00	69,996	1.00	72,386	1.00	72,386
30000666	Watershed Revegetation Program Supvr	60,341	80,475	1.00	80,472	1.00	80,472	1.00	80,472
30000660	Watershed Services Group Manager	93,288	130,291	1.00	99,132	1.00	103,200	1.00	103,200
	ULL-TIME POSITIONS			533.60	39,177,837	521.10	38,734,635	524.10	38,870,883
30000433	Administrative Specialist, Sr	41,974	64,626	0.50	27,016	0.50	28,124	0.00	14,060
30000321	Botanic Spec II-Ntrl Resource Ecologist	54,038	68,931	0.88	60,660	0.88	60,660	0.88	60,660
30000447	Business Systems Analyst, Assistant	45,074	69,451	0.80	55,560	0.80	55,560	0.80	55,560
30000367	Engineer-Geotechnical	80,954	98,384	0.50	45,120	0.50	45,120	0.50	45,120
30000358	Engineering Associate, Sr-Civil	69,992	89,232	0.50	42,096	0.50	42,096	0.50	42,096
30000325	Engineering Technician II	50,690	64,667	0.50	27,936	0.50	27,936	0.00	20,952
30000339	Environmental Specialist	61,568	78,645	0.50	39,324	0.50	39,324	0.50	39,324
30000452	Management Analyst, Sr	63,378	84,635	0.50	31,692	0.50	31,692	0.00	15,840
30000464	Program Coordinator	60,341	80,475	0.50	40,236	0.50	40,236	0.50	40,236
	ART-TIME POSITIONS			5.18	369,640	5.18	370,748	3.68	333,848
30000686	Capital Project Manager II	66,602	89,107	0.58	38,850	1.00	66,600	1.00	66,600
30000338	Environmental Technician II	50,690	64,667	3.67	188,122	4.00	211,358	4.00	211,358
	IMITED TERM POSITIONS			4.25	226,972	5.00	277,958	5.00	277,958
GRAND	TOTAL			543.03	39,774,449	531.28	39,383,341	532.78	39,482,689

This chart shows decisions and adjustments made during the budget process. The chart begins with an estimate of the bureau's Current Appropriations Level (CAL) requirements.

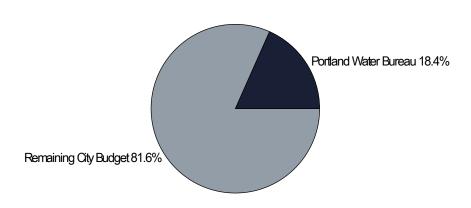
		Amount			
Action	Ongoing	One-Time	Total Package	FTE	Decision
FY 2012-13	223,321,848	0	223,321,848	543.78	FY 2012-13 Current Appropriation Level
CAL Adjustments					
	0	0	0	0.00	None
Mayor's Proposed Budget Decisions					
	(1,373,241)	(962,823)	(2,336,064)	(3.50)	Programmatic reductions
	(667,318)	0	(667,318)	(9.00)	Vacancy savings
	(415,763)	0	(415,763)	0.00	OMF interagency adjustments
	0	(98,620)	(98,620)	0.00	Non-represented merit freeze
	0	(214,000)	(214,000)	0.00	COLA inflation reduction
	(128,596)	0	(128,596)	0.00	Technical adjustments
Approved Budget Additions and Reduction	ons				
	199,882	0	199,882	1.50	Correction to vacancy savings package
Adopted Budget Additions and Reduction	ıs				
	0	60,000	60,000	0.00	Transfer of Portland Loos
-	(2,385,036)	(696,443)	(3,081,479)	(11.00)	Total FY 2012-13 Decision Packages
			220,240,369	532.78	Total Adopted Budget

Portland Water Bureau

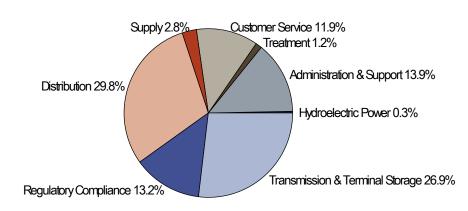
Public Utilities Service Area

Randy Leonard, Commissioner-in-Charge David Shaff, Administrator

Percent of City Budget

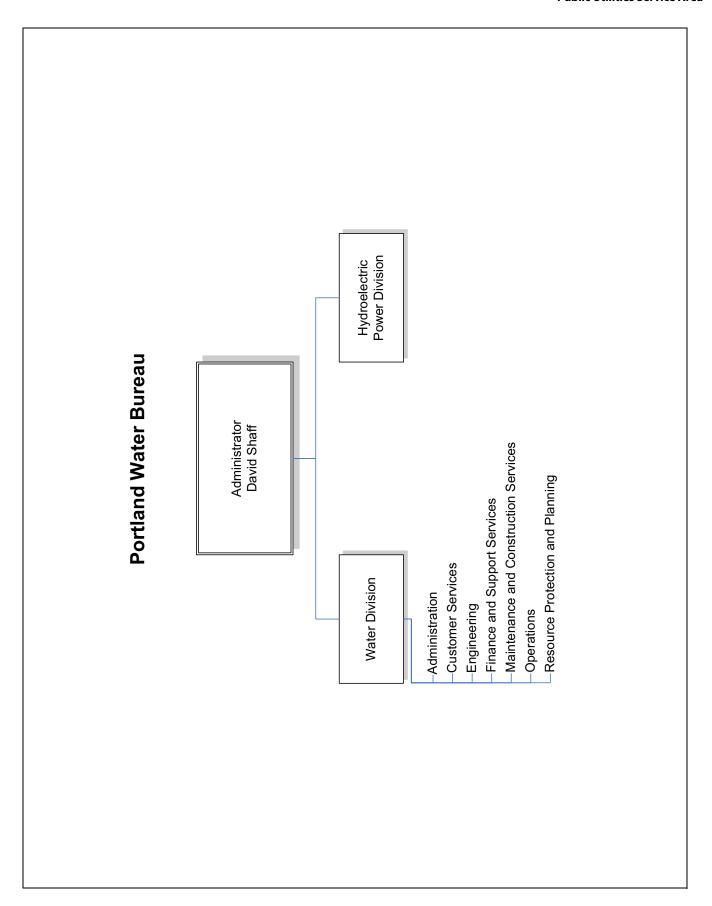


Bureau Programs



Bureau Overview

Requirements	Revised FY 2011-12	Adopted FY 2012-13	Change from Prior Year	Percent Change
Operating	556,064,470	523,175,369	(32,889,101)	(5.91)
Capital	79,600,000	135,870,000	56,270,000	70.69
Total Requirements	635,664,470	659,045,369	23,380,899	3.68
Authorized Positions	630.80	619.05	(11.75)	(1.86)



Bureau Summary

Bureau Mission

The mission of the Portland Water Bureau is:

- To provide reliable water service to customers in the quantities they desire and at a quality level that meets or exceeds both customer and regulatory standards
- To provide the highest value to customers through excellent business, management, and operational practices and appropriate application of innovation and technology
- To be responsible stewards of the public's water infrastructure, fiscal, and natural resources
- To provide the citizens and the City Council with a water system that supports their community objectives and overall vision for the City of Portland

Bureau Overview

The Portland Water Bureau has two divisions, the Water and Hydroelectric Power Divisions.

Water Division

The Water Division is responsible for construction, maintenance, and operation of Portland's municipal water system. The Water Division ensures that the water system can provide a sufficient quantity of high-quality water to satisfy the existing and future needs of the community.

Approximately 900,000 people (about one-quarter of the state's population) are served by the Water Division on either a retail or wholesale basis. Retail customers use about 60% of the water sold, while the other 40% is provided on a wholesale contract basis to 19 water purveyors, which include cities, water districts, private water companies, and a people's utility district. Approximately 80% to 85% of water sales revenue comes from retail customers, and 15% to 20% is derived from wholesale contracts.

The Water Division has seven budget programs and 22 subprograms that encompass all of the bureau's work including:

Supply

The focus of the Supply program is work associated with providing water to the Portland service area, including retail and wholesale customers. This program includes activities related to the City's primary Bull Run water supply as well as groundwater projects associated with the secondary wellfield system located in the Columbia South Shore area.

Transmission and Terminal Storage

The Transmission and Terminal Storage program includes conveying water from the supply facilities in the Bull Run Watershed to the retail distribution system and service delivery points for wholesale customers. The activities included in this program are related to terminal reservoirs as well as conduits and transmission.

Treatment

The Treatment program provides for meeting or exceeding the federal and state requirements for a public water system utilizing an unfiltered surface water source as well as a groundwater source. This program currently provides for the application of chlorine, ammonia, and sodium hydroxide, and associated regulatory and process control monitoring.

Distribution

The Distribution program is responsible for providing water to customers through distribution mains and related facilities. The activities in the Distribution program include pump stations and tanks; distribution mains; services; meters; hydrants; valves, gates, and regulators; fountains; and field support.

Regulatory Compliance

The Regulatory Compliance program is responsible for meeting regulatory standards, including compliance with the Endangered Species Act, proper disposal of dechlorinated water, and various monitoring requirements.

Customer Service

The Customer Service program focuses on customer contact, billing and collection, conservation, security, maintenance of decorative fountains, and grounds facilities.

Support

The Support program includes the bureau-wide work supporting other programs, including planning, financial support, data management, and human resource functions.

Hydroelectric Power Division

The Water Bureau's Hydroelectric Power Division is responsible for all aspects of the Portland Hydroelectric Project (PHP) operations. It is responsible for regulatory issues and power sales of two small hydroelectric projects and for dam safety of the Water Division's other two dams and open water reservoirs. These hydroelectric projects provide the region with clean, renewable energy while providing both the General Fund and the Water Fund with additional revenue.

The PHP is located 25 miles east of Portland in the Bull Run Watershed and has a combined power generation capacity of 36 megawatts. The PHP project facilities include powerhouses adjoining the bureau's primary water supply dams and approximately ten miles of power transmission and communication lines that connect the PHP powerhouses with Portland General Electric's (PGE) electrical distribution system. The Hydroelectric Power Division, on behalf of the City, maintains a long-term power sales agreement with PGE that addresses PHP operations and maintenance and the sales of power generated. Most of the revenues supporting this division come from the sale of power generated at the PHP, and most of the expenses relate directly to administration and monitoring of that project.

The primary responsibilities of the Hydroelectric Power Division staff include:

- coordination with PGE on financial, operations, and repair issues relating to the PHP;
- ensuring compliance with all PHP regulatory requirements including surveillance, oversight, and reporting; and
- coordination of all PHP project financial matters including the administration of PHP's revenue bonds and related trust indenture requirements.

Strategic Direction

The strategic direction of the Portland Water Bureau in FY 2012-13 covers the following areas:

Forecast Retail Water Demand

The typical single family residential customer water usage per month has been steadily declining since FY 2003-04. Current usage by a typical single family residential customer has dropped to 5 hundred cubic feet (ccf)as residential water usage continues to decline. This is because residential customers are routinely practicing water conservation and are installing new plumbing fixtures and appliances that are increasingly more water efficient with technological advances.

The weather also contributed to the downward trend in retail water demand during the past couple of years. In 2010, Portland recorded three consecutive summer months of below-average temperatures for the first time in 35 years and was the coldest summer in 17 years.

The summers of 2010 and 2011 were unusually cooler and wetter than normal as was the Spring of 2012. The 5-year demand forecast assumes a normalized summer weather pattern. Demand projections are a primary factor in setting water rates. As customers purchase less water, there is a corresponding rate increase due to proportionally fewer units sold to fund the fixed costs of the utility (similar to most water utilities, more than 95 percent of Portland Water Bureau system costs are considered fixed in the short term).

Long-Term 2 Enhanced Surface Water Treatment Rule

The Long Term 2 Enhanced Surface Water Treatment Rule (LT2) was issued by the Environmental Protection Agency (EPA) in January 2006. The purpose of the rule is to reduce illness linked with Cryptosporidium and other pathogenic microorganisms in drinking water.

Compliance with LT2 will impact two separate parts of Portland's water system. First, the rule requires the City to provide additional treatment to its Bull Run supply to either remove or inactivate Cryptosporidium. In May 2009, City Council directed the Bureau to pursue ultraviolet (UV) treatment to inactivate Cryptosporidium oocysts from raw Bull Run water if alternate compliance options prove unsuccessful. Second, the rule requires changes regarding how uncovered open finished drinking water reservoirs are managed and operated. The rule mandates that water systems with uncovered finished water reservoirs, like those

at Mt. Tabor and Washington Parks, either cover the reservoirs or provide treatment at the outlets of the reservoirs to inactivate Cryptosporidium, Giardia, and other pathogens. Cryptosporidium can enter surface water via human and animal fecal material. Surface water sources that are exposed to intensive human activities, pollution, and animal wastes are at risk to contain the parasite.

The Portland City Council committed in January 2005 to pursue alternative forms of compliance for the LT2 Rule. Soon after, the City met with EPA officials to request that the agency alter the final rule so that it would include alternate approaches that would allow Portland to avoid building additional treatment. When that effort failed, the City filed a legal challenge to the rule in the Washington DC District Court of Appeals in early 2006. In November 2007 the Court issued a decision rejecting the City's challenge and upholding the rule.

In response to the court ruling, the City pursued parallel compliance strategies. Commissioner Randy Leonard directed the Bureau to plan and budget to achieve compliance with the source water sections of the LT2 Rule as written but also pursue the variance provisions of the rule with the EPA.

Treatment

In 2009, City Council approved the development of an engineering design for a UV treatment plant while the Water Bureau continued its efforts to obtain a variance. The Water Bureau completed the UV design in December 2011. In May 2011, the bureau submitted a comprehensive request for a treatment variance to the Oregon Health Authority (OHA). The request contained the results of a year-long intensive water sampling program, additional field data, and research that supported Portland's assertion that treatment for Cryptosporidium was unnecessary due to the nature of the Bull Run source. In March 2012, OHA approved Portland's request for a treatment variance subject to a list of conditions which include ongoing sampling of Bull Run water for Cryptosporidium, maintenance of all existing watershed protections, seasonal field inspections, regular reporting, and monitoring of potential Cryptosporidium sources in and around the watershed. If Portland is successful in continuously meeting the stated conditions, the variance, which went into effect April 1, 2012, will be in effect for 10 years. The variance means that Portland will not need to build the UV treatment plant to comply with the LT2 rule.

The FY 2012-13 budget includes funding for a treatment variance monitoring program designed to enable Portland to meet all of the variance conditions imposed by OHA. The FY 2012-13 Budget Advisory Committee (BAC) supported the Water Bureau's treatment variance monitoring budget.

Uncovered Finished Drinking Water Reservoirs

The Bureau submitted, and EPA approved, a compliance plan to comply with the uncovered reservoir storage requirements of the LT2 Rule. The plan includes constructing an enclosed 50 million gallon storage reservoir at Powell Butte, increasing the storage capacity at Kelly Butte to 25 million gallons, replacing Washington Park Reservoir 3 with a 15 million gallon buried storage tank, and constructing transmission pipes and other system improvements. The deadlines in the plan to disconnect Mt. Tabor and Washington Park open reservoirs from the drinking water system are December 31, 2015 and December 31, 2020, respectively.

In August 2011, in response to United States Senator Charles Schumer on behalf of the City of New York, the EPA agreed to review the LT2 regulation as part of its standard regulatory review and also in response to a presidential executive order. In February 2012, the City asked for an opportunity to suspend the Water Bureau's compliance schedule to disconnect the City's uncovered reservoirs pending the EPA's review of the LT2 Rule. The compliance schedule extension would have resulted in the Mt. Tabor and Washington Park reservoirs being disconnected from the drinking water system as of June 30, 2023 and June 30, 2025, respectively. On May 17, 2012, OHA denied the City's request for an extension. The existing regulatory schedule to replace all uncovered storage by December 31, 2020 is therefore in effect and the Bureau is moving forward to complete the necessary projects to comply with this schedule. The five-year capital improvement plan has been revised to reflect OHA's decision.

Monthly Bills

The FY 2011-12 Adopted Budget included a budget note directing the bureau to adjust its billing system and business processes so that the majority of water and waste water customers are billed monthly. The bureau submitted a decision package to implement monthly statements to be implemented on July 1, 2012 but was denied. The Budget Advisory Committee (BAC) supported implementing monthly statements but felt customers should be given the option of paying the whole quarterly bill if desired. The BAC recommended including the quarterly billed amount on the monthly statements to provide customers the option to pay the entire bill. City Council has revised their initial direction to the bureau providing monthly statements to those who sign up for electronic billing. The bureau will implement a voluntary electronic monthly statement program. Customers may request an electronic monthly statement, but the meter reading frequencies would not change.

Base Charge

Prior to 2000, the base charge was a fixed monthly or quarterly charge that recovered relevant base charge costs and varied by meter size. The relevant costs recovered by the base charge included billing, collection, customer service, meter purchases, cost of meter maintenance and allocable indirect costs. As part of the 2000 rate reform, City Council lowered the base charge to only include billing, collection, call center, and customer services costs. This shifted more costs to the volumetric portion of the rate structure to promote conservation and to lower the bills for low water use customers. In FY 2009-10, the Bureau raised the base charge rate by the same percentage increase as the volumetric rate. This approach was to make it easier for the public to understand the rate increases. In the FY 2010-11 budget, the Bureau proposed to return the base charge to a more typical and generally accepted cost of service methodology. Neither the BAC, Portland Utility Review Board or the City Council indicated interest in the bureau's proposal; therefore, the base charge has continued to increase at the same percentage rate increase as the volume rate for the last two years.

This year the bureau revisited the base charge proposal with the BAC once again. There was considerable support from the BAC members to have the base charge calculated using a cost of service methodology, but the members were also concerned, given the current economic conditions, about having significant increases in the base charge for residential customers. Therefore, the BAC recommended the bureau pursue a phase-in approach and have gradual increases to avoid large base charge increases all at once, even if the base charge increases would lower the volume rate increases. The bureau plans to propose to City Council that the bureau develop a phase-in approach to returning the base charge to the more typical and generally accepted cost of service methodology. If approved, this change would be implemented at a future date that has not been identified at this time.

For FY 2012-13, the bureau plans to increase the base charge rate by the same percentage increase as the volumetric rate. With the implementation of monthly statements, the base charge will be based on meter reading frequencies.

Pending Lawsuit

On December 6, 2011, Citizens for Water Accountability, Trust and Reform filed a lawsuit against the City alleging that the City improperly spent millions of dollars of utility ratepayer monies on projects that are unrelated to the utilities' core functions. The lawsuit asked for an order that would require the City to reimburse the Water Fund and Sewage Disposal Fund for those expenditures. The City's preliminary estimate is a combined maximum of about \$50 million for both utility funds if all expenditures in question were determined to be inappropriate. This Five-Year Preliminary Financial Plan assumes no reimbursements from the City to the Water Fund.

Service Improvement Plan

Project Decision Making

The Bureau is committed to using benefit/cost analysis and business case principles in its capital and maintenance decision making. The Engineering Planning staff uses business case evaluation in Planning Concept Reports and Basis of Design Reports. Asset Management Plans are being developed, or have been developed, for various groups of assets and replacement and maintenance strategies based on the application of these concepts are being developed.

A list of projects where cost savings have been realized by applying these concepts include the hydrant asset management plan; Council Crest service area improvements; Taylor's Ferry pump station upgrade; Soapstone slide area improvements; Greenleaf pump station/Penridge service area improvements; and Portland Heights pump station improvements.

Manage Risk of Asset Failure

The "risk" service level directs the bureau to assess risks of asset failure. High and extreme risks that are identified receive follow-up actions on an accelerated scale. Since risk is both the consequence of the failure and the likelihood of the failure, it is often necessary and appropriate to focus on the assessment of the condition of the high consequence asset to determine just how high the risk is. The bureau has

conducted condition assessments of high pressure pump mains, pipes on bridges, pipes under freeway and railroad crossings, and in key operational areas. Over 20 miles of high consequence pipes were evaluated for leaks using innovative technology. The bureau has a flexible services contract available for specialized condition assessment of high risk pipelines.

Among the high risk pipes where inspections or assessments were completed, those indicating a lower likelihood of failure were: SE Supply Line near Macadam Ave, Conduits 2 & 4 near Lusted Hill where a landslide occurred in 2011, Mt. Tabor above Reservoir 6, the Carolina pump main, Kings Heights pump main, Arlington Heights pump main, 36-inch transmission main under I-405, Fulton pump main under I-5, and the Sam Jackson supply main. Two pipes that required immediate remedial action were Barbur Gibbs pump main and the Grand Avenue viaduct crossing.

Reliability Centered Maintenance

Reliability Centered Maintenance (RCM) is a term used to refer to a number of steps, including systematic use of predictive and preventive maintenance processes, to ensure that key assets will continue to perform. The bureau is taking a number of actions to utilize RCM on its rotating equipment and tanks. In December of 2011, the bureau invited consultants from Brown and Caldwell to perform training on the utilization and implementation of RCM. Attendees included staff representatives from engineering, management, electrical, instrumentation, and operations.

Two specific ways that the bureau continues to improve its ability to maintain public assets and incorporate RCM include taking advantage of new technologies and improving work flow processes. Resources and work flows are now managed through use of a computerized maintenance management system (CMMS) which allows tracking and prioritization of corrective maintenance tasks. Additionally, the bureau continuously refines its standard operating procedures and improves techniques for data collection for better accuracy and precision. These technologies include utilizing such techniques as electrical thermography, networked electrical monitoring, PGE electronic metering, vibration analysis, and oil and fuel analysis.

The asset management group uses the data from these sources to determine asset risk versus probability of failure and make recommendations for replacement.

Currently, the bureau is engaged in a contract for \$150,650 to develop a new mobile application to allow for wireless field entry and access to the CMMS, which will allow for better data management and resource allocation.

Cathodic protection for all 33 steel tanks is being planned by Engineering Services Design Engineers at an average cost of \$35,000 per tank. This work began in FY 2008-09 and is scheduled for three tanks per year for 11 years. The groundwater pump station tank is currently undergoing improvements for cathodic protection.

Meters

The bureau is developing criticality reports to be used in the meter program for monitoring, maintenance and replacement of large meters. The current approach was developed in the first asset management plan for meters completed in 2007 and the approach will be revised in a new asset management plan to be completed this calendar year.

Portland Hydroelectric Project Operations

Due to the age of the Portland Hydroelectric Project, there are currently a number of identified needs for repair or replacement of various elements of the PHP's equipment and facilities to keep operations safe and reliable. The required funding for this work is included in the Hydroelectric Power Division's FY 2012-13 budget.

Summary of Budget Decisions

Water Division Budget

The Water Division's budget of \$217 million is composed of the operating budget of \$81 million and the capital budget of \$136 million.

Operating Budget

The operating budget of \$80.8 million represents an increase of \$3.2 million from the FY 2011-12 Revised Budget of \$77.6 million.

Capital Budget

The capital budget of \$135.9 million is an increase of \$23.4 million from the FY 2011-12 Revised CIP Budget of \$112.4 million. For additional information refer to the FY 2012-17 Requested Five-Year Capital Improvement Plan.

Staffing

The FY 2012-13 Adopted Budget funds 616.8 FTE. This includes five new positions associated with the increased monitoring decision package, ten position reduction, one limited term full time and two limited term part time.

Rate Increase

The bureau's average effective in-city retail rate increase is 7.60% for FY 2012-13. This increase includes the decision package for increased monitoring for the treatment variance.

Hydroelectric Power Division Budget

The Hydroelectric Power Division's FY 2012-13 operating budget is \$703,328. This budget supports the Portland Hydroelectric Project's administrative and operational costs with power sales revenue that is specifically dedicated for that purpose.

Staffing

The Hydroelectric Power Division's budget maintains 2.25 FTE positions in FY 2012-13.

Capital Budget

Bureau Summary

CIP Highlights

The bureau's Five-Year CIP includes about \$535 million in water system infrastructure needs for the five year period beginning in FY 2012-13 and stated in FY 2012-13 dollars.

The budget program framework structure consists of seven primary budget programs that are the top level organizing elements in the City budget documents, and 22 water programs that further delineate the bureau's work and assets. For framework details and program descriptions, refer to the section titled "Capital Plans and Projects."

Most of the CIP is for improvements to the transmission and terminal storage system to comply with LT2. While Portland no longer has to construct a treatment plant, it still is required by the OHA to cover or replace the open reservoirs.

Treatment and the revised LT2 storage and conduit projects in transmission and terminal storage, is now about 45% of the CIP, the distribution program is about 42%, with Interstate facility improvement and Willamette River crossing pipe included in the distribution total. Projects to meet bureau obligations of the Bull Run Habitat Conservation Plan (HCP) are about 7%, while Supply, Customer Service and Support comprise the remaining 6%.

The bureau's commitment to replace and rehabilitate its aging core infrastructure continues near the same funding level as prior years, but the relative percentage by program shifts dramatically with the commitments to comply with LT2.

Notable projects include modifications to the Bull Run Dam 2 outlet tower, rehabilitation of the Interstate maintenance facility, Willamette River crossing pipe, Fulton pump station improvement, and completion of the city emergency coordination center (ECC) which is a joint project with OMF Internal Business Services and Facilities.

Continuing construction of a second 50 million gallon water storage tank at Powell Butte, beginning construction of the Kelly Butte replacement tank, completing planning of the Washington Park area storage, and piping adjustments needed to disconnect the Mt Tabor open reservoirs are the LT2 related capital projects.

Major Issues

The FY 2012-17 CIP continues to balance longer term infrastructure replacement and maintenance, while addressing short-term water system infrastructure needs to ensure compliance with drinking water regulations. The CIP priorities for the bureau's budget and capital programs include:

- Develop a budget and CIP that reflect community priorities and values and are funded at a level responsive to affordability concerns, yet maintain service levels
- Fund system infrastructure replacement and maintenance needs to keep pace with ongoing deterioration.
- Support other governmental agency capital improvement projects (e.g., light rail, Sellwood Bridge, Columbia River crossing) as directed by City Council.

- Continue to expand the utilization of an asset management system plan and maintenance management system to support planning and implementation of system maintenance activities.
- Implement the Bull Run HCP, a comprehensive multi-decade Clean Water and Endangered Species Act compliance agreement for the Bull Run Watershed.
- Implement improvements necessary to assure compliance with current safe drinking water regulations, including LT2.

Changes from Prior Year

The bureau developed the FY 2012-17 CIP using the budget process it has used for the past five years in response to the priorities identified by the City Council and key stakeholders. The CIP is more than \$130 million for FY 2012-13 and totals about \$535 million (FY 2012-13 dollars) over the entire five years.

In March 2012, the bureau received a variance to the LT2 treatment requirements from the OHA. This decision saves Portland ratepayers roughly \$70 million in capital expenses by allowing Portland to avoid constructing a treatment facility to address the microorganism Cryptosporidium for the City's Bull Run source. The variance went into effect on April 1, 2012 and will be in effect for 10 years if Portland is able to continue to meet a list of conditions set forth by the agency.

Then on May 17, 2012 OHA denied the bureau's request for an adjustment to its regulatory schedule to replace the uncovered drinking water reservoirs at Mt.Tabor and Washington parks. This decision means that Portland's existing regulatory schedule to end the use of the uncovered reservoirs by December 31, 2020 remains in effect. Portland had requested an extension of that schedule to the year 2026.

Strategic Direction

Council Goals and Priorities

The CIP addresses multiple City goals; primarily the delivery of efficient, effective and accountable municipal services; as well as protection and enhancement of the natural and built environment. Some projects support other goals, such as utility relocation for major transportation initiatives and energy efficiency.

City Comprehensive Plan

The PWB is committed to the following Comprehensive Plan Goals and Policies for the City:

Goal 2, Urban Development: The CIP supports safe, adequate, and affordable water supplies to support the land uses listed in this Goal's strategies.

Goal 3, Neighborhoods: The CIP supports policy 3.1 on physical conditions preventing deterioration of existing public facilities through projects that maintain and/or replace infrastructure assets. These include mains replacements, pump station upgrades, meter replacements, hydrant renewals, tank maintenance and/or new tank development, and in-city transmission main replacements and/or new installation.

Goal 4, Housing: The water system is designed to meet the housing needs allocated to various areas within the city through the Comprehensive Plan.

Goal 5, Economic Development: A key aim of the CIP is to ensure that water quantity and quality meet the existing and potential needs of businesses in support of policy 5.2 Business Development, 5.5 Infrastructure Development, and 5.10 Columbia South Shore.

Goal 6, Transportation: The CIP supports water system adjustments and relocations required to accommodate the construction and operation of light rail and other transportation projects.

Goal 7, Energy: The CIP supports energy efficiency policies through the industrial water conservation program, and through the planning and construction of capital facilities with sustainability as an important criterion.

Goal 8, Environment: The PWB's CIP supports the implementation of the Bull Run HCP, a comprehensive multi-decade Clean Water and Endangered Species Act compliance agreement for the Bull Run Watershed. In addition, all water projects planned for construction that may impact environmentally sensitive locations inside the urban area include studies of the environmental review, recommendations for mitigation, and any necessary City and federal permit processes that apply, including environmental zone reviews and ESA consultations.

Goal 9, Public Involvement: The PWB engaged the public in developing its budget and the CIP. All Portland CIP projects that affect neighborhoods or that require city, state, and/or federal permit review processes include public involvement elements.

Goal 11, Public Facilities: The CIP is designed to meet the primary Public Facilities Goal, particularly Policy 11.1 on service responsibility for subsection (6) - Water Supply. Policy 11.7 requires that the CIP be an annual planning process for major improvements.

Criteria

CIP criteria focus on large distribution, storage and environmental regulatory compliance projects to address vulnerability, LT2, and the HCP. Other criteria include maintaining, improving or replacing aging infrastructure that is essential to the long term health of the water system.

The PWB's capital prioritization is also guided by values including, but not limited to: public health and safety, reliability, reducing vulnerability, minimizing environmental impact, and affordable water rates.

A distribution system master plan and updated computer model completed in June 2007 remains the planning resource for many projects not related to regulatory compliance. The focus of the plan was the distribution backbone system: 40 pump stations, 68 tanks, and the large-diameter pipelines (approximately 300 miles) that distribute water from Powell Butte Reservoir to terminal storage at Mount Tabor and Washington Park and to the distribution system service areas. The plan described service goals, project priorities, hydraulic model upgrades, condition assessments, and asset management recommendations.

Capital Planning and Budgeting

Capital Planning Process

The CIP is the implementation plan for water system improvements. It is updated annually and is the budget and policy tool for the PWB and City Council to direct capital work. The CIP identifies, in detail, specific projects, their budgets, phasing or components, and the relationship among capital projects.

The CIP process is a bureau-wide collaborative effort of engineers, operations and maintenance managers, financial analysts, and policy staff. Together they bring to bear planning analysis; engineering standards; operational, technical, regulatory and fiscal expertise, and an understanding of external factors affecting PWB operations.

The CIP and capital budget priorities are reviewed by the BAC as part of the bureau's budget proposal and by the Portland Utility Review Team (PURB).

Financial Forecast Overview

The CIP is an integral element in the development of the bureau's financial plan, because the size of the CIP has a significant effect on water rates. The mix of projects in the CIP is also important. Projects related to supply and transmission enhancements serve both wholesale and retail customers alike, but costs for projects related to the distribution system can only be allocated to retail customers. Finally, the method chosen to finance projects affects rates as well. Specifically, debt service coverage targets (which affect the balance between debt and cash financing) and bond terms and structures can have a significant effect on water rates.

The projected water rates for the five-year financial forecast are based on the CIP and operations and maintenance (O&M) budgets and other factors affecting rates. Those factors include projected demand estimates, inflation factors, and other economic factors such as interest rates.

Retail Rate Impact

The revenue forecast refers to the costs that are expected to be recovered from water sales, regardless from whom they will be collected. The revenue requirements must be allocated between wholesale and retail customers to determine the specific customer class rate revenue impact. Contractual provisions specify the method of allocating costs to wholesale customers. Retail rates are set on a residual cash basis to recover whatever portion of the total cash basis revenue requirements that is not allocable to wholesale customers. After deducting all other revenue sources, including wholesale revenues, the PWB's proposed average effective retail rate increase for FY 2012-13 is 7.6%.

Water Construction Fund

Capital investments in the water system are funded through the Water Construction Fund (WCF). The WCF is financed from three major sources: transfers from the Water operating fund (primarily water sales revenues), net proceeds from revenue bond sales, and construction fund revenues (direct reimbursements, system development charges, and interest earnings). These monies fund indirect capital costs (overhead and interest) as well as direct project costs. For this CIP, approximately 29% of capital requirements are funded with current resources, and the balance will come from bond proceeds.

Cash/Water Sales Financing: The bureau has two debt service coverage planning standards for rate setting. The PWB's target minimum debt service coverage ratio is 1.90 on first lien bonds (1.25 per bond covenant) and the debt service coverage ratio on combined first and second lien bonds is 1.75 stabilized net revenue (1.10 per bond covenant). In managing the second lien-stabilized test, the PWB employs a rate stabilization account that also serves the dual purpose of a "rainy day" fund. Managing these two ratios together reflects the bureau's desire to optimize its capital financing strategies and maximize existing resources.

Debt Financing: Pursuant to the City Charter, state statutory authority, and City Council approval, the bureau may issue debt in the form of revenue or general obligation bonds. By City Charter, the WCF is the recipient of net proceeds from bond sales to fund capital improvements. Bond reserves are deposited in the Water Sinking Fund. Between \$80.0 to \$85.0 million in revenue bonds, including a bond reserve, are scheduled to be sold in calendar year 2012. The bureau also plans to issue revenue bonds annually for the first two years and year four of the five year forecast to provide necessary debt financing for the five-year period. Bonds were previously issued every two years to facilitate compliance with IRS regulations regarding the period during which the proceeds must be spent. Bond sales will be required every year for the next two years to provide funding to construct the capital facilities required. Beyond this CIP, bond sales will likely be sold again biennially to fund the future improvement requests.

<u>WCF Revenues</u>: The bureau's level of WCF revenues is determined mainly by the actions of external parties, with the majority of these revenues (in current dollars) coming from service and main installations (\$2.4 million in FY 2012-13) and interagency capital revenues (\$1.7 million in FY 2012-13).

Operations & Maintenance and Capital Studies

The CIP also includes a small portion of project expenditures that cannot be funded through the WCF. These expenditures generally fall into the grouping of capital studies, preliminary engineering, and other work that does not meet the capital criteria of a betterment, improvement, or addition to the water system as set forth by city policy or industry practice. The CIP includes about \$3.2 million of O&M and studies in FY 2012-13. The total O&M and studies over the five years is \$17.3 million. As an operating cost, these are 100 percent cash-financed, usually through water sales.

Asset Management and Replacement Plans

The PWB's general asset management goal is to extend the useful life of the City's water facilities through appropriate maintenance and repair until such time as infrastructure replacement is more cost effective. The type of facility, its age, and the effectiveness of past maintenance and repair activities drive the repair and replacement cycles.

The operational life of a majority of the PWB's key infrastructure facilities, such as the Bull Run dams, pipeline networks, buildings, and concrete reservoirs, ranges from 50 years to more than 100 years. Other assets such as mechanical and electrical systems and certain distribution system appurtenances (meters, regulators, etc.) usually have shorter life cycles of 20 to 50 years. These life cycle ranges are a key driver of the bureau's ongoing capital maintenance programs.

Excluding LT2 compliance projects, most of the CIP is focused on maintenance and replacement of key system components. In addition to the CIP, there is a preventive maintenance and repair program in the operating budget that provides for more immediate and routine maintenance.

With an estimated replacement value for the City's water system of more than \$6.7 billion, asset management and replacement programs will continue to be one of the largest CIP activities, protecting the public's investment in its drinking water system. A large portion of the CIP is for the distribution mains program that annually replaces about four miles of distribution mains. The services water program installs up to 1,000 new service lines and replaces up to 500 annually.

An assessment of the water system, based on a comparison of the age of assets to their useful life, on actual condition assessment data, or on identified vulnerabilities, suggests that the transmission and distribution system's capital costs will need to increase in the future, as many of these assets will reach the end of their economic life.

The PWB is undertaking projects to better understand the condition of its high risk pipes and valves. Those assets confirmed as high risk will be repaired or replaced.

Capital Programs and Projects

Capital Program Descriptions

The 22 water program areas are summarized within the CIP in the following 7 program areas:

Customer Service Program

Capital projects in the Customer Service program address the need to improve security of critical PWB facilities and improvements to the bureau's grounds and parks. A major project in this program is the City Emergency Coordination Center.

Distribution Program

The Distribution program addresses the reliability and expansion of the piping, pumping and storage network that primarily distributes water from terminal storage reservoirs to retail customers. It addresses the ongoing installation and replacement need for 2,100 miles of distribution mains, including control valves, fire hydrants, and customer service connections, as well as pump stations, storage tanks, large diameter distribution system transmission mains, and pressure regulating stations. The program also provides for relocation and other adjustments to water pipes and facilities to accommodate transportation and other public infrastructure projects. Rehabilitation and improvement of decorative and drinking fountains and the replacement of the Interstate maintenance facility are also included in the program. Over \$220 million of the CIP is budgeted in this program. Major projects in this CIP include the construction of the Portland to Milwaukie Light Rail, central SCADA server replacement and Interstate facility rehabilitation, several pump station replacement, upgrade or extensions, as well as pre-design towards replacement of the Willamette River Pipe Crossing.

Regulatory Compliance and Water Quality Program

The Regulatory Compliance and Water Quality program includes improvements to both Bull Run and groundwater sources. The program ensures that water throughout the water system meets federal and State of Oregon drinking water quality standards. FY 2012-13 is the second year of the 50-year federally approved Habitat Conservation Plan (HCP) and this CIP includes funding for multiple easements and improvements per that plan as well as the construction of the Bull Run Dam 2 tower intake structure to better control the release of water to enhance downstream conditions for anadromous fish species.

Supply Program

The Supply program includes both the watershed areas and groundwater basins. Projects in the Bull Run Watershed address reliability of the principal water supply source. The program's objectives include maintaining the reliability of the water supply through effective management of watershed assets.

The Columbia South Shore (CSS) wellfield is Portland's second water source, augmenting Bull Run and serving as the region's backup water supply. The CSS wells enable the bureau to continue to serve customers when there is an interruption of the Bull Run surface supply. The Bull Run supply can be interrupted by major storm events that result in unacceptable levels of turbidity, drought conditions that restrict supply, conduit operation interruption, or other natural or man made issues. The groundwater supply allows the bureau to continue to operate without constructing and operating a costly surface water filtration plant. The groundwater portion of the program focuses on maintaining the installed capacity and reducing vulnerability of the CSS wellfield. The work includes maintenance and improvements to wells, pumps, collection mains, and the disinfection treatment of groundwater. This CIP does not include major expansion of the CSS wellfield beyond the current capacity but it does include projects to reduce the vulnerabilities in the Groundwater Pump Station as well as other projects to repair and upgrade our groundwater infrastructure.

Support Program

The Support program addresses non-asset specific work such as master planning and other similar support functions. Master planning focuses on identifying the need and timing of infrastructure acquisition or improvements and the most effective asset management strategies to maximize infrastructure investments. The bureau has several studies planned in this CIP related to its tanks, pump stations and mains. These studies guide the selection and design of major capital projects for external construction as well as the many smaller mains constructed by bureau crews to reduce leaks.

Transmission and Terminal Storage Program

The Transmission and Terminal Storage program provides for the rehabilitation, replacement, and expansion of the primary transmission pipelines and terminal storage reservoirs that make up the supply backbone of the water system.

In FY 2009-10, work began on storage projects to achieve compliance with the LT2 rule as written. The rule requires that water systems with uncovered finished water reservoirs, like those at Mt. Tabor and Washington Park, either cover the reservoirs or provide treatment at the outlets of the reservoirs to inactivate Cryptosporidium, Giardia, and other viruses. A plan explaining the schedule and manner for bringing Portland into compliance with the covered storage requirements of the rule was approved by the EPA in April 2009.

That plan describes how the bureau intends to build additional and replacement enclosed drinking water storage and establishes deadlines for when the Mt. Tabor and Washington Park open reservoirs will be disconnected from the drinking water system, which is December 31, 2015 and December 31, 2020 respectively.

The bureau requested a schedule extension to delay the disconnection dates to 2021 and 2026 but the request was denied. The decision by OHA means that Portland's existing regulatory schedule to end the use of the uncovered reservoirs by December 31, 2020 remains in effect.

Major projects in this program continues construction of the second 50 million gallon water storage tank at Powell Butte, and for other enclosed storage for LT2 compliance at Kelly Butte and Washington Park.

Treatment Program

In March 2012, OHA granted a ten-year variance from water treatment. Based on this variance, PWB has halted its efforts to build a UV treatment plant to comply with the rule. This CIP funds only the design and construction of flow meters at Headworks which will improve Portland's compliance with other drinking water rules related to chemical additions.

Funding Sources

See the Financial Forecast Overview above for an explanation of funding sources for the CIP.

Major Projects

Customer Service

Some security related projects and projects for the bureau's grounds and parks are budgeted in this program. The Water Bureau is participating in the city Emergency Coordination Center project. Security staff will operate from this center with PBEM and in the event of an emergency, all bureaus and the Council will work from this site.

Distribution

Over \$220 million of the total CIP is dedicated to this program, with \$46 million requested to continue rehabilitation of the Interstate Maintenance facility. Other areas include pump stations and tanks, distribution pipelines, services, meters, hydrants, and valves. Of the total, about \$72 million is to be used for direct water line replacement projects. Much of the effort is a result of work initiated by other bureaus and agencies including TriMet, but work also includes replacement of the oldest or most deteriorated portions of the distribution system. Construction will begin on the \$12 million Fulton pump station replacement and Portland Heights pump main. Construction will also start on the 1.3 million gallon Forest Low tank which is expected to cost about \$8 million. PWB will continue the pre-design of the Willamette River Pipe crossing.

Regulatory Compliance

The Dam 2 Tower multilevel intake improvement is the major project in this program. The anticipated total project cost is over \$40 million to account for the amount of underwater diving work that will be needed to accomplish the project. Other significantly less expensive HCP projects include fish habitat enhancements and the acquisition of land easements and improvements to those properties with the cooperation of landowners and other organizations involved with maintaining the Bull Run Watershed.

Supply

This program implements the improvements to existing facilities in the Bull Run watershed areas and groundwater basins. Currently, the City is making capital improvements to the groundwater system in the following areas: (1) rehabilitating well pumps and motors; (2) maintaining and repairing wells that produce excessive sand and changing the pump settings in selected wells to optimize well performance; and (3) installing and equipping additional wellhead protection monitoring wells to protect investment in wellfield infrastructure and ensure the quality of the groundwater produced by the system.

Support

There are no major projects proposed in this program. The program funds general engineering planning studies and includes bureau participation in the citywide systems plan being developed by the Planning Bureau. All major capital studies have planning studies to determine cost effective solutions which can take up to a year. The remaining studies are smaller ones to prioritize Distribution projects to reduce leaks.

Transmission and Terminal Storage

In this program, efforts will continue with the construction of Powell Butte Reservoir and the design and construction of Kelly Butte, complete planning for the Washington Park Reservoir, and design of piping adjustment at Mt. Tabor. The bureau will also complete construction on the Sandy Wholesale Connection which is a new meter connection for the City of Sandy.

Treatment

The UV treatment project has been halted in the design phase, and the only project in this program is the Headworks Flow Meters to regulate chemical additions to the system in compliance with drinking water regulations. The total CIP amount for this sole project in this program is \$2.6 million

Net Operating and Maintenance Costs or Savings O&M costs, when applicable, are estimated as part of the project feasibility study and preliminary evaluations. The costs generally include labor, electricity or fuel, and chemicals. Changes in the cost of energy and chemicals are normally much easier to identify and estimate than labor or efficiency savings.

Much of the CIP is dedicated to the ongoing renewal and replacement of the backbone water system, the pipes, valves, hydrants and other system appurtenances. These long life passive assets, typically buried and not visible, do not require much in the way of regular O&M. Following initial installation, only occasional specific maintenance is completed, such as pipeline flushing, verifying water control valve operation, and fire hydrant flow testing. Due to the large inventory of these assets, completed renewal projects may result in only a nominal net change in O&M costs because the maintenance cost is so minimal.

For example, the replacement of pipelines with a high frequency of leaks will result in reduced reactive O&M due to fewer leak repairs. However, the relatively small percentage of pipe length replaced in any given year will not appreciably alter the O&M budget. Other infrastructure, such as pump station improvements, may increase O&M costs as a result of energy consumption when new facilities are constructed. Most improvements are to reconstruct existing facilities, and though annual costs can be hundreds of thousands of dollars, the net change in O&M expense is only significant when new facilities are constructed.

An example of a new facility is the ECC where the Wat6er Bureau's portion of the annual building expense is estimated to be \$300,000 when occupied starting in FY 2013-14.

Administration & Support

The Administration and Support program works to support the other programs in Description

the bureau. Examples of this support include personnel training, data

management, financial planning and accounting, and facilities services. This program is also responsible for meeting many Citywide responsible requirements,

such as those related to budgeting, accounting, and human resources.

Goals This program supports the City goal of protecting and enhancing the natural and

> built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity,

especially providing high quality, affordable public utility services.

Performance PWB will provide a level of support that allows the bureau to maximize the

efficiency and effectiveness of its direct services.

Changes to Services In the FY 2012-13 budget there is funding for studies to guide the selection and and Activities

design of major capital projects for external construction as well as the many

smaller mains constructed by Water Bureau crews to reduce leaks.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	196.03	197.70	201.10	199.10	197.10
Expenditures					
Bureau Support	12,208,962	13,885,844	14,305,514	18,917,243	18,796,420
Data Management	2,643,652	3,009,911	3,023,412	3,006,033	3,006,033
Employee Investment	2,076,250	2,089,378	4,013,920	4,098,657	4,205,085
Facilities	4,356,125	103,806	0	0	0
Planning	(14,528,137)	(13,678,634)	4,469,802	4,933,649	4,925,472
Total Expenditures	6,756,850	5,410,305	25,812,648	30,955,582	30,933,010
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Pct of time bureau maintains Aaa rating for revenue bonds	100%	100%	100%	100%	100%
Debt Service coverage at 1.90 on First Lien Bonds	2.69	2.42	1.90	1.90	1.90
Debt Service coverage at 1.75 on both First and Second Lien Bonds	1.81	1.90	1.75	1.75	1.75
Percent of budgeted CIP expended	105%	94%	100%	100%	100%
Efficiency					
Percent of projects forecast to be completed within three months of planned date	94%	97%	80%	80%	80%

Customer Service

Description

The Customer Service program provides services for customers other than the direct supply of water. It includes customer billing, collection, and call center costs, which are the largest portion of the costs of this program. It also includes work on conservation, security, and grounds maintenance for bureau properties.

Goals

This program supports the City goal of protecting and enhancing the natural and built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity with respect to providing high quality, affordable public utility services.

Performance

The Bureau's measures of program performance include:

- PWB will answer 80% of calls within 60 seconds.
- PWB will respond to 95% of customer inquires or requests within 5 days.
- PWB will maintain a target of 75% of customers giving high or very high ratings on Auditor's Survey.
- Forty percent of customer accounts will be paid electronically.
- Reduce the bureau's carbon emissions from 2007 levels.
- Increase the percent of energy use from new renewable sources from 2007 levels.

Changes to Services and Activities

The major project in this program is the bureau's participation in the City ECC.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	151.05	149.30	145.70	142.70	139.70
Expenditures				•	
Conservation/Sustainability	1,050,268	802,193	929,758	1,022,638	1,022,638
Customer Services	13,834,334	13,324,079	15,053,658	14,955,587	14,672,131
Fountains	780,010	2,910	0	0	0
Grounds/Parks	4,891,098	1,895,915	1,279,277	1,341,194	1,276,286
Security/Emergency Management	2,931,454	2,647,924	3,073,098	9,501,614	9,501,614
Total Expenditures	23,487,164	18,673,021	20,335,791	26,821,033	26,472,669
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Percent of customers giving high or very high ratings on Auditor's Survey	85%	77%	75%	75%	75%
Capacity of new renewable energy sources, kilowatts	279	279	400	400	400

Portland Water Bureau

Public Utilities Service Area

Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Efficiency					
Percent of customer inquiries or requests responded to within five business days	99%	99%	95%	95%	95%
Percent of calls answered within 60 seconds	49%	54%	80%	80%	80%
Percent of customer accounts paid electronically	29%	39%	40%	39%	39%
Bureau's annual carbon emissions, metric tons of CO2e	12,216	9,788	14,008	14,008	14,008

Distribution

Description

The Distribution program is primarily responsible for the conveyance of water from the terminal storage reservoirs through the customer meters. This program includes distribution mains, tanks, meters, services, hydrants, valves, gates, decorative fountains, and drinking fountains. This program is responsible for a wide variety of elements, such as tanks to store water and maintain system pressures, meters to accurately record usage for billing purposes, hydrants for fire protection and for line flushing purposes, and valves to alter or stop water flows under various circumstances such as line breaks or fire needs. A considerable portion of spending in this program is for system maintenance.

Goals

This program supports the City goal of protecting and enhancing the natural and built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity with respect to providing high quality public utility services.

Performance

The program performance metrics include the following:

- No more than 5% of customers will be out of water for more than 8 hours a year.
- No customer will be out of water more than 3 times per year.
- PWB maintains a minimum service pressure of 20 pounds per square inch (psi) during normal demands 99% of the time.
- PWB will meet at least 80% of standards established for inspection, testing, repair and replacement of assets that are identified as medium, high or extreme risk.
- PWB will have more than 90% of flow control valves operate when needed.

Changes to Services and Activities

The major projects in the CIP include the construction of the LRT Transit SE, Water control center SCADA replacement, and Interstate facility rehabilitation.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	227.17	226.00	214.00	212.00	209.00
Expenditures					
Distribution Mains	23,065,625	22,196,230	21,101,447	19,072,941	13,369,727
Field Support	5,572,215	5,826,910	10,958,042	25,562,346	25,296,276
Fountains	267,771	874,943	817,002	818,277	818,277
Hydrants	2,131,123	2,228,521	1,503,343	1,639,758	1,639,758
Meters	3,425,619	3,181,116	3,379,278	3,328,647	3,328,647
Pump Stations/Tanks	9,130,231	11,422,649	10,184,016	14,943,110	15,093,110
Services	6,735,845	6,953,979	5,106,149	5,746,188	5,692,974
Valves/Gates/Regulators	1,056,970	1,339,835	1,144,000	1,287,860	1,287,860
Total Expenditures	51,385,398	54,024,183	54,193,277	72,399,127	66,526,629

Portland Water Bureau

Public Utilities Service Area

Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Customers out of water more than three times per year	1	6	0	0	0
Percent of flow control valves operational when needed	93%	95%	90%	90%	90%
Percent of standards met for high risk assets	81%	83%	80%	80%	80%

Hydroelectric Power

Description

The Hydroelectric Power program provides for the administrative, operational, and regulatory oversight activities as required for the Portland Hydroelectric Project (PHP). Program staff members provide the day-to-day oversight and coordination for the operation of the PHP which includes the control of the levels in the City's Bull Run reservoirs, the withdrawal of water from those reservoirs, and the release of water downstream for compliance with in-stream regulatory flow targets. Additionally, the program coordinates all issues associated with the sales of generated power to PGE, the administration of the PHP's revenue bonds and related trust indenture requirements, and all state and federal regulatory requirements associated with both the PHP and the Mt. Tabor Hydroelectric Project.

Goals

This program supports the City goal of delivering efficient, effective, and accountable municipal services. It also supports the City goal of protecting and enhancing the natural and built environment, particularly with respect to its oversight and coordination of dam safety issues and the ongoing operation of the PHP on the Bull Run River.

Performance

In FY 2010-11, the amount of power generated by the PHP was 121% of its long-term annual average. For FY 2011-12, that generation is projected at 108% of average. During FY 2011-12, this program's staff will have provided all required oversight and support for the two hydroelectric power projects and the seven dams that it now oversees and monitors.

Changes to Services and Activities

In FY 2011-12, Hydroelectric Power transferred \$300,000 in Hydroelectric Power Operating Fund profits to the City's General Fund and in FY 2012-13 that amount is being increased to \$500,000.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	3.00	2.15	3.00	2.25	2.25
Expenditures					
Hydroelectric Power	532,564	556,523	692,954	703,328	703,328
Total Expenditures	532,564	556,523	692,954	703,328	703,328
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
		1 1 2010 11	1 1 2011 12		
Effectiveness		11201011	11201112		
Effectiveness Power Sold to PGE (mwh)	88,854	103,301	91,900	50,400	50,400
			· · · · · ·		

Regulatory Compliance

Description The Regulatory Compliance program has the responsibility for meeting or

exceeding all federal and state water quality requirements. It is also responsible for meeting other regulatory standards, including compliance with the Endangered Species Act, proper disposal of dechlorinated water, and various monitoring

requirements.

Goals This program supports the City goal of protecting and enhancing the natural and

built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity with

respect to providing high quality public utility services.

Performance The bureau will have no violations of state and federal drinking water quality

regulations nor any violations of environmental regulations (including NPDES permit requirements, Clean Water Act requirements, and Endangered Species Act

requirements).

Changes to Services and Activities

FY 2012-13 is the second year of the 50-year federally approved HCP, and includes funding for construction of the Bull Run Dam 2 tower intake structure. The budget includes \$1.5 million for increased treatment monitoring approved by OHA.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	43.00	42.00	42.00	46.00	46.00
Expenditures					
Regulatory Compliance	7,133,173	11,814,873	18,119,270	29,527,491	29,527,491
Total Expenditures	7,133,173	11,814,873	18,119,270	29,527,491	29,527,491
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Number of violations of state or federal drinking water quality standards	1	0	0	0	0
Violations of environmental regulations	0	0	0	0	0

Supply

Description

The provision of water in the quantities desired by customers is a key portion of the mission of the bureau. The Supply program is responsible for providing the water that all customers use in the Portland service area, including both retail and wholesale customers. The program includes both water from the Bull Run watershed and water from the Columbia South Shore wellfield. In total, these systems supply water to a population of nearly 900,000 people and to businesses in the Portland area.

Goals

This program supports the City goal of protecting and enhancing the natural and built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity with respect to providing high quality public utility services.

Performance

The Bull Run watershed provides 95% or more of the City's annual water supply under normal operating conditions.

Changes to Services and Activities

Included in the FY 2012-13 are projects to reduce the vulnerabilities in the Groundwater Pump Station as well as other projects to repair and upgrade groundwater infrastructure.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
FTE	22.00	24.00	25.00	25.00	25.00
Expenditures					
Bull Run Watershed	5,203,216	5,076,534	4,428,460	3,204,527	3,204,527
Groundwater	2,074,237	3,004,980	2,698,024	2,941,575	2,941,575
Total Expenditures	7,277,453	8,081,514	7,126,484	6,146,102	6,146,102
Performance	Actual FY 2009-10	Actual FY 2010-11	Yr End Est. FY 2011-12	Base FY 2012-13	Target FY 2012-13
Effectiveness					
Percent of city's water supply provided by Bull Run Watershed under normal operating conditions	95%	96%	95%	95%	95%

Public Utilities Service Area

Transmission & Terminal Storage

Description The Transmission & Terminal Storage program is for the conveyance of water from

the supply sources to the City, including the terminal storage reservoirs at Powell

Butte, Mt. Tabor, and Washington Park.

Goals This program supports the City goal of protecting and enhancing the natural and

built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity with

respect to providing high quality public utility services.

Performance There will be no simultaneous conduit and/or transmission main outages that

cause disruption of service to customers except in the case of natural vulnerability events that occur less often than once every hundred years or planned maintenance

shutdowns.

Changes to Services and Activities

The FY 2012-13 Adopted Budget includes funding only for the construction of the

Powell Butte Reservoir 2 Reservoir.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
Expenditures					
Conduits/Transmission	14,914,183	3,795,480	1,073,012	959,306	959,306
Terminal Reservoirs	13,836,595	11,373,387	22,620,085	53,431,370	58,931,370
Total Expenditures	28,750,779	15,168,867	23,693,097	54,390,676	59,890,676

Treatment

Description The Treatment program provides for meeting or exceeding the federal and state

requirements for a public water system utilizing an unfiltered surface water source

as well as a groundwater source. This program currently provides for the application of chlorine, ammonia, and sodium hydroxide, and associated

regulatory and process control monitoring.

Goals This program supports the City goal of protecting and enhancing the natural and

built environment, particularly with respect to providing safe drinking water. It also supports the City goal of promoting economic vitality and opportunity,

especially providing high quality, affordable public utility services.

Performance The bureau's target is to have no violations of state and federal drinking water

regulations.

Changes to Services and Activities

The FY 2012-13 budget funds only the design and construction of flow meters at Headworks which will improve the bureau's compliance with other drinking water

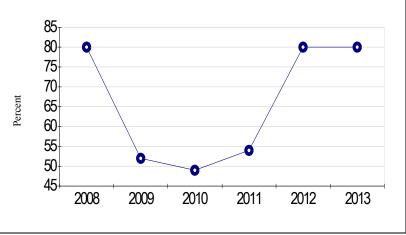
rules related to chemical additions.

FTE & Financials	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
Expenditures					
Water Program Treatment	2,012,211	11,973,337	7,932,567	2,683,294	2,683,294
Total Expenditures	2,012,211	11,973,337	7,932,567	2,683,294	2,683,294

Performance Measures

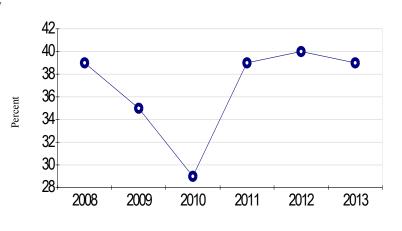
Percent of Calls Answered Within 60 Seconds

The goal of the Call Center is to answer 80% of all calls within 60 seconds.



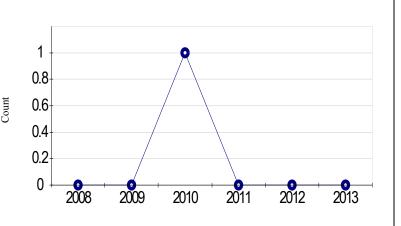
Number of Customer Accounts Paid Electronically

The bureau's goal is to receive 40% of all payments electronically.



Number of Violations of State or Federal Drinking Water Quality Standards

The bureau's goal is to have zero violations per year.



	Actual FY 2009-10	Actual FY 2010-11	Revised FY 2011-12	Proposed FY 2012-13	Adopted FY 2012-13
Resources					
External Revenues					
Charges for Services	108,920,288	114,682,949	128,336,472	137,825,183	137,347,583
Intergovernmental	943,687	1,493,140	1,719,000	476,000	476,000
Bond & Note	75,794,252	86,534,273	161,251,000	189,350,000	214,085,000
Miscellaneous	5,243,892	5,014,862	5,700,015	5,306,269	5,326,532
Total External Revenues	190,902,119	207,725,224	297,006,487	332,957,452	357,235,115
Internal Revenues					
Fund Transfers - Revenue	108,075,658	125,289,058	188,007,868	209,600,120	209,811,953
Interagency Revenue	3,773,504	3,152,783	3,282,648	3,376,583	3,376,583
Total Internal Revenues	111,849,162	128,441,841	191,290,516	212,976,703	213,188,536
Beginning Fund Balance	90,648,096	114,021,135	147,367,467	88,621,718	88,621,718
Total Resources	\$393,399,377	\$450,188,200	\$635,664,470	\$634,555,873	\$659,045,369
Requirements					
Bureau Expenditures					
Personnel Services	56,808,483	56,469,860	61,346,688	65,137,509	64,698,075
External Materials and Services	27,546,803	18,169,478	21,603,430	26,665,683	26,361,683
Internal Materials and Services	18,727,460	18,528,964	21,475,750	20,130,835	20,130,835
Capital Outlay	24,252,846	32,534,321	53,480,220	111,692,606	111,692,606
Total Bureau Expenditures	127,335,592	125,702,623	157,906,088	223,626,633	222,883,199
Fund Expenditures					
Debt Service	35,663,275	33,517,065	37,288,033	42,653,870	42,777,545
Contingency	0	0	125,943,382	83,841,322	84,277,115
Fund Transfers - Expense	116,379,375	133,633,583	197,836,543	214,811,812	214,915,487
Debt Service Reserves	0	0	31,318,751	32,662,390	34,597,390
Total Fund Expenditures	152,042,650	167,150,648	392,386,709	373,969,394	376,567,537
Ending Fund Balance	114,021,135	157,334,929	85,371,673	36,959,846	59,594,633
Total Requirements	\$393,399,377	\$450,188,200	\$635,664,470	\$634,555,873	\$659,045,369
Programs					
Administration & Support	6,756,850	5,410,305	25,812,648	30,955,582	30,933,010
Customer Service	23,487,164	18,673,021	20,335,791	26,821,033	26,472,669
Distribution	51,385,398	54,024,183	54,193,277	72,399,127	66,526,629
Hydroelectric Power	532,564	556,523	692,954	703,328	703,328
Regulatory Compliance	7,133,173	11,814,873	18,119,270	29,527,491	29,527,491
Supply	7,277,453	8,081,514	7,126,484	6,146,102	6,146,102
Transmission & Terminal Storage	28,750,779	15,168,867	23,693,097	54,390,676	59,890,676
Treatment	2,012,211	11,973,337	7,932,567	2,683,294	2,683,294
Total Programs	127,335,592	\$125,702,623	\$157,906,088	\$223,626,633	\$222,883,199

This table summarizes project expenses by capital programs.

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
Customer Comice								
Customer Service	4 700 075	0	C 100 000	0	0	0	0	C 100 000
Emergency Coordination Center	1,762,975	100,000	6,100,000	0	0	050,000	0	6,100,000
Security and Emergency Management	1,313,000	100,000	0	0	0	250,000	500,000	750,000
Total Customer Service	3,075,975	100,000	6,100,000	0	0	250,000	500,000	6,850,000
Distribution								
Carolina Pump Main Extension	117,407	0	0	0	0	200,000	4,800,000	5,000,000
Control Center SCADA Server Replacement	1,160,866	0	300,000	0	0	0	0	300,000
Distribution Mains	34,408,680	16,945,000	6,360,000	16,075,000	16,375,000	15,875,000	16,775,000	71,460,000
Field Support	10,002,134	6,622,000	4,050,000	3,810,000	3,547,000	3,410,000	3,500,000	18,317,000
Forest Park Low Tank	486,468	0	5,570,000	740,000	0	0	0	6,310,000
Fountains	403,065	150,000	180,000	150,000	150,000	150,000	150,000	780,000
Fulton Pump Station Improvements	931,579	0	1,270,000	6,200,000	2,350,000	0	0	9,820,000
Hydrants	2,196,555	980,000	1,100,000	900,000	900,000	900,000	900,000	4,700,000
Interstate Facility Rehabilitation	983,262	0	16,250,000	10,000,000	19,400,000	0	0	45,650,000
Meters	4,735,143	2,190,000	1,700,000	1,590,000	1,590,000	1,590,000	1,590,000	8,060,000
Portland Heights Pump Main	91,008	0	1,550,000	0	0	0	0	1,550,000
Portland Heights Pump Station Electrical Improvements	231,687	0	1,400,000	0	0	0	0	1,400,000
Portland to Milwaukie Light Rail	354,080	50,000	1,340,000	400,000	0	0	0	1,740,000
Pump Stations and Tanks	6,301,947	4,350,000	420,000	500,000	510,000	480,000	430,000	2,340,000
Services	11,687,018	3,500,000	3,900,000	3,500,000	3,500,000	3,500,000	3,500,000	17,900,000
Willamette River Pipe Crossing	111,062	0	200,000	0	2,600,000	5,000,000	20,000,000	27,800,000
Total Distribution	74,201,961	34,787,000	45,590,000	43,865,000	50,922,000	31,105,000	51,645,000	223,127,000
-								
Regulatory Compliance								
Bull Run Dam 2 Tower	3,945,423	0	20,680,000	3,425,000	200,000	0	0	24,305,000
HCP Alder Creek Fish Passage	35,530	0	250,000	200,000	100,000	50,000	0	600,000
Water Quality and Regulatory Compliance	2,329,254	13,000,000	1,870,000	875,000	1,300,000	8,950,000	2,000,000	14,995,000
Total Regulatory Compliance	6,310,207	13,000,000	22,800,000	4,500,000	1,600,000	9,000,000	2,000,000	39,900,000
Supply								
Bull Run Watershed	22,493,744	1,500,000	250,000	0	2,250,000	2,500,000	2,750,000	7,750,000
Groundwater	1,865,991	820,000	740,000	300,000	300,000	820,000	820,000	2,980,000
Groundwater Electrical Supply Improvements	28,858	0	40,000	130,000	1,960,000	0	0	2,130,000
Total Supply	24,388,593	2,320,000	1,030,000	430,000	4,510,000	3,320,000	3,570,000	12,860,000
Support								
Planning	2,054,924	1,100,000	1,500,000	1,500,000	1,500,000	2,000,000	2,500,000	9,000,000

This table summarizes project expenses by capital programs.

Bureau Capital Program		Revised	Adopted			Capital Plan		
Project	Prior Years	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	5-Year Total
Transmission/Terminal Storage								
Conduits and Transmission Mains	14,762,503	650,000	190,000	425,000	8,500,000	12,600,000	5,000,000	26,715,000
Kelly Butte Reservoir	0	0	5,050,000	32,000,000	30,000,000	5,500,000	0	72,550,000
Powell Butte Reservoir 2	16,584,652	0	53,000,000	37,600,000	7,700,000	0	0	98,300,000
Sandy Wholesale Connection	106,275	0	60,000	0	0	0	0	60,000
Tabor Reservoir Adjustments	0	0	300,000	4,600,000	350,000	350,000	0	5,600,000
Washington Park	0	0	150,000	5,000,000	4,500,000	12,000,000	16,000,000	37,650,000
Total Transmission/Terminal Storage	31,453,430	650,000	58,750,000	79,625,000	51,050,000	30,450,000	21,000,000	240,875,000
Treatment								
Headworks Flow Meters	0	0	100,000	2,500,000	0	0	0	2,600,000
Total Treatment	0	0	100,000	2,500,000	0	0	0	2,600,000
Total Requirements	141,485,090	51,957,000	135,870,000	132,420,000	109,582,000	76,125,000	81,215,000	535,212,000

		Salary	Range		Revised FY 2011-12		Proposed 2 FY 2012-13		pted 12-13
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000062	Accountant I	38,064	53,123	1.00	53,124	1.00	53,124	1.00	53,124
30000063	Accountant II	49,754	60,798	3.00	171,360	3.00	176,272	3.00	176,272
30000064	Accountant III	54,787	66,893	1.00	66,888	1.00	66,888	1.00	66,888
30000434	Administrative Assistant	45,074	69,451	7.00	467,181	7.00	473,692	7.00	473,692
30000433	Administrative Specialist, Sr	41,974	64,626	4.00	196,378	4.00	201,506	4.00	201,506
30000436	Administrative Supervisor I	54,725	72,925	3.00	210,548	3.00	213,200	3.00	213,200
30000437	Administrative Supervisor II	57,450	76,586	1.00	76,584	1.00	76,584	1.00	76,584
30000203	Applications Analyst II-Generalist	57,450	76,586	1.00	69,152	1.00	71,993	1.00	71,993
30000204	Applications Analyst III-Generalist	63,378	84,635	2.00	169,272	2.00	169,272	2.00	169,272
30000207	Applications Analyst IV-Generalist	66,602	89,107	3.00	225,096	2.25	180,844	2.25	180,844
30000102	Automotive Equip Oper II: Sewer Vacuum	43,347	52,208	1.00	52,212	1.00	52,212	1.00	52,212
30000104	Automotive Equip Oper II: Tractor-Trailr	43,347	52,208	1.00	52,212	1.00	52,212	1.00	52,212
30000101	Automotive Equipment Oper I	40,830	49,483	10.00	494,880	10.00	494,880	10.00	494,880
30001583	Bus Driver	43,347	52,208	1.00	43,344	1.00	43,344	1.00	43,344
30000441	Business Operations Manager	75,109	100,048	1.00	96,711	1.00	100,044	1.00	100,044
30000442	Business Operations Manager, Sr	93,288	130,291	1.00	130,296	1.00	130,296	1.00	130,296
30000440	Business Operations Supervisor	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000449	Business Systems Analyst, Sr	63,378	84,635	3.00	245,544	3.00	247,893	3.00	247,893
30000331	CAD Analyst	61,568	78,645	1.00	78,648	1.00	78,648	1.00	78,648
30000328	CAD Technician I	37,835	50,690	1.00	50,688	1.00	50,688	1.00	50,688
30000329	CAD Technician II	50,690	64,667	5.00	323,340	5.00	323,340	5.00	323,340
30000330	CAD Technician III	61,568	78,645	1.00	67,956	1.00	70,172	1.00	70,172
30000454	Capital Improvmnt Program Planning Supvr	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000399	Capital Project Manager I	61,568	78,645	2.00	157,296	2.00	157,296	2.00	157,296
30000686	Capital Project Manager II	66,602	89,107	2.00	155,712	2.00	155,712	2.00	155,712
30000687	Capital Project Manager III	69,826	93,829	2.00	187,656	2.00	187,656	2.00	187,656
30000110	Carpenter	51,438	55,890	2.00	111,792	2.00	111,792	2.00	111,792
30000493	Community Outreach & Informtn Rep, Sr	60,341	80,475	2.00	156,780	2.00	158,600	2.00	158,600
30000107	Concrete Finisher	51,438	55,890	3.00	167,688	3.00	167,688	3.00	167,688
30000507	Conservation Program Coordinator, Sr	63,378	84,635	1.00	68,664	1.00	71,014	1.00	71,014
30000105	Construction Equipment Operator	43,472	55,515	17.00	943,704	17.00	943,704	17.00	943,704
30000455	Contracts Dev & Review Administrator	66,602	89,107	1.00	88,993	1.00	89,112	1.00	89,112
30000017	Customer Accounts Specialist I	33,800	47,320	46.00	2,068,440	46.00	2,068,440	44.00	2,000,832
30000018	Customer Accounts Specialist II	40,310	51,896	10.00	502,576	10.00	505,232	10.00	505,232
30000445	Customer Service Supervisor	63,378	84,635	7.00	551,100	7.00	559,159	7.00	559,159
30000732	Development Supervisor I	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000577	Economist, Principal	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000635	Electrical/Instrumentation Supervisor	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828
30000116	Electrician	64,376	69,493	6.00	406,728	6.00	411,840	6.00	411,840
30000120	Electrician/Instrument Tech, Apprentice	42,952	69,493	1.00	69,492	1.00	69,492	1.00	69,492
30000685	Engineer, Chief - Water Bureau	102,648	146,952	1.00	146,952	1.00	146,952	1.00	146,952
30000682	Engineer, Principal	93,787	125,070	7.00	858,036	7.00	862,448	7.00	862,448
30000680	Engineer, Sr	81,182	108,243	16.00	1,675,781	16.00	1,701,292	16.00	1,701,292
30000681	Engineer, Supervising	87,277	116,355	5.00	561,962	5.00	572,556	5.00	572,556
30000364	Engineer-Chemical/Environmental	80,954	98,384	1.00	91,087	1.00	95,644	1.00	95,644
30000365	Engineer-Civil	80,954	98,384	15.00	1,441,304	15.00	1,453,288	15.00	1,453,288
30000366	Engineer-Electrical	80,954	98,384	1.00	98,388	1.00	98,388	1.00	98,388
30000358	Engineering Associate, Sr-Civil	69,992	89,232	16.00	1,363,878	16.00	1,386,336	16.00	1,386,336
30000353	Engineering Associate-Civil	57,533	77,106	6.00	379,228	6.00	390,176	6.00	390,176
30000355	Engineering Associate-Mechanical	57,533	77,106	1.00	74,042	1.00	77,112	1.00	77,112
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Public Utilities Service Area

		Salary	Range		Revised FY 2011-12		osed 12-13	Ado _l FY 20	
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000696	Engineering Survey Manager	69,826	93,829	1.00	47,560	1.00	49,508	1.00	49,508
30000325	Engineering Technician II	50,690	64,667	10.00	617,532	10.00	625,038	10.00	625,038
30000326	Engineering Technician III	61,568	78,645	2.00	157,296	2.00	157,296	2.00	157,296
30000662	Environmental Program Coordinator	60,341	80,475	1.00	78,449	1.00	80,472	1.00	80,472
30000663	Environmental Program Manager	66,602	89,107	0.00	0	1.00	89,112	1.00	89,112
30000664	Environmental Program Manager, Sr	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000661	Environmental Program Specialist	54,725	72,925	2.00	118,968	3.00	193,425	3.00	193,425
30000339	Environmental Specialist	61,568	78,645	6.00	443,720	7.00	532,067	7.00	532,067
30000338	Environmental Technician II	50,690	64,667	0.00	0	2.00	129,336	2.00	129,336
30000712	Facilities Services Specialist	54,725	72,925	1.00	54,720	1.00	54,720	1.00	54,720
30000567	Financial Analyst	57,450	76,586	2.00	126,264	2.00	130,520	2.00	130,520
30000566	Financial Analyst, Assistant	45,074	69,451	1.00	69,456	1.00	69,456	1.00	69,456
30000569	Financial Analyst, Principal	75,109	100,048	4.00	400,176	4.00	400,176	4.00	400,176
30000568	Financial Analyst, Sr	63,378	84,635	1.00	74,764	1.00	77,832	1.00	77,832
30000127	General Mechanic	46,696	56,472	2.00	112,944	2.00	112,944	2.00	112,944
30000341	GIS Technician I	37,835	50,690	1.00	50,688	1.00	50,688	1.00	50,688
30000342	GIS Technician II	50,690	64,667	6.00	366,739	6.00	375,114	6.00	375,114
30000343	GIS Technician III	61,568	78,645	2.00	146,604	2.00	148,820	2.00	148,820
30000373	Graphics Designer III	61,568	78,645	1.00	78,648	1.00	78,648	1.00	78,648
30000252	Horticulturist	43,950	53,102	1.00	53,100	1.00	53,100	1.00	53,100
30000657	Hydroelectric Power Project Manager	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000658	Hydroelectric Power Project Mgr, Asst	66,602	89,107	1.00	81,408	1.00	83,910	1.00	83,910
30000114	Industrial Painter	51,438	55,890	3.00	163,236	3.00	163,236	3.00	163,236
30000115	Industrial Painter, Lead	53,976	58,677	1.00	58,680	1.00	58,680	1.00	58,680
30000603	Inf Syst Analyst IV(Supvr)-Gen	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000218	Inf Syst Analyst, Principal-Gen	75,109	100,048	1.00	90,048	1.00	93,425	1.00	93,425
30000607	Inf Syst Mgr-Generalist	80,787	107,557	1.00	80,784	1.00	80,784	1.00	80,784
30000239	Instrument Technician	64,376	69,493	7.00	476,220	7.00	484,314	7.00	484,314
30001408	Instrumentation & Security Systems Supvr	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30001283	Laboratory Analyst II	45,760	60,382	4.00	235,920	4.00	238,450	4.00	238,450
30001284	Laboratory Analytical Specialist	52,166	69,264	2.00	121,428	2.00	127,066	2.00	127,066
30001285	Laboratory Coordinator	54,142	76,398	1.00	54,144	1.00	54,144	1.00	54,144
30000670	Laboratory Manager	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30000644	Maintenance Planner/Scheduler	54,725	72,925	4.00	275,220	4.00	280,516	4.00	280,516
30000073	Maintenance Worker	23,691	28,080	2.00	56,160	2.00	56,160	2.00	56,160
30000451	Management Analyst	57,450	76,586	2.00	136,597	2.00	139,064	2.00	139,064
30000453	Management Analyst, Principal	75,109	100,048	3.00	300,132	3.00	300,132	3.00	300,132
30000452	Management Analyst, Sr	63,378	84,635	2.00	162,252	2.00	164,107	2.00	164,107
30000450	Management Assistant	45,074	69,451	6.00	322,232	6.00	332,478	6.00	332,478
30000693	Mapping & GIS Supervisor	69,826	93,829	1.00	87,642	1.00	91,236	1.00	91,236
30000978	Mapping Data Technician II	61,568	78,645	1.00	74,940	1.00	78,030	1.00	78,030
30000653	Mechanical Systems Supervisor-Water,Sr	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828
30000012	Office Support Specialist II	31,512	43,950	6.00	251,280	6.00	251,280	6.00	251,280
30000013	Office Support Specialist III	40,310	51,896	3.00	144,987	3.00	149,469	3.00	149,469
30000152	Operating Engineer I	46,779	48,984	4.00	189,312	4.00	193,360	4.00	193,360
30000154	Operating Engineer III	49,566	64,064	13.00	832,884	13.00	832,884	13.00	832,884
30000759	Parks Maintenance Supervisor	57,450	76,586	1.00	65,232	1.00	67,912	1.00	67,912
30000081	Parks Technician	42,557	48,381	6.00	284,472	6.00	284,472	5.00	241,920
30000398	Planner, Sr City-Water Resources	61,568	78,645	1.00	78,648	1.00	78,648	1.00	78,648
30000464	Program Coordinator	60,341	80,475	4.00	282,816	4.00	290,167	4.00	290,167

		Salary	Range		Revised FY 2011-12		Proposed FY 2012-13		pted 12-13
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000465	Program Manager	63,378	84,635	2.00	160,812	2.00	163,412	2.00	163,412
30000466	Program Manager, Sr	75,109	100,048	4.00	398,664	4.00	400,050	4.00	400,050
30000463	Program Specialist	54,725	72,925	1.00	72,924	1.00	72,924	1.00	72,924
30000462	Program Specialist, Assistant	45,074	69,451	3.00	166,290	3.00	171,099	3.00	171,099
30000698	Property Acquisition & Services Manager	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000495	Public Information Officer	63,378	84,635	1.00	66,690	1.00	69,426	1.00	69,426
30000691	Public Works Inspection Manager	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000228	Public Works Inspector	56,888	65,000	6.00	390,024	6.00	390,024	6.00	390,024
30000229	Public Works Inspector, Sr	61,693	72,696	3.00	218,088	3.00	218,088	3.00	218,088
30000630	Public Works Supervisor II	57,450	76,586	9.00	653,354	9.00	667,001	9.00	667,001
30000403	Remittance Technician	33,800	47,320	2.00	94,632	1.00	45,516	1.00	45,516
30000350	Right of Way Agent III	61,568	78,645	1.00	75,867	1.00	78,648	1.00	78,648
30000481	Risk Specialist	54,725	72,925	1.00	69,168	1.00	71,056	1.00	71,056
30000486	Safety & Risk Officer II	69,826	93,829	1.00	90,392	1.00	93,065	1.00	93,065
30000488	Security Program Manager	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000645	Security Supervisor	57,450	76,586	2.00	141,314	2.00	146,890	2.00	146,890
30000029	Service Dispatcher	33,800	47,320	2.00	94,632	2.00	94,632	2.00	94,632
30000054	Storekeeper/Acquisition Specialist II	43,139	52,728	3.00	155,064	3.00	158,184	3.00	158,184
30000056	Storekeeper/Acquisition Specialist III	48,714	60,570	1.00	60,576	1.00	60,576	1.00	60,576
30000468	Stores System Supervisor II	57,450	76,586	1.00	76,584	1.00	76,584	1.00	76,584
30000224	Surveying Aide II	41,974	46,530	2.00	88,512	2.00	91,470	2.00	91,470
30000695	Surveying Supvr/Water Rights Examiner	66,602	89,107	1.00	88,464	1.00	89,112	1.00	89,112
30000225	Surveyor I	47,944	59,592	2.00	119,184	2.00	119,184	2.00	119,184
30000226	Surveyor II	55,682	63,794	1.00	63,792	1.00	63,792	1.00	63,792
30001558	Timekeeping Specialist	33,862	47,258	3.00	114,984	3.00	119,718	3.00	119,718
30000531	Training & Development Analyst	57,450	76,586	2.00	137,037	1.00	60,967	1.00	60,967
30000532	Training & Development Officer	63,378	84,635	1.00	63,372	1.00	65,542	1.00	65,542
30001037	Utility Locator	47,112	50,690	6.00	302,768	6.00	304,128	6.00	304,128
30000076	Utility Worker I	40,290	43,826	6.00	262,944	6.00	262,944	6.00	262,944
30000077	Utility Worker II	43,826	47,112	37.00	1,743,144	37.00	1,743,144	37.00	1,743,144
30000075	Utility Worker II, Apprentice	32,989	43,576	17.00	560,796	17.00	560,796	12.00	395,856
30000438	Water Administrative Manager	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828
30001534	Water Bureau Emergency Management Mgr	66,602	89,107	1.00	80,660	1.00	83,970	1.00	83,970
30000512	Water Conservation Program Coordinator	60,341	80,475	2.00	148,254	2.00	151,032	2.00	151,032
30000514	Water Conservation Program Manager	66,602	89,107	1.00	89,112	1.00	89,112	1.00	89,112
30000646	Water Consortium Conservation Pg Mgr	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636
30000655	Water Group Manager	93,288	130,291	4.00	520,008	4.00	521,184	4.00	521,184
30000652	Water Maintenance Supervisor, Sr	69,826	93,829	3.00	278,484	3.00	281,234	3.00	281,234
30000133	Water Meter Reader I	36,171	44,595	12.00	508,620	12.00	522,648	12.00	522,648
30000134	Water Meter Reader II	44,325	50,482	1.00	44,328	1.00	44,328	1.00	44,328
30000142	Water Meter Technician I	42,328	51,210	4.00	204,864	4.00	204,864	4.00	204,864
30000143	Water Meter Technician II	53,976	58,677	6.00	352,080	6.00	352,080	6.00	352,080
30000654	Water Operations & Support Manager	86,840	117,686	1.00	112,764	1.00	116,614	1.00	116,614
30000145	Water Operations Mechanic	52,042	58,448	27.00	1,571,228	27.00	1,571,796	27.00	1,571,796
30000144	Water Operations Mechanic, Apprentice	40,310	54,725	10.00	499,909	10.00	518,859	10.00	518,859
30000651	Water Quality Inspection Supervisor	60,341	80,475	1.00	80,472	1.00	80,472	1.00	80,472
30000140	Water Quality Inspector II	49,566	64,064	6.00	384,408	6.00	384,408	6.00	384,408
30000141	Water Quality Inspector III	52,042	67,226	1.00	67,224	1.00	67,224	1.00	67,224
30001034	Water Quality Manager	86,840	117,686	1.00	107,016	1.00	110,310	1.00	110,310
30000647	Water Resource & Urban Affairs Coord	63,378	84,635	1.00	84,636	1.00	84,636	1.00	84,636

		Salary Range			Revised FY 2011-12		osed 12-13	Adopted FY 2012-13	
Class	Title	Minimum	Maximum	No.	Amount	No.	Amount	No.	Amount
30000648	Water Resources Planning Manager	86,840	117,686	1.00	122,160	1.00	122,160	1.00	122,160
30000656	Water Resources Program Manager	66,602	89,107	2.00	182,676	2.00	182,676	2.00	182,676
30000138	Water Security Specialist	43,826	47,112	19.00	883,757	19.00	892,114	19.00	892,114
30000135	Water Service Inspector I	44,325	50,482	8.00	391,560	8.00	393,480	8.00	393,480
30000136	Water Service Inspector II	47,902	54,517	1.00	47,904	1.00	47,904	1.00	47,904
30000650	Water Treatment Operations Supervisor	69,826	93,829	1.00	93,828	1.00	93,828	1.00	93,828
30000147	Water Treatment Operator II	49,566	64,064	10.00	617,528	10.00	628,909	10.00	628,909
30000424	Water Utility Director	129,834	186,056	1.00	186,060	1.00	186,060	1.00	186,060
30000078	Water Utility Worker, Sr	44,512	49,483	1.00	49,488	1.00	49,488	1.00	49,488
30001081	Watershed & Conduit Supvr	69,826	93,829	1.00	91,020	1.00	93,828	1.00	93,828
30000149	Watershed Specialist I	38,438	47,112	4.00	179,772	4.00	179,772	4.00	179,772
30000151	Watershed Specialist II	44,512	49,483	2.00	98,976	2.00	98,976	2.00	98,976
30001308	Watershed Specialist III	53,082	59,509	2.00	119,016	2.00	119,016	2.00	119,016
TOTAL F	ULL-TIME POSITIONS			619.00	39,777,575	621.25	40,357,879	613.25	40,082,779
30000433	Administrative Specialist, Sr	41,974	64,626	0.85	39,060	0.85	40,664	0.85	40,664
30000017	Customer Accounts Specialist I	33,800	47,320	1.50	73,668	1.50	73,668	1.50	73,668
30000365	Engineer-Civil	80,954	98,384	0.50	51,060	0.50	51,060	0.50	51,060
30000451	Management Analyst	57,450	76,586	0.75	45,246	0.75	47,100	0.75	47,100
TOTAL P	ART-TIME POSITIONS			3.60	209,034	3.60	212,492	3.60	212,492
30000110	Carpenter	51,438	55,890	1.00	55,896	0.00	0	0.00	0
30000017	Customer Accounts Specialist I	33,800	47,320	1.20	56,784	1.20	56,784	1.20	56,784
30000324	Engineering Technician I	37,835	50,690	1.00	50,688	0.00	0	0.00	0
30000661	Environmental Program Specialist	54,725	72,925	1.00	54,732	0.00	0	0.00	0
30000453	Management Analyst, Principal	75,109	100,048	1.00	100,044	1.00	100,044	1.00	100,044
30001159	Plumber	56,888	61,838	1.00	61,836	0.00	0	0.00	0
30000463	Program Specialist	54,725	72,925	1.00	54,720	0.00	0	0.00	0
30000462	Program Specialist, Assistant	45,074	69,451	1.00	64,841	0.00	0	0.00	0
TOTAL L	IMITED TERM POSITIONS			8.20	499,541	2.20	156,828	2.20	156,828
GRAND	TOTAL			630.80	40,486,150	627.05	40,727,199	619.05	40,452,099

Public Utilities Service Area

This chart shows decisions and adjustments made during the budget process. The chart begins with an estimate of the bureau's Current Appropriations Level (CAL) requirements.

	Amount				
Action	Ongoing	One-Time	Total Package	FTE	Decision
FY 2012-13	222,063,506	0	222,063,506	624.05	FY 2012-13 Current Appropriation Level (includes Hydroelectric Power)
CAL Adjustments					
	0	0	0	0.00	None
Mayor's Proposed Budget Decisions					
	1,900,000	0	1,900,000	5.00	Water - LT2 variance monitoring
	175,000	0	175,000	0.00	Water - ebill monthly statement marketing
	210,965	0	210,965	0.00	Water - HR/Class and Comp Adjustments
	83,989	0	83,989	0.00	Water - Technical Adjustments
	(489,982)	0	(489,982)	0.00	Water - OMF interagency adjustments
	(3,376)	0	(3,376)	0.00	Hydro - OMF interagency adjustments
	(134,805)	0	(134,805)	0.00	Water - Non-represented merit freeze
	(178,664)	0	(178,664)	(2.00)	Water - Two FTE reduction in Customer Services
Approved Budget Additions and Reducti	ons				
	0	0	0	0.00	None
Adopted Budget Additions and Reductio	ns				
	(439,434)	0	(439,434)	(8.00)	Eliminate 8 vacancies
	(105,000)	0	(105,000)	0.00	Move Loos to BES
	(175,000)	0	(175,000)	0.00	Eliminate ebill monthly statement marketing
	(24,000)	0	(24,000)	0.00	Reduction in Utility License Fee
	819,693	0	819,693	(5.00)	Total FY 2012-13 Decision Packages
			222,883,199	619.05	Total Adopted Budget