# PROPOSED Fiscal Year 2004

# CURRENT EXPENSE BUDGET



MASSACHUSETTS WATER RESOURCES AUTHORITY

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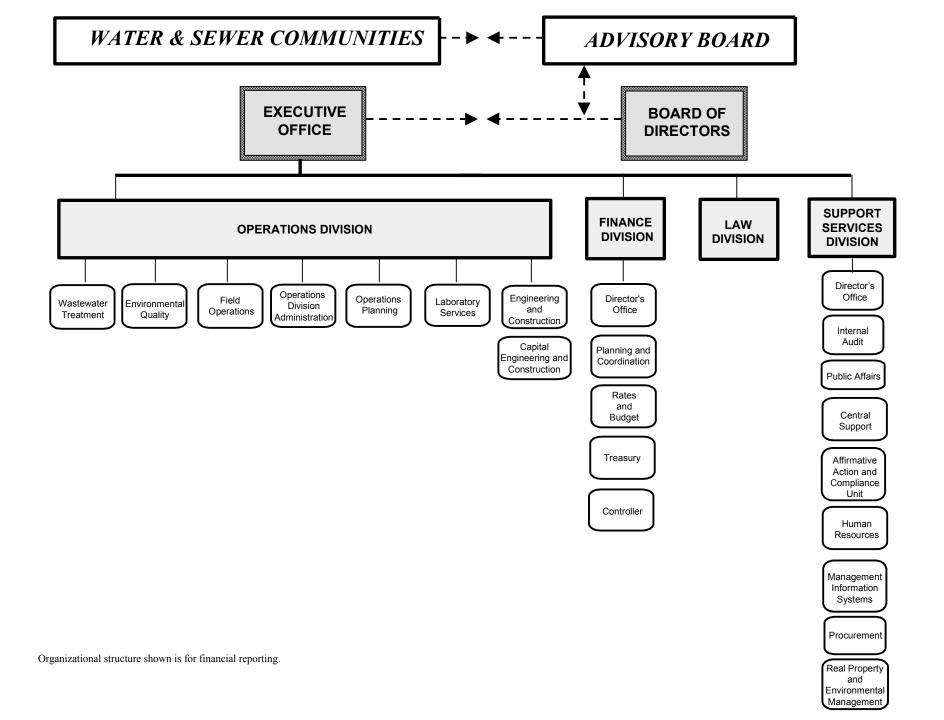
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March 25, 2003

Katherine Haynes Dunphy, Chairwoman MWRA Advisory Board 11 Beacon Street Boston, MA 02108

Dear Chairwoman Dunphy and Advisory Board Members:

This letter transmits to the Advisory Board MWRA's Proposed Current Expense Budget (CEB) for fiscal year 2004. In accordance with the MWRA Enabling Act, the Board of Directors approved transmittal of the proposed budget on March 12, 2003.

As you know, MWRA typically transmits the proposed CEB to the Advisory Board in February. This year, because of the impact of the elimination of Commonwealth debt service assistance in FY03 and the change in administration at the State House, release of the proposed budget was delayed until March.

In an effort to reduce costs and facilitate more timely distribution of information, this document is also available online at www.mwra.com.

Transmittal of the proposed budget marks the beginning of the public process for the FY04 CEB at a time when our customer communities are subject to ever increasing pressures on their limited resources because of the Commonwealth's financial difficulties. As you know, MWRA is well aware of and also subject to these same pressures. Hence we have crafted a fiscally conservative budget that builds on the steps we have already taken to control spending in FY03 and in prior years.

Specifically, the proposed CEB incorporates the staff reductions and other spending decreases implemented earlier this year to address the elimination of debt service assistance. As a result, proposed direct program expenses of \$173.9 million for FY04 are \$6.4 million less than MWRA spent in FY99.

However, because debt service payments to support the capital program (80% of which is mandated by court orders, consent agreements, and regulatory requirements) account for 60% of the overall proposed budget, total expenses and the rate revenue requirement continue to grow.

Consequently, we plan to continue our aggressive efforts to take advantage of opportunities to re-finance and re-structure outstanding debt.

The need to increase rate revenue in FY04 to offset the loss of debt service assistance was eased by the mid-year increase in FY03. As a result, we have been able to limit the proposed rate increase to 3.9%. Given the need to balance our resource needs with the constraints faced by our customer communities, we hope to maintain a pattern of moderate, but steady increases over the next several years.

#### Proposed FY04 CEB Summary

The proposed rate revenue requirement for FY04 is \$435.8 million. As noted above, this constitutes an increase of 3.9% from the final FY03 rate revenue requirement, including the \$15.7 million mid-year supplemental assessment required because of the elimination of debt service assistance. To limit the increase to 3.9% the proposed budget includes the use of \$12.6 million in Rate Stabilization funds and \$20.6 in debt service savings resulting from the debt escrow transaction completed in February.

The proposed CEB includes \$513.5 million in expenses before debt service offsets of \$26.6 million, for a net expense total of \$486.9 million. The debt service offsets include the \$20.6 million in debt escrow savings noted above and \$6 million in variable rate debt savings from FY03. Net expenses of \$486.9 million are offset by an equal amount of revenue, including the \$435.8 million in rate revenue noted above.

Total proposed expenses (before debt service offsets) include \$308.2 million in capital financing costs and \$205.3 million in operating expenses. The total represents an increase of \$6.5 million from the amended FY03 budget; comprised of a \$1.9 million increase in debt service and a \$4.6 million increase in operating expenses.

Proposed operating expenses include \$173.9 for direct expenses and \$31.4 million for indirect expenses. The proposed direct expense budget is an increase of \$3.2 million or 1.9% compared to the amended FY03 budget and a decrease of \$4.3 million or 2.4% compared to FY02 spending. The proposed budget incorporates the decreased staffing levels and other reductions implemented by the Board this year in response to the Commonwealth's elimination of debt service assistance.

Proposed FY04 non-rate revenue totals \$51 million. The non-rate revenue budget includes \$7.7 million in investment income (including swap receipts), \$12.6 million in use of rate stabilization funds, \$10.2 million in other user charges and other revenue, and \$0.6 million in entrance fees.

<sup>&</sup>lt;sup>1</sup> In FY04 the towns of Marlborough and Southborough are becoming part of the MWRA rate revenue base. As result, the proposed rate revenue requirement is \$3.1 million greater than it would have been. In order to provide an accurate based for comparison, FY03 rate revenue has been re-stated to include \$2.8 million in FY03 Other User Charges revenue from Marlborough and Southborough.

#### The Future

MWRA continues to be committed to a multi-year rates management strategy and its mission to provide high quality, cost-effective water and sewer services to its customers. To that end staff continue to work to strengthen the connection between MWRA's mission, goals, and objectives, on the one hand, and the resources needed to achieve them on the other.

We look forward to working with you during the Advisory Board's independent budget review process. The Advisory Board's thoughtful consideration of the proposed CEB is critical to MWRA's effort to effectively balance operational needs and resource constraints, especially at a time when our customer communities are subject to ever increasing pressure on their limited resources.

Sincerely,

Frederick A. Laskey Executive Director

# **Current Expense Budget**

Proposed Fiscal Year 2004

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# The Budget-in-Brief

#### **MWRA Mission**

The Massachusetts Water Resources Authority (MWRA) is an independent authority that provides wholesale water and sewer services to its customer communities, and funds its operations primarily through user assessments and charges. MWRA's mission is to provide reliable, cost-effective, high-quality water and sewer services that protect public health, promote environmental stewardship, maintain customer confidence, and support a prosperous economy. MWRA's long-term business plan emphasizes improvements in service and systems and includes aggressive performance targets for operating the water and wastewater systems and maintaining new and existing facilities.

Parallel to MWRA's goal of carrying out its capital projects and operating programs is its goal of limiting rate increases to its customer communities. The need to achieve and maintain a balance between these two goals continues to be the critical issue facing MWRA.

MWRA measures its performance compared to prior years and current year targets in a variety of areas. Progress in achieving performance targets is reported monthly in the Yellow Notebook and quarterly in the Orange Notebook. Quarterly reports are now available on MWRA's website. MWRA reports on annual progress in reaching performance targets in the division and department sections of the final Current Expense Budget document each year. As a result, this proposed budget document does not include updates on performance measures.

A brief history and organizational summary of MWRA is included at the end of the Executive Summary.

#### Overview

Each year MWRA prepares a proposed budget that reflects the best available information about anticipated expenditures and revenues. Typically, MWRA transmits its proposed budget to its Advisory Board in February. This year, for two reasons, MWRA is releasing the proposed budget in March

First, during the current fiscal year (FY03), the Commonwealth, because of its difficult financial situation, eliminated statewide debt service assistance (DSA). In response, in February the MWRA Board of Directors approved an amendment to the FY03 Current Expense Budget to address the \$47.2 million DSA shortfall. The amendment covered the shortfall through the balanced use of budget reductions, increased use of reserves, and a mid-year rate revenue increase.

Second, MWRA did not want to transmit the proposed budget to the Advisory Board before the new Governor released the proposed state budget for FY04 (House 1). Because of the change in administration, House 1 was not released until late February. Not unexpectedly, House 1 did not restore funding for debt service assistance in FY04.

MWRA's proposed budget for fiscal year 2004 includes \$513.5 million in expenses before debt service offsets of \$26.6 million, for a net expense total of \$486.9. Debt service offsets include \$20.6 million in savings resulting from a debt escrow transaction completed in February and \$6 million in variable rate debt savings rolled forward from FY03.

The proposed rate revenue requirement for FY04 is \$435.8, an increase of 3.9% over the final FY03 rate revenue requirement<sup>1</sup>. To limit the increase to 3.9%

<sup>&</sup>lt;sup>1</sup> In FY04 the towns of Marlborough and Southborough are becoming part of the MWRA rate revenue base, which makes the proposed rate revenue requirement \$3.1 million higher than it would have been. In order to provide an

the proposed budget includes the use of \$12.6 million in Rate Stabilization funds in addition to the \$26.6 million in debt service offsets noted above.

The proposed \$513.5 million expense total (before debt service offsets) is comprised of \$308.2 million in capital financing costs and \$205.3 million in operating expenses, of which \$173.9 is for direct expenses and \$31.4 million is for indirect expenses. The total represents an increase of \$6.5 million from the amended FY03 budget; comprised of a \$1.9 million increase in debt service and a \$4.6 million increase in operating expenses.

Proposed FY04 non-rate revenue totals \$51 million, a decrease of \$5.2 million from the amended FY03 budget. The non-rate revenue budget is comprised of \$27.7 million in investment income, including swap receipts, \$12.6 million in use of rate stabilization funds, \$10.2 million in other user charges and other revenue, and \$0.6 million in entrance fees.

Table I-1 shows MWRA's proposed FY04 budget for revenue and expenses by line item and includes a comparison with the amended FY03 budget. Variations in individual line item changes from FY03 to FY04 are described in the Revenue and Expense section of the Executive Summary and in more detail in the division sections of this document.

### **Proposed FY04 Initiatives and Highlights**

Notable initiatives and highlights proposed for FY04 are summarized below.

 MWRA plans to end FY04 with 1,325 filled positions, despite the addition of 16 new staff to begin preparation for start-up of the Walnut Hill

accurate basis for comparison, FY03 rate revenue has been re-stated to include \$2.8 million in FY03 Other User Charges revenue from Marlborough and Southborough. The re-stated total for FY03 rate revenue is \$419.5 million.

Water Treatment Plant, the MetroWest Water Supply Tunnel, and the wastewater SCADA system.

- 1,325 filled positions at the end of the year is 53 positions less than the overall Black & Veatch target for FY04.
- The proposed budget includes funds to enhance technical training of MWRA staff to ensure that, where possible, existing personnel can staff the new Walnut Hill plant and other new facilities.
- Continued development and implementation of maintenance strategies for optimal protection of assets through the Facilities Asset Management Program, Reliability Centered Maintenance, and Maximo Maintenance Management software.
- The proposed FY04 budget includes \$3.9 million for harbor and outfall monitoring, a reduction of \$0.6 million compared to the amended FY03 budget. This decrease assumes a reduction in spending for some discretionary services and the completion of several research initiatives.

Ргоро	sed FY04 Currer REVENUE AND		get		
	FY02 Actual	FY03 Amended <sup>1</sup>	FY04 Proposed	Chang FY04 to F	
Operating Expenses				\$	%
Direct					
Wages and Salaries	\$ 86,141,497	\$ 80,517,841	\$ 79,896,296	\$ (621,545)	-0.8%
Overtime	4,133,505	3,721,593	3,597,195	(124,398)	-3.3%
Fringe Benefits	10,796,644	11,351,914	12,631,821	1,279,907	11.3%
Workers Compensation	1,363,113	1,836,700	2,100,000	263,300	14.3%
Chemicals	6,403,106	7,437,716	6,795,831	(641,885)	-8.6%
Utilities	16,379,257	15,121,438	16,179,409	1,057,971	7.0%
Maintenance	16,346,220	16,928,497	18,295,580	1,367,083	8.1%
Training & Meetings	305,613	261,631	257,631	(4,000)	-1.5%
Professional Services	7,675,781	7,515,545	6,785,222	(730,323)	-9.7%
Other Materials	4,519,555	3,309,976	4,339,673	1,029,697	31.1%
Other Services	24,144,281	22,710,149	23,032,158	322,009	1.4%
Sub-Total Direct	\$ 178,208,572	\$ 170,713,000	\$ 173,910,816	\$ 3,197,816	1.9%
	1 110,200,012	<b>+ 110,110,000</b>	¥ 110,010,010	<b>+</b> 0,101,010	
Indirect					
Insurance	\$ 1,115,525	\$ 1,190,000	\$ 1,435,000	\$ 245,000	20.6%
Reimbursements	20,481,871	20,110,500	21,027,400	916,900	4.6%
Other	5,085,085	4,628,398	4,818,499	190,101	4.1%
Mitigation	2,838,118	1,495,996	1,400,000	(95,996)	-6.4%
Pension Expense	2,438,145	2,560,052	2,688,055	128,003	5.0%
Sub-Total Indirect	\$ 31,958,744	\$ 29,984,946	\$ 31,368,954	\$ 1,384,008	4.6%
Sub-rotal munect	\$ 51,550,744	\$ 25,504,540	\$ J1,J00,5J4	\$ 1,504,000	4.0 /8
Total Operating Expenses	\$ 210,167,316	\$ 200,697,946	\$ 205,279,770	\$ 4,581,824	2.3%
Debt Service					
Debt Service	\$ 285,415,238	\$ 306,270,225	\$ 308,180,296	\$ 1,910,071	0.6%
Offsets:					
Debt Service Assistance	(50,207,059)	-	-	-	0.0%
Bond Redemption Savings		(14,800,000)	(20,600,000)	(5,800,000)	39.2%
Variable Rate Savings		(16,422,756)	(5,989,000)	10,433,756	-63.5%
Sub-Total Net Debt Service	\$ 235,208,179	\$ 275,047,469	\$ 281,591,296	\$ 6,543,827	2.4%
Total Expenses	\$ 445,375,495	\$ 475,745,415	\$ 486,871,066	\$ 11,125,651	2.3%
Non-Rate Revenue & Income					
Other User Charges	9,931,377	5,873,865	6,222,529	348,664	5.9%
Other Revenue	4,031,977	3,799,480	3,966,109	166,629	4.4%
Swap Receipts		2,500,000	3,171,750	671,750	26.9%
Rate Stabilization	11,599,996	14,216,580	12,570,000	(1,646,580)	-11.6%
Investment Income	34,966,995	29,443,000	24,526,302	(4,916,698)	-16.7%
Entrance Fees	-	432,000	582,000	150,000	34.7%
Sub-Total Non-Rate Revenue & Income	\$ 60,530,345	\$ 56,264,925	\$ 51,038,690	\$ (5,226,235)	-9.3%
RATE REVENUE <sup>2</sup>	\$ 389,518,470	\$ 419,480,490	\$ 435,832,376	\$ 16,351,886	3.9%
Total Revenue	\$ 450,048,815	\$ 475,745,415	\$ 486,871,066	\$ 11,125,651	2.3%
TOTAL REVEILE	# +50,040,013	A 41.011.4014 19	¥ 400,07 1,000	¥ 11,123,031	2.3/0

<sup>&</sup>lt;sup>1</sup> For comparison purposes, the final FY03 CEB (as amended) has been re-stated to be consistent with the proposed FY04 budget. The primary change is to treat the use of Rate Stabilization funds as an addition to revenue and to treat the use of Bond Redemption savings as an offset to debt service expense. In the FY03 CEB amendment the use of both Rate Stabilization funds and Bond Redemption savings were presented as enhancements to revenue partially offsetting the elimination of debt service assistance.

<sup>&</sup>lt;sup>2</sup> In FY04 the towns of Marlborough and Southborough are becoming part of the rate revenue base, which makes the proposed rate revenue requirement \$3.1 million higher than it would have been. In order to provide an accurate basis for comparison, FY03 rate revenue has been re-stated to include \$2.8 million in FY03 Other User Charges revenue from Marlborough and Southborough.

#### **Sources and Uses of Funds**

As shown below, the largest source of funds in the proposed budget is rate revenue from MWRA communities. Proposed FY04 rate revenue accounts for 90% of total revenue. Investment income accounts for 6% of revenue, use of rate stabilization funds totals 3%, and other revenue sources total 2% of the proposed budget.

SOURCES & USES of Funds \$ Millions												
Total Expenses												
before Debt Service Offsets Less:	\$	513.5										
Bond Redemption Savings		(20.6)										
Variable Rate Savings		(6.0)										
Total Net Expenses	\$	486.9										
Sources												
Other User Charges	\$	6.2	1%									
Other Revenue	Ψ	4.6	1%									
Rate Stabilization		12.6	3%									
Investment Income		27.7	6%									
Rate Revenue		435.8	90%									
TOTAL REVENUE	\$	486.9	100%									
Uses												
	_											
Capital Financing	\$	281.6	58%									
Direct Expenses		173.9	36%									
Indirect Expenses		31.4	6%									
TOTAL EXPENSES	\$	486.9	100%									

Capital financing expenses after debt service offsets account for 58% of the proposed budget. Proposed capital financing costs (before debt service offsets) are \$308.2 million, an increase of \$1.9 million or less than 1% compared to the amended FY03 budget. The proposed budget incorporates savings from re-financing transactions completed in August and December of 2002. The proposed debt service budget does not include savings from new debt re-financing because no debt refunding or restructuring

is currently planned for FY04. If MWRA is able to take advantage of unforeseen opportunities during the year, savings will be used to reduce future rate revenue requirements. The proposed capital financing budget for FY04 includes:

- \$288.4 million in principal and interest payments on outstanding MWRA debt and SRF loans.
- \$10.1 million in debt service for two new bond issues to support the capital program (a \$165 million fixed rate issue in November 2003 and a \$150 million variable rate issue in May 2004 or a new SRF issue).
- \$5 million to fund ongoing capital projects with current revenue and to meet coverage requirements.
- \$1.6 million in interest payments related to the Local Water Pipeline Assistance Program.

Annual operating and maintenance expenses account for 36% of the proposed budget. Proposed operating and maintenance expenses increase by \$3.2 million compared to the FY03 amended budget. Significant changes include:

- Fringe Benefits An increase of \$1.3 million from the amended FY03 budget. Premiums for health insurance, which account for more than 80% of the fringe benefits budget, are projected to increase by 15% in FY04.
- *Utilities* The proposed budget includes \$1.3 million (10%) added because of the significant uncertainty about electricity, diesel fuel, and natural gas prices.
- Maintenance Proposed maintenance expenses increase by \$1.4 million from the amended FY03 budget to support maintenance projects identified and planned for FY04. As portions of the Deer Island plant are nearing ten years old,

maintenance expenses are increasing. In Field Operations, increases are attributable to the inclusion of several rehabilitation projects planned for FY04 and additional services to cover upkeep of MWRA facilities in the western service area of the waterworks system.

Other Materials – The proposed budget increases by \$1.1 million because of the need to purchase more replacement vehicles than in recent years. Other than one specialty vehicle, all vehicle replacements in FY03 were deferred. The average age of the fleet is increasing with 50% of the vehicles are now more than 7 years old. The amended FY03 budget includes \$120,000, and MWRA spent \$670,000 in FY02.

The proposed direct expense budget is described further in the Direct Expenses section of the Executive Summary and in the division sections.

Indirect expenses account for the remaining 6% of the proposed budget. Proposed indirect expenses increase by \$1.4 million from the amended FY03 budget. The increase includes \$628,000 for debt service on new purchases of watershed land by MDC, \$240,000 for insurance, \$190,000 for payments on the cross harbor cable, and \$160,000 for Division of Watershed Management operations.

The proposed indirect expense budget is described further in the Indirect Expenses section of the Executive Summary.

# **Revenue and Expenses Summary**

As stated previously, MWRA funds its operations primarily through member community assessments. No funds supporting the current expense budget are subject to appropriation, except minor reimbursements from the Commonwealth. As noted above, the proposed budget does not include any Commonwealth debt service assistance funds, which are subject to appropriation.

MWRA has only one operating fund. All operating fund expenses and revenues are allocated to water and sewer customers. As water and wastewater units have consolidated, MWRA has developed systems to ensure the appropriate allocation of expenses to its wastewater and water service customers.

#### Revenue

MWRA is required by its Enabling Act to balance its budget each year by establishing user assessments for water and sewer services that provide sufficient funds to recover the cost of operations (excluding depreciation), maintenance and improvements, debt service, and reserves. MWRA derives approximately 90% of proposed FY04 revenue from rate revenue.

The remaining 10% of revenue in the proposed budget comes from interest on investments, charges to other water and sewer customers, use of rate stabilization reserve funds, annual charges to sewer system users with permits issued by MWRA, reimbursements from the Commonwealth, penalties assessed to holders of sewer use permits, and other miscellaneous sources.

#### Rate Revenue

Of the \$435.9 million in proposed rate revenue, \$312.1 million would fund the sewerage system and \$123.8 million would fund the water system.

#### **Other User Charges**

Other User Charges consist primarily of revenues derived from the provision of water services under agreements or during community emergencies. In the proposed FY04 CEB payments based on these agreements provide approximately \$5.9 million, compared to \$6.2 million in the FY03 amended budget. Proposed Other User Charges also include approximately \$1.3 million in water revenue to be collected from sewer ratepayers to offset the cost of water used for operation of the Deer Island Treatment Plant. The proposed budget also reflects a \$500,000 appropriation by the Commonwealth for the Town of Clinton to enable the town to pay MWRA for part of the cost of operating and maintaining the Clinton Wastewater Treatment Plant

#### **Permit Fees**

The proposed FY04 budget includes \$1.9 million in fees charged to industries that discharge toxic materials into the MWRA sewer system. These permit fees partially offset the annual costs of permitting, inspecting, and monitoring these industries.

#### **Penalties**

MWRA assesses fines as necessary to enforce its sewer use regulations. MWRA encourages violators to bring sewer discharges into compliance with their permits, and considers penalties and the lengthy adjudication process that follows as a last resort. Because actual income from penalties varies from year to year, MWRA budgets conservatively for this item, including \$250,000 in revenue from penalties in the proposed FY04 CEB.

# Reimbursements from the Commonwealth of Massachusetts

The proposed budget includes \$867,000 from the Commonwealth that MWRA is entitled to receive by statute as reimbursement for the cost of chemicals used in the wastewater treatment process.

#### Miscellaneous Revenue

The proposed FY04 budget includes \$790,000 in miscellaneous revenue MWRA expects to collect from hydropower generation, the sale of surplus equipment, licenses, leases, fuel excise tax refunds, and other sources. Of this total, \$200,000 is from the sale of renewable portfolio credits resulting from the use of digester gas to generate power on Deer Island

Rehabilitation of the turbines at the Cosgrove hydropower generation facility will be completed in FY04. As a result, the proposed FY04 CEB includes \$159,000 from generation, to reflect periods when only one of the two turbines is operating.

#### **Investment Income**

MWRA earns income by investing reserves and fund balances in a variety of interest-yielding securities. The proposed FY04 budget includes \$27.6 million in investment income, including \$3.1 million generated as a result of interest rate swap agreements. Without the swap income, the proposed budget for investment income is \$24.5 million, a decrease of \$4.9 million from the amended FY03 budget primarily because of lower interest rate assumptions for short-term investments and lower estimates of fund balances available to invest.

#### **Rate Stabilization**

In any fiscal year when annual revenues exceed expenses, MWRA transfers the unexpended amount

to the rate stabilization reserve. Within certain limits, MWRA may use this money to reduce the rate revenue requirement in any subsequent year. Consistent with the requirements of its Enabling Act and its general bond resolution, MWRA treats transfers from rate stabilization as revenue in that fiscal year.

The proposed FY04 budget includes the use of \$12.6 million from MWRA's rate stabilization reserve.

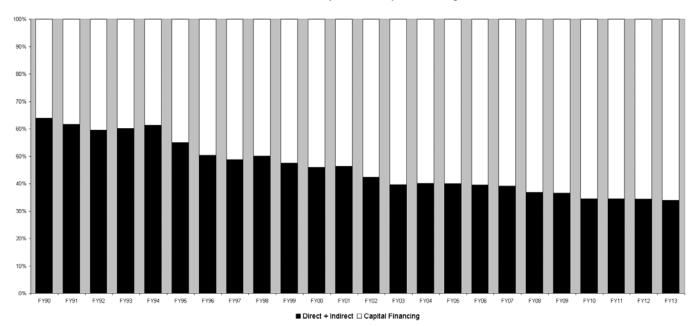
#### **Expenses**

MWRA's annual Current Expense Budget includes operating expenses and debt service. Operating expenses include direct program expenses and indirect or non-program costs. Direct expenses cover all costs which MWRA divisions incur, including personnel expenses, facility operating costs, and support functions. Indirect expenses include payments to the Commonwealth for expenses of the MDC Watershed Management Division and to support watershed land purchases, additions to MWRA's retirement fund, insurance, mitigation costs, and any additions to reserves. The debt service budget includes current debt service payments, debt service for planned new borrowing, and contributions from current revenues to fund capital expenditures. In the proposed FY04 budget, capital financing costs are offset by savings from a debt escrow transaction completed in February 2003 and savings on variable rate debt payments in FY03 because of lower than anticipated interest rates.

As Figure I-2 illustrates, between FY90 and FY04, the share of MWRA expenses devoted to capital financing costs (without debt service offsets) has increased from 36% to 60%. The share devoted to operating expenses has declined from 64% in FY90 to 40% in the proposed FY04 budget. By FY10, based on MWRA's most recent planning estimates, it is expected that the capital financing share will exceed 65% and by FY13 will exceed 68%.

Figure I - 1

#### Direct and Indirect Expenses vs. Capital Financing



FY90-FY02 Actual; FY03 Budget; FY04 Proposed; FY05 - FY13 Planning Estimates For comparison purposes, Capital Financing does not include offsets.

# **Direct Program Expenses**

The proposed FY04 direct program expense budget is \$173.9 million, an increase of \$3.2 million compared to the amended FY03 budget. The increase is the net of \$5.3 million in increases offset by \$2.1 million in decreases. Generally, the proposed budget presents expenses by line item and program. MWRA-wide changes in line items are highlighted briefly in this section. The division sections discuss program budget changes in greater detail.

#### Major increases include:

- Fringe Benefits premiums for health insurance, which account for more than 80% of the fringe benefits budget, are projected to increase by 15% in FY04.
- *Utilities* the proposed budget includes \$1.3 million added because of the significant uncertainty about electricity, diesel fuel, and natural gas prices.
- Maintenance an increase of \$1.4 million supports maintenance projects identified and planned for FY04. As portions of the Deer Island plant are nearing ten years old, maintenance expenses are increasing. In Field Operations, the budget for building and ground materials and custodial services increases by \$1.2 million, as more of this work will now be contracted out as staff are utilized to meet other needs.

#### Major decreases include:

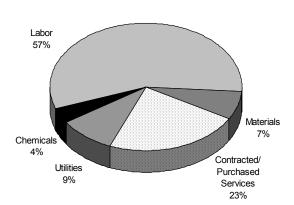
- *Chemicals* a decrease of \$640,000 from the amended FY03 budget. The budgets for hydrogen peroxide and polymer decrease by \$238,000 and \$340,000, respectively.
- *Professional Services* a decrease of \$725,000 from the amended FY03 budget. The decrease

assumes a reduction in spending on outfall monitoring as a result of the elimination of some discretionary services and completion of some studies, and lower security costs because the FY03 budget funded several one-time improvements.

• *Temporary employees and interns* - a decrease of \$570,000 or 57% from the amended FY03 budget, and \$1.1 million or 72% less than FY02 actual spending.

#### **Line Item Budget Summary**

The chart below combines related direct expense line items into general cost categories and shows that labor costs (Wages and Salaries, Overtime, Fringe Benefits, Workers' Compensation and Training and Meetings) are the largest component of the proposed direct expense budget (57%). The second largest cost category is contracted and purchased services (23%), followed by chemicals and utilities (13%), and materials (7%).



Direct Expenses by Category - \$174 Million

Within the labor cost category, the proposed Wages and Salaries budget is includes \$79.9 million for wages and salaries compared to \$80.5 million in the amended FY03 budget and \$86.1 million spent in FY02. Translating the regular pay budget into a number of funded positions is always an imprecise exercise. It must attempt to account for positions that are filled at salaries different

from the most recent incumbent, collective bargaining settlements that may differ from budgeted assumptions, and vacancy rates that vary from estimates. MWRA estimates, subject to these inherent limits on precision, that the regular pay budget of \$79.9 million will support approximately 1,325 filled positions. The proposed regular pay budget reflects several key assumptions:

- MWRA expects to end FY03 with 1,325 filled positions. (The overall Black & Veatch target for the end of FY03 is 1,469.)
- MWRA also expects to end FY04 with 1,325 filled positions, despite the need to add 16 new staff to begin preparation for start-up of the Walnut Hill Treatment Plant, the MetroWest Tunnel, and wastewater SCADA system. (The overall Black & Veatch target for the end of FY04 is 1,378.)
- 1,325 filled positions at the end of the year is 53 positions less than the overall Black & Veatch target for FY04. Moreover, the Black & Veatch target did not consider or include positions for operation of Walnut Hill. In fact, net of the 16 new positions, the projected FY04 year-end total of 1,309 is six positions less than Black & Veatch's overall target of 1,315 for the end of FY05.

Table I-2 shows filled positions by division and department as of February 2003. The number of filled positions at MWRA has declined from a peak of 1,775 in March 1997.

Contracted and purchased services, the second largest direct expense cost category, includes professional, maintenance, and other services. The proposed FY04 budget for contracted and purchased services is \$39.8 million or \$1.7 million more than the FY03 amended budget. The increase is primarily due to increases for specialized equipment services, \$1.4 million, plant and machinery services, \$0.6 million, grounds

Table I-2

Filled Position Summa	ary
February 2003	_
Division	Filled
Department	Positions
BOARD OF DIRECTORS	1
DIRECTOR'S OFFICE	5
Executive Division	6
DIRECTOR'S OFFICE	4
PLANNING & COORDINATION	2
CONTROLLER	22
RATES & BUDGET	8
TREASURY	11
Finance Division	47
OPERATIONS ADMIN	41
ENQUAD	16
RESIDUALS MGT	3
DEER ISLAND	250
CLINTON	7
WASTEWATER OPERATIONS	141
WATER OPERATIONS METRO MAINTENANCE	108 179
OPERATIONS SUPPORT	179 75
FOD ADMINISTRATION	75 19
CAP ENG & CONSTR	24
OPERATIONS PLANNING	33
ENG & CONSTR	69
LAB SERVICES	61
Operations Division	1,026
LAW	23
Law Division	23
DIVISION DIRECTOR	5
INTERNAL AUDIT	8
PUBLIC AFFAIRS	o 19
AFFIRMATIVE ACTION	9
HUMAN RESOURCES	21
MIS	72
CENTRAL SUPPORT	30
PROCUREMENT	51
REAL PROPERTY / ENV MGT	8
Support Services Division	223
TOTAL MWRA	1,325

services, \$0.5 million, and HVAC services, \$0.4 million, offset by a reduction in the proposed budget for professional services (\$0.7 million).

Major components of this cost category include the residuals processing contract, \$10.6 million, lease payments, \$5.8 million, maintenance services, \$10.0 million, harbor and outfall monitoring, \$3.7 million, telephones, \$1.3 million, grit and screenings removal, \$1.0 million, and security, \$1.4 million.

The \$10.6 million proposed budget for residuals processing is a \$260,000 increase, primarily because of uncertainty about utility prices. The \$5.8 million lease expense budget is an increase of \$269,000, primarily for increases in taxes and insurance for MWRA's Chelsea facility and a surrender fee to vacate a portion of a leased building in the Charlestown Navy Yard. The \$3.7 million harbor and outfall monitoring budget is \$600,000 less than the amended FY03 budget, reflecting elimination of some discretionary services. The maintenance services budget of \$10 million increases by \$2.1 compared to the amended FY03 budget primarily due to the changes previously noted.

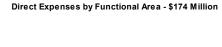
The proposed \$16.2 million utilities budget increases by \$1.1 million, primarily because of the significant uncertainty about electricity, diesel fuel, and natural gas prices. Without the adjustment for price uncertainty, the proposed budget for utilities would be \$244,000 or 2% less than the amended FY03 budget.

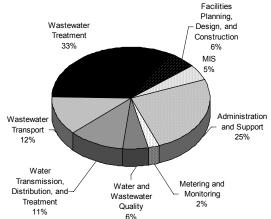
The proposed budget for chemicals decreases by \$640,000 from the amended FY03 budget. The budgets for hydrogen peroxide and polymer decrease by \$238,000 and \$340,000, respectively. The budget for ferrous chloride increases because of its use for struvite control. Nearly 55% of the chemical budget is for the treatment of wastewater, while approximately 45% supports water treatment.

The proposed \$12.7 million budget for materials, which accounts for 7% of the direct expense budget, includes maintenance materials, laboratory equipment, vehicles, and computer hardware items. The proposed FY04 materials budget is \$320,000 more than the FY03 amended budget.

#### **Functional Area Budget Summary**

For a broader perspective, the graph below presents direct expenses by MWRA functional area and shows that 45% of the proposed FY04 direct expense budget is for Wastewater Transport and Treatment costs, compared to 11% for Water Transmission, Treatment, and Distribution.





Appendix A describes each MWRA functional area.

#### **Capital Financing**

The proposed FY04 capital financing budget, before debt service offsets, is \$308.2 million or 60% of the total \$513.5 million budget. Debt service offsets of \$26.6 million result in a net capital financing budget of \$281.6 million. Debt service offsets include \$20.6 million in FY04 savings from a debt escrow transactions completed in February 2003 and \$6 million in savings from FY03 variable rate debt service payments because interest rates were less than expected. If interest rates are less than budgeted in FY04, MWRA will use the savings to reduce rate revenue requirements in future years.

MWRA finances its capital improvement program primarily by issuing fixed rate 30- or 40-year revenue bonds. MWRA has also issued variable rate debt through a tax-exempt commercial paper program and a multi-modal (one, seven, and 35day) borrowing program. As of December 2002, MWRA's revenue bonds outstanding totaled \$4.2 billion, including \$719 million in variable rate debt MWRA also borrows from the Commonwealth's Water Pollution Abatement Trust, also known as the State Revolving Loan (SRF) Fund. As of December 2002 the gross amount of outstanding debt from the SRF was \$663 million. In FY95 MWRA initiated a taxexempt commercial paper program to increase borrowing flexibility and reduce interest costs. As of December 2002, outstanding commercial paper totaled \$347 million

In October 2000 MWRA's credit rating was upgraded by Standard & Poor's from A+ to AA and by Moody's Investors Service from A1 to Aa3. The rating agencies cited a number of accomplishments including continued progress in financing construction projects at lower-than-anticipated costs, continued ongoing regulatory compliance, the credit strength of the member communities, and substantial reserves. The Fitch rating, which had been upgraded to AA- in June

2000, was unchanged.

More recently, in February 2003, Fitch affirmed its rating of AA- for MWRA bonds and affirmed the outlook as stable. Fitch's credit review was undertaken in response to the elimination of debt service assistance (DSA) in FY03, which accounted for 10% of MWRA's projected revenues. The bond rating was affirmed in light of the actions taken by MWRA's Board of Director's in response to the DSA elimination.

The proposed FY04 capital financing budget increases by just \$1.9 million or less than 1% compared to the amended FY03 budget, primarily because re-financing transactions completed in August and December of 2002 decrease FY03 debt service payment requirements. The proposed capital financing budget for FY04 includes:

- \$288.4 million in principal and interest payments on outstanding MWRA debt and SRF loans.
- \$10.1 million in debt service for two new bond issues to support the capital program (a \$165 million fixed rate issue in November 2003 and a \$150 million variable rate issue in May 2004 or a new SRF issue).
- \$5 million to fund ongoing capital projects with current revenue and to meet coverage requirements.
- \$1.6 million in interest payments related to the Local Water Pipeline Assistance Program.

The proposed debt service budget does not include savings from future debt re-financing transactions because no debt refunding or restructuring is currently planned for FY04. If MWRA is able to take advantage of unforeseen opportunities during the year, any FY04 savings will be used to reduce rate revenue requirements in future years.

As previously noted, the Commonwealth eliminated debt service assistance in FY03 and it was not restored in the Governor's budget for FY04 released in February. MWRA's proposed FY04 budget and planning estimates assume that debt service assistance is not restored in FY04 or in future years. The Proposed FY04 Current Expense Budget is MWRA's first budget since FY94 that does not include debt service assistance.

The table below illustrates how upgrading the sewerage system has dominated the capital program to date. Seventy-four percent of proposed FY04 capital financing costs (before debt service offsets) is for wastewater improvements. Current and future borrowing increasingly supports improvements to the water system.

Proposed FY04 Current E	xpense	Budget - Cap	ital	Financing Det	ail	
		Total		Water		Sewer
SRF 1						
U n r e f u n d e d	\$	65,554	\$	-	\$	65,554
1999E Pool Sewer		394,274		-		394,274
1999E Pool W ater		581,322		581,322		
1999F		15,978,347		-		15,978,347
2000E Pool Sewer		2,891,984		-		2,891,984
2000E Pool Water		574,633		574,633		-
2001C SRF Water		249,769		249,769		<del>-</del>
2001D SRF Sewer		386,482				386,482
2001D SRF Water		82,300		82,300		
2002H		4,508,925		1,505,535		3,003,390
20021		100,367		1,447		98,921
FY04 New Sewer		-		-		-
FY04 New Water			_		•	-
Sub-Total	\$	25,813,957	\$	2,995,006	\$	22,818,952
MWRA Senior Debt		05.000.005	_	4.000.400		00.040.400
1992A (fixed)	\$	25,209,925	\$	1,260,496	\$	23,949,429
1993C (fixed)		32,854,724		4,106,841		28,747,884
1994A (fixed)		4,025,200		-		4,025,200
1995B (fixed)		16,824,613		-		16,824,613
1996A (fixed)		4,430,770				4,430,770
1997D (fixed)		7,811,419		468,685		7,342,734
1998A (fixed)		12,763,450		4,254,441		8,509,009
1998B Refunding (fixed)		5,017,300		200,692		4,816,608
2000A (fixed)		17,972,158		11,982,038		5,990,120
2002B (fixed)		11,010,531		9,909,478		1,101,053
2002J (fixed)		30,848,400		7,084,840		23,763,560
FY04 New #1 (fixed)		7,915,717		3,957,859		3,957,859
Sub-Total	\$	176,684,207	\$	43,225,369	\$	133,458,838
M W R A Subordinate Debt						
1997A (variable)	\$	4,452,496	\$	<del>-</del>	\$	4,452,496
1997B (variable)		4,452,496		4,452,496		<del>.</del>
1998D Refunding (variable to fixed)		8,381,435		335,257		8,046,178
1999A (variable to fixed)		5,131,770		2,052,708		3,079,062
1999B (variable to fixed)		5,202,923		2,081,169		3,121,754
1999C (variable)		3,800,447		2,280,268		1,520,179
1999D (variable)		3,800,447		2,280,268		1,520,179
2000B Refunding (variable to fixed)		7,566,557		1,059,318		6,507,239
2000C Refunding (variable to fixed)		7,666,557		1,073,318		6,593,239
2000D (fixed to variable)		8,250,000		4,125,000		4,125,000
2001A (variable)		5,861,792		3,927,401		1,934,391
2001B (variable)		3,584,204		3,584,204		-
2002C-G (variable)		25,545,319		3,002,190		22,543,129
FY04 New #2 (variable)		2,168,629		542,157	_	1,626,472
Sub-Total	\$	95,865,072	\$	30,795,755	\$	65,069,317
Total M W R A & SRF Debt Service	\$	298,363,236	\$	77,016,130	\$	221,347,107
W ater Pipeline Commercial Paper	\$	1,600,000	\$	1,600,000	\$	-
Current Revenue/Capital	•	5,000,000	1	1,250,000	·	3,750,000
Capital Lease		3,217,060	I	1,093,800		2,123,259
Sub-Total	\$	9,817,060	\$	3,943,800	\$	5,873,259
Total Capital Financing	\$	308,180,296	\$	80,959,930	\$	227,220,367
(before Debt Service Offsets)						
Bond Redemption Savings		(\$20,600,000)		(\$5,355,592)		(\$15,244,408)
Variable Rate Savings		(\$20,000,000)		(2,353,000)		(3,636,000)
tanasis itate savings		(0,000,000)		(2,000,000)		(0,000,000)
Total Capital Financing	\$	281,591,296	\$	73,251,338	\$	208,339,959
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# **Indirect Expenses**

The proposed FY04 budget includes \$31.4 million for indirect expenses, an increase of \$1.4 or 4.6% compared to the amended FY03 budget, but a decrease of \$600,000 from FY02 spending. The increase includes \$628,000 for debt service on new purchases of watershed land by MDC, \$240,000 for insurance, \$190,000 for payments on the cross harbor cable, and \$160,000 for Division of Watershed Management operations.

#### **Insurance**

MWRA purchases property and casualty insurance from external insurance carriers, and self-insures for the first \$2.5 million of property and general liability loss per occurrence. The proposed FY04 budget includes \$935,000 for premiums and fees and \$500,000 for the projected costs of claims made against the self-insured portion of MWRA coverage. MWRA mitigates the budgetary risk of self-insurance by maintaining an Insurance Reserve, currently funded at \$18 million.

#### Watershed Reimbursement/PILOT

The Enabling Act directs MWRA to pay the Commonwealth of Massachusetts for several statutory obligations: payments in lieu of taxes (PILOT) for Commonwealth-owned land in the watersheds, operating expenses of the Division of Watershed Management (DWM), and DWM's debt service costs for purchases of land around the supply reservoirs to protect the watersheds. The proposed FY04 budget includes \$6.4 million, \$9.4 million, and \$5.3 million respectively for these items. The increase of \$917,000 from the FY03 amended budget is largely comprised of \$628,000 for debt service on land purchases and \$160,000 for estimated DWM operational costs.

#### **Harbor Electric Energy Company (HEECo)**

Harbor Electric Energy Company (HEECo), a subsidiary of NStar, installed the cross harbor power cable and built the power substation to supply electric power for construction and operation of the Deer Island Treatment Plant. MWRA is repaying HEECo's capital investment on a 25-year schedule. The budget includes \$4.8 million for the estimated FY04 payment, comprised of \$4.5 million for capacity charges and \$355,000 for maintenance expenses. While more of the asset has been depreciated, the budget is \$190,000 more than the amended FY03 budget because of lower investment income earned on bond securities held by HEECo, which offset MWRA's costs.

#### Mitigation

MWRA disburses mitigation funds to communities affected by MWRA projects pursuant to MWRA's Statement of Mitigation Principles and/or specific agreements with communities. MWRA mitigation may include ameliorating direct construction environmental/regulatory meeting impacts, requirements, long-term operating agreements, or community compensation for impacts over and above those addressed by other mitigation. In rare situations, where the extent and duration of the impact of a project on a community is such that restoring the area to its pre-project state is insufficient to relieve the stress of MWRA's presence during the project, MWRA funds or contributes to improvements to affected areas.

Some mitigation is funded in the capital budget, while other mitigation is funded in the current expense budget. The proposed FY04 CEB includes \$1.4 million for community compensation for impacts. The proposed budget includes funds for the Town of the Winthrop, based on MWRA's Memorandum of Agreement with the town, as well as funds for the City of Quincy. Although many of MWRA's obligations under a 1988 Memorandum

of Understanding (MOU) with Quincy have terminated, and agreement on a successor MOU has not been reached, some obligations remain. MWRA pays Quincy \$250,000 annually, subject to inflation, for fire protection services for the FRSA, an obligation that will continue until MWRA ceases all residuals activities at the FRSA, establishes its own fire protection services, or the 1988 MOU is superceded.

#### **Retirement System Contribution**

MWRA has included \$2.7 million in the proposed FY04 budget for an addition to its Retirement Fund, commensurate with the goal to maintain a fully funded retirement system for employees, including approved cost-of-living increases. The Retirement System budget includes funds for the expenses of the Retirement Board. The \$2.7 million addition to the retirement fund is based on a recommendation from the Retirement Board that reflects an actuarial report completed after the early retirement incentive program offered in FY02.

#### Uncertainties

The proposed FY04 budget reflects the following assumptions that may result in spending that is different from budget:

• Utilities – Since November 2001, MWRA has purchased power for Deer Island through a competitive purchase agreement. The agreement provides for approximately two-thirds of power requirements at a fixed price. The balance is purchased at market rates that can fluctuate from month-to-month. The agreement expires at the end of March 2003. MWRA recently opened bids on a successor agreement, but rejected all bids and will return to "default service" while options to ensure a favorable contract structure for the future are considered. Prices for other utilities, such as diesel fuel and natural gas, may also change

- between now and June. MWRA continues to monitor the utilities market and will reevaluate pricing assumptions this spring.
- Interest Rates Changes in interest rates affect MWRA earnings on short-term investments, MWRA debt service payments on variable rate debt, and swap receipts. In FY04 a 1% difference between assumed and actual rates will change investment income by ± \$3 million, variable rate debt service payments by ± \$7 million, and swap receipts by ± \$1.5 million.
- Security The risk of war in the Middle East and other world events may present the need for new security measures to protect MWRA facilities

# **Community Profile and Assessments**

MWRA provides wholesale water and sewer services to 61 communities. Forty-seven communities purchase water supply services, and 45 communities purchase wastewater transport and treatment services. Thirty-one communities purchase both. Approximately 2.5 million people, or 43% of the population of Massachusetts, live and work in the communities that purchase water and/or wastewater services from MWRA

MWRA's largest single customer is the Boston Water and Sewer Commission (BWSC), which provides retail services in the City of Boston. In the proposed FY04 CEB, rate revenue from BWSC accounts for 31% of MWRA's total rate revenue. Table I-3, on page I-19, lists MWRA communities, the services received and preliminary MWRA assessments for FY04.

Each year MWRA determines preliminary wholesale water and sewer assessments in February and final assessments in June before the beginning of the new fiscal year. These assessments must satisfy the statutory requirement that MWRA fully recover its budgeted water and sewer costs by apportioning net costs among its wholesale water and sewer customers.

Table I-4 presents the calculation of MWRA's preliminary FY04 rate revenue requirement. The tables show that most of MWRA's current expenses are directly attributable to either water or sewer service costs, or to investment in the water or sewer systems. Expenses that support both systems are allocated to water or sewer assessments based on generally accepted cost principles. The allocation allocation methodology used in preparing the proposed FY04 budget was revised prior to FY02 to more accurately estimate the division of support costs between the water and sewer programs. Investment income and other revenue offset

water and sewer expenses. The resulting net cost of water and sewer services is the amount MWRA recovers through water and sewer assessments.

# Wholesale Assessment Methodology

MWRA calculates separate user assessments for water and sewer services. Budgeted water operating and capital costs are allocated based on each community's share of total water use for the most recent calendar year. The sewer assessment methodology allocates budgeted operating and maintenance costs based on share of wastewater flow and strength parameters, and capital costs based on proportion of flow, strength, and population. Beginning in FY02, MWRA started using three-year averaging of wastewater flows to calculate the flow-related components of wholesale sewer assessments. This averaging moderates year-to-year swings in individual community assessments.

#### **Retail Charges**

As noted above, MWRA provides water and sewer services to communities on a wholesale basis. Each community then re-sells services on a retail basis. As a result, household water and sewer charges include each household's share of the community's MWRA water and sewer assessments, plus the community's own charges for the provision of local water and sewer services.

Each community independently establishes retail rates. When establishing local rates, community officials consider issues related to the pricing of services, level of cost recovery, and the local rate structure or methodology. Several factors contribute to a broad range of local rate structures in the MWRA service area:

• Differences in the extent to which water and sewer costs are supported through property taxes and other sources of revenue.

- Differences in the means by which communities finance investments in their own water and sewer systems.
- Differences in communities' retail rate methodologies.

Some communities have flat unit rates, while others have inclining block rates. Local rates may also provide for differentials among classes of users, such as higher rates for commercial or industrial users, abatements to low-income or elderly residents, and adjusted sewer rates for customers with second meters used for lawn irrigation.

TABLE I-4
Calculation of the Preliminary FY04 Rate Revenue Requirement (\$000s)

ζ.	Sewer	Water	Total
Expenses			
Operations and Maintenance Costs:			
Direct Sewer and Water Expenses	\$72,067	\$36,430	\$108,497
PLUS			
Other Costs:			
Allocated Direct Expenses	\$55,675	\$9,738	\$65,413
Allocated Indirect Expenses	9,074	22,295	31,369
PLUS			
Capital Costs:			
Debt Service (Less: Debt Offsets)	\$204,590	\$72,001	\$276,591
Current Revenue/Capital	3,750	1,250	5,000
LESS			
Non-Rate Revenue:			
Investment Income	(\$18,282)	(\$6,245)	(\$24,527)
Fees and Other Revenue	(5,524)	(8,421)	(13,945)
Non-Recurring Revenue	(9,302)	(3,268)	(12,570)
EQUALS			
Rate Revenue Requirement	\$312,048	\$123,780	\$435,828

#### MWRA Preliminary FY04 Water and Sewer Assessments

			WATE			SEWE		COMBINED			
Combined Water ar	nd Sewer Customers	F	Preliminary FY04	% Change from FY03	P	reliminary FY04	% Change from FY03	F	Preliminary FY04	% Change from FY03	
ARLINGTON		\$	2,585,547	8.8%	\$	5,803,643	2.6%	\$	8,389,190	4.4%	
BELMONT			1,430,721	4.7%		3,567,581	-0.7%		4,998,302	0.8%	
BOSTON			47,749,450	5.7%		88,516,802	5.0%		136,266,252	5.2%	
BROOKLINE			3,615,947	7.9%		9,074,936	0.2%		12,690,883	2.3%	
CHELSEA			2,057,295	10.7%		4,589,504	1.1%		6,646,799	3.9%	
EVERETT			2,850,132	10.8%		5,687,920	2.6%		8,538,052	5.2%	
FRAMINGHAM			4,656,346	5.5%		8,156,357	2.0%		12,812,703	3.3%	
LEXINGTON			3,204,632	14.3%		4,855,103	2.4%		8,059,735	6.8%	
MALDEN			3,437,025	7.1%		8,312,379	5.3%		11,749,404	5.8%	
MEDFORD			3,135,950	5.5%		8,412,270	3.5%		11,548,220	4.0%	
MELROSE			1,707,000	12.4%		3,962,252	4.3%		5,669,252	6.6%	
MILTON NEWTON			1,544,161 5,942,412	7.7% 8.5%		3,920,272 13,872,407	0.2% -1.1%		5,464,433 19,814,819	2.2% 1.6%	
NORWOOD			1,957,247	9.2%		4,750,822	1.2%		6,708,070	3.4%	
QUINCY			5,585,863	8.9%		13,285,162	0.4%		18,871,025	2.8%	
REVERE			2,633,987	10.7%		6,721,102	2.9%		9,355,089	5.0%	
SOMERVILLE			3,890,690	3.3%		10,679,039	1.9%		14,569,729	2.3%	
STONEHAM			2,117,184	8.6%		3,393,321	-1.6%		5,510,505	2.1%	
WALTHAM			4,582,457	12.4%		9,411,352	1.6%		13,993,810	4.9%	
WATERTOWN			1,812,186	7.8%		4,297,740	0.6%		6,109,926	2.6%	
WINTHROP	TOTAL		911,120 <b>107,407,348</b>	10.4% <b>7.3</b> %	æ	2,217,766	3.3% <b>2.9</b> %	¢	3,128,886 <b>330,895,081</b>	5.3% <b>4.3</b> %	
	TOTAL		107,407,340	1.3%	3	223,487,732	2.970	3	330,093,001	4.370	
MWRA Sewer and F	Partial Water Customers										
CANTON		\$	1,237,559	6.3%	\$	2,898,443	0.8%	\$	4,136,003	2.4%	
NEEDHAM			1,065,819	46.0%		4,693,488	0.3%		5,759,307	6.5%	
STOUGHTON			266,016	100.0%		3,204,398	0.1%		3,470,414	8.4%	
WAKEFIELD			1,200,646 234.211	0.4%		4,240,917	1.9%		5,441,563	1.5%	
WELLESLEY WINCHESTER			234,211 812,590	-49.4% 37.3%		3,809,713 2,953,247	2.0% 3.2%		4,043,924 3,765,837	-3.7% 9.1%	
WOBURN			1,617,494	-18.5%		7,498,034	1.7%		9,115,528	-2.6%	
***************************************	TOTAL	-\$	6,434,335	5.0%	\$	29,298,241	1.4%	\$	35,732,576	2.0%	
MWRA Sewer-only	Customers										
ASHLAND					\$	1,343,550	6.8%	\$	1,343,550	6.8%	
BEDFORD						2,313,373	1.6%		2,313,373	1.6%	
BRAINTREE						5,745,795	2.9%		5,745,795	2.9%	
BURLINGTON						3,315,462	3.6%		3,315,462	3.6%	
CAMBRIDGE						15,895,397	3.1%		15,895,397	3.1%	
DEDHAM						4,172,574	-1.4%		4,172,574	-1.4%	
HINGHAM						1,098,469	1.1%		1,098,469	1.1%	
HOLBROOK						1,076,505	3.1%		1,076,505	3.1%	
NATICK RANDOLPH						3,665,823 3,915,599	2.7% 0.3%		3,665,823 3,915,599	2.7% 0.3%	
READING						2,969,021	3.6%		2,969,021	3.6%	
WALPOLE						2,377,411	-0.5%		2,377,411	-0.5%	
WESTWOOD						1,842,566	1.3%		1,842,566	1.3%	
WEYMOUTH						7,756,352	1.4%		7,756,352	1.4%	
WILMINGTON						1,773,807	3.8%		1,773,807	3.8%	
	TOTAL				\$	59,261,706	2.2%	\$	59,261,706	2.2%	
MWRA Water-only (	Customers										
LYNNFIELD			281,378	10.0%				\$	281,378	10.0%	
MARBLEHEAD			1,195,143	9.4%					1,195,143	9.4%	
NAHANT			221,840	9.8%					221,840	9.8%	
SAUGUS			1,786,974	4.3%					1,786,974	4.3%	
SOUTHBOROUGH 1			542,896	11.5%					542,896	11.5%	
SWAMPSCOTT			1,158,272	7.0%					1,158,272	7.0%	
WESTON		_	1,013,900	8.2%					1,013,900	8.2%	
	TOTAL	\$	6,200,402	7.4%				\$	6,200,402	7.4%	
MWRA Partial Wate	r-only Customers										
LYNN	<u> </u>		177,690	2.6%				\$	177,690	2.6%	
MARLBOROUGH <sup>1</sup>			2,603,416	11.5%					2,603,416	11.5%	
NORTHBOROUGH			140,389	-11.1%					140,389	-11.1%	
			817,116	25.9%					817,116	25.9%	
PEABODY	TOTAL	-\$	3,738,612	12.8%				\$	3,738,612	12.8%	

FY03 charges for Marlborough and Southborough are estimates.

# **Revenue and Expenditure Trends**

Because MWRA is required by its Enabling Act to balance its budget and to establish annual assessments to cover all expenses, revenue must increase in concert with the growth in expenses each year. Member community assessments are the largest source of funds; the amount required in any year is the difference between MWRA expenses and other revenue sources, most notably investment income and previously debt service assistance from the Commonwealth (which directly reduced debt service expense).

MWRA regularly updates its estimates of anticipated revenues and expenses over a multi-year planning horizon. These planning estimates provide a context for budget discussions and a planning tool for MWRA and those affected by its rate revenue requirements and also allows MWRA to consider multiple-year rates management implications and strategies as it evaluates alternative capital and operating budget decisions.

The table below and Appendix E (in more detail), present rate revenue requirements for FY05 through FY13 based on the rate increase for FY04.

spending. However, new water system improvements, for which there are fewer non-ratepayer sources of funding, and the impact of recent financing strategies will increase MWRA capital financing costs over the next several years.

MWRA employs rates management tools where available -- extended maturities on future borrowings, variable rate debt, and increased use of the tax-exempt commercial paper -- to help cushion and smooth the growth in capital financing expenses. Despite these initiatives, the size of the capital program will unavoidably continue to drive increases in community assessments.

The second largest budget growth factor is inflation of base operating costs. The estimated \$38.4 million increase in direct expenses from FY05 to FY13 is primarily the result of an assumed inflation rate of 2.5% annually. In addition, over the next ten years there will be an increase in direct expenses as a result of capital improvement projects. The largest increase will be for operation of new facilities. The Walnut Hill Water Treatment Plant, scheduled to reach full operation by FY05, will have an estimated incremental cost of \$3 million in FY05 and

			ı	Estimates		Rate Revo		uirements			
	FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY										FY14
RATE REVENUE	\$435.8	\$461.8	\$489.6	<b>\$</b> 519.2	<b>\$</b> 575.2	\$598.7	\$651.2	\$674.8	\$701.3	\$724.3	\$731.8
RATE REVENUE INCREASE	3.9%	6.0%	6.0%	6.0%	10.8%	4.1%	8.8%	3.6%	3.9%	3.3%	1.0%

Increasing debt service to finance the Capital Improvement Program is the most important factor driving estimates of future budget increases. Over the past seven years federal grants, SRF loans, Commonwealth debt service assistance, MWRA's tax-exempt commercial paper program, and debt refinancings have mitigated the impact on ratepayers of new capital

FY06. Startup and operation of the Union Park Detention and Treatment facility, the Reserved Channel CSO facility, and associated remote odor control facilities have incremental impacts between FY06 and FY09. Improvements to increase remote monitoring and control of wastewater facilities are expected to result in decreased operating costs in FY06 and FY08.

The anticipated increases and decreases in costs associated with these capital improvements are shown on Page I-24.

MWRA's planning estimates are projections based on a series of assumptions about future spending (operating and capital), interest rates, inflation, and other factors. The assumptions include:

- CIP inflation rate of 2.5%.
- Capital spending based on 85% of the CIP expenditure forecast with 10% (two-thirds of the 15% reduction) added back three years later.
- Long-term fixed rate debt issues with 40-year terms and 6% interest rates.

MWRA uses the planning estimates to present a picture of what future rate increases might be and to test the impact of changes to assumptions. The planning estimates are not predictions of what rate increases will be; rather they provide the context and framework for the policy decisions that actually shape future rate revenue requirements and increases.

The planning estimates generally use conservative assumptions to ensure that MWRA rate increases will not be higher than projected. The use of conservative assumptions also helps communities plan for future payments to MWRA. Historically, MWRA rate increases have been lower than projected as MWRA and the Advisory Board focused on a particular year.

There are several areas where differences from planning estimate assumptions may reduce projected increases, or where MWRA will have opportunities to decrease costs:

- Lower than anticipated borrowing rates or higher than expected investment income rates.
- The planning estimates do not factor in any positive year-end variances.
- More opportunities for SRF borrowing than expected; a dollar borrowed through the SRF at 2% replaces the need to borrow a dollar long-term at an assumed 6%.
- Debt refinancing opportunities.
- Capital spending.
- Operating expenses.

Managing rate increases in the coming years is likely to involve tradeoffs between smaller increases in the upcoming fiscal year and significantly larger increases in subsequent years.

# **Capital Improvement Program**

Each year MWRA prepares a three-year budget and a ten-year plan for capital spending. After review and comment by the Advisory Board, the Board approves the budget, which remains in effect for one year.

In June 2002, the Board of Directors adopted a ten-year CIP spending cap of \$1,832 million for FY03-12, with spending for the first three fiscal years (FY03, FY04, and FY05) capped at \$339 million, \$347 million, and \$271 million, respectively. The ten-year CIP spending cap is reset each year by removing the current fiscal year and adding a new tenth year at \$100 million, plus inflation. Unspent funds from the current year are carried forward. As part of the proposed FY04-FY06 CIP, MWRA calculated a preliminary cap of \$1,657 million for FY04-13. On January 15, 2003, in response to the Commonwealth's elimination of debt service assistance, the Board approved the deferral of \$63.5 million in planned capital spending from FY03-05 to FY06 and beyond. In addition, the Board reduced the CIP spending cap for FY04 from \$347 million to \$263.5 million and for FY05 from \$271 million to \$225.5 million. These changes, together with responses to the Advisory Board's recommendations on the proposed CIP, will be incorporated into the final CIP presented to the Board for approval in June.

MWRA divides the CIP into three program areas: Wastewater, Waterworks, and Business and Operations Support. The Wastewater program area, which includes the Boston Harbor Project (BHP) and Wastewater System Improvement projects such as the Combined Sewer Overflow (CSO) Program, aims to modernize the wastewater collection and treatment system to meet current and future demand.

Waterworks System Improvement projects support MWRA's commitment to provide high

quality drinking water to its customers. MWRA has undertaken an Integrated Water Supply Improvement Program (IWSIP) to ensure that the treatment, transmission, and storage of water meets quality standards and complies with state and federal regulatory requirements. IWSIP includes the construction of the Walnut Hill Treatment Plant, the MetroWest Water Supply Tunnel, and seven covered storage facilities.

The Business and Operations Support program area includes projects with authority-wide benefits, including the new MWRA facility in Chelsea, the Business Systems Plan, and environmental remediation at MWRA sites and facilities.

MWRA's proposed capital budget, including detailed expenditure forecasts and program descriptions, is available online at www.mwra.com.

#### **Proposed FY04-06 CIP**

MWRA undertaken has many capital improvements since 1985. Expenditures on all projects from MWRA's inception through the end of FY03 are \$5.9 billion<sup>2</sup>. As shown on the next page, the total planned capital investment for the ten-year period FY04-13 is \$1.58 billion, including contingency funds. The proposed CIP for FY04-06 includes projected three-year outlays of \$834 million, including contingency funds, for more than 95 projects. The proposed FY04-06 budget is stated in December 2003 dollars.

Total project costs presented in the proposed FY04-06 CIP, which include both past and projected expenditures for active CIP projects, are \$5 billion for BHP and other Wastewater projects; \$2 billion for Waterworks projects; and \$54.2 million for Business and Operations

Proposed FY04 CEB – page I-22

<sup>&</sup>lt;sup>2</sup> Includes approximately \$551 million in completed projects that are no longer included in the CIP budget totals.

	Proposed FY04-06 CIP														
				Summary	•										
	Т	(2 m i	not	ısands)								Total			
											1	10.Year			
		FY04		FY05		FY06	1	FY04-06	F	Y07-13		CIP			
Total MWRA	\$	265,174	\$	249,821	\$	256,888	\$	771,883	\$	671,172	\$ '	1,443,055			
S.99601 Boston Harbor Project	\$	110	\$	123	\$	-	\$	233	3 \$ - \$ 233						
S.99201 Wastewater System Improvements	\$	122,128	\$	120,139	\$	145,734	\$	388,001	\$	429,364	\$	817,365			
S.10 Interception & Pumping		42,038		43,618		33,982		119,638		126,553		246,191			
S.25 Treatment		14,236		16,937		14,558		45,731		78,617		124,348			
S.12 Residuals					-		-		-						
S.13 CSO		60,537		55,032		94,981	210,55	210,550		229,979		440,529			
S.14 Other		5,317		4,552		2,212		12,081		(5,785)		6,296			
S.99301 Waterworks System Improvements	\$	133,033	\$	123,888	\$	108,054	\$	364,975	\$	241,808	\$	606,783			
S.16 Drinking Water Quality Improvements		65,923		49,056		23,999		138,978		17,102		156,080			
S.17 Transmission		13,086		18,206		10,830		42,122		38,320		80,442			
S.18 Distribution And Pumping		35,502		39,494		58,599		133,595		199,991		333,586			
S.19 Other		18,522		17,131		14,626		50,279		(13,605)		36,674			
S.99801 Business & Operations Support	\$	9,903	\$	5,671	\$	3,100	\$	18,674	\$	-	\$	18,674			
Contingency		21,071		19,972		22,229		63,272		74,293		137,565			
Total MWRA with Contingency	\$	286,245	\$	269,793	\$	279,117	\$	835,155	\$	745,465	\$ '	1,580,620			

Support projects. The proposed CIP also includes \$138 million in contingency budget funds for the next ten years.

MWRA capital spending has been driven by a small number of large projects. Peak spending for the Boston Harbor Project occurred in FY94 and for the MetroWest Water Supply Tunnel in FY99. Peak spending for the Walnut Hill Water Treatment Plant is expected in FY02, and for CSOs in FY06.

Capital spending will continue to decrease as the key components of the Integrated Water Supply Improvement Program and elements of the CSO Program are completed and in place to serve the long-term needs of the service area.

These decreases do not translate into reduced rate revenue requirements, however, because federal grants, SRF borrowing, and Commonwealth debt service assistance have heavily supported BHP spending. In addition, MWRA has used a variety of financing techniques to delay some of the impacts of capital spending to date. MWRA does not anticipate the availability of debt service assistance in the foreseeable future.

# **Capital Financing and Grant Revenues**

MWRA has used two primary sources of funds to finance its capital program: proceeds from borrowing and grant funds. Borrowing includes the issuance of fixed and variable rate revenue bonds, borrowing from the Commonwealth's Water Pollution Abatement Trust (also known as the State Revolving Loan Fund or SRF), and a tax-exempt commercial paper program.

In the past, federal and state grant receipts have been a significant source of funds, totaling an estimated \$1.1 billion through September 2001 or 20% of spending for the period. Grant receipts of \$6 million and \$4 million in FY02 and FY03 amount to less than 1% of budgeted spending for the two years. After netting out grant revenue, MWRA expects to finance \$722 million in capital projects through long-term debt, SRF loans, and commercial paper over the next three fiscal years.

# **CIP Impact on the Current Expense Budget**

In addition to the annual financing costs included in the Current Expense Budget, the Capital Improvement Program affects the annual operating budget when capital facilities come online and require adjustments to operating budgets. In prior years, completion of the Deer Island Treatment Plant and the residuals processing facility in Quincy resulted in significant increases in operating expenses. The largest future increase results from beginning operation of the new Walnut Hill Water Treatment Plant in FY05. Other increases result from the cost of operating CSO facilities beginning in FY06 and again in FY08 and FY09. Startup of the Braintree-Weymouth Relief Facilities results in anticipated decreases starting in FY05 through FY09. Projects to automate central monitoring wastewater result anticipated decreases in FY06 through FY09. Initial central monitoring costs in FY05 offset decreases from startup of the Braintree-Weymouth Facilities.

The table below summarizes, by program area, the estimated incremental costs and savings in MWRA's Current Expense Budget from FY05 through FY13 as a result of the capital program.

	Incremental Costs and Savings from CIP Projects															
		FY05		FY06		FY07		FY08		FY09		FY10	FY11	FY12		FY13
Wastewater	\$	141,358	\$	316,988	\$	(385,833)	\$	(2,295,847)	\$	1,043,294	\$	(80,155)	\$ 49,156	\$ (50,844)	\$	-
Waterworks		3,103,482		2,999,587		-		-		-		-	-	-		-
Business &		-		-		-		-		-		-	-	-		-
Operations Support																
TOTAL	\$	3,244,840	\$	3,316,575	\$	(385,833)	\$	(2,295,847)	\$	1,043,294	\$	(80,155)	\$ 49,156	\$ (50,844)	\$	_

# **MWRA Organization and History**

#### The MWRA Enabling Act

MWRA was created by legislative act in 1984, and inherited the Sewerage and Waterworks Divisions ofthe Commonwealth Massachusetts Metropolitan District In July 1985, MWRA Commission (MDC). assumed control of the water and sewer systems, including facilities, properties, and the right to utilize water withdrawn from system reservoirs. The Commonwealth, under the management of the MDC Watershed Management Division, retained ownership of real property, including the reservoirs and watersheds.

In 1987, the legislature transferred responsibility to operate and maintain the Clinton Wastewater Treatment Plant from the Commonwealth to MWRA. The Enabling Act also established the MWRA Advisory Board to represent the cities and towns in the service area. The Advisory Board appoints three members of the MWRA Board of Directors, approves the extension of and sewer services to additional water and communities and reviews makes recommendations on MWRA's annual Current Expense Budget and Capital Improvement Program.

#### **History and Accomplishments**

In 1985, the U.S. District Court for Massachusetts found MDC in violation of numerous aspects of the federal Clean Water Act, and the responsibility for those violations passed to MWRA as successor to MDC. The court issued a detailed compliance schedule for actions to be taken by MWRA to achieve and maintain compliance with the Clean Water Act.

MWRA has achieved all of the milestones in the schedule related to the construction of treatment facilities on Deer Island, and is working to

achieve milestones with respect to implementation of its long term CSO control plan. These achievements have made noticeable, measurable improvements in the quality of Boston Harbor and its beaches.

MWRA is also working to achieve compliance with an extensive consent order issued by the Massachusetts Department of Environmental Protection (DEP) mandating the steps necessary to achieve required improvements to the MWRA water system.

Since taking over operation and maintenance of the water and sewer systems from MDC, MWRA has increased annual investment in the system infrastructure from an average of \$11 million per year to an average of more than \$438 million per year over the last twelve years (FY91 to FY02). This investment has greatly improved the operating efficiency of the existing water and sewer systems, protecting fresh water sources and improving the water quality in Boston Harbor

#### **MWRA Rates Management**

Between FY96 and FY02 MWRA limited rate revenue increases to an average of 3.6% annually as a result of debt service assistance from the Commonwealth, federal grants to support the Boston Harbor Project, lower borrowing costs, use of financing tools that delayed costs to later years, a favorable bid climate for construction projects, and aggressive efforts to control capital and operating costs. In the planning estimates included with the proposed CEB the rate revenue requirement increases by 6.0% annually for the next three years.

With the prospect of higher rate increases in the future, MWRA must ensure that its operating and capital costs are kept to a minimum, and that every dollar adds to the value of water and sewer

services. MWRA has taken several steps toward this end

- First, MWRA works to limit increases in ongoing operating costs. The proposed FY03 direct expense budget is \$6.4 million less than FY99 spending.
- Second, MWRA uses a variety of financing tools including variable rate debt, tax-exempt commercial paper, interest rate swaps, refundings, and tender offers to take advantage of particular market conditions, and appropriate maturity schedules to reduce annual debt service costs.
- Third, MWRA continues to aggressively seek additional SRF assistance.
- Fourth, MWRA will use rate stabilization funds in FY04 and beyond in the context of its longer-term rate smoothing strategy.
- Fifth, MWRA will seek to maximize savings in the deregulated electricity market, and will continue to explore reorganization opportunities.
- Finally, MWRA is working to reduce labor costs wherever appropriate. The proposed FY04 budget includes funding for 1,325 filled positions by June 30, 2004 compared to 1,517 positions filled as of January 2002.

In addition to carefully managing operating costs, MWRA will continue to explore additional financing strategies to manage assessment increases in a fiscally responsible manner.

#### **MWRA Organization**

MWRA has five divisions. Each division provides operations or support services to carry out MWRA's activities under the direction of the Executive Office. The frontispiece of this

document presents MWRA's organizational structure

The **Executive Office** provides centralized MWRA management, direction, and policy development. The budget includes funds for the Office of the Executive Director, the Board of Directors, the Advisory Board, and other advisory committees.

The **Operations Division** operates the water and wastewater treatment systems; the water transmission and distribution system; the wastewater collection, transport, and combined sewer overflow (CSO) systems; and the residuals processing facility. It also provides laboratory and engineering and construction services; enforces sewer use regulations and seeks to limit the discharges of toxic materials; manages environmental studies of Boston Harbor and Massachusetts Bay; and monitors water quality. In addition, it provides for long-term planning of the water and wastewater facilities and systems.

The **Finance Division** is responsible for budgeting, rate setting, accounting, grants management, and treasury activities; securing financing to support the capital improvement program; and coordinating strategic planning and performance measurement activities throughout MWRA.

The **Law Division** provides legal counsel to all divisions on environmental law, real estate transactions, litigation, and compliance with developing policy standards. The division represents MWRA in all court-related matters.

The **Support Services Division** provides support functions across MWRA. Support Services oversees the central functions of communications and community relations, real property and environmental management, human resources, affirmative action, procurement, internal audit, vehicle maintenance, computer system development and management, facilities and

office supplies management, the library and records management, and mail services. The division also manages the Fore River Staging Area in Quincy and MWRA's Chelsea Facility.

# **Statement of Financial Position**

In accordance with its Enabling Act, each year MWRA submits annual reports to the Governor, the President of the State Senate, the House of Representatives, the Advisory Board, and the Chairs of the state Senate and House Committees on Ways and Means containing financial statements relating to its operations maintained accordance with Generally Acceptable Accounting Principles (GAAP) commencing with the annual reports for 1986, audited by independent certified public MWRA's audited financial accountants. statements at June 30, 2002 and 2001, and for the fiscal years ended June 30, 2002 and 2001 are available online at www.mwra.com.



#### **EXECUTIVE OFFICE**

	PROPOSED FY04 Current Expense Budget  EXECUTIVE DIVISION by Line Item													
		FY01		FY02		FY03		FY04		Change				
LINE ITEM Actual Actual Amended Proposed FY04 to FY03														
WAGES & SALARIES	\$	794,104	\$	790,525	\$	503,482	\$	503,071	\$	(411)	-0.1%			
OVERTIME		57		82		-		-		-	0.0%			
TRAINING & MEETINGS		14,220		2,993		6,842		4,075		(2,767)	-40.4%			
PROFESSIONAL SERVICES		379,151		286,188		162,225		162,225		-	0.0%			
OTHER MATERIALS		3,169		4,567		3,933		1,785		(2,148)	-54.6%			
OTHER SERVICES		441,066		455,103		460,562		464,867		4,305	0.9%			
TOTAL	\$	1,631,767	\$	1,539,458	\$	1,137,045	\$	1,136,023	\$	(1,022)	-0.1%			

		Y04 Current E DIVISION I	pense Budge Department	et			
	FY01	FY02	FY03		FY04	Change	
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to FY0	)3
EXECUTIVE OFFICE / BOARD OF DIRECTORS	\$ 1,065,845	\$ 942,672	\$ 521,053	\$	513,226	\$ (7,827)	-1.5%
ADVISORY BOARD / OTHER COMMITTEES	565,922	596,787	615,991		622,797	6,806	1.1%
TOTAL	\$ 1,631,767	\$ 1,539,459	\$ 1,137,044	\$	1,136,023	\$ (1,021)	-0.1%

The Executive Office provides executive management and guides the implementation of MWRA policies established by the Board of Directors. It is responsible for developing and implementing specific goals and programs to achieve MWRA's primary mission of providing reliable and efficient water and sewer services, improving water quality, and for creating a framework within which all divisions can operate effectively. The Executive Office is also implementing a centralized MWRA-wide security program to preserve and protect MWRA facilities and systems and MWRA employees. The Executive Office guides implementation of MWRA's Business Plan and ensures that all initiatives are in concert with MWRA's overall mission.

# Executive Office goals are to:

- Ensure delivery of reliable and cost-effective water and sewer services to customer communities.
- Ensure that water supply and wastewater collection and treatment preserve public health and protect natural resources.
- Foster regional economic development through the maintenance and upgrading of the area's water and sewer systems.

The Executive Office budget supports the Executive Director's Office (which includes the Board of Directors cost center) and the MWRA Advisory Board and Advisory Committees cost center. The Board of Directors formulates policies to guide MWRA actions and is responsible for major policy and fiscal decision making. The MWRA Advisory Board was established by the Enabling Act to serve as a "watchdog" for MWRA's customer communities. The Advisory Board makes recommendations to MWRA on annual expense budgets and capital improvement programs. In addition, the Advisory Board

reviews and comments on MWRA reports, holds hearings on related matters, and makes recommendations to the Governor and the legislature. The other advisory committees supported by this budget are the Water Supply Citizens' Advisory Committee and the Wastewater Advisory Committee. The Executive Office budget accounts for less than 1% of the proposed FY04 direct expense budget.

- \$162,000 for Professional Services, level funded with the amended FY03 budget but a decrease of \$120,000 or 42.5% from FY02 spending because of the elimination of funds for the Competitiveness Study completed in FY02. The budget funds the Water Supply Citizens' Advisory Committee and the Wastewater Advisory Committee.
- \$460,000 for the MWRA Advisory Board staff and operating expenses including space rental and general administrative office materials and supplies.



Operations Division Budget

## **OPERATIONS DIVISION**

In FY01 MWRA established the Operations Division to integrate wastewater and water system operations and maintenance, treatment, planning, laboratory services, and engineering and construction functions, including the Program Management Division (PMD). The proposed FY04 Current Expense Budget and structure of the Operations Division is shown and described below.

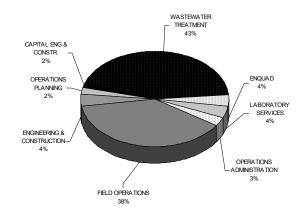
PROPOSED FY04 Current Expense Budget OPERATIONS DIVISION by Line Item													
	FY01	FY02	FY03	FY04	Change	;							
LINE ITEM	Actual	Actual	Amended	Proposed	FY04 to FY	<b>/</b> 03							
WAGES & SALARIES	\$ 66,251,856	\$ 63,941,259	\$ 59,939,996	\$ 60,746,568	\$ 806,572	1.3%							
OVERTIME	3,714,141	4,065,742	3,653,156	3,568,728	(84,428)	-2.3%							
FRINGE BENEFITS	98,520	96,924	83,344	95,865	12,521	15.0%							
WORKERS' COMPENSATION	779,718	1,323,614	1,800,000	-	(1,800,000)	-100.0%							
CHEMICALS	7,489,328	6,403,105	7,437,716	6,795,831	(641,885)	-8.6%							
UTILITIES	19,898,563	15,556,711	14,133,713	15,261,650	1,127,937	8.0%							
ONGOING MAINTENANCE	13,414,661	12,477,204	13,377,082	14,811,088	1,434,006	10.7%							
TRAINING & MEETINGS	244,239	192,326	165,025	165,002	(23)	0.0%							
PROFESSIONAL SERVICES	4,196,699	5,310,055	6,047,063	5,112,329	(934,734)	-15.5%							
OTHER MATERIALS	4,854,562	3,209,664	2,674,211	3,621,978	947,767	35.4%							
OTHER SERVICES	16,223,415	15,314,685	15,408,259	15,271,107	(137,152)	-0.9%							
TOTAL	\$ 137,165,702	\$ 127,891,289	\$ 124,719,565	\$ 125,450,146	\$ 730,581	0.6%							

			pense Budge Department	et			
	FY01	FY02	FY03		FY04	Change	
DEPARTMENT	Actual	Actual	Amended		Proposed	FY04 to FY	′03
OPERATIONS ADMINISTRATION	\$ 3,839,013	\$ 5,854,183	\$ 5,537,009	\$	3,889,340	\$ (1,647,669)	-29.8%
OPERATIONS PLANNING	3,115,998	3,060,091	2,960,102		2,577,572	(382,530)	-12.9%
WASTEWATER TREATMENT	62,191,613	54,127,719	53,458,136		53,926,014	467,878	0.9%
FIELD OPERATIONS	47,254,062	45,753,462	45,050,310		47,751,943	2,701,633	6.0%
LABORATORY SERVICES	4,647,654	4,717,716	4,721,150		4,891,153	170,003	3.6%
ENQUAD	4,228,319	5,130,613	5,481,523		4,908,873	(572,650)	-10.4%
<b>ENGINEERING &amp; CONSTRUCTION</b>	7,647,497	6,479,639	5,302,834		5,273,239	(29,595)	-0.6%
CAPITAL ENG & CONSTR.	2,743,349	2,346,803	2,208,501		2,232,012	23,511	1.1%
PMD	1,498,197	421,063	-		-	-	0.0%
TOTAL	\$ 137,165,702	\$ 127,891,289	\$ 124,719,565	\$	125,450,146	\$ 730,581	0.6%

The Wastewater Treatment Department, which accounts for more than 40% of the Operations Division budget, operates and maintains the Deer Island and Clinton wastewater treatment plants and the residuals processing facility at Fore River.

The *Field Operations Department*, which accounts for more than 35% of the Operations Division budget, is responsible for operating, maintaining, and metering the water and wastewater transport systems. The department also manages the water treatment and wastewater pretreatment functions. Field Operations consolidates the former Transport, TRAC, and Water Operations departments, and the metering portion of the former Sewerage Facilities Development Department.

Operations Division Proposed FY04 Budget \$125.5 million



Two departments in the Operations Division are responsible for most of the Division's engineering and construction work. The *Engineering and Construction Department* manages and coordinates the planning, design, and construction of ongoing system improvements in the wastewater transport and treatment and water distribution and treatment systems. The *Capital Engineering and Construction Department (CECD)* is responsible for managing engineering, design (including water system hydraulic modeling), and construction of the Integrated Water Supply Improvement Program (IWSIP) which includes the Walnut Hill Treatment Plant, the MetroWest Water Supply Tunnel, and seven covered storage facilities. CECD is also responsible for the planning, design, and construction of the program to rehabilitate MWRA's large water distribution mains.

The *Environmental Quality Department (ENQUAD)* manages the monitoring of Boston Harbor and Massachusetts Bay water quality and oversees MWRA's compliance with its NPDES permits.

The *Operations Planning Department* manages the planning activities for the water and wastewater systems and MWRA's energy program. The department provides central coordination and support in public health research and outreach, CSO control, technical and financial community support, Geographic Information Systems (GIS), watershed protection, environmental review, and master planning.

The Laboratory Services Department supports various client groups in the Operations Division, providing laboratory testing and reporting services. Most of the testing is required to meet the strict testing guidelines of regulatory programs and permits including the Safe Drinking Water Act (SDWA) and MWRA's NPDES permits.

The *Operations Administration Department* provides oversight and general management support in the areas of finance, contract administration, personnel, and planning. The Administration Department budget also includes funds for MWRA vehicle purchases and certain division-wide memberships. The budget for MWRA's workers' compensation program has been transferred to Human Resources, to better align the management and responsibility of the program and coordination with the third-party administrator.

The Operations Division's goals are to:

- Plan, develop, implement, and operate efficient, reliable, and economical water delivery and wastewater transport and treatment systems.
- Ensure compliance with state and federal drinking water quality and wastewater discharge regulations including the SDWA, the Clean Water Act, and NPDES permits.

## **OPERATIONS ADMINISTRATION**

	PROPOSED FY04 Current Expense Budget OPERATIONS ADMINISTRATION												
		FY01		FY02		FY03		FY04		Change	1		
LINE ITEM	LINE ITEM Actual Amended Proposed FY04 to FY03												
WAGES & SALARIES	\$	2,026,306	\$	3,155,964	\$	2,912,591	\$	2,488,450	\$	(424,141)	-14.6%		
OVERTIME		339		2,974		-		_		-	0.0%		
FRINGE BENEFITS		-		83		-		-		-	0.0%		
WORKERS' COMPENSATION		779,718		1,323,614		1,800,000		-		(1,800,000)	-100.0%		
ONGOING MAINTENANCE		687		-		-		-		-	0.0%		
TRAINING & MEETINGS		16,580		8,571		12,553		12,553		-	0.0%		
PROFESSIONAL SERVICES		17,556		277,396		260,000		_		(260,000)	-100.0%		
OTHER MATERIALS		666,596		641,907		133,827		1,117,141		983,314	734.8%		
OTHER SERVICES		330,231		443,674		418,039		271,195		(146,844)	-35.1%		
TOTAL	\$	3,838,013	\$	5,854,183	\$	5,537,010	\$	3,889,339	\$	(1,647,671)	-29.8%		

The Operations Administration Department consists of the Chief Operating Officer, the Deputy Chief Operating Officer, and administrative staff who provide overall policy and program direction and support for Operations Division personnel, labor relations, finance, contract administration, and invoice processing functions. The Operations Administration budget also includes funding for division vehicle purchases and certain division-wide memberships. As part of the proposed FY04 budget, the workers' compensation budget has been transferred to the Human Resources Department, which is responsible for managing the program.

- \$2.5 million for regular pay for employees performing management, administrative, contract administration, labor relations, and financial management functions.
- Funding for Workers' Compensation claims and medical payments has been transferred to the Human Resources Department.
- \$1.1 million for non-domicile work crew vehicle purchases. Vehicle purchases totaled \$622,000 and \$120,000 in FY02 and FY03, respectively.
- \$271,000 for Other Services of which \$250,000 represents the cost of MWRA memberships, primarily in the American Water Works Research Foundation and the Association of Metropolitan Water and Sewer Agencies (AMWA/AMSA).

## **OPERATIONS PLANNING**

PROPOSED FY04 Current Expense Budget OPERATIONS PLANNING												
		FY01		FY02		FY03		FY04		Change	)	
LINE ITEM	INE ITEM Actual Amended Proposed FY04 to FY03											
WAGES & SALARIES	\$	2,563,527	\$	2,612,671	\$	2,286,047	\$	2,160,306	\$	(125,741)	-5.5%	
OVERTIME		10,134		3,135		5,866		3,847		(2,019)	-34.4%	
FRINGE BENEFITS		309		90		156		-		(156)	-100.0%	
UTILITIES		764		16		-		-		-	0.0%	
ONGOING MAINTENANCE		1,110		16,222		25,000		-		(25,000)	-100.0%	
TRAINING & MEETINGS		29,480		21,110		20,669		20,669		-	0.0%	
PROFESSIONAL SERVICES		46,524		74,809		69,501		85,000		15,499	22.3%	
OTHER MATERIALS		259,476		39,565		49,798		46,850		(2,948)	-5.9%	
OTHER SERVICES		204,675		292,473		503,065		260,900		(242,165)	-48.1%	
TOTAL	\$	3,115,999	\$	3,060,091	\$	2,960,102	\$	2,577,572	\$	(382,530)	-12.9%	

Actuals for FY01 represent the totals for the former Sewerage Facilities Development and Waterworks Planning departments.

The Operations Planning Department manages the planning activities for the water and wastewater systems and MWRA's energy program. The department provides central coordination and support in public health research and outreach, CSO control, technical and financial community support, Geographic Information Systems (GIS), watershed protection, environmental review, and master planning.

The Operations Planning Department is comprised of the following sections:

*Master Planning* is responsible for water and wastewater master plans, and capital project development. This unit is also responsible for public health research, including outreach and water quality reporting and the annual Consumer Confidence Report (CCR) and supports the Operations Division in environmental review and permitting of projects, including impacts on MWRA facilities from other agency projects; review and processing of system expansion requests, water supply agreements, and emergency connection requests; and coordination with MDC Division of Watershed Management on source water protection. Additionally this unit assists in the development of strategies for long-term emergency risk reduction and preparation for MWRA facilities and systems, and energy planning for MWRA operating facilities.

Community Program Support is responsible for inflow/infiltration (I/I) and sanitary sewer overflows (SSO) policy development, implementation, and reporting. It is also responsible for community assistance programs including sewer inflow/infiltration financial and technical assistance, water pipeline rehabilitation financial assistance, water distribution systems Best Management Practices technical assistance, and water leak detection technical assistance. In addition, this unit provides oversight of and reporting on MWRA leak detection regulations and demand management programs. The unit is also responsible for reporting on the portions of MWRA's NPDES permit related to demand management and flow limitation activities.

Through the I/I Financial Assistance Program MWRA has distributed grants and loans to member communities totaling \$90.2 million since the program's inception in FY93. The Proposed FY04-06 CIP includes \$40 million for Phase IV, to be allocated to member communities at a 45% grant and 55% loan ratio. The Water Infrastructure Rehabilitation Financial Assistance Program distributed \$30 million in grants and loans in FY98 and FY99. A new \$250 million Local Pipeline Assistance Program was initiated in FY01 and 46.5 million of interest-free loans were distributed by March 2003.

Mapping, Modeling, and Data Analysis is responsible for the development and maintenance of GIS for both water and wastewater systems, including integration of field and engineering records into GIS for access by planning, engineering, and operations staff. It provides demand analysis and forecasting of water and wastewater flows for master planning and system operations, modeling of reservoir operations, drought forecasting and planning, and evaluation of system expansion requests. This unit is also responsible for the development and maintenance of water and sewer system models in support of master planning, system operations, and optimization. It provides statistical analysis for planning and operations, including pathogen risk analysis.

Combined Sewer Overflows (CSO) Program is responsible for the \$650 million CSO control plan. Responsibilities include long-term CSO control master planning and evaluation; CSO project permitting, engineering design; technical assistance during construction of MWRA managed CSO projects; oversight of community managed CSO design and construction activities; and start-up assistance for new CSO facilities. It is anticipated that this section will phase out upon completion of the CSO capital program with key functions integrated into the rest of the organization.

- \$2.2 million for Wages and Salaries, a decrease of \$126,000 from the amended FY03 budget.
- \$50,000 for Professional Services to fund professional assistance regarding power suppliers for MWRA's energy program.
- \$242,000 for the production and distribution of the federally mandated Consumer Confidence Report (CCR).

## WASTEWATER TREATMENT

		FY04 Current EWATER TR	pense Budge TMENT	∍t			
	FY01	FY02	FY03		FY04	Change	
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to FY	03
WAGES & SALARIES	\$ 17,319,924	\$ 16,534,740	\$ 15,428,439	\$	15,332,813	\$ (95,626)	-0.6%
OVERTIME	1,216,764	1,529,721	1,111,709		1,145,108	33,399	3.0%
FRINGE BENEFITS	40,410	40,450	25,630		37,359	11,729	45.8%
CHEMICALS	4,400,760	3,182,544	3,907,100		3,161,668	(745,432)	-19.1%
UTILITIES	15,129,787	10,667,776	9,516,727		10,592,222	1,075,495	11.3%
ONGOING MAINTENANCE	7,959,670	7,854,613	9,048,993		8,772,937	(276,056)	-3.1%
TRAINING & MEETINGS	55,013	70,430	34,544		34,668	124	0.4%
PROFESSIONAL SERVICES	671,705	780,663	1,107,799		1,081,664	(26,135)	-2.4%
OTHER MATERIALS	1,087,461	598,588	545,789		535,738	(10,051)	-1.8%
OTHER SERVICES	14,310,121	12,868,194	12,731,406		13,231,838	500,432	3.9%
TOTAL	\$ 62,191,615	\$ 54,127,719	\$ 53,458,136	\$	53,926,015	\$ 467,879	0.9%

						pense Budge I by Program							
FY01 FY02 FY03 FY04 Change													
PROGRAM		Actual		Actual		Amended		Proposed		FY04 to FY03			
DEER ISLAND	\$	41,429,751	\$	39,497,258	\$	39,002,175	\$	39,170,181	\$	168,006	0.4%		
RESIDUALS		19,855,213		13,700,725		13,516,139		13,855,460		339,321	2.5%		
CLINTON		906,649		929,736		939,822		900,373		(39,449)	-4.2%		
TOTAL	\$	62,191,613	\$	54,127,719	\$	53,458,136	\$	53,926,014	\$	467,878	0.9%		

The Deer Island Treatment Plant (DITP), the Residuals Management Program, and the Clinton Treatment Plant comprise the Wastewater Treatment Department. Together the budgets for these programs comprise 43% of the Operations Division's FY04 proposed budget and 31% of MWRA's proposed FY04 operating costs.

The **Deer Island Treatment Plant** budget accounts for more than 31% of the Operations Division's proposed FY04 budget. DITP has a primary treatment peak capacity of 1.27 billion gallons per day (bgd).

There are three headworks facilities which handle flows from MWRA's north system communities. At these headworks, bricks, logs, sand, and large debris are removed from the wastewater prior to transport to Deer Island through one of two underground tunnels. At Deer Island, north system flows are pumped through a grit removal facility prior to entering the primary treatment process. The grit is hauled offisland and disposed of in a landfill.

South system flows are transported to the Nut Island Headworks for preliminary treatment. The flows are then transported to Deer Island through a cross-harbor tunnel. At Deer Island, south system flows are pumped directly to the primary treatment process, by-passing Deer Island's on-island grit removal system because of the level of grit removal achieved at the Nut Island Headworks.

North and south system flows are combined in primary treatment which takes place in a series of stacked clarifiers where scum (fats, oils, grease) rises to the top and sludge (solids) settles to the bottom. The secondary process provides additional treatment, passing the wastewater through a series of reactors containing bacteria in a pure oxygen environment. These bacteria break down dissolved organics in the wastewater. The flow then moves on to a series of secondary clarifiers where the bacteria are allowed to

settle out in the form of secondary sludge. This secondary sludge, along with the primary sludge, is thickened, anaerobically digested, and barged to MWRA's residuals processing facility in Quincy. Methane, a by-product of anaerobic digestion, is used as fuel for the Deer Island plant's boilers, which produce steam to heat the facility and generate electricity.

## Deer Island Operating Assumptions for the Proposed FY04 CEB

An average of 357 million gallons per day, based on 5-year running average, is assumed for the combined flows of the north and south systems with secondary treatment capacity of 495 million gallons per day.

Sludge quantities for FY04 are assumed to be 96.5 tons per day (TS). The assumed average solids content for digested sludge is 5.5%.

The **Residuals Management Program** manages the processing and disposal of sludge from the anaerobic digestion process at Deer Island, as well as the disposal of grit and screenings. MWRA seeks to dispose of all sludge and grit and screenings in a reliable, economical, and environmentally sensitive manner.

MWRA has a three-pronged approach to the processing and disposal of waste material:

- Grit and screenings from MWRA's transport system are disposed of in landfills.
- Liquid sludge from Deer Island is barged to the Fore River processing facility where it is dewatered, dried, and shipped by rail either for use as fertilizer or to appropriate disposal. MWRA is committed to the beneficial reuse of biosolids to the greatest extent practicable. MWRA contracts with the New England Fertilizer Company (NEFCo) to operate the processing facility and market and ship sludge products. A 15-year contract with NEFCo became effective March 1, 2001.
- Landfill capacity is reserved as a backup to the beneficial use efforts (per agreement with the Federal Court, EPA, and DEP) for disposal of all sludge produced.

The **Clinton Wastewater Treatment Plant** provides sewage treatment services to the Town of Clinton and the Lancaster Sewer District. The plant treats an average of 2.5 mgd.

- \$15.3 million for Wages and Salaries, a decrease of \$96,000 or 0.6% from the FY03 amended budget. Regular pay is 98% of the wages and salaries budget. \$74,000 for temporary employees, a \$143,000 or 65.6% decrease from the amended FY03 budget.
- \$1.1 million for Overtime, a \$33,000 or 3.0% increase over the FY03 amended budget.
- \$3.2 million for Chemicals, a decrease of \$745,000 or 19.1% from the FY03 amended budget. Decreases for polymer, hydrogen peroxide, and sodium hypochlorite are partially offset by an increase for ferrous chloride to be used in the treatment and control of struvite. The chemicals budget includes \$1.4 million for sodium hypochlorite, which is used for disinfection and odor control, and \$535,000 for polymer, which is used to thicken sludge.
- \$10.6 million for Utilities, a \$1.1 million or 11.3% increase over the FY03 amended budget primarily due to price uncertainties in the cost of electricity and an increase in the wholesale water rate.
- \$7.6 million for DITP and Clinton maintenance, a \$237,000 or 3.0% decrease from the amended FY03 budget. The proposed FY04 budget includes \$2.4 million for materials and \$5.2 million for services. The proposed FY04 maintenance budget for the Residuals Management program is \$1.1 million. Under the terms of the NEFCo contract, it will be used to cover the cost of all repairs with an individual cost of more than \$10,000.
- \$1.1 million for Professional Services, a \$26,000 or 2.4% decrease from the FY03 amended budget. The proposed budget includes \$931,000 for perimeter and access security at Deer Island, \$34,000 for vibration analysis, and \$20,000 for Maximo support services.
- \$536,000 for Other Materials, a \$10,000 or 1.8% decrease from the amended FY03 budget. The proposed budget includes \$120,000 for materials, \$93,000 for work clothes, \$70,000 for vehicle expenses, \$58,000 for health and safety materials, and \$34,000 for fill for the Clinton Treatment Plant landfill.
- \$13.2 million for Other Services, a \$500,000 or 3.9% increase from the amended FY03 budget primarily due to price uncertainty for the electricity and natural gas components of the sludge pelletization contract.

#### FIELD OPERATIONS

	PROPOSI	FY04 Current	pense Budge NS	et			
	FY01	FY02	FY03		FY04	Change	
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to FY	<b>′</b> 03
WAGES & SALARIES	\$ 29,332,061	\$ 28,728,824	\$ 28,029,109	\$	29,320,113	\$ 1,291,004	4.6%
OVERTIME	2,187,766	2,274,653	2,313,510		2,168,109	(145,401)	-6.3%
FRINGE BENEFITS	52,839	52,165	53,000		54,420	1,420	2.7%
CHEMICALS	3,088,568	3,220,561	3,530,616		3,634,163	103,547	2.9%
UTILITIES	4,634,259	4,768,891	4,482,255		4,529,959	47,704	1.1%
ONGOING MAINTENANCE	5,028,179	4,188,746	3,841,220		5,581,948	1,740,728	45.3%
TRAINING & MEETINGS	72,270	57,491	58,493		58,358	(135)	-0.2%
PROFESSIONAL SERVICES	214,396	134,211	202,388		119,500	(82,888)	-41.0%
OTHER MATERIALS	1,541,827	872,522	974,480		969,069	(5,411)	-0.6%
OTHER SERVICES	1,101,897	1,455,398	1,565,239		1,316,304	(248,935)	-15.9%
TOTAL	\$ 47,254,062	\$ 45,753,462	\$ 45,050,310	\$	47,751,943	\$ 2,701,633	6.0%

The primary goal of Field Operations is to provide high quality, uninterrupted water delivery and wastewater collection services to MWRA communities. Field Operations includes wastewater transport operations and maintenance, waterworks operations and maintenance, and Toxic Reduction and Control (TRAC) departments. The department is responsible for the treatment, transmission, and distribution of water from the Quabbin and Wachusett reservoirs to the community water systems. It also manages the collection and transport of wastewater flow from MWRA communities to the Deer Island Treatment Plant. Through TRAC, FOD manages MWRA's industrial pretreatment, permitting, and monitoring program. FOD consists of five operating units: Wastewater Operations, Metropolitan Maintenance, Water Operations and Maintenance, Operations Support, and Administration.

Wastewater Operations and Maintenance is comprised of Wastewater Operations and TRAC. Wastewater Operations operates MWRA's wastewater transport facilities, including 11 pumping stations, (nine of which are unstaffed), four headworks facilities which are continuously staffed, and five combined sewer overflow (CSO) facilities (four of which are unstaffed). TRAC manages MWRA's regulatory program for industrial and commercial dischargers, provides analytical and technical support to other MWRA programs, conducts independent research on sources and impacts of toxics in the MWRA system, and provides education and outreach on toxics to MWRA sewer users.

Water Operations and Maintenance is responsible for the treatment and delivery of water from the Quabbin and Wachusett reservoirs to the community water systems. The water system encompasses a service area from Chicopee in the western part of the state to Wakefield, Marblehead, and Norwood in the metropolitan area. Additionally, this unit maintains MWRA's western waterworks facilities, including the Ware Water Treatment Plant, the Interim Corrosion Control Facility in Marlborough, the Cosgrove Intake Facility, and the Norumbega Reservoir. This unit also oversees covered storage facilities and will operate the MetroWest Tunnel and the Walnut Hill Treatment Plant when those facilities come on line in 2003 and 2004, respectively. There are two operations centers that provide for monitoring and control of the water system on a 24-hour per day basis. The Metropolitan Operations and Control Center (OCC), formerly in Chestnut Hill, is now located at MWRA's new Chelsea facility. The Western Operations Center (WOC) is located at the Cosgrove Intake adjacent to the Wachusett Reservoir.

**Metropolitan Maintenance** is responsible for maintenance of MWRA's wastewater and water systems and facilities within the Route 128 area. Staff maintain pipelines, valves, interceptors, pumps, facility

equipment, buildings, and grounds. Metropolitan Maintenance staff maintain a waterworks network of 275 miles of water mains, 3,500 valves, 18 miles of deep rock tunnels, ten pump stations, eight tunnel shafts, ten distribution storage tanks and reservoirs, and 240 miles of wastewater interceptors and appurtenances. In addition, this unit performs TV inspections of the wastewater system.

Operations Support provides technical support to FOD in the areas of engineering, quality assurance, data management, metering, and monitoring. Engineering staff coordinate all engineering issues related to the operation of the water and wastewater systems. The Quality Assurance Unit monitors water treatment effectiveness, identifies treatment issues, and develops recommendations for water treatment improvements. Data management activities include performance reporting on water quality, development and maintenance of water quality treatment and optimization models, and the tracking and analyzing of chemical and hydraulic flow data. The Metering and Monitoring unit maintains 150 community water meters, 16 contract community water meters, 14 master water meters, and 212 wastewater meters. This unit collects meter data for operational and revenue generating purposes from the water and wastewater systems. This unit is also responsible for the maintenance of the water and future wastewater SCADA systems.

**FOD Policy and Planning** provides financial, administrative, planning, and policy oversight functions for the entire Field Operations Department.

- \$29.3 million for Wages and Salaries, an increase of \$1.3 million or 4.6% from the amended FY03 budget. This budget includes \$283,000 in funding for 16 new positions of which 13 are for the new Walnut Hill Water Treatment Plant and 3 are for the wastewater SCADA system.
- \$2.2 million for Overtime, a decrease of \$145,000 from the FY03 amended budget.
- \$3.6 million for Chemicals, an increase of \$104,000 or 2.9% from the amended FY03 budget. The proposed budget includes \$1.6 million for soda ash, \$818,000 for sodium hypochlorite, \$319,000 for potassium permanganate, and \$307,000 for carbon dioxide.
- \$4.5 million for Utilities, an increase of \$48,000 from the amended FY03 budget. The proposed budget includes \$3.6 million for electricity and \$562,000 for diesel fuel.
- \$5.6 million for Maintenance, an increase of \$1.7 million or 45.3% from the amended FY03 budget. The increase is primarily attributable to the inclusion of several facility rehabilitation projects in FY04 and additional services to cover upkeep of MWRA facilities in the western service area of the waterworks system. The proposed budget includes \$2.3 million for maintenance materials and \$3.3 million for maintenance services. These funds are also intended to cover unanticipated security initiatives and emergency situations such as pipeline breaks.
- \$1.3 million for Other Services, a decrease of \$249,000 or 15.9% from the amended FY03 budget. The decrease is primarily due to state police expenses at Norumbega, which are expected to be less in FY04 than in FY03. The proposed budget includes \$617,000 for police details to insure public safety on roadways during MWRA work activities and for security coverage as-needed at selected facilities and \$522,000 for telephone services.
- \$969,000 for Other Materials, including \$455,000 for vehicle expense, \$172,000 for work clothes, \$122,000 for health and safety materials, and \$93,000 for lab testing supplies for TRAC and Quality Assurance.

## LABORATORY SERVICES

		Y04 Current DRATORY S	pense Budge /ICES	et			
	FY01	FY02	FY03		FY04	Change	
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to FY	03
WAGES & SALARIES	\$ 3,010,123	\$ 3,215,667	\$ 3,265,831	\$	3,420,535	\$ 154,704	4.7%
OVERTIME	75,422	65,828	69,940		67,549	(2,391)	-3.4%
FRINGE BENEFITS	1,331	1,183	1,200		1,200	-	0.0%
UTILITIES	133,752	120,028	134,731		139,470	4,739	3.5%
ONGOING MAINTENANCE	232,339	269,257	278,021		284,906	6,885	2.5%
TRAINING & MEETINGS	8,322	4,978	7,093		7,070	(23)	-0.3%
PROFESSIONAL SERVICES	142,459	109,941	76,075		100,193	24,118	31.7%
OTHER MATERIALS	971,315	852,582	799,013		769,347	(29,666)	-3.7%
OTHER SERVICES	72,592	78,251	89,246		100,883	11,637	13.0%
TOTAL	\$ 4,647,654	\$ 4,717,716	\$ 4,721,150	\$	4,891,153	\$ 170,003	3.6%

The Department of Laboratory Services (DLS) supports the laboratory sampling, testing, and consulting needs of various client groups in the Operations Division through its four locations: Southborough, Somerville, the Central Laboratory at Deer Island, and the Clinton Wastewater Treatment Plant. Testing supports drinking water transmission and treatment processes, wastewater operations and control at Deer Island and Clinton, NPDES compliance, harbor and outfall monitoring, TRAC, and wastewater residuals. DLS also conducts the Boston Harbor monitoring program, which involves regular sampling for nutrients, bacteria, and water quality parameters throughout Boston Harbor.

DLS monitors drinking water treatment effectiveness and provides laboratory services in support of in-depth studies of corrosion control, disinfectant residual decay, nitrification, biofilm, and treatment issues. DLS regularly tests reservoir and community water systems for regulatory compliance with bacterial levels, chemical parameters such as chlorine residuals, and algae.

Results are tracked and analyzed and compliance reports are regularly submitted to the Environmental Protection Agency and the Massachusetts Department of Environmental Protection.

Most MWRA laboratory testing is done in-house. Certain exceedingly specialized or low volume tests are outsourced, such as tests for dioxins and radioactivity. In addition, MWRA maintains contracts with outside laboratories for use when DLS capacity is exceeded.

The department's goals are to provide high quality and responsive laboratory services to MWRA's water and wastewater treatment programs, and to conduct timely and cost-effective laboratory tests to meet the strict testing guidelines required by all regulatory programs and permits, including the Safe Drinking Water Act (SDWA) and Clean Water Act NPDES permits.

- \$3.4 million for Wages and Salaries, an increase of \$155,000 or 4.7% from the amended FY03 budget to reflect filled positions.
- \$68,000 for Overtime, a 3.4% decrease from the amended FY03 budget.
- \$139,000 for Utilities, an increase of \$5,000 or 3.5% from the amended FY03 budget.
- \$285,000 for Maintenance, a \$7,000 or 2.5% increase from the amended FY03 budget, of which \$165,000 is for special equipment services and repair contracts for lab equipment.
- \$100,000 for Professional Services to support outside lab testing, an increase of \$24,000 or 31.7% from the amended FY03 budget but a decrease of \$10,000 or 8.8% from FY02 actual spending.
- \$769,000 for Other Materials, a decrease of \$30,000 or 3.7% from the amended FY03 budget. The proposed budget includes \$183,000 for equipment replacement and \$539,000 for laboratory supplies.

# **ENVIRONMENTAL QUALITY**

	PROPOSED FY04 Current Expense Budget ENVIRONMENTAL QUALITY												
		FY01		FY02		FY03		FY04		Change			
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY	03		
WAGES & SALARIES	\$	1,022,658	\$	1,065,250	\$	1,089,585	\$	1,119,410	\$	29,825	2.7%		
OVERTIME		8,332		4,449		4,099		4,099		-	0.0%		
FRINGE BENEFITS		17		-		20		20		-	0.0%		
ONGOING MAINTENANCE		2,432		369		2,700		3,000		300	11.1%		
TRAINING & MEETINGS		6,116		4,826		3,619		3,619		-	0.0%		
PROFESSIONAL SERVICES		3,041,785		3,915,496		4,330,600		3,725,972		(604,628)	-14.0%		
OTHER MATERIALS		24,929		10,404		18,800		20,570		1,770	9.4%		
OTHER SERVICES		122,051		129,819		32,100		32,183		83	0.3%		
TOTAL	\$	4,228,319	\$	5,130,613	\$	5,481,523	\$	4,908,873	\$	(572,650)	-10.4%		

The Environmental Quality Department (ENQUAD) reports on environmental findings that may be linked to MWRA operations and projects. The department's main activities are monitoring sewage influent and effluent quality; monitoring the water quality of Boston Harbor, its tributary rivers, and Massachusetts Bay; data management and quality assurance; and compliance with the reporting requirements of MWRA's National Pollutant Discharge Elimination System (NPDES) permits. These permit reports go to state and federal regulators, the Outfall Monitoring Science Advisory Panel, its subcommittees, and several libraries. As required by the permits, ENQUAD also posts many of these reports on MWRA's web site. All technical reports and several reports on water quality in the harbor and the bay are also posted on the web site. The department also produces the State of Boston Harbor Report.

# ENQUAD's goals for FY04 are to:

- Maintain compliance with the reporting requirements of MWRA's NPDES permits for the Deer Island and Clinton treatment plants;
- Ensure that the permit-required outfall monitoring meets NPDES requirements, is scientifically credible, and is cost-effective;
- Monitor the effects of the Boston Harbor Project and MWRA's CSO Plan and provide data and assistance for CSO planning and compliance with regulatory requirements;
- Communicate results of monitoring to MWRA management, and to scientists, regulators, and the public.

- \$1.1 million for Wages and Salaries, of which 99% is regular pay.
- \$3.7 million for outside laboratory testing and analysis, a reduction of \$600,000 from the amended FY03 budget reflecting the elimination of some discretionary spending and the completion of several studies in FY03. This line item includes \$3.3 million for continued outfall monitoring required by EPA. The remaining funds are for studies related to Massachusetts Bay monitoring, performed in conjunction with the U.S. Geological Survey, and biotoxicity testing.
- \$32,000 for Other Services, essentially level funded with the amended FY03 budget.

## ENGINEERING AND CONSTRUCTION

PROPOSED FY04 Current Expense Budget ENGINEERING AND CONSTRUCTION												
		FY01		FY02		FY03		FY04		Change		
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY	′03	
WAGES & SALARIES	\$	7,072,159	\$	6,070,138	\$	4,965,675	\$	4,914,062	\$	(51,613)	-1.0%	
OVERTIME		214,994		184,997		148,032		180,015		31,983	21.6%	
FRINGE BENEFITS		3,578		2,947		3,338		2,866		(472)	-14.1%	
ONGOING MAINTENANCE		26,337		22,470		23,269		10,417		(12,852)	-55.2%	
TRAINING & MEETINGS		14,474		14,042		11,415		11,416		1	0.0%	
PROFESSIONAL SERVICES		3,092		408		700		-		(700)	-100.0%	
OTHER MATERIALS		266,286		162,484		118,205		130,963		12,758	10.8%	
OTHER SERVICES		46,577		22,152		32,200		23,500		(8,700)	-27.0%	
TOTAL	\$	7,647,497	\$	6,479,639	\$	5,302,834	\$	5,273,239	\$	(29,595)	-0.6%	

The Engineering and Construction Department (ECD) manages and coordinates the planning, design, and construction of system improvements that will ensure the reliable operation of the wastewater collection, transport, and treatment systems, and maintain and improve the waterworks infrastructure and physical plant to ensure a safe and adequate supply of water.

ECD is organized into two units. The **Engineering Unit** provides in-house engineering, consultant management (during the facilities planning, environmental review, and design stages of capital projects), drafting, surveying, and other technical assistance required for the maintenance, repair, and rehabilitation of the wastewater and waterworks systems. In addition, unit staff provide specialized technical services in the electrical, structural, mechanical, and civil engineering disciplines; maintain the Design Information Services Center (DISC); provide engineering and project management support, computer-aided design and drafting (CADD) services, and survey and design services; and manage construction document control

The **Construction Unit** provides contract management and resident inspection on water and wastewater construction and rehabilitation projects. Staff administer, oversee, and monitor construction projects to ensure timely, cost-effective, high quality construction for a variety of infrastructure improvement projects. Staff manage contractor activities to ensure projects are completed in accordance with approved plans and specifications with quality construction practices, timely project completion, and cost efficiency.

- \$4.9 million for Wages and Salaries, a reduction of \$52,000 or 1% from the amended FY03 budget.
- \$180,000 for Overtime, an increase of \$32,000 or 21.6% compared to the amended FY03 budget but \$5,000 less than FY02 actual spending. Overtime is used primarily to ensure timely monitoring of construction projects when contractor activity extends beyond normal working hours. Overtime is also necessary to accommodate unplanned design or survey efforts, attendance at evening public meetings, or other work load requirements to meet project schedules.
- \$87,000 for vehicle expenses, primarily for staff traveling to and from construction sites.

## CAPITAL ENGINEERING AND CONSTRUCTION

						pense Budge ONSTRUCT							
		FY01		FY02		FY03		FY04		Change			
LINE ITEM													
WAGES & SALARIES \$ 2,437,747 \$ 2,147,000 \$ 1,962,720 \$ 1,990,878 \$ 28,158 1.4%													
OVERTIME		274		-		-		-		-	0.0%		
FRINGE BENEFITS		36		6		-		-		-	0.0%		
ONGOING MAINTENANCE		164,004		125,527		157,880		157,880		-	0.0%		
TRAINING & MEETINGS		32,320		8,488		16,637		16,650		13	0.1%		
PROFESSIONAL SERVICES		59,183		17,132		-		-		-	0.0%		
OTHER MATERIALS		26,004		26,163		34,300		32,300		(2,000)	-5.8%		
OTHER SERVICES		23,780		22,488		36,964		34,304		(2,660)	-7.2%		
TOTAL	\$	2,743,349	\$	2,346,803	\$	2,208,501	\$	2,232,012	\$	23,511	1.1%		

The Capital Engineering and Construction Department (CECD) is responsible for managing engineering, design, and construction of major waterworks facilities and pipelines, in particular MWRA's Integrated Water Supply Improvement Program (IWSIP). IWSIP is comprised of the Walnut Hill Water Treatment Plant, the Metro West Water Supply Tunnel, and seven covered storage facilities. Together with Planning and Field Operation's departments, CECD assesses the condition of waterworks facilities and pipelines to determine and document the improvements needed to eliminate deficiencies and bring the water system up to current standards. These improvements are broken down into a series of design and construction contracts, which are prioritized and scheduled to allow safe and reliable operation of the system during the period of their construction.

The department also manages the engineering design, construction, start-up and training, and testing of other major waterworks capital projects. Staff define scope of work for consultant contracts and manage consultants conducting conceptual studies, preliminary designs, environmental reports and final designs. In addition, staff coordinate with cities and towns, regulatory agencies, and citizens groups to ensure acceptance of the projects by all stakeholders. The department monitors technical and regulatory standards to ensure that at completion facilities fulfill all of their essential functions in a cost-effective manner.

- \$2 million for regular pay, and increase of \$28,000 or 1.4% from the amended FY03 budget.
- \$158,000 for maintenance including \$141,000 for operation of temporary chloramination facilities and \$15,000 for community chlorine analyzers for the MetroWest communities.



#### LAW DIVISION

				Y04 Current DIVISION by		pense Budge e Item	et						
		FY01		FY02		FY03		FY04		Change	)		
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY	/03		
WAGES & SALARIES	\$												
OVERTIME	+ 1,000 + 1,00												
TRAINING & MEETINGS		14,710		10,208		10,706		5,956		(4,750)	-44.4%		
PROFESSIONAL SERVICES		576,513		430,390		316,584		316,584		-	0.0%		
OTHER MATERIALS		3,473		3,834		5,464		5,464		-	0.0%		
OTHER SERVICES	OTHER SERVICES 92,328 70,021 68,245 67,405 (840) -1.2%												
TOTAL	\$	2,466,128	\$	2,571,655	\$	2,334,648	\$	1,903,536	\$	(431,112)	-18.5%		

The Law Division provides legal counsel to all divisions on compliance with federal and state laws and regulations and court and administrative orders, litigation matters, real estate matters, labor/employment issues and construction issues. The division represents MWRA in all litigation through division staff or supervision of outside counsel retained to handle matters beyond the resources or expertise of division staff. The budget for the division accounts for 1.1% of MWRA's direct expense budget.

- \$1.5 million for regular pay, a reduction of \$425,000 from the amended FY03 budget and \$550,000 less than FY02 spending due to staff reductions. The proposed FY04 CEB includes no funds for interns, a reduction of \$28,000 from the FY03 amended budget.
- \$317,000 for professional services, level funded with the FY03 amended budget but \$114,000 or 26.4% less than FY02 spending. The budget funds outside legal counsel to assist in handling cases which require special expertise on tax, energy, insurance, labor, environmental, and financial business issues. In-house staff concentrate on cases which require a close understanding of MWRA.



## FINANCE DIVISION

				Y04 Current E DIVISION I		pense Budge ine Item	et						
		FY01		FY02		FY03		FY04		Change	:		
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY	/03		
WAGES & SALARIES \$ 3,256,283 \$ 3,069,974 \$ 2,837,534 \$ 2,856,563 \$ 19,029 0.7%													
OVERTIME		4		1,233		-		-		-	0.0%		
FRINGE BENEFITS 8 0.0%													
ONGOING MAINTENANCE		-		566		2,500		-		(2,500)	-100.0%		
TRAINING & MEETINGS		28,373		3,788		9,668		9,791		123	1.3%		
PROFESSIONAL SERVICES		249,737		212,256		220,420		225,420		5,000	2.3%		
OTHER MATERIALS		3,973		1,586		5,512		7,246		1,734	31.5%		
OTHER SERVICES	OTHER SERVICES 40,318 24,661 35,898 44,007 8,109 22.6%												
TOTAL	\$	3,578,697	\$	3,314,065	\$	3,111,532	\$	3,143,027	\$	31,495	1.0%		

				Y04 Current DIVISION by		pense Budge epartment	et						
		FY01		FY02		FY03		FY04		Change			
DEPARTMENT Actual Actual Amended Proposed FY04 to FY03													
DIVISION DIRECTOR'S OFFICE \$ 229,349 \$ 248,840 \$ 155,475 \$ 271,113 \$ 115,638 74.4%													
PLANNING/COORDINATION		367,178		304,839		308,949		185,831		(123,118)	-39.9%		
RATES/BUDGET		841,404		594,698		744,842		603,430		(141,412)	-19.0%		
TREASURY		2,140,766		2,165,688		1,902,266		787,302		(1,114,964)	-58.6%		
CONTROLLER	CONTROLLER 1,295,351 1,295,351 100.0%												
TOTAL	\$	3,578,697	\$	3,314,065	\$	3,111,532	\$	3,143,027	\$	31,495	1.0%		

The Finance Division is responsible for overseeing rates and revenue management, disbursements, budgeting, capital financing, investment, accounting, grant and loan management, and coordination of MWRA planning. In the proposed FY04 CEB the division accounts for less than 2% of MWRA's direct expense budget.

In FY03, previously separate payroll, claims and risk management, and insurance functions from the Operations and Finance divisions were consolidated in the Finance Division. As part of the organizational change, structural changes within the Finance Division were also implemented. Specifically, Treasury Department functions were reorganized and a new Controller Department was created.

The new Controller Department consists of accounting, accounts payable, and payroll functions that were previously performed within the Treasury Department. The Controller has responsibility for ensuring financial system integrity and integration among the three functions. Department staff are also responsible for appropriate treatment and classification of MWRA revenues and expenditures in accordance with accounting principles generally accepted in the United States and prepare statements of MWRA's financial condition.

The Treasury Department now encompasses the financial responsibilities of securing funds for ongoing operations and capital programs, processing disbursements, and managing MWRA's insurance coverage and liability claims. Treasury Department staff collect revenue, disburse funds, and manage debt issuance and investments. As part of the division reorganization, the Grant and Loan Management Department was merged with the Treasury Department.

The Finance Division goals are to:

- Ensure the fiscal strength of MWRA through judicious, informed, and farsighted allocation of resources.
- Develop strategies for minimizing increases in community assessments and charges.
- Maintain favorable credit ratings for MWRA's revenue bonds.
- Provide financial planning, control, and accountability for MWRA.
- Ensure effective, coordinated strategic planning throughout MWRA.

# **DIVISION DIRECTOR'S OFFICE**

	FIN					pense Budge OFFICE by Lir		tem					
		FY01		FY02		FY03		FY04		Change	!		
LINE ITEM Actual Actual Amended Proposed FY04 to FY03													
WAGES & SALARIES	\$	224,601	\$	245,713	\$	152,306	\$	267,445	\$	115,139	75.6%		
OVERTIME		-		254		-		-		-	0.0%		
TRAINING & MEETINGS		1,399		-		413		1,503		1,090	263.9%		
OTHER MATERIALS		593		96		350		350		-	0.0%		
OTHER SERVICES 2,755 2,778 2,406 1,815 (591) -24.6%													
TOTAL \$ 229,348 \$ 248,842 \$ 155,475 \$ 271,113 \$ 115,638 74.4%													

The Division Director's Office oversees the centralized financial functions of rates development, revenue collection, budgeting, disbursement and payroll processing, capital financing, debt and investment management, accounting, and grant and loan management. The Finance Division also oversees agency-wide planning activities and performance reporting. The Director's Office provides advice and analysis to the Executive Director and the Board of Directors on all financial issues.

The division's continued challenge in FY04 will be to maintain agency-wide attention on how best to balance the need to minimize rate increases, compounded by the loss of debt of service assistance, while ensuring that critical MWRA services are maintained.

The Division Director's Office's goals are to:

- Guide and coordinate division activities to support MWRA and Finance Division objectives.
- Provide central and administrative support to the division's departments.

## PLANNING AND COORDINATION

						pense Budge ON by Line It							
		FY01		FY02		FY03		FY04		Change			
LINE ITEM Actual Amended Proposed FY04 to FY03													
WAGES & SALARIES	\$	278,331	\$	298,836	\$	302,854	\$	176,064	\$	(126,790)	-41.9%		
TRAINING & MEETINGS		10,606		5,077		5,363		5,193		(170)	-3.2%		
PROFESSIONAL SERVICES		75,844		-		-		-		-	0.0%		
OTHER MATERIALS		467		597		732		774		42	5.7%		
OTHER SERVICES 1,929 328 - 3,800 3,800 100.0%													
TOTAL \$ 367,178 \$ 304,839 \$ 308,949 \$ 185,831 \$ (123,118) -39.9%													

The Planning and Coordination Department coordinates planning activities throughout MWRA. The program has primary responsibility for coordinating development of the MWRA Business Plan. Department staff are also responsible for coordinating and staffing benchmarking and work process improvement projects to identify ways of changing MWRA work processes to increase efficiency and effectiveness, for coordinating development and reporting of MWRA's monthly and quarterly performance indicators, and for researching activities of and maintaining a database of peer water and wastewater utilities.

# **Budget Highlights**

• Total budget of \$186,000, a decrease of \$123,000 or 39% from the amended FY03 budget and FY02 spending, reflecting reduced staff and elimination of outside professional services to support the productivity improvement program.

## RATES AND BUDGET

				Y04 Current		pense Budge Line Item	et						
		FY01		FY02		FY03		FY04		Change			
LINE ITEM Actual Actual Amended Proposed FY04 to FY03													
AGES & SALARIES \$ 811,357 \$ 577,657 \$ 720,269 \$ 574,544 \$ (145,725) -20.2%													
TRAINING & MEETINGS		7,040		-		1,992		1,305		(687)	-34.5%		
PROFESSIONAL SERVICES		-		-		-		-		-	0.0%		
OTHER MATERIALS		72		391		481		481		-	0.0%		
OTHER SERVICES 22,936 16,650 22,100 27,100 5,000 22.6%													
TOTAL	\$	841,404	\$	594,698	\$	744,842	\$	603,430	\$	(141,412)	-19.0%		

The Rates and Budget Department provides the financial analysis that allows MWRA to translate its goals and legal/financial commitments into cost-effective annual and multi-year programs and budgets. Department staff coordinate development of the long-term Capital Improvement Program (CIP) and monitor the progress of capital projects compared to schedule and budget. Staff also coordinate development of MWRA's annual Current Expense Budget (CEB) and monitor spending compared to budget throughout the year. In addition, the department is responsible for forecasting near- and long-term expense and revenue requirements, and for the effective management of the annual process of establishing water and sewer assessments to be paid by MWRA's customer communities.

# **Budget Highlights**

Total budget of \$600,000, a decrease of \$141,000 or 19% from the amended FY03 budget because of staff reductions.

# TREASURY and CONTROLLER

				Y04 Current ASURY by L		pense Budge Item	et								
		FY01		FY02		FY03		FY04		Change	!				
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY	/03				
WAGES & SALARIES	, , , , , , , , , , , , , , , , , , ,														
OVERTIME 4 979 0.0%															
FRINGE BENEFITS		8		-		-		-		-	0.0%				
ONGOING MAINTENANCE		-		566		2,500		-		(2,500)	-100.0%				
TRAINING & MEETINGS		9,328		(1,289)		1,900		790		(1,110)	-58.4%				
PROFESSIONAL SERVICES		173,892		212,256		220,420		120,420		(100,000)	-45.4%				
OTHER MATERIALS		2,841		502		3,949		888		(3,061)	-77.5%				
OTHER SERVICES		12,698		4,905		11,392		7,882		(3,510)	-30.8%				
TOTAL	\$	2,140,765	\$	2,165,687	\$	1,902,266	\$	787,302	\$	(1,114,964)	-58.6%				

				Y04 Current ROLLER by			et						
		FY01		FY02		FY03		FY04		Change	;		
INE ITEM Actual Amended Proposed FY04 to FY03													
WAGES & SALARIES \$ - \$ - \$ 1,181,188 \$ 1,181,188 100.0%													
OVERTIME		-		-		-		-		-	0.0%		
FRINGE BENEFITS		-		-		-		-		-	0.0%		
TRAINING & MEETINGS		-		-		-		1,000		1,000	100.0%		
PROFESSIONAL SERVICES		-		-		-		105,000		105,000	100.0%		
OTHER MATERIALS		-		-		-		4,753		4,753	100.0%		
OTHER SERVICES		-		-		-		3,410		3,410	100.0%		
TOTAL	\$	-	\$	-	\$	-	\$	1,295,351	\$	1,295,351	100.0%		

The Treasury Department secures funds for ongoing operations and capital programs, processes disbursements, and manages MWRA's insurance coverage and liability claims. Department staff collect revenue, disburse funds, and manage debt issuance and investments.

The Controller Department consists of the Accounting, Accounts Payable, and Payroll units. This department was created in FY03 as part of an organizational change in Finance and Operations. The department has the responsibility for ensuring financial system integrity and integration among these functions. The department also is responsible for appropriate treatment and classification of MWRA revenues and expenditures in accordance with accounting principles generally accepted in the United States and for preparing statements of MWRA's financial condition.

- \$2.1 million combined budget, an increase of \$180,000 from the amended FY03 budget reflecting the consolidation of functions from Operations.
- \$225,000 for professional services, including \$105,000 for audit services, \$100,000 for trustee services, and \$19,000 for deposit services.



Support Services Division Budget

## SUPPORT SERVICES DIVISION

PROPOSED FY04 Current Expense Budget SUPPORT DIVISION by Line Item													
		FY01		FY02		FY03		FY04		Change	1		
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to F	/03		
WAGES & SALARIES	\$	15,588,539	\$	16,282,700	\$	15,303,842	\$	14,281,967	\$	(1,021,875)	-6.7%		
OVERTIME		84,856		66,284		67,774		28,467		(39,307)	-58.0%		
FRINGE BENEFITS 10,153,364 10,699,720 11,268,570 12,535,956 1,267,386 11.2%													
VORKERS' COMPENSATION 43,945 39,500 36,700 2,100,000 2,063,300 5622.1%													
CHEMICALS		67		-		-		-		-	0.0%		
UTILITIES		587,504		822,546		987,724		917,759		(69,965)	-7.1%		
ONGOING MAINTENANCE		3,243,187		3,868,445		3,548,917		3,484,492		(64,425)	-1.8%		
TRAINING & MEETINGS		129,030		96,297		69,390		72,807		3,417	4.9%		
PROFESSIONAL SERVICES		854,019		1,436,891		769,252		968,664		199,412	25.9%		
OTHER MATERIALS 1,136,901 1,299,684 620,855 703,200 82,345 13.3%													
OTHER SERVICES		7,329,297		8,279,810		6,737,185		7,184,772		447,587	6.6%		
TOTAL	\$	39,150,709	\$	42,891,877	\$	39,410,209	\$	42,278,084	\$	2,867,875	7.3%		

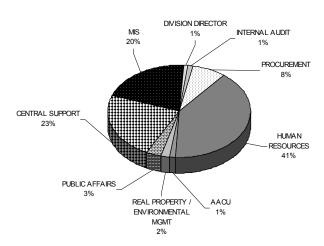
		ED FY04 Current		et										
	FY01	FY02	FY03	FY04	Change <sup>1</sup>									
DEPARTMENT	Actual	Actual	Amended	Proposed	FY04 to FY									
DIVISION DIRECTOR	\$ -	\$ -	\$ -	\$ 371,485	\$ 371,485	100.0%								
INTERNAL AUDIT	896,429	686,274	651,316	530,853	(120,463)	-18.5%								
PUBLIC AFFAIRS	2,051,203 2,182,485 1,840,407 1,391,786 (448,621) -24.49													
CENTRAL SUPPORT	11,013,246	12,205,889	10,566,157	9,729,689	(836,468)	-7.9%								
AACU	602,206	694,818	582,985	554,884	(28,101)	-4.8%								
HUMAN RESOURCES	12,142,329	13,130,531	13,357,063	16,865,640	3,508,577	26.3%								
MIS	8,357,773	9,418,409	8,394,752	8,655,669	260,917	3.1%								
PROCUREMENT	3,198,619	3,748,857	3,283,475	3,284,524	1,049	0.0%								
REAL PROPERTY /	888,902	824,615	734,054	893,554	159,500	21.7%								
ENVIRONMENTAL MGMT														
TOTAL	\$ 39,150,707	\$ 42,891,878	\$ 39,410,209	\$ 42,278,084	\$ 2,867,875	7.3%								

<sup>&</sup>lt;sup>1</sup> All of the increase in the Support Services Division budget is attributable to transfer of the budget for workers' compensation payments from Operations to Human Resources and to the increase in the budget for MWRA-wide fringe benefits, also included in the Human Resources Department budget.

The Support Services Division oversees the central functions of communications and community relations, real property and environmental management, human resources, affirmative action, procurement, internal audit, fleet services, computer system development and management, facilities and office supplies management, library and records management, and mail services. The division also manages the Fore River Staging Area (FRSA) in Quincy and the Chelsea Facility.

The division includes nine departments: Division Director, Internal Audit, Public Affairs, Central Support, Affirmative Action and Compliance (AACU), Human Resources, Management Information Systems (MIS), Procurement, and Real Property and Environmental Management (RPEM). The \$42.3 million proposed FY04 budget accounts for 24% of MWRA's direct expense

# Support Division Proposed FY04 Budget \$42.3 million



budget. The division budget includes \$12.5 million for fringe benefits for all MWRA personnel, as well as \$5.8 million for lease, taxes and insurance, and operating and maintenance costs for the CNY headquarters and the Chelsea facility, and \$2.1 million for workers' compensation claims and medical expenses. Net of these agency-wide expenses, the Support Services Division accounts for 13% of direct expenses.

As shown below, a new separate Division Director department is included in the Proposed FY04 CEB. This department consists of administrative and security staff.

# **DIVISION DIRECTOR**

		PROPOS		Y04 Curren /ISION DIRI	•	U	et							
	FY01 FY02 FY03 FY04 Change													
LINE ITEM	Actual Actual Amended Proposed FY04 to FY03													
WAGES & SALARIES	\$	-	\$	-	\$	-	\$	361,607	\$	361,607	100.0%			
TRAINING & MEETINGS		-		-		-		5,000		5,000	100.0%			
OTHER MATERIALS		-		-		-		2,418		2,418	100.0%			
OTHER SERVICES 2,460 2,460 100.0%														
TOTAL	\$		\$	-	\$	-	\$	371,485	\$	371,485	100.0%			

The division's goals are to:

- Provide comprehensive administrative, technical, personnel, affirmative action, procurement and support services to all divisions to create a cooperative framework within which MWRA can operate effectively.
- Develop and implement policies and programs to ensure facility and water/wastewater system security, public health and staff safety.
- Ensure proper and effective communication between MWRA and the communities served, other agencies, and state and local officials.

#### INTERNAL AUDIT

PROPOSED FY04 Current Expense Budget INTERNAL AUDIT											
		FY01		FY02		FY03		FY04		Change	
LINE ITEM		Actual		Actual		Amended		Proposed		FY04 to FY03	
WAGES & SALARIES	\$	870,484	\$	671,363	\$	634,377	\$	514,660	\$	(119,717)	-18.9%
TRAINING & MEETINGS		21,478		10,079		12,339		12,350		11	0.1%
OTHER MATERIALS		2,541		2,353		2,465		2,000		(465)	-18.9%
OTHER SERVICES		1,925		2,478		2,135		1,843		(292)	-13.7%
TOTAL	\$	896,428	\$	686,273	\$	651,316	\$	530,853	\$	(120,463)	-18.5%

The Internal Audit Department monitors the efficiency and integrity of MWRA's operations and capital programs by auditing financial and program operations, reviewing compliance with accounting and management control systems, laws, and regulations, and coordinating the creation of and revisions to MWRA policies and procedures.

The Internal Audit Department's goals are to:

- Encourage more economical and efficient operations, adherence to sound management procedures, and the use of controls designed to safeguard MWRA assets.
- Assure that automated and supporting manual management information systems have secure data control environments and provide accurate and useful management information.
- Assure that contractors and consultants doing business with MWRA have accounting and billing systems
  adequate to provide current, complete, and accurate cost and price information and project billings. In
  FY02, Internal Audit identified \$3.41 million in savings, including \$2.17 million related to consultant
  billings to MWRA, \$780,000 related to the review of the CSO Financial Assistance Agreement with
  BWSC, negotiation of the Harbor Outfall Monitoring fourth contract, and \$462,000 related to construction
  change orders and claims.

- \$515,000 for Wages and Salaries, a reduction of \$120,000 or 19% from the amended FY03 budget and \$160,000 less than FY02 spending, to perform internal audits, management advisory services, preliminary review and incurred cost audits, and consultant disclosure statement reviews.
- \$12,350 training and meetings budget of which 65% is for travel to consultant offices required to perform cost audits.

## **PUBLIC AFFAIRS**

PROPOSED FY04 Current Expense Budget PUBLIC AFFAIRS												
FY01 FY02 FY03 FY04 Change												
LINE ITEM		Actual	Actual			Amended		Proposed		FY04 to FY03		
WAGES & SALARIES	\$	1,856,902	\$	2,013,515	\$	1,692,491	\$	1,267,295	\$	(425,196)	-25.1%	
OVERTIME		529		32		-		-		-	0.0%	
TRAINING & MEETINGS		7,018		8,375		7,055		3,930		(3,125)	-44.3%	
PROFESSIONAL SERVICES		23,550		25,894		4,050		1,050		(3,000)	-74.1%	
OTHER MATERIALS		39,920		28,798		24,901		22,443		(2,458)	-9.9%	
OTHER SERVICES		123,284		105,871		111,910		97,068		(14,842)	-13.3%	
TOTAL	\$	2,051,203	\$	2,182,485	\$	1,840,407	\$	1,391,786	\$	(448,621)	-24.4%	

The Public Affairs Department is the institutional link to all MWRA constituencies. The Community Relations Section deals directly with cities and towns in the service area, responds to inquiries about MWRA, proactively incorporates community concerns into MWRA project work, coordinates outreach and education initiatives to highlight MWRA programs, and provides technical expertise for specific projects and initiatives. Community Relations staff also work to ensure compliance with the Massachusetts Environmental Policy Act (MEPA), the Massachusetts Historical Commission (MHC), DEP, local conservation commissions, and the Boston Landmarks Commission (BLC). The Communications Section manages media relations, issues press releases and responds to information requests, oversees the design and distribution of MWRA publications, manages the web site, and provides design, editorial, and graphics services for other sections of MWRA. The Education Section is responsible for curriculum development, teacher training workshops, as well as providing school education materials to all grade levels on water quality, water conservation, wastewater topics, and environmental issues. The Intergovernmental Affairs Section works for passage of legislation necessary to carry out MWRA's mission, monitors legislation, responds to inquiries by elected and appointed officials, and pursues funding from the state legislature for MWRA projects.

The Public Affairs Department's goals are to:

- Enhance overall public understanding of MWRA's mission, goals, and benefits to the public through aggressive outreach and effective communication.
- Develop and implement proactive strategies for educating and informing key MWRA constituencies and the public at large about MWRA's mission, progress, and effective management.
- Gain public support for MWRA programs and projects, and respond to the needs and concerns of elected and appointed public officials.
- Provide support to MWRA staff to ensure that MWRA projects meet regulatory requirements in a
  cost-effective and efficient manner, and provide input to regulatory agencies in order to ensure
  MWRA interests are recognized during the development of regulations.

- \$1.3 million for Wages and Salaries, a reduction of \$425,000 or 25% from the amended FY03 budget and \$746,000 less than FY02 spending, reflecting staff reductions.
- \$120,000 for other materials and services, including \$70,000 to fund services associated with the publication and distribution of MWRA's Annual Report, as well as production of materials to inform the public about MWRA activities and to educate school children about Boston Harbor and other environmental matters. These line items have been reduced by \$17,000 or 13% from the amended FY03 budget reflecting scaled back education materials and elimination of funding for Envirolab boat tours.

## CENTRAL SUPPORT

PROPOSED FY04 Current Expense Budget CENTRAL SUPPORT													
FY01 FY02 FY03 FY04 Change													
LINE ITEM	Actual Actual Amended Proposed FY04 to FY03									03			
WAGES & SALARIES	\$	2,481,019	\$	2,388,415	\$	2,256,238	\$	1,439,744	\$	(816,494)	-36.2%		
OVERTIME		53,344		47,907		47,145		20,349		(26,796)	-56.8%		
FRINGE BENEFITS		1,553		1,113		3,961		50		(3,911)	-98.7%		
UTILITIES		587,504		814,871		987,724		917,759		(69,965)	-7.1%		
ONGOING MAINTENANCE		1,020,363		863,782		905,997		841,919		(64,078)	-7.1%		
TRAINING & MEETINGS		110		7,804		4,189		3,189		(1,000)	-23.9%		
PROFESSIONAL SERVICES		51,449		505,210		345,952		388,144		42,192	12.2%		
OTHER MATERIALS		497,083		428,169		351,134		195,217		(155,917)	-44.4%		
OTHER SERVICES		6,320,822		7,148,618		5,663,817		5,923,318		259,501	4.6%		
TOTAL	\$	11,013,247	\$	12,205,889	\$	10,566,157	\$	9,729,689	\$	(836,468)	-7.9%		

PROPOSED FY04 Current Expense Budget CENTRAL SUPPORT by Area											
FY01 FY02 FY03 FY04 Change											
AREA		Actual Actual Amended Proposed FY04 to FY						03			
Fleet Services	\$	1,324,000	\$	1,413,539	\$	1,414,032	\$	1,069,268	\$	(344,764)	-24.4%
FRSA		992,000		806,079		466,164		537,293		71,129	15.3%
Facilities Management		7,059,000		8,767,066		7,689,631		7,479,595		(210,036)	-2.7%
Administrative Services		1,205,000		1,219,205		996,329		643,529		(352,800)	-35.4%
Energy Services		434,000		-		-		-		-	0.0%
TOTAL	\$	11,014,000	\$	12,205,889	\$	10,566,156	\$	9,729,685	\$	(836,471)	-7.9%

The Central Support Department provides a wide range of support services to MWRA staff located at the Charlestown Navy Yard (CNY), Chelsea and Fore River Staging Area (FRSA) facilities. The department comprises three sections: Fleet Services, Facilities Management and Administrative Services.

Fleet Services manages and maintains MWRA's motor vehicle and equipment fleet and the radio communications network which provides communications and emergency support services to MWRA headquarters and field personnel. Fleet Services staff also manage development and processing of specifications for new vehicles and equipment, provide ongoing in-house training in safe driving procedures to MWRA drivers, and manage the gas card program and the fuel facility in Chelsea.

**Facilities Management** is responsible for coordinating site management activities at the Chelsea facility, CNY, and FRSA. Staff institute maintenance procedures; respond to facilities requests from building occupants, coordinate workspace planning, provide office furnishings; and are responsible for developing and implementing appropriate security measures to protect and preserve MWRA assets.

Staff are also responsible for the security, operation, and maintenance of the site utilities and various structures and buildings within **FRSA**. MWRA uses this facility for the operation of its sludge processing facility, Field Operations storage and work space, confined space entry training, the warehousing of materials, records, and geological samples and the Fore River Railroad Corporation's office, storage tracks and main rail line crossing the parcel. Of the approximately 50-acre site, Central Support is responsible for 35 acres, including several major buildings. The remaining site and one building at the northern end of the site are leased by the United States Naval Shipbuilding Museum. In turn the museum sub-leases much of its space to Water Transportation Alternatives, Inc., which utilizes the space for a parking lot and water shuttle ferry

to Boston and Logan Airport. MWRA notified the Museum that it does not intend to extend the lease beyond June 2003, when the lease term expires. MWRA is continuing to pursue options to surplus and sell those portions of FRSA not needed to support MWRA operations.

**Administrative Services** provides administrative and office support services that facilitate efficient use of MWRA resources. The Administrative Services Unit provides and manages the Motor Pools at Chelsea and CNY, copying and printing services, general office equipment repairs, transportation, mail and courier services, and receptionist coverage at CNY and the Chelsea facility.

### Central Support goals are to:

- Provide a safe, secure, and well-maintained working environment for all MWRA staff at Chelsea, CNY, and FRSA and provide appropriate space for staff by coordinating workspace planning, design, and furniture acquisitions.
- Maintain MWRA's vehicle and equipment fleet to minimize downtime and extend the life of the assets.
- Maintain and protect the Chelsea and FRSA facilities to prevent loss or deterioration of MWRA assets.
- Assist other MWRA divisions in their activities at FRSA by coordinating overall site development plans and monitoring the activities of operations at the site.
- Provide efficient and cost-effective administrative services to CNY and Chelsea facility staff.

## **Budget Highlights**

- Total budget of \$9.7 million, a decrease of \$836,000 or 8% from the amended FY03 budget reflecting reduced staff.
- \$20,000 for Overtime for coverage of support services. Overtime has decreased \$27,000 or 57% from the amended FY03 budget reflecting the elimination of 24-hour security at FRSA.
- \$918,000 for Utilities, a decrease of \$70,000 reflecting in part avoided costs as Navy Yard as space is consolidated.
- \$842,000 for Maintenance, a decrease of \$64,000 or 7% from the amended FY03 budget. The budget includes \$265,000 for automotive materials and services to maintain MWRA's vehicle fleet; \$133,000 to service and maintain radio communications equipment, security equipment, and card access at Chelsea, and \$39,000 to support maintenance agreements for copiers, facsimile machines, and other office equipment.
- \$388,000 for Professional Services, an increase of \$42,000 to fund security services.
- \$195,000 for Other Materials, a decrease of \$155,000 or 44% from the amended FY03 budget. The decrease reflects the transfer of the MWRA-wide office supply budget to Procurement and is now part of Materials Management warehouse inventory. Postage, routine delivery services, and overnight delivery services comprise 64% of this line item.
- \$5.9 million for Other Services, an increase of \$260,000 or 4.6%, to fund increases in operating expenses and taxes for CNY and insurance for the Chelsea facility. The increase also includes a surrender fee of \$182,000 to vacate a portion of the leased space in the Navy Yard prior to the lease expiration. This will result in reduced costs for rent and utilities.

#### **AFFIRMATIVE ACTION and COMPLIANCE**

			pense Budge IPLIANCE UN			
	FY01	FY02	FY03	FY04	Change	
LINE ITEM	Actual	Actual	Amended	Proposed	FY04 to FY	03
WAGES & SALARIES	\$ 597,828	\$ 643,963	\$ 575,738	\$ 551,090	\$ (24,648)	-4.3%
TRAINING & MEETINGS	2,895	3,800	1,700	1,450	(250)	-14.7%
PROFESSIONAL SERVICES	-	45,415	-	-	_	0.0%
OTHER MATERIALS	402	1,139	4,447	1,244	(3,203)	-72.0%
OTHER SERVICES	1,081	500	1,100	1,100	-	0.0%
TOTAL	\$ 602,206	\$ 694,817	\$ 582,985	\$ 554,884	\$ (28,101)	-4.8%

The Affirmative Action and Compliance Unit (AACU) develops, administers, and monitors compliance with all aspects of MWRA's Affirmative Action Plan, programs, and policies of affirmative action, equal opportunity, and non-discrimination. The director of AACU reports directly to the Board of Directors.

# AACU goals are to:

- Assist divisions and departments in the implementation of MWRA's affirmative action program and promote MWRA's policy of non-discrimination for all persons in or recruited for its work force.
- Maintain internal audit and reporting systems adequate to measure accomplishments in areas of identified underutilization of minorities and females and to evaluate the effectiveness of MWRA's affirmative action program.
- Communicate to managers and supervisors MWRA's commitment to equal opportunity and affirmative action.
- Provide for the equitable participation of minority and women-owned businesses (MBE/WBE) in procurement opportunities and ensure that minorities and women are represented in the labor force on construction contracts.

Assist divisions and departments in understanding MBE/WBE program policies and practices and monitor and report on contractor compliance.

#### **HUMAN RESOURCES**

	PROPOSI	FY04 Current JMAN RESOL	pense Budge CES	et			
	FY01	FY02	FY03		FY04	Change	;
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to F	Y03
WAGES & SALARIES	\$ 1,418,211	\$ 1,466,968	\$ 1,575,711	\$	1,589,386	\$ 13,675	0.9%
OVERTIME	76	123	1,322		440	(882)	-66.7%
FRINGE BENEFITS	10,150,368	10,698,306	11,264,609		12,535,906	1,271,297	11.3%
WORKERS' COMPENSATION	43,945	39,500	36,700		2,100,000	2,063,300	5622.1%
ONGOING MAINTENANCE	885	786	1,200		1,200	-	0.0%
TRAINING & MEETINGS	13,887	12,417	11,444		11,198	(246)	-2.1%
PROFESSIONAL SERVICES	417,410	845,583	419,250		579,470	160,220	38.2%
OTHER MATERIALS	26,614	39,366	24,175		21,925	(2,250)	-9.3%
OTHER SERVICES	70,933	27,482	22,652		26,115	3,463	15.3%
TOTAL	\$ 12,142,329	\$ 13,130,531	\$ 13,357,063	\$	16,865,640	\$ 3,508,577	26.3%

The Human Resources Department is comprised of three units.

The **Employment, Compensation, and Benefits Unit** coordinates and oversees all recruitment and selection activities to meet the business needs of MWRA, and develops and coordinates MWRA compensation benefits strategies and programs. The **Labor Relations Unit** is responsible for fulfilling MWRA's collective bargaining and contract administration obligations under Massachusetts' public sector collective bargaining law, its workers' compensation responsibilities, and its responsibilities for employee occupational safety and health. The **Training Unit** develops, coordinates, delivers, and evaluates MWRA technical and professional development training programs and other programs directed at the improvement of employee knowledge, skills, productivity, and the quality of workplace interaction. It is responsible for performance evaluation training, oversight and tracking, and administration of Employee Recognition, Employee Assistance, and Tuition Reimbursement programs. In addition, the Human Resources Department includes the **Centralized Fringe Benefits** cost center, which includes the budgets for fringe benefits for all MWRA employees as well as for mandatory payments for unemployment expenses and Medicare.

#### Human Resources Department goals are to:

- Attract and retain a qualified high-performance workforce, hire and promote qualified minority and female employees, and offer a competitive total compensation (salary and benefits) package to all employees.
- Maintain effective relationships with the unions representing the MWRA workforce while protecting and enhancing management flexibility, ensure that collective bargaining objectives are met, support MWRA initiatives by designing and implementing appropriate labor relations strategies, create an environment which fosters safety consciousness and productive work, maximize the number of early returns to work by employees who have incurred on-the-job injuries or illnesses, and aggressively manage the Workers' Compensation Program to reduce costs.

#### **Budget Highlights**

- \$1.6 million for Wages and Salaries, an increase of \$14,000 or less than 1% from the amended FY03 budget.
- \$12.5 million for Fringe Benefits, an increase of \$1.3 million or 11%, primarily due to increases for health insurance premiums. The budget includes \$10.5 million for MWRA's share of health insurance costs, \$1.0 million for MWRA's share of Medicare taxes, \$850,000 for MWRA's share of dental insurance costs and union health and welfare fund contributions, \$90,000 for unemployment insurance payments, and \$55,000 for tuition reimbursement.
- \$2.1 million for Workers' Compensation expenses. The budget for this program has been transferred from the Operations Division to Human Resources, where management and responsibility of the program and coordination with the third-party administrator exists.
- \$332,000 for professional development training services, an increase of \$144,000 from the amended FY03 budget to enhance technical training of MWRA staff to ensure that, where possible, existing personnel can staff the new Walnut Hill plant and other new facilities.
- The budget for other professional services includes \$58,000 for the Employee Assistance Program, \$15,000 for specialized investigation services, and \$25,000 for medical evaluation services.

#### MANAGEMENT INFORMATION SYSTEMS (MIS)

	PROPOSE	D F	Y04 Current MIS	Ex	pense Budge	et			
	FY01		FY02		FY03		FY04	Change	
LINE ITEM	Actual		Actual		Amended		Proposed	FY04 to FY0	3
WAGES & SALARIES	\$ 4,608,080	\$	5,355,511	\$	4,834,824	\$	4,939,914	\$ 105,090	2.2%
OVERTIME	3,104		2,668		2,678		2,678	-	0.0%
ONGOING MAINTENANCE	2,267,562		2,486,568		2,641,720		2,641,373	(347)	0.0%
TRAINING & MEETINGS	61,232		42,947		14,982		15,990	1,008	6.7%
PROFESSIONAL SERVICES	360,000		-		-		-	-	0.0%
OTHER MATERIALS	546,930		788,579		195,119		285,414	90,295	46.3%
OTHER SERVICES	510,846		742,137		705,429		770,300	64,871	9.2%
TOTAL	\$ 8,357,754	\$	9,418,410	\$	8,394,752	\$	8,655,669	\$ 260,917	3.1%

The MIS Department provides MWRA with the information processing capacity necessary to carry out its mission. Applications in use range from financial to operational, and enhance MWRA's ability to access data and improve internal controls, reporting, and management performance. In addition to computing systems, the department also provides library and records management services.

In FY04 MIS will continue to provide three categories of services:

- Operational services are day-to-day routine activities required for applications and systems to work, including preventive maintenance; replacement programs; minicomputer, server, network, and voice equipment availability; back-up and recovery; accounts payable and payroll generation; period closings; and scheduled report productions. Up-time goals based on industry norms have been established, as well as schedules for annual replacement programs. During FY01 and FY02 several major viruses affected e-mail and Internet services causing unscheduled minicomputer downtime. However, network and telecommunications reliability remained within the downtime limit of less than eight hours for the entire year. Cyber Security in FY03 has become a major work item and will continue to be so in FY04.
- Responsive services are provided as a result of calls for assistance, training, troubleshooting, repair of systems or requests for materials, research, and records. A range of performance measurements has been adopted based on business impact and problem type. The response rate target for calls to be closed within three days was increased to 90% at the start of FY02 compared to 80% in FY01. This target will continue for FY04 as well as a target to address 100% of system outages within one business day. Staff also track backlogs, average closure rates, and rolling averages to ensure responsiveness.
- Developmental services respond to requests for new or enhanced products, services, reports, and applications. These requests are generally turned into projects with plans, defined deliverables, and agreed upon schedules. MIS-generated projects based on infrastructure limitations, changing technology, and expiration of leased equipment may also be included. All activities seek to balance business demands with costs and the desire to be neither leading nor lagging with the use of technology. Measurement is based on timely completion of milestones and a +/- 10% of budget and schedule target is established for all major projects. In addition, for projects with large capital or CEB requirements, a customization cap is established and reported on.

MIS' goal is to support more than 1,200 MWRA users, including those at the Charlestown Navy Yard, Chelsea, and remote sites, by ensuring that:

- Existing applications, hardware, and network resources are cost-effectively maintained, supported, upgraded, and replaced.
- Information system development efforts are in line with the MWRA Business Plan, reflecting management priorities.
- System security and integrity are maintained.
- Flexible tools and system capabilities are provided in line with industry standards and norms.

#### **Budget Highlights**

- Total budget of \$8.7 million, an increase of \$260,000 from the amended FY03 budget, but a decrease of 763,000 from FY02 spending reflecting fewer staff.
- \$2.6 million for license and maintenance fees to support administrative, operations, and database applications used by MWRA staff.
- \$254,000 to replace printers, personal computers, and other equipment. In FY04, MIS will maintain a limited reserve of personal computers to replace failed desktop units and laptops. The PC replacement program budget will need to be increased in FY05, as useful life of existing inventory will have been nearly exhausted.
- \$580,000 for MWRA network and telephone services for Charlestown headquarters, the Chelsea facility, and Southborough. This is an increase of \$73,000 to support MWRA's security network.

#### PROCUREMENT

	PROPOSI	Y04 Current	pense Budge	et			
	FY01	FY02	FY03		FY04	Change	
LINE ITEM	Actual	Actual	Amended		Proposed	FY04 to FY	03
WAGES & SALARIES	\$ 3,114,016	\$ 3,145,862	\$ 3,171,117	\$	3,023,551	\$ (147,566)	-4.7%
OVERTIME	27,803	15,554	16,629		5,000	(11,629)	0.0%
FRINGE BENEFITS	1,424	301	-		-	-	0.0%
CHEMICALS	67	-	-		-	-	0.0%
ONGOING MAINTENANCE	(45,623)	517,308	-		-	-	0.0%
TRAINING & MEETINGS	20,787	6,783	14,081		16,100	2,019	0.0%
PROFESSIONAL SERVICES	1,610	-	-		-	-	0.0%
OTHER MATERIALS	21,927	9,850	16,900		171,125	154,225	912.6%
OTHER SERVICES	56,608	53,198	64,748		68,748	4,000	6.2%
TOTAL	\$ 3,198,619	\$ 3,748,856	\$ 3,283,475	\$	3,284,524	\$ 1,049	0.0%

The Procurement Department includes three units. The **Purchasing Unit** operates a competitive purchasing system for the procurement of materials, goods, and non-professional services in accordance with MWRA policies and procedures. The **Contract Management Unit** reviews, drafts, and negotiates contracts, amendments, and change orders for all professional, non-professional, and construction services contracts. Staff direct the bid, review, and selection process, and maintain a contracts database. The **Materials Management Unit** manages an authority-wide inventory control and management system for better control, storage, distribution, and accounting of MWRA's inventory. The unit will consolidate existing inventory locations into four regional warehouses/distribution centers that will support all MWRA activities. The consolidation will result in better control, reduce dollar inventory levels, and establish consistency across MWRA.

#### Procurement Department goals are to:

- Procure materials, equipment, supplies, and construction, professional, and non-professional services in a timely, efficient, and openly competitive process in accordance with MWRA policies and procedures, including those related to meeting affirmative action goals.
- Maintain centralized, efficient, cost-effective management of the spare parts and operating supplies inventory.
- Provide timely and high quality services to initiating divisions to enable MWRA programs to meet their public, production, and schedule responsibilities.

# **Budget Highlights**

• Total budget of \$3.3 million, level funded with the amended FY03 budget, but a decrease of \$465,000 from FY02 spending. The MWRA-wide office supply budget has been transferred from the Central Support Department to Materials Management and is now part of MWRA's warehouse inventory. Excluding this adjustment of \$157,000 the total proposed budget is 4.8% less than the amended FY03 budget.

#### REAL PROPERTY and ENVIRONMENTAL MANAGEMENT

	RE			pense Budge FAL MANAGE	ENT		
		FY01	FY02	FY03	FY04	Change	
LINE ITEM		Actual	Actual	Amended	Proposed	FY04 to FY	03
WAGES & SALARIES	\$	641,999	\$ 597,103	\$ 563,346	\$ 594,720	\$ 31,374	5.6%
UTILITIES		-	7,675	-	-	-	0.0%
ONGOING MAINTENANCE		-	-	-	-	-	0.0%
TRAINING & MEETINGS		1,623	4,092	3,600	3,600	-	0.0%
PROFESSIONAL SERVICES		-	14,789	-	-	-	0.0%
OTHER MATERIALS		1,483	1,430	1,714	1,414	(300)	-17.5%
OTHER SERVICES		243,798	199,526	165,394	293,820	128,426	77.6%
TOTAL	\$	888,903	\$ 824,615	\$ 734,054	\$ 893,554	\$ 159,500	21.7%

The Real Property and Environmental Management Department negotiates the purchase or lease of real estate and land necessary to support MWRA's capital projects. Staff participate in selecting sites, negotiating acquisitions or easements, and managing the sale or lease of MWRA surplus real property. Department staff manage environmental regulatory compliance at MWRA facilities and also provide special expertise and assistance to MWRA staff regarding air quality and hazardous material issues. Assistance includes air emission permits negotiation and preparation and submittal of monthly/quarterly monitoring reports.

Real Property and Environmental Management Department goals are to:

- Acquire the real property needed to complete MWRA's major capital projects in a timely and costeffective manner, and manage the disposition of surplus real property in a cost-effective manner, as
  well as to provide staff and others with current information, in a timely manner, regarding MWRA's
  real property rights.
- Centralize the environmental management program, providing technical assistance regarding hazardous waste management, air quality compliance, and related issues during all phases of MWRA projects, and monitoring of and providing assistance in maintaining environmental regulatory compliance at MWRA facilities.

#### **Budget Highlights**

• Total budget of \$894,000, an increase of \$160,000 from the amended FY03 budget, reflecting remediation projects planned in FY03 but deferred to FY04 and beyond due to the loss of Commonwealth debt service assistance.



# APPENDIX A

#### DESCRIPTIONS OF FUNCTIONAL AREAS

<u>Facilities Planning, Design, and Construction</u> - Management of planning, design, and construction activities to repair, rehabilitate, and construct MWRA transport, treatment, distribution, and support facilities. Functions include in-house engineering, drafting, surveying, technical assistance, environmental review, management of consultants, and construction project management, including contract management and administration. More than 90 projects valued at nearly \$7 billion are now in planning, design, or construction stages.

<u>Wastewater Transport</u> - The continuous transportation and delivery of an average of more than 350 million gallons per day of wastewater from user communities to the Deer Island and Clinton treatment plants. Includes operation and maintenance of a large network of interceptors, and numerous pump stations, CSOs, and headworks facilities, as well as regular inspection of interceptors and tidegates. System operation requires 1) very careful attention to wet weather flows which can double or even triple average daily flows, and 2) response to emergency conditions such as flooding, back-ups, and illegal sewer discharges.

<u>Wastewater Treatment</u> - The continuous treatment of wastewater to meet NPDES requirements at the Deer Island and Clinton treatment plants, as well as the conversion of wastewater residuals from the Deer Island plant into fertilizer pellets or sludge cake at the residuals processing facility in Quincy. Includes operation, maintenance, and technical and administrative support for all treatment facilities.

<u>Water Transmission, Distribution, and Treatment</u> - The transmission, pumping, treatment, and delivery of 250 million gallons per day of potable water from the Quabbin and Wachusett reservoirs to MWRA user communities. Includes operation and maintenance of aqueducts, tunnels, pipelines, pump stations, and treatment facilities. Also includes generation and sale of hydroelectric power.

Water and Wastewater Quality - Activities which work to ensure that the water MWRA delivers to user communities and that the wastewater discharged from MWRA treatment plants meet appropriate quality standards. Includes the Environmental Quality Department, which monitors sewage influent and effluent quality and the resulting impact on Boston Harbor; the Laboratory Services Department, which performs more than 150,000 analyses per year, including 30,000 tests to monitor and ensure the purity and quality of MWRA water at the system and community levels; and the TRAC Department, which operates a multi-faceted program to minimize and control the inflow of hazardous and toxic materials into the sewer system and includes permitting and monitoring of more than 800 industries.

Metering and Monitoring - Operation and maintenance of MWRA's 150 water meters, more than 200 wastewater meters, and a variety of instrumentation devices to ensure the accuracy and integrity of the meter systems and the information MWRA uses to support hydraulic modeling, planning, pipeline maintenance and rehabilitation, and customer assessments.

<u>Facilities and Equipment Management and Support</u> - Management and maintenance of approximately 500 MWRA vehicles and pieces of communications equipment; management of the Fore River Staging Area and MWRA headquarters, including more than \$5.75 million in leases for CNY and Linden Street; management of the new Chelsea Facility; provision of supply- and demand-side energy management services; office supplies and postage; and provision of library and records management services, copying and printing services, and other general office services.

<u>Administration</u> - Senior management and support staff in the offices of the Executive Director, Finance Division Director and Operations Division Administration; also includes funding for the Advisory Board and other MWRA advisory committees (WSCAC, WAC).

<u>Financial Management</u> - Management of budgeting, accounting and payments, payroll, rates and revenue, capital financing, investments, grants and loans, auditing, and review of compliance with accounting and management control systems related to MWRA's annual spending.

<u>Law</u> - Provision of legal analysis and counsel to MWRA's operating and support areas including environmental regulation, real estate, labor relations, and claims management, as well as representation of MWRA in all court-related matters.

<u>Human Resources</u> - Management and administration of human resources policies and programs for MWRA's employees, including recruitment and hiring; wage and salary compensation and fringe benefits of more than \$104 million; labor relations and collective bargaining for five bargaining units; development, implementation, and evaluation of occupational health and safety programs and practices; health screening and CDL testing; a \$1 million workers' compensation program; and annual provision of technical and non-technical training to MWRA employees.

<u>Procurement</u> - Management of the purchase of goods and professional and construction services needed to support MWRA's operating and capital programs and to ensure compliance with statutory, regulatory, and policy requirements, including MBE/WBE procurement goals. The Procurement Department annually manages the procurement of more than \$40 million of goods and materials as well as the procurement of an estimated 575 contracts, amendments, and change orders valued at approximately \$475 million.

<u>Public Affairs</u> - Activities to enhance public understanding of MWRA's mission, goals, and services through media outreach, public information, and educational initiatives. Responds to legislative inquiries from the 82 representatives and 26 senators representing the MWRA service area. Coordinates MWRA response to construction-related, operations, and financial issues in each of the 61 MWRA member communities.

MIS - Provides hardware, software, network/voice communications, systems training, and programming resources including telephones, personal computers, processing spreadsheet software. electronic and communications between remote sites and CNY. Specific applications and technologies are provided to support financial (budget, receivables/payables, rates, investments), operational (flow/meter capture, maintenance, materials management, safety), engineering (modeling, mapping, geographical information systems, project planning, computer-aided design), regulatory (TRAC, NPDES, water and wastewater quality), and administrative/support (payroll, training, contracts, purchasing) activities. This function is supported by the MIS Department, the FIS group at Deer Island, and other staff.

<u>Planning</u> - Coordinates development of the MWRA Business Plan and prepares other short-term and long-term plans to guide MWRA development and increase the overall efficiency and effectiveness of MWRA operations, maintenance, and capital programs; also includes the Real Property and Environmental Management Department, which negotiates the purchase or lease of real estate and land needed to support MWRA capital projects and provides special environmental and policy expertise and assistance to MWRA staff.

# **APPENDIX B**

#### DIRECT EXPENSE BUDGET LINE ITEMS

#### Introduction

MWRA's direct expense budget funds the annual expenses of its operating and support divisions. Though the direct expense budget constitutes less than half of MWRA's total budget, it is these expenses which directly support the provision of water and sewer services to MWRA's customers. The direct expense budget includes the annual costs of operating the water and sewer systems, and funds the policy direction, administrative, and legal support services for financial. MWRA's ongoing operations. The direct expense budget also includes the personnel costs for management and oversight of MWRA's extensive capital programs.

There are 11 line items in the division budgets. The line items are:

**Wages and Salaries** - This line item includes funds for regular pay, shift differential, and holiday pay for MWRA staff, as well as funds for interns and temporary staff.

**Overtime** - This line item includes funds for overtime related to operations, emergencies, and training.

**Fringe Benefits** - This line item includes funds for health and dental insurance, unemployment compensation, Medicare, and overtime meals.

Workers' Compensation - This line item includes funds for compensation payments, medical payments, and settlements of compensation claims.

Chemicals - This line item includes funds for the chemicals used in water and wastewater treatment, such as chlorine, sodium hypochlorite,

potassium permanganate, and hydrofluosilicic acid

**Utilities** - This line item includes funds for electricity, fossil fuels, and other utilities such as water and sewer services paid by MWRA to the towns in which it operates facilities.

**Maintenance** - This line item includes funds to purchase materials and services for the maintenance of MWRA's plants and machinery, water and sewer pipelines, grounds, and buildings.

**Training and Meetings** - This line item covers the costs of staff training, meetings, and professional seminars.

**Professional Services** - This line item funds outside consultants supporting MWRA activities, including engineering and construction services, laboratory and testing contracts, computer system consultants, and legal and audit services.

Other Materials - This line item includes funds for office materials, equipment, postage, laboratory supplies, MWRA vehicles, work clothes, and computer hardware and software.

**Other Services** - This line item includes funds for space leasing, health and safety initiatives, removal of grit and screenings from the sewerage system, and the contracted operation of MWRA's residuals processing plant.

Sections II – VI present summaries of the MWRA's five division budgets with a detailed description of program budgets and highlights within each division section.

# Appendix C



# Position Control Register (Feb-2003)

Massachusetts Water Resources Authority

DEPARTMENT	PCR#	•	POSITION	TITLE			
BOARD OF DIRECTORS		EX	ECUTIVE				
01110	11100	ВО	ARD OF DIRECTORS	J			
	1110001		ASST TO THE BOARD OF	DIRECTORS			
SUB COST CENT	ĒR	Total Positions:	1	Vacants:	0	Filled Positions:	1
COST CENTER		Total Positions:	1	Vacants:	0	Filled Positions:	1
DEPARTMENT		Total Positions:	1	Vacants:	0	Filled Positions:	1
EXEC DIR OFFICE		EX	ECUTIVE				
01210	12100	EXI	EC DIRECTOR'S OFFI	CE			
	1210001		EXECUTIVE DIRECTOR				
	1210003		ASSISTANT TO EXECUTI	VE DIRECTR			
	1210004		EXECUTIVE ASSISTANT				
	1210005		FINANCIAL & ADMIN MAN	IAGER			
	1210008		POLICY & PLANNING MA	NAGER			
SUB COST CENT	ER .	Total Positions:	5	Vacants:	0	Filled Positions:	5
COST CENTER		Total Positions:	5	Vacants:	0	Filled Positions:	5
DEPARTMENT		Total Positions:	5	Vacants:	0	Filled Positions:	5
DIVISION		Total Positions:	6	Vacants:	0	Filled Positions:	6

DEPARTMENT		PCR#		POSITION	TITLE				
DIRECTOR'S OFFICE	<u> </u>		F	INANCE					
0411	10	41100	DIF	RECTOR'S OFFICE					
	. •	4110001		ACTING DIRECTOR, FINAL	NCE				
		4110001		EXECUTIVE SECRETARY	102				
		4110005		ADMINISTRATIVE MANAG	ER				
		4110006		EXECUTIVE SECRETARY					
		4110007		SECRETARY I					
	SUB COST CENTER		Total Positions:	5		Vacants:	1	Filled Positions:	4
	COST CENTER		Total Positions:	5		Vacants:	1	Filled Positions:	4
	DEPARTMENT		Total Positions:	5		Vacants:	1	Filled Positions:	4
PLAN & COORD			F	INANCE					
0421	10	42100	PL	ANNING & COORDINAT	ION				
		4210001		DIRECTOR, PLANNING & 0	COORD				
		4210001		PLANNING MANAGER					
	SUB COST CENTER		Total Positions:	2		Vacants:	0	Filled Positions:	2
	COST CENTER		Total Positions:	2		Vacants:	0	Filled Positions:	2
	DEPARTMENT		Total Positions:	2		Vacants:	0	Filled Positions:	2
CONTROLLER	-		F	INANCE					
0431	10	43100	СО	NTROLLER					
		4310001		CONTROLLER					
		4310002		SR ACCOUNTANT					
		4310004		SR ACCOUNTANT					
		4310005		PAYROLL MANAGER					
		4310006		PAYABLES SUPERVISOR					
		4310007		PAYABLES COORDINATO	R				
		4310008		ACCOUNTING MANAGER					
		4310009		DEPUTY ACCOUNTS PAY	ABLE MGF	₹			
		4310010		DEPUTY ACCOUNTS PAY	ABLE MGF	₹			
		4310011		SR ACCOUNTANT					
		4310012		ASSOC. MANAGER, A/P					
		4310013		PAYABLES COORDINATO	R				
		4310014		PAYABLES COORDINATO	R				
		4310015		PAYABLES COORDINATO					
		4310016		PAYABLES COORDINATO					
		4310017		PAYROLL ADMINISTRATO					
		4310018		ASST PERSONNEL/PAYRO	OLL ADMI	N			
		4310019		PAYROLL SPECIALIST					
		4310020 4310021		PAYROLL SPECIALIST PAYROLL ASSISTANT					
		4310021		PAYROLL ASSISTANT					
		4310023		PAYROLL ADMINISTRATIV	E ASST				
		4310025		PAYROLL ASSISTANT					
		4310026		PAYROLL ADMINISTRATIV	E ASST.				
		4310027		PAYROLL ASSISTANT					
		4310028		ACCOUNTS PAYABLE MAI	NAGER				
		4310029		DEPUTY PAYROLL MANAG	SER				
	SUB COST CENTER		Total Positions:	27		Vacants:	5	Filled Positions:	22

DEPARTMENT	PCR#		POSITION TITLE				
COST CENTER		Total Positions:	27	Vacants:	5	Filled Positions:	22
DEPARTMENT		Total Positions:	27	Vacants:	5	Filled Positions:	22
RATES & BUDGET		F	FINANCE				
04410	44100	RA	TES & BUDGET				
	4410001		BUDGET DIRECTOR				
	4410003		SENIOR FINANCIAL ANALYST				
	4410004		FINANCIAL IS PROJECT LEADER				
	4410007		SR FINANCIAL ANALYST				
	4410011		BUDGET MANAGER				
	4410012		ASSISTANT BUDGET MANAGER				
	4410015		ASSIST MANGR RATES, REV & FIN				
	4410016		SR FINANCIAL ANALYST				
	4410019		DOCUMENT/REPORT DEVELOP SPE	EC			
SUB COST CENTE	ER .	Total Positions:	9	Vacants:	1	Filled Positions:	8
COST CENTER		Total Positions:	9	Vacants:	1	Filled Positions:	8
DEPARTMENT		Total Positions:	9	Vacants:	1	Filled Positions:	8
TREASURY		F	FINANCE				
04510	45100	TR	EASURY				
	4510001		TREASURER				
	4510002		SR FINANCIAL PROJECTS ANALYST	Γ			
	4510003		ACCOUNT COORDINATOR				
	4510004		ACCOUNT COORDINATOR				
	4510006		CASH MANAGER				
	4510007		MANAGER, DEBT & INVESTMENT				
	4510008		RISK MANAGEMENT COORDINATOR	R			
	4510009		DEBT/INVESTMENT ANALYST				
	4510030		FINANCIAL COORDINATOR				
	4510037		MANAGER, RISK MANAGEMENT				
	4510038		CLAIMS COORDINATOR				
	4510041		DIRECTOR, ADM & FED/STATE FIN.				
	4510042		ASST GRANTS MANAGER				
	4510043		CLAIMS MANAGEMENT SPECIALIST	-			
SUB COST CENTE		Total Positions:	14	Vacants:	3	Filled Positions:	11
			14	Vacants:	3	Filled Positions:	11
COST CENTER		Total Positions:	17	· acame.	Ū		
		Total Positions:	14	Vacants:	3		11

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OPERATIONS ADMIN		OPERATIONS				
05210	52100	OPERATIONS ADMINISTRATION	I			
	5210001	CHIEF OPERATING OFFICER				
	5210002	DEPUTY CHIEF OPERATING OFF	ICER			
	5210003	SPECIAL ASST TO DIV DIRECTOR	₹			
	5210004	SECRETARY I				
	5210006	HEAD ADMINISTRATIVE ASSISTA	NT			
	5210007	MANAGER, CONTRACT ADMIN				
	5210008	ASST MANAGER, CONTRACT ADI	ΛIN			
	5210009	CONTRACT ADMINISTRATOR				
	5210010	CONTRACT ADMINISTRATOR				
	5210011	CONTRACT ASSISTANT				
	5210012	ADMINISTRATIVE SYSTEMS COC	RD			
	5210013	CONTRACT ASSISTANT				
	5210015	MANAGER,FINANCE				
	5210016	SENIOR FINANCIAL ANALYST				
	5210018	MANAGER,CEB				
	5210019	CONTRACT ASSISTANT	_			
	5210020	LABOR RELATION/PLAN ANALYS	Т			
	5210023	SENIOR FINANCIAL PLANNER				
	5210024	HEAD CLERK				
	5210025 5210027	EXECUTIVE SECRETARY HEAD CLERK				
	5210027	SENIOR FINANCIAL ANALYST				
	5210030	DIRECTOR COORDINATION&COI	JTROI			
	5210037	SR CONTRACT ADMINISTRATOR				
	5210040	CONTRACT ADMINISTRATOR	,			
	5210042	SR CONTRACT ADMINISTRATOR				
	5210043	MANAGER,CONTRACT ADMIN				
	5210045	ASSISTANT FINANCE MANAGER				
	5210046	CONTRACT ADMINISTRATOR				
	5210047	ADMINISTRATIVE SYSTEMS COC	RD			
	5210048	SR CONTRACT ADMINISTRATOR				
	5210049	CONTRACT ADMINISTRATOR				
	5210050	MANAGER,FIN & SPEC PROJECT	S			
	5210053	ADMINISTRATIVE SYSTEMS COO	RD			
	5210057	JR ENGINEERING AIDE				
	5210058	TECHNICAL ASSISTANCE MANAGE	SER			
	5210059	MANAGER, CONTRACT ADMINIS				
	5210061	SR CONTRACT ADMINISTRATOR				
	5210063	SR CONTRACT ADMINISTRATOR				
	5210065	SENIOR PROGRAM MANAGER				
	5210066	CONTRACT ADMINISTRATOR				
	5210068	DIRECTOR, PROGRAM MANAGEI	MENT			
	5210070	EXECUTIVE SECRETARY				
SUB COST CENTER	Total Position	ns: 43	Vacants:	2	Filled Positions:	41
COST CENTER	Total Position	ns: 43	Vacants:	2	Filled Positions:	41
DEPARTMENT	Total Position	ns: 43	Vacants:	2	Filled Positions:	41
	<del></del>		-	-	·	·

ENQUAD			OPERATIONS
	02250	22500	ENVIRONMENTAL QUALITY

DEPARTMENT		PCR#		POSITION	TITLE				
		2250002		PROJECT MANAGER,ENV	DIRMEN DATA				
		2250003		PROJECT MANAGER, MAR	RINE STUDY				
		2250004		PRJT MGR, HRBR & OUTF	L MNTRING				
		2250005		PROGRAM MANAGER, WA	TER QUALITY				
		2250006		PROGRAM MANAGER, OU	TFALL MONIT				
		2250009		ENVIRONMENTAL INFORM	IATION ANAL				
		2250010		ADMINISTRATIVE MANAG	ĒR				
		2250011		BIOLOGIST IV					
		2250012		ENVIRONMENTAL SCIENT	IST				
		2250013		PROJECT MANAGER					
		2250014		PROJECT MANAGER					
		2250015		SR PROGRAM MANAGER					
		2250016		SEWERAGE QUALITY DAT	ABASE COOR				
		2250017		STAFF ENGINEER					
		2250018		PROJECT ENGINEER					
		2250019		PROJECT MGR, MARINE II	NFO ANLST				
	SUB COST CENTER		Total Positions:	17	Vacar	its:	1	Filled Positions:	16
	COST CENTER		Total Positions:	17	Vacar	ts:	1	Filled Positions:	16
	DEPARTMENT		Total Positions:	17	Vacar	ts:	1	Filled Positions:	16
RESIDUALS MGT			ОР	PERATIONS					
021	150	21500	ОР	PERATIONS & ADMIN					
		2150002		PROJECT MANAGER, RES	IDUALS				
		2150003		PROJECT ENGINEER					
		2150006		MANAGER, RESIDUALS O	PERATIONS				
	SUB COST CENTER		Total Positions:	3	Vacar	its:	0	Filled Positions:	3
	COST CENTER		Total Positions:	3	Vacar	ts:	0	Filled Positions:	3
								Filled Desitions	3
	DEPARTMENT		Total Positions:	3	Vacar	its:	0	Filled Positions:	
DEER ISLAND	DEPARTMENT			3 PERATIONS	Vacar	ts:	0	Filled Positions:	
DEER ISLAND		29150	OP		Vacar	ts:	0	Filled Positions:	
			OP	PERATIONS  ./DIRECTORS/OFFICE	Vacar	ts:	0	Filled Positions:	
		<b>29150</b> 2915001 2915009	OP	PERATIONS		ts:	0	Filled Positions:	<u> </u>
		2915001	OP	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA			0	Filled Positions:	2
	915	2915001	OP D.I	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA	ANT I	ıts:			
	SUB COST CENTER  COST CENTER	2915001	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA	NT I Vacar Vacar	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009	OP D.I Total Positions:	DERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA  2	Vacar Vacar ORING	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE DIRECTOR, DIWWTP ADMINISTRATIVE ASSISTA 2 2 PROC CONTRL&MONIT	Vacar Vacar ORING OCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR	Vacar Vacar ORING OCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE DIRECTOR, DIWWTP ADMINISTRATIVE ASSIST, 2  2  PROC CONTRL&MONIT PROGRAM MANAGER, PR PROGRAM MANAGER, PIC	Vacar Vacar ORING OCESS ENG S CONTROL	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PROPROGRAM MANAGER, PIC  PROJECT MANAGER	Vacar Vacar ORING DCESS ENG ES CONTROL	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925015	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR  PROGRAM MANAGER, PIC  PROJECT MANAGER  PICS PROJECT ENGINEER	Vacar Vacar ORING OCESS ENG S CONTROL	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925015 2925016	OP D.I Total Positions:	PERATIONS  JUNECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSISTA  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PRO PROJECT MANAGER  PICS PROJECT ENGINEER  PROJECT MANAGER, PICS	Vacar Vacar ORING OCESS ENG S CONTROL	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 292500 2925012 2925013 2925014 2925015 2925016 2925018	OP D.I Total Positions:	PERATIONS  JURECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR  PROGRAM MANAGER, PIC  PROJECT MANAGER  PICS PROJECT ENGINEER  PROJECT MANAGER, PICS  PROJECT MANAGER, PICS	Vacar  Vacar  ORING  OCESS ENG S CONTROL  S A  NETWORK OCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925015 2925016 2925018 2925019	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR  PROGRAM MANAGER, PIC  PROJECT MANAGER  PICS PROJECT ENGINEER  PROJECT MANAGER, PICS  PROJECT MANAGER, PICS  PROJECT MANAGER, PICS  PROJECT MANAGER, PICS  PROGRAM MANAGER, PROGRAM M	Vacar  Vacar  ORING  OCESS ENG S CONTROL  S A  NETWORK OCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925015 2925016 2925018 2925019 2925021	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE DIRECTOR, DIWWTP ADMINISTRATIVE ASSIST, 2  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR PROGRAM MANAGER, PIC PROJECT MANAGER PICS PROJECT ENGINEER PROJECT MANAGER, PICS PROJECT MANAGER, PICS PROJET MANAGER, PICS PROGRAM MANAGER, PR PROGRAM MANAGER, PR PROGRAM MANAGER, PR	Vacar  Vacar  Vacar  ORING  DCESS ENG  S CONTROL  S NETWORK  DCESS ENG  DCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925015 2925016 2925018 2925019 2925021 2925021	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PR  PROGRAM MANAGER, PICS  PROJECT MANAGER  PICS PROJECT ENGINEER  PROJECT MANAGER, PICS  PROJET MANAGER, PICS  PROGRAM MANAGER, PR  PROGRAM MANAGER, PR  PROGRAM MANAGER, PR  PROGRAM MANAGER	Vacar  Vacar  Vacar  ORING  DCESS ENG  S CONTROL  S NETWORK  DCESS ENG  DCESS ENG	ıts:	0	Filled Positions:	2
029	SUB COST CENTER  COST CENTER	2915001 2915009 29250 2925012 2925013 2925014 2925016 2925018 2925019 2925021 2925022 2925022	OP D.I Total Positions:	PERATIONS  JOIRECTORS/OFFICE  DIRECTOR, DIWWTP  ADMINISTRATIVE ASSIST,  2  PROC CONTRL&MONIT  PROGRAM MANAGER, PRO PROJECT MANAGER, PICS PROJECT MANAGER, PICS PROJECT MANAGER, PICS PROJET MANAGER, PICS PROGRAM MANAGER, PRO PROGRAM MANAGER, PRO PROGRAM MANAGER, PRO PROJECT MANAGER, PRO	Vacar  Vacar  Vacar  ORING  OCESS ENG  S CONTROL  R  S  NETWORK  OCESS ENG  OCESS ENG	ıts:	0	Filled Positions:	2

DEPARTMENT		PCR#		POSITION TITLE				
		2925030		PROJECT ENGINEER, PROCESS				
		2925031		DATA ENTRY CLERK				
		2925032		PROGRAM MANAGER, PROCESS EN	lG			
		2925033		PROGRAM MANAGER, PROCESS EN	NG			
		2925034		MONITORING COORDINATOR				
	SUB COST CENTER		Total Positions:	18	Vacants:	3	Filled Positions:	15
	COST CENTER		Total Positions:	18	Vacants:	3	Filled Positions:	15
	02930	29305	OP	ER MGMNT/DIRECT OFFICE				
		2930501		MANAGER, THERMAL POWER PLAN	IT			
		2930502		SHIFT OPERATIONS MANAGER				
		2930503		SHIFT OPERATIONS MANAGER				
		2930504		ACTING SR SHIFT MANAGER				
		2930505		SHIFT OPERATIONS MANAGER				
		2930506		SHIFT OPERATIONS MANAGER				
		2930507		SHIFT OPERATIONS MANAGER				
		2930508		SHIFT OPERATIONS MANAGER				
		2930509		PROGRAM MANAGER, ENERGY				
		2930510		OPERATIONS PROCESS MANAGER				
		2930512		DEPUTY DIRECTOR, OPERATIONS				
		2930514		ADMINISTRATIVE ASSISTANT I				
		2930515		MANAGER, POWER GENERATION				
		2930517		TECHNICAL ASSISTANT				
	SUB COST CENTER		Total Positions:	14	Vacants:	2	Filled Positions:	12
	02930	29310	ТН	ERMAL				
		2931001		SECOND CLASS ENGINEER				
		2931002		SECOND CLASS ENGINEER				
		2931004		SECOND CLASS ENGINEER				
		2931009		THIRD CLASS ENGINEER				
		2931010		THIRD CLASS ENGINEER				
		2931011		THIRD CLASS ENGINEER				
		2931012 2931014		THIRD CLASS ENGINEER THIRD CLASS ENGINEER				
		2931014		THIRD CLASS ENGINEER  THIRD CLASS ENGINEER				
		2931013		SECOND CLASS ENGINEER				
		2931017		THIRD CLASS ENGINEER				
		2931017		TECHNICAL ASSISTANT				
	SUB COST CENTER		Total Positions:		Vacants:	2	Filled Positions:	10
	-	20220		IMARY/GRIT	vacants.		Tilled Fositions.	10
	02930	29320	PK					
		2932001		OPERATOR				
		2932002		AREA SUPERVISOR				
		2932003		OPERATOR				
		2932004		AREA SUPERVISOR				
		2932005		OPERATOR OPERATOR				
		2932006		OPERATOR  AREA SUREDVISOR				
		2932008		AREA SUPERVISOR				
		2932010		AREA SUPERVISOR				
		2932011		OPERATOR OPERATOR				
		2932012		OPERATOR OPERATOR				
		2932013		OPERATOR OPERATOR				
		2932014		OPERATOR OPERATOR				
		2932017		OPERATOR  AREA SUREDVISOR				
		2932019		AREA SUPERVISOR				

DEPARTMENT		PCR#		POSITION TITL	E			
		2932020		AREA SUPERVISOR				
		2932020		AREA SUPERVISOR				
		2932025		OPERATOR				
		2932027		OPERATOR				
		2932032		OPERATOR				
		2932033		AREA SUPERVISOR				
		2932034		STP ATTENDANT				
	SUB COST CENTER		Total Positions:	21	Vacants:	3	Filled Positions:	18
	02930	29330	PU	MPING/LOGISTICS				
		2933001		OPERATOR				
		2933002		OPERATOR				
		2933004		AREA SUPERVISOR				
		2933006		AREA SUPERVISOR				
		2933007		OPERATOR				
		2933008		OPERATOR				
		2933011		OPERATOR				
		2933013		OPERATOR				
		2933015		AREA SUPERVISOR				
	SUB COST CENTER	2933017	Total Positions:	OPERATOR 10	Vacants:	0	Filled Positions:	10
	-	00040			v dodino.		T mod T contone.	
	02930	29340		SIDUALS				
		2934004		AREA SUPERVISOR				
		2934006		OPERATOR				
		2934007 2934011		OPERATOR AREA SUPERVISOR				
		2934011		OPERATOR				
		2934013		OPERATOR				
		2934014		OPERATOR				
		2934015		AREA SUPERVISOR				
		2934016		OPERATOR				
		2934017		AREA SUPERVISOR				
		2934018		OPERATOR				
		2934020		OPERATOR				
	SUB COST CENTER		Total Positions:	12	Vacants:	1	Filled Positions:	11
	02930	29360	SE	CONDARY				
		2936006		OPERATOR				
	SUB COST CENTER		Total Positions:	1	Vacants:	0	Filled Positions:	1
	COST CENTER		Total Positions:	70	Vacants:	8	Filled Positions:	62
	02940	29410	SA	FETY				
		2941001		ACTING MAGR, SEC & EMERG	PLNNG			
		2941002		SAFETY TECHNICIAN				
		2941003		O&M SAFETY SPECIALIST				
		2941004		SECRETARY I				
		2941005		SECRETARY I				
	SUB COST CENTER		Total Positions:	5	Vacants:	2	Filled Positions:	3
	02940	29450	DI//	ADMINISTRATION&FINANC	E			
		2945003		HEAD CLERK				
		2945004		RECEPTIONIST				
		2945004		SECRETARY II - SHARE				
		2945005		FINANCIAL ANALYST				

DEPARTMENT			PCR#		POSITION TITLE				
			2945007		BUILDING/GROUNDS WORKER				
			2945011		FINANCE & TECH SUPPORT ANALYS	ST			
			2945012		SECRETARY I				
			2945013		DEPUTY DIR, O&M SUPPORT SVS				
			2945014		MANAGER, ADMIN AND FINANCE				
	-	SUB COST CENTER		Total Positions:	8	Vacants:	1	Filled Positions:	7
	02940		29460	co	OMPLIANCE				
			2946003		ADMINISTRATIVE COORDINATOR				
			2946004		JR SANITARY ENGINEER				
			2946005		PROJECT ENGINEER, PILOT PLANT				
			2946006		PROJECT MANAGER, PROCESS EN	G			
	=	SUB COST CENTER		Total Positions:	4	Vacants:	0	Filled Positions:	4
		COST CENTER		Total Positions:	17	Vacants:	3	Filled Positions:	14
	02970		29710	TE	CHNICAL INFORMATION				
			2971001		PROGRAM MANAGER, TECH INFO				
			2971003		TIC CLERK				
			2971004		O&M SYSTEMS SPECIALIST				
			2971005		PROJECT ENGINEER, CADD				
			2971006		CADD COORDINATOR				
		SUB COST CENTER		Total Positions:	5	Vacants:	0	Filled Positions:	5
	02970	1	29720	CA	PITAL DESIGN/PLANNING				
			2972004		PROGRAM MANAGER, MECHANICAL				
			2972006		SR SANITARY ENGINEER				
			2972010		PROJECT MANAGER				
			2972011		PROGRAM MANAGER				
			2972012		MANAGER, ENGINEERING SERVICE	S			
			2972013		TECHNICAL SUPPORT SPECIALIST				
			2972016		CONTRACT/PROCUREMENT ASSIST	ΓANT			
			2972017		ADMINISTRATIVE MANAGER				
			2972019		PROGRAM MANAGER				
	=	SUB COST CENTER		Total Positions:	9	Vacants:	1	Filled Positions:	8
		COST CENTER		Total Positions:	14	Vacants:	1	Filled Positions:	13
	02980	ı	29800	MA	AINT. DIRECTOR'S OFFICE				
			2980001		DEPUTY DIRECTOR, MAINTENANCE				
			2980002		SECRETARY I				
			2980003		ADMINISTRATIVE SYSTEMS COORD	)			
			2980004		MAINTENANCE MANAGER				
			2980005		ASSETS MANAGER				
			2980006		JR CIVIL ENGINEER				
			2980007		CONSTRUCTION COORDINATOR				
		SUB COST CENTER		Total Positions:	7	Vacants:	0	Filled Positions:	7
						-			
	02980		29805	FA	CILITIES COORDINATION				
	-	l.	<b>29805</b> 2980501	FA	CILITIES COORDINATION  BUILDING/GROUNDS SUPERVISOR				
	-	ı		FA					
	-		2980501	FA	BUILDING/GROUNDS SUPERVISOR				
	-		2980501 2980502	FA	BUILDING/GROUNDS SUPERVISOR BUILDING/GROUNDS WORKER				
	-	1	2980501 2980502 2980503	FA	BUILDING/GROUNDS SUPERVISOR BUILDING/GROUNDS WORKER BUILDING/GROUNDS SUPERVISOR				
	-		2980501 2980502 2980503 2980504	FA	BUILDING/GROUNDS SUPERVISOR BUILDING/GROUNDS WORKER BUILDING/GROUNDS SUPERVISOR BUILDING/GROUNDS WORKER				

DEPARTMENT		PCR#		POSITION TITLE				
		2980508		BUILDING/GROUNDS WORKER				
		2980509		BUILDING/GROUNDS WORKER				
		2980510		BUILDING/GROUNDS WORKER				
		2980511		BUILDING/GROUNDS WORKER				
		2980512		BUILDING/GROUNDS WORKER				
		2980513		EQUIPMENT REPAIR SPECIALIST				
		2980514		BUILDING/GROUNDS EQUIP OPER				
		2980515		EQUIPMENT REPAIR SUPERVISOR				
		2980516		BUILDING/GROUNDS EQUIP OPER				
		2980517		EQUIPMENT REPAIR SPECIALIST				
		2980518		ACTING BLD/GRNDS EQUIP OPERAT	R			
		2980519		MECHANIC SPECIALIST				
		2980520		FACILITIES SPECIALIST				
		2980521		FACILITIES SPECIALIST				
		2980522		TRADES FOREMAN				
		2980523		FACILITIES SPECIALIST				
		2980524		BUILDING/GROUNDS WORKER				
		2980525 2980526		FACILITIES MANAGER				
		∠90U3Zb		BUILDING/GROUNDS WORKER				
	SUB COST CENTER		Total Positions:	26	Vacants:	3	Filled Positions:	23
0:	2980	29810	PU	MP/POWER				
		2981021		M&O SPECIALIST				
		2981023		M&O SPECIALIST				
		2981024		UNIT SUPERVISOR				
		2981027		M&O SPECIALIST				
		2981028		M&O SPECIALIST				
	OUR COOT OFFITER							
	SUB COST CENTER		Total Positions:	5	Vacants:	0	Filled Positions:	5
0:	2980	29815		5 ANT ENGINEERING	Vacants:	0	Filled Positions:	5
0		<b>29815</b> 2981501			Vacants:	0	Filled Positions:	5
0.			PL	ANT ENGINEERING	Vacants:	0	Filled Positions:	5
0:		2981501	PL	ANT ENGINEERING SR PROGRAM MANAGER	Vacants:	0	Filled Positions:	5
0:		2981501 2981502	PL	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL	Vacants:	0	Filled Positions:	5
0		2981501 2981502 2981503	PL	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C	Vacants:	0	Filled Positions:	5
0:		2981501 2981502 2981503 2981504	PL	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER	Vacants:	1	Filled Positions:	4
	2980	2981501 2981502 2981503 2981504	PL	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505	PL	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505	PL Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 <b>29820</b> 298208	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5 IMARY/SECONDARY AREA MANAGER, MECH/PRIMARY				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 <b>29820</b> 298208 2982014 2982016 2982017	PL Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 298208 2982014 2982016 2982017 2982018	PL: Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST  STP MECHANIC  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 2982008 2982014 2982016 2982017 2982018 2982019	PL: Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST  STP MECHANIC  M&O SPECIALIST  M&O SPECIALIST  M&O SPECIALIST  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 2982008 2982014 2982016 2982017 2982018 2982019 2982021	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5 IMARY/SECONDARY AREA MANAGER, MECH/PRIMARY M&O SPECIALIST STP MECHANIC M&O SPECIALIST M&O SPECIALIST M&O SPECIALIST M&O SPECIALIST M&O SPECIALIST M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 298200 2982008 2982014 2982016 2982017 2982018 2982019 2982021 2982026	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST STP MECHANIC M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 298208 2982014 2982016 2982017 2982018 2982019 2982021 2982026 2982027	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 298208 2982014 2982016 2982017 2982018 2982019 2982021 2982021 2982026 2982027 2982028	PL: Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 29820 298208 2982014 2982016 2982017 2982018 2982019 2982021 2982026 2982027 2982028 2982031	PL: Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 298200 2982008 2982014 2982016 2982017 2982018 2982019 2982021 2982021 2982027 2982028 2982031 2982031	PL: Total Positions:	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST  UNIT SUPERVISOR  M&O SPECIALIST  UNIT SUPERVISOR				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505  29820 2982008 2982014 2982016 2982017 2982018 2982019 2982021 2982027 2982028 2982031 2982032 2982033	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505  29820 2982008 2982014 2982016 2982017 2982021 2982021 2982021 2982027 2982028 2982031 2982032 2982033 2982034	PLI Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 298200 298200 2982014 2982016 2982017 2982018 2982019 2982021 2982026 2982027 2982028 2982031 2982032 2982033 2982034 2982035	PL Total Positions:	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST AREA MANAGER, SECONDARY				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 2981505 298200 2982008 2982014 2982016 2982017 2982018 2982019 2982021 2982021 2982026 2982027 2982028 2982031 2982032 2982033 2982034 2982036	PLI Total Positions: PR	ANT ENGINEERING  SR PROGRAM MANAGER  PROGRAM MANAGER, ELECTRICAL  PROGRAM MANAGER, I&C  PROJECT MANAGER, SR DESIGNER  PROGRAM MANAGER, MECHANICAL  5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY  M&O SPECIALIST  UNIT SUPERVISOR  M&O SPECIALIST  UNIT SUPERVISOR  M&O SPECIALIST  M&O SPECIALIST  UNIT SUPERVISOR  M&O SPECIALIST  M&O SPECIALIST  UNIT SUPERVISOR  M&O SPECIALIST  AREA MANAGER, SECONDARY  M&O SPECIALIST				
	SUB COST CENTER	2981501 2981502 2981503 2981504 2981505 298200 298200 2982014 2982016 2982017 2982018 2982019 2982021 2982026 2982027 2982028 2982031 2982032 2982033 2982034 2982035	PLI Total Positions: PR	ANT ENGINEERING SR PROGRAM MANAGER PROGRAM MANAGER, ELECTRICAL PROGRAM MANAGER, I&C PROJECT MANAGER, SR DESIGNER PROGRAM MANAGER, MECHANICAL 5  IMARY/SECONDARY  AREA MANAGER, MECH/PRIMARY M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST M&O SPECIALIST UNIT SUPERVISOR M&O SPECIALIST AREA MANAGER, SECONDARY				

DEPARTMENT		PCR#		POSITION TITLE				
		2982039		M&O SPECIALIST				
		2982040		M&O SPECIALIST				
		2982041		M&O SPECIALIST				
		2982042		M&O SPECIALIST				
	SUB COST CENTER		Total Positions:	22	Vacants:	3	Filled Positions:	19
	02980	29830	RE	SIDUALS				
		2983001		AREA MANAGER, RESIDUALS				
		2983008		UNIT SUPERVISOR				
		2983010		M&O SPECIALIST				
		2983011		M&O SPECIALIST				
		2983014		M&O SPECIALIST				
		2983015		UNIT SUPERVISOR				
		2983016		M&O SPECIALIST				
		2983018		M&O SPECIALIST				
		2983019		M&O SPECIALIST				
	SUB COST CENTER		Total Positions:	9	Vacants:	0	Filled Positions:	9
	02980	29850	ELI	ECTRICAL				
		2985001		UNIT SUPERVISOR				
		2985002		ELECTRICIAN				
		2985003		ELECTRICIAN				
		2985007		ELECTRICIAN				
		2985008		UNIT SUPERVISOR				
		2985011		ELECTRICIAN				
		2985012		ELECTRICIAN				
		2985014		ELECTRICIAN				
		2985015		ELECTRICIAN				
		2985017 2985018		ELECTRICIAN ELECTRICIAN				
		2985022		AREA MANAGER, ELEC/PIPING				
		2985026		ELECTRICIAN				
		2985027		ELECTRICIAN				
		2985029		ELECTRICIAN				
		2985030		ELECTRICIAN				
		2985031		ELECTRICIAN				
		2985032		ELECTRICIAN				
		2985033		ELECTRICIAN				
		2985043		ELECTRICIAN				
		2985044		ELECTRICIAN				
	SUB COST CENTER		Total Positions:	21	Vacants:	2	Filled Positions:	19
	02980	29851	PIP	E				
		2985101		PLUMBER/PIPEFITTER				
		2985102		PLUMBER/PIPEFITTER				
		2985103		PLUMBER/PIPEFITTER				
		2985104		PLUMBER/PIPEFITTER				
		2985105		UNIT SUPERVISOR				
		2985106		PLUMBER/PIPEFITTER				
		2985107		PLUMBER/PIPEFITTER				
		2985108		PLUMBER/PIPEFITTER				
		2985109		PLUMBER/PIPEFITTER				
		2985110		PLUMBER/PIPEFITTER				
		2985111		PLUMBER/PIPEFITTER				
		2985112		PLUMBER/PIPEFITTER				

	PCR#		POSITION TITLE				
SUB COST CENTER		Total Positions:	12	Vacants:	2	Filled Positions:	10
02980	29852	MA	CHINE SHOP				
	2985201		UNIT SUPERVISOR				
	2985202		METAL FABRICATOR/WELDER				
	2985203		METAL FABRICATOR/WELDER				
	2985204		TOOLMAKER				
	2985206		METAL FABRICATOR/WELDER				
	2985207		MACHINIST				
SUB COST CENTER		Total Positions:	6	Vacants:	0	Filled Positions:	6
02980	29860	HV	AC				
	2986005		AREA MANAGER, HVAC & I/C				
	2986006		HVAC SPECIALIST				
	2986007		UNIT SUPERVISOR				
	2986016 HVAC SPECIALIST						
	2986023 HVAC SPECIALIST						
	2986024	86024 HVAC APPRENTICE					
	2986027		HVAC SPECIALIST				
	2986028		HVAC SPECIALIST				
	2986029		HVAC SPECIALIST				
SUB COST CENTER		Total Positions:	9	Vacants:	1	Filled Positions:	8
2980	29861	IC					
	2986101		INSTRUMENTATION SPECIALIST				
	2986103		INSTRUMENTATION SPECIALIST				
	2986104		INSTRUMENTATION SPECIALIST				
	2986105		INSTRUMENTATION SPECIALIST				
	2986106		COMMUNICATION & CONTROL TECH	1			
	2986107		INSTRUMENTATION SPECIALIST				
	2986108		UNIT SUPERVISOR, INSTRUMENT				
	2986109		INSTRUMENTATION SPECIALIST				
	2986110		INSTRUMENTATION SPECIALIST				
	2986111		COMMUNICATION & CONTROL TECH	4			
	2986112		INSTRUMENTATION SPECIALIST				
	2986113		COMMUNICATION & CONTROL TECH	1			
	2986114		COMMUNICATION & CONTROL TECH	1			
	2986115		APPRENTICE INSTRUMENT SPECIAL	-			
	2986116		COMMUNICATION & CONTROL TECH	1			
	2986117		INSTRUMENTATION SPECIALIST				
	2986118		INSTRUMENTATION SPECIALIST				
	2986119		UNIT SUPERVISOR, INSTRUMENT				
	2986120		COMMUNICATION & CONTROL TECH	1			
	2986121		COMMUNICATION & CONTROL TECH	1			
	2986122		INSTRUMENTATION SPECIALIST				
SUB COST CENTER		Total Positions:	21	Vacants:	0	Filled Positions:	21
2980	29865	со	NSTRUCT/COORD WARRANTY				
	2986501		PROJECT MANAGER, CONST LIAISO	N			
	2986502		STAFF ENGINEER, CONST LIAISON				
	2986503		PROGRAM MANAGER, CONSTRC CO	OORD			
	2986504		PROJECT MANAGER, FAC TURNOVE	R			
		Tatal Danitiana	4		•	EW J. D. J. W. J.	0
SUB COST CENTER		Total Positions:	4	Vacants:	2	Filled Positions:	2

DEPARTMENT

DEPARTMENT		PCR#		POSITION	TITLE				
029	985	29855	DI	WORK COORDINATION	N				
		2985501		WORK COORDINATION C	ENTER MG	R			
		2985502		HEAD CLERK					
		2985503		PLANNING/SCHEDULING	COORD				
		2985504		TREATMENT PLANT MGR	R, MAINT IV				
2985505				PLANNING/SCHEDULING	COORD				
2985507			PLANNING/SCHEDULING	COORD					
2985508		2985508	PLANNING/SCHEDULING COORD						
		2985509		PLANNING/SCHEDULING	COORD				
		2985510		PLANNING/SCHEDULING	COORD				
2985511 2985512			PLANNING/SCHEDULING	COORD					
			PLANNING/SCHEDULING	COORD					
	SUB COST CENTER		Total Positions:	11		Vacants:	0	Filled Positions:	11
	COST CENTER		Total Positions:	11		Vacants:	0	Filled Positions:	11
	DEPARTMENT		Total Positions:	279		Vacants:	29	Filled Positions:	250
CLINTON	-		OP	ERATIONS	1				
02910		29100	CL	INTON	<b>」</b>				
		2910001		SUPERINTENDENT, CLIN	TON				
		2910002		AREA SUPERVISOR					
		2910005		AREA SUPERVISOR					
		2910006		ASST STP OPERATOR					
		2910010		AREA MANAGER					
		2910011		M&O SPECIALIST					
		2910012		HEAD CLERK					
		2910013		M&O SPECIALIST					
	SUB COST CENTER		Total Positions:	8		Vacants:	1	Filled Positions:	7
	COST CENTER		Total Positions:	8		Vacants:	1	Filled Positions:	7
	DEPARTMENT		Total Positions:	8		Vacants:	1	Filled Positions:	7
WASTEWATER OPI	ERATIONS		ОР	ERATIONS	1				
022	210	22100	то	XIC REDUCTION & CO	NTROL				
		2210001		MANAGER,TRAC					
		2210009		INDUSTRIAL COORDINAT	OR				
		2210010		INDUSTRIAL COORDINAT	OR				
		2210011		INDUSTRIAL COORDINAT	OR				
		2210012		INDUSTRIAL COORDINAT	OR				
		2210013		INDUSTRIAL COORDINAT	OR				
		2210014		INDUSTRIAL COORDINAT	OR				
		2210015		SAMPLING ASSOCIATE					
		2210016		INDUSTRIAL COORDINAT	OR				
		2210018		REGIONAL INSPECTOR					
		2210019		REGIONAL INSPECTOR					
		2210020		SAMPLING COORDINATO	R				

ACTING PROGRAM MGR, TRAC IS

SAMPLING ASSOCIATE

SAMPLING ASSOCIATE

SAMPLING ASSOCIATE

SAMPLING ASSOCIATE

SAMPLING ASSOCIATE

SAMPLING ASSOCIATE

2210021

2210022

2210023

2210024

2210025

2210026

2210027

DEPARTMENT	PCR#	POSITION TITLE				
	2210028	SAMPLING ASSOCIATE				
	2210029	COMPLIANCE COORDINATOR				
	2210030	PERMIT COORDINATOR				
	2210031	COMPLIANCE COORDINATOR				
	2210032	COMPLIANCE COORDINATOR				
	2210034	COMPLIANCE COORDINATOR				
	2210035	INDUSTRIAL COORDINATOR				
	2210037	DATA MANAGEMENT SUPERVISOR				
	2210038	DATA TRACKING ASSISTANT				
	2210039	DATA TRACKING ASSISTANT				
	2210040	SR SAMPLING ASSOCIATE				
	2210041	SAMPLING ASSOCIATE				
	2210042	SAMPLING ASSOCIATE				
	2210043	SR SAMPLING ASSOCIATE				
	2210044	INDUSTRIAL COORDINATOR				
	2210045	SR ENGINEER				
	2210046	INDUSTRIAL COORDINATOR				
	2210048	REGIONAL MANAGER				
	2210049	INDUSTRIAL COORDINATOR				
	2210050	INDUSTRIAL COORDINATOR				
	2210055	ENFORCEMENT COORDINATOR				
	2210056 2210059	INDUSTRIAL COORDINATOR INDUSTRIAL COORDINATOR				
	2210059	SR SAMPLING ASSOCIATE				
	2210060	INDUSTRIAL COORDINATOR				
	2210062	SAMPLING ASSOCIATE				
	2210063	REGIONAL MANAGER				
	2210064	SAMPLING ASSOCIATE				
	2210065	ACTING DATA TRACKER				
	2210066	SOURCE COORDINATOR				
	2210067	SAMPLING ASSOCIATE				
SUB COST CENTER	Total Position	s: 50	Vacants:	6	Filled Positions:	44
COST CENTER	Total Position	s: 50	Vacants:	6	Filled Positions:	44
02470		vw general	v dodino.		T mod T doktorio.	···
	2470001	DIRECTOR,TRANSPORT				
	2470001	PROGRAM MANAGERPROCESS CN	TRI			
	2470003	MANAGER, OPERATIONS	TINE			
	2470005	SKILLED LABORER				
	2470006	ACTING ASST PUMP STATION SUPE	≣R			
	2470007	M & O SPECIALIST				
	2470008	AREA SUPERVISOR				
	2470009	OPERATOR				
	2470010	OMC LABORER				
	24700100	OPERATOR				
	24700101	OPERATOR				
	24700102	AREA SUPERVISOR				
	24700103	OPERATOR				
	24700104	OPERATOR				
	24700105	OPERATOR				
	24700107	SKILLED LABORER				
	24700108	OPERATOR				
	24700109	SKILLED LABORER				
	2470011	OPERATOR				
	24700110	SKILLED LABORER				

PCR#	POSITION TITLE	
24700111	AREA SUPERVISOR	
24700112	AREA SUPERVISOR	
24700113	ACTING AREA SUPERVISOR	
24700115	OPERATOR	
24700116	OPERATOR	
24700117	OPERATOR	
24700118	OPERATOR	
24700119 24700120	OPERATOR  ASSISTANT DIRECTOR	
24700120	ASSISTANT DIRECTOR  OPERATOR	
24700121	PROJECT ENGINEER,PICS	
24700123	WORK ORDER COORDINATOR	
24700124	AREA SUPERVISOR	
24700125	INSTRUMENTATION SPECIALIST	
24700126	PROGRAM MANAGER, CONTRUCTION	
2470013	SKILLED LABORER	
2470014	SKILLED LABORER	
2470015	AREA SUPERVISOR	
2470016	OPERATOR	
2470017	OPERATOR	
2470018	OPERATOR	
2470019	AREA SUPERVISOR	
2470020	OPERATOR	
2470021	OPERATOR	
2470022	OPERATOR	
2470023	AREA SUPERVISOR	
2470025	OPERATOR	
2470027	OMC LABORER	
2470028	SKILLED LABORER	
2470029 2470030	OPERATOR  OMC LABORER	
2470030	SKILLED LABORER	
2470032	ACTING PUMP STATION SUPERVISOR	
2470033	AREA SUPERVISOR	
2470034	OPERATOR	
2470035	OPERATOR	
2470036	OPERATOR	
2470038	OMC LABORER	
2470039	OMC LABORER	
2470042	SKILLED LABORER	
2470043	SKILLED LABORER	
2470044	AREA SUPERVISOR	
2470045	HEADWORKS OPERATOR	
2470047	OPERATOR	
2470048	OPERATOR	
2470052	SKILLED LABORER	
2470054	SKILLED LABORER	
2470055	HEADWORKS OPERATOR	
2470056	HEADWORKS MANAGER	
2470057 2470058	AREA SUPERVISOR HEADWORKS OPERATOR	
2470059	HEADWORKS OPERATOR HEADWORKS OPERATOR	
2470059	OPERATOR	
2470061	OPERATOR	
2470062	OPERATOR	
2470063	SKILLED LABORER	

DEPARTMENT

PCR#	POSITION	TITLE		
2470064	SKILLED LABORER			
2470065	OPERATOR			
2470066	SKILLED LABORER			
2470067	HEADWORKS OPERATOR	2		
2470069	AREA SUPERVISOR			
2470070	HEADWORKS OPERATOR	2		
2470071	HEADWORKS OPERATOR	2		
2470072	OPERATOR			
2470073	OPERATOR			
2470074	OPERATOR			
2470075	OPERATOR			
2470076	SKILLED LABORER			
2470077	SKILLED LABORER			
2470078	SKILLED LABORER			
2470079	HEADWORKS OPERATOR	2		
2470080	HEADWORKS OPERATOR	2		
2470081	SKILLED LABORER			
2470082	OPERATIONS SUPERVISO	DR .		
2470083	AREA SUPERVISOR			
2470084	AREA SUPERVISOR			
2470085	AREA SUPERVISOR			
2470086	OPERATOR			
2470087	OPERATOR			
2470089	OPERATOR			
2470091	BUILDING/GROUNDS WO			
2470092	BUILDING/GROUNDS WO	RKER		
2470093	OMC LABORER			
2470094	SKILLED LABORER			
2470095	OPERATOR			
2470096	AREA SUPERVISOR			
2470097	PROGRAM MANAGER, CO	ONST LIAISON		
2470099	SKILLED LABORER			
SUB COST CENTER TO	otal Positions: 108	Vacants: 11	Filled Positions:	97
COST CENTER TO	otal Positions: 108	Vacants: 11	Filled Positions:	97
DEPARTMENT To	otal Positions: 158	Vacants: 17	Filled Positions:	141
TIONS	OPERATIONS			

WATER OPERATIONS		OPERATIONS
03380	33850	METRO WATER GENERAL
	3385001	SR PROGRAM MANAGER, OCC
	3385002	AREA SUPERVISOR
	3385003	AREA SUPERVISOR
	3385004	AREA SUPERVISOR
	3385005	AREA SUPERVISOR
	3385006	AREA SUPERVISOR
	3385007	AREA SUPERVISOR
	3385008	AREA SUPERVISOR
	3385012	OPERATOR
	3385016	ACTING AREA SUPERVISOR
	3385019	OPERATOR
	3385021	OPERATOR
	3385022	OPERATOR
	3385023	OPERATOR
	3385025	AREA SUPERVISOR

DEPARTMENT

DEPARTMENT		PCR#		POSITION TITLE				
		3385029		AREA SUPERVISOR				
		3385031		DIRECTOR, METROPOLITAN				
	SUB COST CENTER		Total Positions:	17	Vacants:	2	Filled Positions:	15
	COST CENTER		Total Positions:	17	Vacants:	2	Filled Positions:	15
C	3390	33910	WE	ESTERN GENERAL				
		3391001		DIRECTOR, WESTERN OPERATION	S			
		3391003		PRINCIPAL CLERK				
		3391004		SR CLERK				
		3391005		INVENTORY CONTROL SUPERVISO	R			
		3391006		ADMINISTRATIVE SYSTEMS COOR	ס			
		3391007		PRINCIPAL STOREKEEPER				
		3391008		STOREKEEPER				
		3391009		PRINCIPAL STOREKEEPER				
		3391011		MANAGER, WESTERN MAINTENANG	Œ			
	SUB COST CENTER		Total Positions:	9	Vacants:	0	Filled Positions:	9
O	3390	33920	TR	EATMENT & TRANSMISSION				
		3392001		SR TRANS/TREATMENT OPERATOR	₹			
		3392004		TRANSMISSION & TREATMENT OPI	ΞR			
		3392006		TRANSMISSION & TREATMENT OPI	ER			
		3392007		TRANSMISSION & TREATMENT OPI	ER			
		3392008		TRANSMISSION & TREATMENT OPI	ΕR			
		3392009		TRANSMISSION & TREATMENT OPI	ΞR			
		3392010		TRANSMISSION & TREATMENT OPI	ΕR			
		3392012		TRANSMISSION & TREATMENT OPI				
		3392013		TRANSMISSION & TREATMENT OPI				
		3392014		TRANSMISSION & TREATMENT OPI				
		3392015		TRANSMISSION & TREATMENT OPI				
		3392016		TRANSMISSION & TREATMENT OPI				
		3392018		TRANSMISSION & TREATMENT OPI				
		3392019		TRANSMISSION & TREATMENT OPI				
		3392020 3392021		TRANSMISSION & TREATMENT OPI MANAGER, TRANS & TREATMENT	=K			
		3392021		SUPERVISOR, FLUORIDATION				
		3392025		SR TRANS/TREATMENT OPERATOR	2			
		3392026		TRANSMISSION & TREATMENT OPI				
		3392031		SKILLED LABORER				
		3392032		SUPERVISOR, DISINFECT & SAMPL	E			
		3392034		JR SANITARY ENGINEER				
		3392038		SR INSTRUMENT TECHNICIAN				
		3392040		SR TRANS/TREATMENT OPERATOR	₹			
		3392041		PROGRAM MANAGER, WATER TREA	ΑT			
		3392042		INSTRUMENT TECHNICIAN				
		3392043		PROGRAM MRG, PROCESS ENGINE	EER			
		3392044		SR TRANS/TREATMENT OPERATOR	₹			
		3392046		SR TRANS/TREATMENT OPERATOR	₹			
		3392047		SR TRANS/TREATMENT OPERATOR	₹			
		3392048		SR TRANS/TREATMENT OPERATOR	₹			
		3392049		SR TRANS/TREATMENT OPERATOR	₹			
		3392050		COMMUNICATION & CONTROL TEC				
		3392054		TRANSMISSION & TREATMENT OPI	ER			
	SUB COST CENTER		Total Positions:	34	Vacants:	3	Filled Positions:	31
O	3390	33930	FA	CILITIES MAINT - WEST				

3030021 RUPPRVISOR PLANT MAINTHANACE 3030022 HACHINGT HEATTHCAN 1020000 HEATTHCAN 10200000 HEATTHCAN 10200000 HEATTHCAN 1020000000000 HEATTHCAN 10200000000000000000000000000000000000	DEPARTMENT	PCR#	 POSITION TITLE				
SECURION   PURSUANT		3393001	SUPERVISOR,PLANT MAINTENANCE				
PLUMBERPREPRITER							
MITTAL NUMBERONISCH   3000015							
METAL WORKERSWEELERS							
353009							
S39911							
MOTOR FOLIMENT TREPAIRS ON MOTOR SOURCE TREPAIRS ON MOTOR SOURCE TREPAIRS ON MOTOR SOURCE TREPAIRS ON MOTOR SOURCE TREPAIRS ON THE COLUMN TREPAIRS ON THE COLU							
MOTOR EQUIPMENT REPAREMAN				1AN			
395014 TRADES FOREMAN 395016 SUPERVISOR, BUILDINGS/GROUNDS 395016 SUPERVISOR, BUILDINGS/GROUNDS 395016 SUPERVISOR, BUILDINGS/GROUNDS 3950108 FAULLIES SPECALIST 3950108 SUBLED LARGEREMOTOR TRUCK OR 3950108 PROGRAM MANAGER, FACILITIES 3950108 PROGRAM MANAGER, FACILITIES 3950109 PRINCIPAL CLERK 3950109 FACILITIES SPECALIST 3950109 FACIL				717-11			
398015 SUPERVISOR BUILDINGS GROUNDS 398016 FACILITIES SPECALIST 398026 SINLLED LABOREEMOTOR TRUCK OR 398026 SINLLED LABOREEMOTOR TRUCK OR 398026 PROGRAM MANAGER, FACILITIES 398026 PROGRAM MANAGER, FACILITIES 398027 FACILITIES SPECALIST 398027 MACHINES 398028 OWN LABORER 398027 MACHINES 398028 OWN LABORER 398029 WITH MANTENANCE TECHNICIAN 398024 SUPERVISOR, FOURMANT EMPORATE 398024 SUPERVISOR, FOURMANT EMPORATE 398024 WITH MANTENANCE TECHNICIAN 398024 WITH MANTENANCE TECHNICIAN 398024 MITH MANTENANCE TECHNICIAN 398024 SUPERVISOR, FOURMENT MANT 398024 WITH MANTENANCE TECHNICIAN 398025 WITH MANTENANCE TECHNICIAN 398026 WITH MANTENANCE TECHNICIAN 398026 WITH MANTENANCE TECHNICIAN 398026 WITH MANTENANCE TECHNICIAN 398027 WISS SUBFORMAN 398020 WITH MANTENANCE TECHNICIAN 398020 ASST SUPERVISOR, POWER GENERAT 398020 WITH MANTENANCE TECHNICIAN 398020 SUPERVISOR, POWER GENERAT 398020 WITH MANTENANCE TECHNICIAN 398020 WITH MANTEN							
SAMELIES SPECIALIST							
3890225   SKILED LABORERMOTOR TRUCK DR		3393016	SUPERVISOR, BUILDINGS/GROUNDS	S			
SASSOUZE   FACILITIES SPECIALIST   SASSOUZE   PROGRAM MANACERE FACILITIES		3393018	FACILITIES SPECIALIST				
338028 PROGRAM MANAGER, FACILITIES		3393026	SKILLED LABORER/MOTOR TRUCK I	OR			
3383029		3393027	FACILITIES SPECIALIST				
3380303		3393028	PROGRAM MANAGER, FACILITIES				
3393031		3393029	PRINCIPAL CLERK				
3393032   MOTOR EQUIPMENT REPAIRMAN		3393030	FACILITIES SPECIALIST				
3893034 OMC LABORER 3393036 UNIT SUPERVISOR 3393037 MACHINIST 3893038 OMC LABORER 3393041 UNIT SUPERVISOR 3393042 SUPERVISOR, EQUIPMENT MAINT 3393043 WTP MAINTENANCE TECHNICIAN 3393044 WTP MAINTENANCE TECHNICIAN 3393045 TRADES FOREMAN 3393046 OMC LABORER 3393047 ELECTRICIAN 3393048 WTP MAINTENANCE TECHNICIAN 3393049 WTP MAINTENANCE TECHNICIAN 3393040 OMC LABORER 3393040 WTP MAINTENANCE TECHNICIAN 3393050 ASST SUPERVISOR, POWER GENERAT  SUB COST CENTER TOTAL POSITIONS: 35 Vacants: 7 Filled Positions: 28  03390 GROUNDS MAINT - WEST  3394001 SR PROGRAM MGR, WESTERN MAINT 3394002 SUPERVISOR, WARE RIVER INTAKE 3394004 WSS FOREMAN 3394007 WSS SUB-FOREMAN 3394007 WSS SUB-FOREMAN 3394010 OMC LABORER 3394011 WSS FOREMAN 3394011 WSS GENERAL FOREMAN 3394011 WSS FOREMAN 3394012 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN		3393031	FACILITIES SPECIALIST				
399036		3393032	MOTOR EQUIPMENT REPAIRMAN				
3393037							
3393038 OMC LABORER 3393041 UNIT SUPERVISOR 3393042 SUPERVISOR, EQUIPMENT MAINT 3393043 WITP MAINTENANCE TECHNICIAN 3393044 WITP MAINTENANCE TECHNICIAN 3393045 TRADES FOREMAN 3393046 OMC LABORER 3393047 ELECTRICIAN 3393048 WITP MAINTENANCE TECHNICIAN 3393048 WITP MAINTENANCE TECHNICIAN 3393049 WITP MAINTENANCE TECHNICIAN 3393050 ASST SUPERVISOR, POWER GENERAT  SUB COST CENTER Total Positions: 35 Vacants: 7 Filled Positions: 28  03390 SROUNDS MAINT - WEST 3394001 SR PROGRAM MGR, WESTERN MAINT 3394002 SUPERVISOR, WARE RIVER INTAKE 3394004 WSS FOREMAN 3394007 WSS SUB-FOREMAN 3394009 OMC LABORER 3394010 OMC LABORER 3394011 SKILLED LABORER 3394010 OMC LABORER 3394011 SKILLED LABORER 3394010 WSS GENERAL FOREMAN 3394011 WSS GENERAL FOREMAN 3394010 WSS GENERAL FOREMAN 3394011 WSS GENERAL FOREMAN 3394010 WSS FOREMAN 3394011 WSS FOREMAN 3394010 WSS FOREMAN 3394011 WSS FOREMAN 3394010 WSS FOREMAN 3394011 WSS FOREMAN 3394011 WSS SORERAL FOREMAN 3394012 WSS SUB-FOREMAN 3394021 WSS SUB-FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN							
SUB COST CENTER   Total Positions:   3394001   SUPERVISOR   SUPERVIS							
3393042   SUPERVISOR, EQUIPMENT MAINT							
3393043 WTP MAINTENANCE TECHNICIAN 3393044 WTP MAINTENANCE TECHNICIAN 3393045 TRADES FOREMAN 3393046 OMC LABORER 3399047 ELECTRICIAN 3393048 WTP MAINTENANCE TECHNICIAN 3393049 WTP MAINTENANCE TECHNICIAN 3393050 ASST SUPERVISOR, POWER GENERAT  SUB COST CENTER Total Positions: 35 Vacants: 7 Filled Positions: 28  03390 33940 GROUNDS MAINT - WEST 3394001 SR PROGRAM MGR, WESTERN MAINT 3394002 SUPERVISOR, WARE RIVER INTAKE 3394007 WSS SUB-FOREMAN 3394007 WSS SUB-FOREMAN 3394009 OMC LABORER 3394010 OMC LABORER 3394011 WSS GENERAL FOREMAN 3394010 WSS GENERAL FOREMAN 3394011 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS GENERAL FOREMAN 3394017 WSS GENERAL FOREMAN 3394019 WSS FOREMAN 3394019 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394021 WSS SUB-FOREMAN 3394021 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN							
3393044   WTP MAINTENANCE TECHNICIAN							
3393045   TRADES FOREMAN   3393046   OMC LABORER   3393047   ELECTRICIAN   3393047   ELECTRICIAN   3393047   ELECTRICIAN   3393049   WTP MAINTENANCE TECHNICIAN   3393050   ASST SUPERVISOR, POWER GENERAT   Total Positions: 35							
3393047   ELECTRICIAN   3393048   WTP MAINTENANCE TECHNICIAN   3393049   WTP MAINTENANCE TECHNICIAN   3393040   WTP MAINTENANCE TECHNICIAN   3393050   ASST SUPERVISOR, POWER GENERAT   Total Positions:   3			TRADES FOREMAN				
3393048   WTP MAINTENANCE TECHNICIAN   3393049   WTP MAINTENANCE TECHNICIAN   3393050   ASST SUPERVISOR, POWER GENERAT   SUB COST CENTER   Total Positions: 35		3393046	OMC LABORER				
SUB COST CENTER   Total Positions:   35   Vacants:   7   Filled Positions:   28		3393047	ELECTRICIAN				
SUB COST CENTER   Total Positions: 35		3393048	WTP MAINTENANCE TECHNICIAN				
SUB COST CENTER         Total Positions:         35         Vacants:         7         Filled Positions:         28           03390         33940         GROUNDS MAINT - WEST         Vacants:         7         Filled Positions:         28           3394001         SR PROGRAM MGR, WESTERN MAINT         3394002         SUPERVISOR, WARE RIVER INTAKE         4		3393049	WTP MAINTENANCE TECHNICIAN				
339401   SR PROGRAM MGR, WESTERN MAINT			ASST SUPERVISOR, POWER GENER				
3394001 SR PROGRAM MGR, WESTERN MAINT 3394002 SUPERVISOR, WARE RIVER INTAKE 3394004 WSS FOREMAN 3394007 WSS SUB-FOREMAN 3394009 OMC LABORER 3394010 OMC LABORER 3394013 SKILLED LABORER 3394015 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN				Vacants:	7	Filled Positions:	28
3394002       SUPERVISOR, WARE RIVER INTAKE         3394004       WSS FOREMAN         3394007       WSS SUB-FOREMAN         3394009       OMC LABORER         3394010       OMC LABORER         3394013       SKILLED LABORER         3394015       WSS GENERAL FOREMAN         3394016       WSS GENERAL FOREMAN         3394017       WSS FOREMAN         3394019       WSS FOREMAN         3394020       VALVE MAINTENANCE FOREMAN         3394021       WSS SUB-FOREMAN         3394022       WSS SUB-FOREMAN         3394023       WSS SUB-FOREMAN         3394024       FENCING FOREMAN	03390						
3394004       WSS FOREMAN         3394007       WSS SUB-FOREMAN         3394009       OMC LABORER         3394010       OMC LABORER         3394013       SKILLED LABORER         3394015       WSS GENERAL FOREMAN         3394016       WSS GENERAL FOREMAN         3394017       WSS FOREMAN         3394019       WSS FOREMAN         3394020       VALVE MAINTENANCE FOREMAN         3394021       WSS SUB-FOREMAN         3394022       WSS SUB-FOREMAN         3394023       WSS SUB-FOREMAN         3394024       FENCING FOREMAN							
3394007       WSS SUB-FOREMAN         3394009       OMC LABORER         3394010       OMC LABORER         3394013       SKILLED LABORER         3394015       WSS GENERAL FOREMAN         3394016       WSS GENERAL FOREMAN         3394017       WSS FOREMAN         3394019       WSS FOREMAN         3394020       VALVE MAINTENANCE FOREMAN         3394021       WSS SUB-FOREMAN         3394022       WSS SUB-FOREMAN         3394023       WSS SUB-FOREMAN         3394024       FENCING FOREMAN							
3394019 OMC LABORER 3394010 OMC LABORER 3394013 SKILLED LABORER 3394015 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394010 OMC LABORER 3394013 SKILLED LABORER 3394015 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394013 SKILLED LABORER 3394015 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394015 WSS GENERAL FOREMAN 3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394016 WSS GENERAL FOREMAN 3394017 WSS FOREMAN 3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394017       WSS FOREMAN         3394019       WSS FOREMAN         3394020       VALVE MAINTENANCE FOREMAN         3394021       WSS SUB-FOREMAN         3394022       WSS SUB-FOREMAN         3394023       WSS SUB-FOREMAN         3394024       FENCING FOREMAN							
3394019 WSS FOREMAN 3394020 VALVE MAINTENANCE FOREMAN 3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394021 WSS SUB-FOREMAN 3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN							
3394022 WSS SUB-FOREMAN 3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN		3394020	VALVE MAINTENANCE FOREMAN				
3394023 WSS SUB-FOREMAN 3394024 FENCING FOREMAN		3394021	WSS SUB-FOREMAN				
3394024 FENCING FOREMAN		3394022	WSS SUB-FOREMAN				
		3394023	WSS SUB-FOREMAN				
0004005 UEALAY FOLUSIANT OBERATOR		3394024	FENCING FOREMAN				
3394025 HEAVY EQUIPMENT OPERATOR		3394025	HEAVY EQUIPMENT OPERATOR				
3394026 SKILLED LABORER		3394026	SKILLED LABORER				

DEPARTMENT		PCR#		POSITION	TITLE				
		3394030		OMC LABORER					
		3394031		SKILLED LABORER					
		3394033		HEAVY EQUIPMENT OPER	RATOR				
		3394034		OMC LABORER					
		3394035		ACTING FENCING FOREM	AN				
		3394036		ACTING WSS FOREMAN					
		3394037		HEAVY EQUIPMENT OPER	RATOR				
		3394038		OMC LABORER					
		3394039		SKILLED LABORER					
		3394053		OMC LABORER					
		3394055		ACTING FENCING FOREM	AN				
		3394056		OMC LABORER					
<u>.</u>	SUB COST CENTER		Total Positions:	30		Vacants:	5	Filled Positions:	25
-	COST CENTER		Total Positions:	108		Vacants:	15	Filled Positions:	93
=	DEPARTMENT		Total Positions:	125		Vacants:	17	Filled Positions:	108
METRO MAINTENANO	E		ОР	ERATIONS					
05410	1	54100	FA	CILITY MAINT METRO					
		5410002		FACILITIES SPECIALIST					
		5410003		ACTING TRADES FOREMA	AN				
		5410004		FACILITIES SPECIALIST					
		5410005		FACILITIES SPECIALIST					
		5410006		TRADES FOREMAN					
		5410007		FACILITIES SPECIALIST					

ENANCE		OPERATIONS				
05410	54100	FACILITY MAINT METRO	J	1	1	ı
	5410002	FACILITIES SPECIALIST				
	5410003	ACTING TRADES FOREMA	N			
	5410004	FACILITIES SPECIALIST				
	5410005	FACILITIES SPECIALIST				
	5410006	TRADES FOREMAN				
	5410007	FACILITIES SPECIALIST				
	5410008	FACILITIES SPECIALIST				
	5410009	FACILITIES SPECIALIST				
	5410010	FACILITIES SPECIALIST				
	5410011	TRADES FOREMAN				
	5410012	TRADES FOREMAN				
	5410013	FACILITIES SPECIALIST				
	5410014	FACILITIES SPECIALIST				
	5410015	FACILITIES SPECIALIST				
	5410016	FACILITIES SPECIALIST				
	5410017	FACILITIES SPECIALIST				
	5410018	FACILITIES MANAGER				
	5410019	BUILDING & FACIL FOREM	AN			
SUB COST CENTER		Total Positions: 18	Vacants:		1	1 Filled Positions:
05410	54110	GROUNDS MAINT METRO				
	5411002	OMC LABORER				
	5411003	SKILLED LABORER				
	5411004	WSS FOREMAN				
	5411005	OMC LABORER				
	5411006	SKILLED LABORER				
	5411007	ACTING MATERIAL HANDL	ER			
	5411008	WSS GENERAL FOREMAN				
	5411009	WSS FOREMAN				
	5411010	WSS FOREMAN				
	5411011	SKILLED LABORER				

Vacants:

1

Filled Positions: 12

SKILLED LABORER

SKILLED LABORER

OMC LABORER

13

5411012

5411013

5411014

Total Positions:

SUB COST CENTER

DEPARTMENT		PCR#		POSITION TITL	.E			
	COST CENTER		Total Positions:	31	Vacants:	2	Filled Positions:	29
	05430	54310	VAI	LVE MAINT - WATER				
		5431001		ACTING SPECIALTY VALVE FO	REMAN			
		5431002		SPECIALTY VALVE INSTALLER	1			
		5431003		VALVE MAINTENANCE FOREM	AN			
		5431004		VALVE MAINTENANCE FOREM	AN			
		5431005		VALVE MAINTENANCE FOREM	AN			
		5431006		OMC LABORER				
		5431007		SR PROGRAM MANAGER, VAL	VES			
		5431008		SKILLED LABORER				
		5431009		SKILLED LABORER				
		5431010		VALVE MAINTENANCE FOREM	AN			
		5431011		OMC LABORER				
		5431012		SKILLED LABORER				
		5431013		SKILLED LABORER				
		5431014		ACTING WDS GENERAL FRMN	/VALVES			
	SUB COST CENTER		Total Positions:	14	Vacants:	2	Filled Positions:	12
	05430	54320	INS	PECTION - WATER				
		5432001		SKILLED LABORER				
		5432002		SUPERVISOR, INSPECTION				
		5432003		SR GENERAL CONST INSPECT	OR			
		5432004		GENERAL CONSTRUCTION INS	SPECTOR			
		5432005		GENERAL CONSTRUCTION INS	SPECTOR			
		5432006		ASST SUPERVISOR, INSP BRAN	NCH			
		5432007		SR FIELD SERVICE TECHNICIA	AN			
		5432008		SR FIELD SERVICE TECHNICIA	AN			
		5432010		SR FIELD SERVICE TECHNICIA	AN			
		5432011		SR FIELD SERVICE TECHNICIA	AN			
		5432012		SR FIELD SERVICE TECHNICIA	AN			
		5432013		GENERAL CONSTRUCTION INS	SPECTOR			
		5432014		PROJECT COORD.CONTROL V	/ALVES			
	SUB COST CENTER		Total Positions:	13	Vacants:	2	Filled Positions:	11
	05430	54330	PIP	E MAINT - WATER				
	05430	5433001	PIP	PROGRAM MANAGER, PIPELIN	ES			
	05430	5433001 5433002	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN	ES			
	05430	5433001 5433002 5433003	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN	ES			
	05430	5433001 5433002 5433003 5433004	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN	ES			
	05430	5433001 5433002 5433003 5433004 5433006	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN	ES			
	05430	5433001 5433002 5433003 5433004 5433006 5433007	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER				
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008	PIP	PROGRAM MANAGER,PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO				
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER	R			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009 5433010	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO	R R			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009 5433010 5433011	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO	or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009 5433010 5433011 5433012	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009 5433010 5433011 5433012 5433013	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433010 5433011 5433012 5433013 5433014	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433009 5433010 5433011 5433012 5433013 5433014 5433015	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST FACILITIES SPECIALIST	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433010 5433011 5433012 5433013 5433014 5433015 5433016	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST FACILITIES SPECIALIST OMC LABORER	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433010 5433011 5433012 5433013 5433014 5433015 5433016 5433017	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST FACILITIES SPECIALIST OMC LABORER OMC LABORER	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433010 5433011 5433012 5433013 5433014 5433015 5433016 5433017 5433018	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST FACILITIES SPECIALIST OMC LABORER OMC LABORER	or or or or			
	05430	5433001 5433002 5433003 5433004 5433006 5433007 5433008 5433010 5433011 5433012 5433013 5433014 5433015 5433016 5433017	PIP	PROGRAM MANAGER, PIPELINI WDS GENERAL FOREMAN SENIOR WDS FOREMAN SR WDS FOREMAN SR WDS FOREMAN CONSTRUCTION PIPELAYER HEAVY EQUIPMENT OPERATO FACILITIES SPECIALIST FACILITIES SPECIALIST OMC LABORER OMC LABORER	or or or or			

DEPARTMENT		PCR#		POSITION TITLE				
		5433022		CONSTRUCTION PIPELAYER				
		5433023		CONSTRUCTION PIPELAYER				
		5433024		CONSTRUCTION PIPELAYER				
		5433025		CONSTRUCTION PIPELAYER				
		5433026		CONSTRUCTION PIPELAYER				
		5433027		WDS GENERAL FOREMAN				
		5433028		OMC LABORER				
		5433029		MOTOR EQUIPMENT REPAIRMAN				
		5433030		SKILLED LABORER				
		5433031		SENIOR WDS FOREMAN		_		
	SUB COST CENTER		Total Positions:	30	Vacants:	7	Filled Positions:	23
	05430	54340	PIF	PE MAINT - WASTEWATER				
		5434001		ACTING MATERIAL HANDLER				
		5434002		DISTRICT SUPERVISOR				
		5434003		ASST DISTRICT SUPERVISOR				
		5434004 5434005		SEWER MAINT FOREMAN SEWER MAINT FOREMAN				
		5434006		SEWER MAINT FOREMAN				
		5434007		SEWER MAINT FOREMAN				
		5434008		SKILLED LABORER				
		5434009		SKILLED LABORER				
		5434010		ACTING HEAVY EQUIP OPERATOR				
		5434011		HEAVY EQUIPMENT OPERATOR				
		5434012		HEAVY EQUIPMENT OPERATOR				
		5434013		FACILITIES SPECIALIST				
		5434014		FACILITIES SPECIALIST				
		5434016		ACTING DISTRICT SUPERVISOR				
		5434017		ACTING ASST DISTRICT SUPER				
		5434018		ACTING SEWER MAINT FOREMAN				
		5434019		ACTING SEWER MAINT FOREMAN				
		5434020		SEWER MAINT FOREMAN				
		5434021		HEAVY EQUIPMENT OPERATOR				
		5434022		SKILLED LABORER				
		5434023		HEAVY EQUIPMENT OPERATOR				
		5434024 5434025		SEWER MAINT FOREMAN FACILITIES SPECIALIST				
		5434026		FACILITIES SPECIALIST				
	SUB COST CENTER	0101020	Total Positions:	25	Vacants:	2	Filled Positions:	23
	05430	E42E0		INSPECTION - WASTEWATE	vacanto.		T IIICU T COILIOTIC.	
	05430	<b>54350</b> 5435002	1 V	SENIOR PROGRAM MANAGER				
		5435002		ACTING FIELD SUPERVISOR				
		5435004		TELE-INSPECTION ASSISTANT				
		5435005		ACTING TELE-INSPECT OPERATOR				
		5435006		TELE-INSPECTION ASSISTANT				
		5435007		TELE-INSPECTION ASSISTANT				
		5435008		ACTING TELE-INSPECT FOREMAN				
		5435009		TELE-INSPECTION FOREMAN				
		5435010		TELE-INSPECTION ASSISTANT				
		5435011		ACTING TELE-INSPECT OPERATOR				
		5435012		SR FIELD INSPECTOR				
		5435013		FIELD SUPERVISOR				
		5435014		ACTING TELE-INSPECT FOREMAN				
		5435015		TELE-INSPECTION ASSISTANT				
		5435016		TELE-INSPECTION OPERATOR				

DEPARTMENT			PCR#			POSITION TITLE				
			5435018		STAFF	ENGINEER				
		SUB COST CENTER		Total Positions:	16		Vacants:	3	Filled Positions:	13
	:	COST CENTER		Total Positions:	98		Vacants:	16	Filled Positions:	82
	05440	)	54400	wo	ORK CC	ORDINATION				
			5440001		WORK	ORDER COORDINATOR				
			5440002		MANAG	ER,FINANCIAL SYSTEMS				
			5440003		MATER	IALS COORDINATION MANAG	SER			
			5440004		ADMINI	STRATIVE ASSISTANT				
			5440005		PLANNI	ER/SCHEDULER COORDINAT	OR			
			5440006		HEAVY	EQUIPMENT OPERATOR				
			5440007		MATER	IAL & EQUIPMENT SUPERVIS	iO			
			5440008		PLANNI	ER/SCHEDULER				
			5440010		PLANN	NG/SCHEDULING COORD.				
			5440011		PLANN	NG/SCHEDULING COORD.				
			5440012		PLANN	NG/SCHEDULING COORD.				
			5440013		WORK	COORD.CENTER MANAGER				
			5440016		SUPER	VISOR,LOGISTICS UNIT				
			5440019		PLANN	NG/SCHEDULING COORD				
			5440020		PLANN	NG/SCHEDULING COORD				
			5440021		PLANNI	ER/SCHEDULER COORDINAT	OR			
			5440022		PLANNI	ER/SCHEDULER COORDINAT	OR			
		SUB COST CENTER		Total Positions:	17		Vacants:	0	Filled Positions:	17
		COST CENTER		Total Positions:	17		Vacants:	0	Filled Positions:	17
	05450	)	54500	ME	TRO M	AINT GENERAL				
			5450001		SENIOF	R PROG MNGR,METRO TRAD	ES			
			5450002		ASSOC	IATE CIVIL ENGINEER				
			5450003		PROGR	AM MANAGER,OPS & MAINT				
		SUB COST CENTER		Total Positions:	3		Vacants:	0	Filled Positions:	3
		COST CENTER		Total Positions:	3		Vacants:	0	Filled Positions:	3
	05470	)	54700	EQ	UIP - G	ENERAL				
			5470001		CHIEF,I	FACILITIES MAINTENANCE				
			5470002		M&O SF	PECIALIST				
			5470003		M&O SF	PECIALIST				
			5470004		M&O SF	PECIALIST				
			5470005		M&O SF	PECIALIST				
			5470006		M&O SF	PECIALIST				
			5470008		DIESEL	ENGINE MAINT FOREMAN				
			5470009		M&O SF	PECIALIST				
			5470010		M&O SF	PECIALIST				
			5470011		M&O SF	PECIALIST				
			5470014		UNIT SI	JPERVISOR,MAINTENANCE				
			5470015		MACHIN	NIST				
			5470016		METAL	WORKER/WELDER				
			5470017		MACHIN	NIST				
			5470019		ACTING	UNIT SUPERVISOR MECH				
			5470020		MASTE	R WELDER				
			5470021		MASTE	R WELDER				
			5470022		METAL	WORKER/WELDER				
			5470023		ELECT	RICIAN				
			5470024		ELECT	RICIAN				
			5470025		ELECT	RICIAN				

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DEPARTMENT	PCR	#	POSITION	TITLE			
	5470020	1	ELECTRICIAN				
	547002	•	ELECTRICIAN				
	5470028	1	ACTING UNIT SUPERVISO	R			
	5470029	1	PLUMBER/PIPEFITTER				
	547003	1	PLUMBER/PIPEFITTER				
	547003		PLUMBER/PIPEFITTER				
	547003	!	UNIT SUPERVISOR				
	547003	}	PLUMBER/PIPEFITTER				
	547003	i	SKILLED LABORER				
	547003	i	HVAC SPECIALIST				
	547003		SKILLED LABORER				
	547003	1	UNIT SUPERVISOR				
	547003	)	M&O SPECIALIST				
	547004	)	DIESEL ENGINE MAINT FO	DREMAN			
	547004		UNIT SUPERVISOR				
	5470042	!	PLUMBER/PIPEFITTER				
	547004	}	WTP MAINTENANCE TECH	HNICIAN			
	547004	+	UNIT SUPERVISOR				
	547004	;	PROGRAM MANAGER				
	547004	i	M&O SPECIALIST				
	547004	,	ELECTRICIAN				
	547004	<b>;</b>	PROJECT MANAGER,MEC	HANICAL			
	547004	)	PROJECT ENGINEER/ELE	CTRICAL			
	547005	)	UNIT SUPERVISOR				
	547005		ELECTRICIAN				
	547005	!	ELECTRICIAN				
	547005	<b>;</b>	PLUMBER/PIPEFITTER				
	547005	i	ELECTRICIAN				
	5470050	;	UNIT SUPERVISOR				
	547005	•	HVAC SPECIALIST				
	547005	1	MOTOR EQUIPMENT REP	AIR FOREMAN			
SUB	COST CENTER	Total Positions:	52	Vacants:	4	Filled Positions:	48
cos	T CENTER	Total Positions:	52	Vacants:	4	Filled Positions:	48
DEP	ARTMENT	Total Positions:	201	Vacants:	22	Filled Positions:	179
OPERATIONS SUPPORT		OP	PERATIONS				

05810	58110	OP ENGINEERING
	5811002	SENIOR ENGINEERING AID
	5811003	PROJECT ENGINEER
	5811004	PROJECT ENGINEER
	5811005	DRAFTER
	5811008	PROJECT MANAGER
	5811009	TECHNICAL ASSISTANT
	5811010	SAFETY PROGRAM COORE
	5811011	MANAGER, OPERATIONALE
	5811012	EMERGENCY RESPONSE F
	5811013	PROJECT MANAGER
	5811014	PROG MGR,MONITOR & CO
	5811015	PROG MGR, OPERATIONS F
	5811016	PROJECT ENGINEER, CIVIL
	5811017	DISTRIBUTION SYSTEM LIA
	5811018	JR CIVIL ENGINEER

5811019

PROGRAM MANAGER, SCADA

DEPARTMENT			PCR#			POSITION TITLE				
			5811020		SR P	ROGRAM MGR, START UP				
	8	SUB COST CENTER		Total Positions:		17	Vacants:	5	Filled Positions:	12
	=	COST CENTER		Total Positions:			Vacants:	5	Filled Positions:	12
(	05820		58210			Y ASSURANCE				
			5821001			ROGRAM MGR,QUALITY ASS	ΠΡΔ			
			5821001			SUPERVISOR/JOBSHRE/WQC				
			5821002			SUPERVISOR/JOBSHRE/WQC				
			5821003			STANT CHEMIST	21 IIVI			
			5821004			GRAM MANAGER,WATER QU	ΔΙ ΙΤΥ			
			5821005			GRAM MANAGER,CHEMISTR				
			5821006			LITY ASSURANCE PLANNER	•			
			5821007			ANITARY ENGINEERING AIDE	=			
			5821008			ANITARY ENGINEERING AIDE				
			5821009			ANITARY ENGINEERING AIDE				
			5821010			JECT MANAGER, TECH SERV				
			5821011			AGER, TECHNICAL SERVICES				
			5821012			IECT ENGINEER	-			
			5821014			ANITARY ENGINEER				
	5	SUB COST CENTER	002.0	Total Positions:		13	Vacants:	1	Filled Positions:	12
	=	COST CENTER		Total Positions:		13	Vacants:	1	Filled Positions:	12
,	05830	DOOT CENTER	58310			ANAGEMENT	vacants.		Tilled Fositions.	12
`	03030			DA						
			5831001			INICAL INFORMATION ASST				
			5831003			ISTICIAN COORDINATOR				
			5831004 5831005			COORDINATOR				
			5831005			VIL ENGINEER ER QUALITY DATA SUPERVIS	2OB			
			5831007			ECT MANAGER, OPERATION				
	c	SUB COST CENTER	3031000	Total Positions:		6	Vacants:	1	Filled Positions:	5
	=			Total Fositions.			vacants.		Tilled Fositions.	
	_	COST CENTER		Total Positions:		6	Vacants:	1	Filled Positions:	5
(	05840		58410	sc		MAINT - WATER				
			5841001			GRAM MANAGER,SCADA				
			5841002			MUNICATION & CONTROL TE	ECH .			
			5841003			IECT MANAGER				
			5841004			MUNICATION & CONTROL TE				
			5841005			MUNICATION & CONTROL TE	:CH			
			5841006			CADA MAINT TECHNICIAN				
			5841007			CADA MAINT TECHNICIAN				
			5841008			CADA MAINT TECHNICIAN	-011			
			5841009			MUNICATION & CONTROL TE				
			5841010 5841011			OR PROGRAM MANAGER,SC SRAM MANAGER SCADA	AUA			
			5841011 5841012			GRAM MANAGER,SCADA				
			5841012			CADA MAINT TECHNICIAN  CADA MAINT TECHNICIAN				
			5841014			CADA MAINT TECHNICIAN				
			5841015			IECT MANAGER,SCADA				
			5841016			MUNCATION & CONTROL TE	СН			
			5841017			MUNICATION & CONTROL TE				
			5841017			IECT MANAGER				
			5841019			OR MONITOR & CONTROL EI	NG			
			5841019			OR MONITOR & CONTROL E				
			5841022		SK M	ONITOR & CONTROL ENGIN	EEK			

DEPARTMENT			PCR#		POSITION TITLE				
			5841023		PROGRAM MANAGER, SCADA				
		SUB COST CENTER		Total Positions:	22	Vacants:	4	Filled Positions:	18
	0584		58420	90	ADA MAINT - WASTEWATER				
	03040	,	5842001	30.	SENIOR SCADA TECHNICIAN				
			3042001						_
		SUB COST CENTER		Total Positions:	<u> </u>	Vacants:	1	Filled Positions:	0
	0584	0	58430	ME	TER MAINT - WATER				
			5843002		INSTRUMENT TECHNICIAN				
			5843003		JUNIOR INSTRUMENT TECHNICIAN				
			5843004		JR INSTRUMENT TECHNICIAN				
			5843005		JUNIOR INSTRUMENT TECHNICIAN				
			5843007		SR INSTRUMENT TECHNICIAN				
			5843008		SR INSTRUMENT TECHNICIAN				
			5843009		INSTRUMENT TECHNICIAN				
			5843010		PROGRAM MANAGER, WATER ACCO				
			5843011		ASST PROGRAM MANAGER,MET/MC	NC			
			5843012		STATISTICAL SUPERVISOR				
			5843013		PROJECT MANAGER, METER ACC.				
			5843014		SR INSTRUMENT TECHNICIAN				
		SUB COST CENTER		Total Positions:	12	Vacants:	2	Filled Positions:	10
	0584	0	58440	ME	TER MAINT - WASTEWATER				
			5844001		JUNIOR INSTRUMENT TECHNICIAN				
			5844002		JUNIOR INSTRUMENT TECHNICIAN				
			5844003		JUNIOR INSTRUMENT TECHNICIAN				
			5844004		INSTRUMENT TECHNICIAN				
			5844005		PROGRAM MANAGER, METERING				
			5844006		COMMUNICATION & CONTROL TEC	Н			
			5844007		SR INSTRUMENT TECHNICIAN				
			5844008		INSTRUMENT TECHNICIAN				
			5844009		SR INSTRUMENT TECHNICIAN				
			5844010		ACTING FIELD SUPERVISOR				
			5844011		INSTRUMENT TECHNICIAN				
			5844012		TECHNICAL ASSISTANT PROJECT ENGINEER,I/I				
			5844013		•				
			5844014 5844015		DATA ANALYST PROJECT MANAGER				
			5844016		DATA ANALYST				
			5844017		STATISTICAL SUPERVISOR				
		SUB COST CENTER		Total Positions:	17	Vacants:	1	Filled Positions:	16
		COST CENTER		Total Positions:	52	Vacants:	8	Filled Positions:	44
	0585	 D	58500	ОР	SUPPORT GENERAL				
			5850001		DEP DIR/OPER & DIR OPER SUPP				
			5850002		MANAGER,METERING & MONITORIN	NG			
		SUB COST CENTER		Total Positions:	2	Vacants:	0	Filled Positions:	2
		COST CENTER		Total Positions:	2	Vacants:	0	Filled Positions:	2
		DEPARTMENT		Total Positions:	90	Vacants:	15	Filled Positions:	75
					EDATIONS.	-	-		

	FOD ADMINISTRATION	OPERATIONS
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0591059100POLICY & ADMINISTRATION5910001DIRECTOR OF FIELD OPERATIONS

	PCR#		POSITION	TITLE							
	5910003		EXECUTIVE SECRETARY								
	5910004		MANAGER, FINANCE & AD	MIN							
	5910005		EXECUTIVE SECRETARY	EXECUTIVE SECRETARY							
	5910006		SECRETARY I								
	5910008		PRINCIPAL CLERK								
	5910009		MANAGER, ADMIN AND FI	NANCE							
	5910010		PRINCIPAL CLERK								
	5910011		EXECUTIVE SECRETARY								
	5910012		FILE CLERK								
	5910013		SR CLERK & TYPIST								
	5910014		MANAGER, POLICY & PLA	NNING SUP							
	5910015		SR FINANCIAL ANALYST								
	5910016		HEAD CLERK								
	5910017		ADMINISTRATIVE SYSTEM	IS COORD							
	5910018		ADMINISTRATIVE ASSISTA	ANT I							
	5910019		ADMINISTRATIVE ASSISTA	ANT I							
	5910020		SR CLERK & TYPIST								
	5910021		ADMINISTRATIVE SYSTEM	IS COORD							
	5910022		MIS COORDINATOR								
SUB COST CENTER		Total Positions:	20	Vacants:	1	Filled Positions:	19				
COST CENTER		Total Positions:	20	Vacants:	1	Filled Positions:	19				
DEPARTMENT		Total Positions:	20	Vacants:	1	Filled Positions:	19				
STR		OB	FRATIONS								

DEPARTMENT

CAP ENG & CONSTR	र		ОР	ERATIONS	
036	10	36100	CA	PITAL ENGR & CONST	ΓI
		3610001		DIRECTOR, CAPITAL ENG	,
		3610007		MANAGER, ENVIR COMPL	-
		3610013		EXECUTIVE SECRETARY	
		3610014		ASST. DIRECTOR	
		3610015		PROJECT MANAGER	
		3610016		DEPUTY DIRECTOR, ENG	NE
		3610017		PROJECT MANAGER	
		3610018		PROJECT ENGINEER	
		3610019		DESIGN MANAGER	
		3610020		DESIGN MANAGER	
		3610022		DESIGN MANAGER	
		3610023		DESIGN MANAGER	
		3610024		DESIGN MANAGER	
		3610025		PROJECT MANAGER	
		3610026		SR ENGINEERING AIDE	
		3610027		PROJECT MANAGER	
		3610028		DESIGN MANAGER	
		3610029		MANAGER, QA/QC	
		3610030		DEPUTY DIRECTOR, CAPI	TAL CONS
		3610031		SR CONSTRUCTION MAN.	AGER
		3610032		CONSTRUCTION COORDI	NATOR
		3610035		CONSTRUCTION COORDI	NATOR
		3610036		CONSTRUCTION COORDI	NATOR
		3610037		CONSTRUCTION COORDI	NATOR
		3610038		SR CONSTRUCTION MAN.	AGER
		3610039		CONSTRUCTION COORDI	NATOR
	SUB COST CENTER		Total Positions:	26	

EPARTMENT		PCR#		POSITION T	ITLE			
	COST CENTER		Total Positions:	26	Vacants:	2	Filled Positions:	24
	DEPARTMENT		Total Positions:	26	Vacants:	2	Filled Positions:	24
OPERATIONS PLAN	IING		ОР	ERATIONS				
0531	0	53100	ОР	ERATIONS PLANNING				
		5310002		PROJECT MANAGER				
		5310003		PROJECT ENGINEER, I/I				
		5310004		SR PROGRAM MANAGER				
		5310005		PROJECT MANAGER				
		5310006		PROJECT MANAGER				
		5310007		PROJECT MANAGER				
		5310008		PROJECT MANAGER				
		5310009		PROJECT MANAGER,I/I				
		5310010		PROGRAM MANAGER,GEO	TECH CSO			
		5310011		PROGRAM MANAGER,PLAN	INING			
		5310012		PROJECT MANAGER,I/I				
		5310013		SECRETARY I				
		5310014		SR SANITARY ENGINEERIN	G AIDE			
		5310015		PROJECT ENGINEER, CSO				
		5310017		SR PROGRAM MANAGER				
		5310019		PROJECT ENGINEER				
		5310020		PROJECT ENGINEER				
		5310021		PROJECT ENGINEER				
		5310023		STAFF ENGINEER - I/I				
		5310025		PROJECT MANAGER - PLA	INING			
		5310026		SR PROGRAM MANAGER,F	LANNING			
		5310027		PROJECT ENGINNER				
		5310029		PROJECT ENGINEER				
		5310032		PROJECT MANAGER				
		5310034		PROJECT ENGINEER				
		5310035		STAFF ENGINEER				
		5310036		SECRETARY I				
		5310037		PROJECT MANAGER,PLAN	NING			
		5310038		PROJECT MANAGER				
		5310039		PROJECT MANAGER				
		5310040		PROJECT MANAGER				
		5310041		DIRECTOR OF PLANNING				
		5310042		PROJECT MANAGER				
		5310043		PROJECT MANAGER				
		5310043		PROGRAM MANAGER, WRI	<b>.</b>			
		5310044		PROJECT MANAGER, RESI				
		5310040		PROGRAMMER ANALYST II				
		5310048		SR PRGRM MNGR,MPPNG				
		5310049		PROJECT MANAGER,PUBL				
				SENIOR PROGRAM MANAG				
	SUB COST CENTER	5310052	Total Positions:	40	Vacants:	7	Filled Positions:	33
	COST CENTER		Total Positions:		Vacants:	7	Filled Positions:	33
	JUJU OLIVILIN		ו טומו ו טטונוטווט.	<del>-</del> U	vacanto.	,	i ilicu r usitiviis.	00

ENG & CONSTR		OPERATIONS	
05525	55250	ENGINEERING	

5525002 SR PROGRAM MANAGER

PCR#	POSITION TITLE	
5525003	PROJECT MANAGER	
5525007	SR CIVIL ENGINEER-DRAFTSMAN	
5525009	SR STAFF ENGINEER, STRUCTURAL	
5525010	SR STAFF ENGINEER, MECHANICAL	
55250100	SR CIVIL ENGINEER	
55250101	SR CIVIL ENGINEER	
55250102	SR CIVIL ENGINEER	
55250103	ASSISTANT CIVIL ENGINEER	
55250104	ASSISTANT CIVIL ENGINEER	
55250105	CONSTRUCTION COORDINATOR	
55250106	PROGRAM MANAGER	
55250107	PRINCIPAL CIVIL ENGINEER	
55250108	CONSTRUCTION COORDINATOR	
55250109	ASST DIRECTOR, CONSTRUCTION	
5525011	PRINCIPAL SANITARY ENGINEER	
55250110	CONSTRUCTION MANAGER	
55250111	SECRETARY I	
5525015	STAFF ENGINEER	
5525016	PROJECT MANAGER	
5525017	ASST DIRECTOR, ENGINEERING	
5525019	SR STAFF ENGINEER, ELECTRICAL	
5525020	PROJECT MANAGER	
5525020	PROJECT MANAGER, TRANSPORT	
5525021	SR PROGRAM MANAGER	
5525022	PROJECT MANAGER	
5525023	APPLICATIONS ENGINEER	
5525024	MECHANICAL DESIGNER	
5525025	TECH INFO SYSTEMS ADMINISTRATO	
5525026	SR ENGINEER	
5525029	SR ENGINEER	
5525030	SR STAFF ENGINEER, STRUCTURAL	
5525031	PROJECT ENGINEER	
5525032	PROJECT ENGINEER	
5525034	ASST DIRECTOR, ENGINEERING	
5525035	SR STAFF ENGINEER	
5525036	SR ENGINEER	
5525037	PROJECT MANAGER	
5525039	PROGRAM MANAGER	
5525040	SR DRAFTSPERSON	
5525041	PROJECT MANAGER	
5525042	SR STAFF ENGINEER	
5525043	PROJECT ENGINEER, CIVIL	
5525044	PROGRAM MANAGER	
5525045	CADD/DRAFTING MANAGER	
5525048	ASSISTANT CIVIL ENGINEER	
5525051	SR CIVIL ENGINEER	
5525052	CONSTRUCTION COORDINATOR	
5525053	PROGRAM MANAGER	
5525054	ASSOCIATE ENVIR ENGINEER	
5525058	PROJECT ENGINEER	
5525060	PROJECT ENGINEER	
5525061	SR PROGRAM MANAGER, P & V	
5525062	SR PROGRAM MANAGER	
5525063	PROGRAM MANAGER	
5525066	TIC CLERK	
5525068	DIRECTOR, ENGINEERING & CONSTR	

DEPARTMENT

DEPARTMENT		PCR#		POSITION	TITLE				
		5525069		SECRETARY I					
		5525070		ADMINISTRATIVE SYSTEM	IS COORD				
		5525072		PROGRAM MANAGER					
		5525073		SR CIVIL ENGINEER					
		5525074		ASSISTANT CIVIL ENGINE	ER				
		5525075		ASSISTANT CIVIL ENGINE	ER				
		5525076		SR CIVIL ENGINEER					
		5525077		ASSISTANT CIVIL ENGINE	ER				
		5525078		ASSISTANT CIVIL ENGINE	ER				
		5525079		ASSISTANT CIVIL ENGINE	ER				
		5525081		JR CIVIL ENGINEER					
		5525082		JR CIVIL ENGINEER					
		5525083		PROJECT MANAGER					
		5525084		SR CIVIL ENGINEER					
		5525085		SR CIVIL ENGINEER					
		5525086		CONSTRUCTION MANAGE	R				
		5525087		CONSTRUCTION COORDI	NATOR				
		5525088		PROJECT MANAGER					
		5525090		CONSTRUCTION COORDI	NATOR				
		5525091		SR CIVIL ENGINEER					
		5525092		PRINCIPAL CIVIL ENGINE	ER				
		5525096		PROJECT MANAGER					
		5525097		ASSISTANT CIVIL ENGINE	ER				
		5525098		PROJECT MANAGER					
		5525099		PRINCIPAL CIVIL ENGINE	ER				
	SUB COST CENTER		Total Positions:	81		Vacants:	12	Filled Positions:	69
	COST CENTER		Total Positions:	81		Vacants:	12	Filled Positions:	69
	DEPARTMENT		Total Positions:	81		Vacants:	12	Filled Positions:	69
LAB SERVICES	-		OP	ERATIONS					

05710	57100	LABORATORY SERVICES
	5710001	DIRECTOR, LABORATORY SERV
	5710002	LABORATORY SECTION MANAG
	5710003	LABORATORY SUPERVISOR III
	5710004	IS PROJECT LEADER
	5710005	SECRETARY I
	5710006	LABORATORY MANAGER
	5710007	LABORATORY MANAGER
	5710008	LABORATORY SUPERVISOR III
	5710009	CHEMIST III
	5710010	LABORATORY SUPERVISOR III
	5710011	LABORATORY SUPERVISOR II
	5710012	LABORATORY SUPERVISOR II
	5710013	CHEMIST III
	5710014	CHEMIST III
	5710015	CHEMIST I
	5710016	SR LABORATORY TECHNICIAN
	5710017	SR LABORATORY TECHNICIAN
	5710018	LABORATORY TECHNICIAN
	5710019	LABORATORY TECHNICIAN
	5710021	QUALITY ASSURANCE COORDIN
	5710022	SECRETARY II
	5710023	ADMINISTRATIVE SYSTEMS COO

DEPARTMENT	PCR#		POSITION TITLE				
	5710024		CHEMIST III				
	5710025		CHEMIST III				
	5710026		CHEMIST II				
	5710027		CHEMIST I				
	5710028		CHEMIST II				
	5710029		CHEMIST II				
	5710030		MICROBIOLOGIST II				
	5710031		SR LABORATORY TECHNICIAN				
	5710033		CLIENT SERVICES COORDINATOR				
	5710035		CHEMIST II				
	5710036		CHEMIST I				
	5710038		LAB TECHNICIAN				
	5710039		CHEMIST III				
	5710040		CHEMIST I				
	5710041		CHEMIST I				
	5710042		SR LABORATORY TECHNICIAN				
	5710043		SR LABORATORY TECHNICIAN				
	5710044		BIOLOGIST I				
	5710045		CHEMIST III				
	5710046		CHEMIST II				
	5710047		CHEMIST I				
	5710048		CHEMIST I				
	5710049		SR LABORATORY TECHNICIAN				
	5710050		SR LABORATORY TECHNICIAN				
	5710051		SR LABORATORY TECHNICIAN				
	5710052		SR LABORATORY TECHNICIAN				
	5710053		CHEMIST III				
	5710055		CHEMIST II				
	5710056		BIOLOGIST I				
	5710057		RESEARCH VESSEL OPERATOR				
	5710058		CHEMIST II				
	5710059		CHEMIST III				
	5710060		MICROBIOLOGIST II				
	5710061		LABORATORY TECHNICIAN				
	5710062		LABORATORY SUPERVISOR				
	5710063		SR LABORATORY TECHNICIAN				
	5710064		MICROBIOLOGIST I				
	5710065		MICROBIOLOGIST I				
	5710066		LABORATORY SUPERVISOR II				
	5710067		PROJECT MANAGER				
	5710068		CHEMIST III				
SUB COST CENTER		Total Positions:	63	Vacants:	2	Filled Positions:	61
COST CENTER		Total Positions:	63	Vacants:	2	Filled Positions:	61
DEPARTMENT		Total Positions:	63	Vacants:	2	Filled Positions:	61
DIVISION		Total Positions:	1154	Vacants:	128	Filled Positions: 1	1026

DEPARTMENT	PCR #	POSITION TITLE
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LAW			LAW				
07110	71100	LA	w	1			
	7110001		GENERAL COUNSEL				
	7110002		ASSOCIATE GENERAL CO	DUNSEL			
	7110003		ASSOCIATE GENERAL CO	DUNSEL			
	7110005		SR STAFF COUNSEL				
	7110006		SR STAFF COUNSEL				
	7110008		SR STAFF COUNSEL				
	7110009		LEGAL ASSISTANT				
	7110011		REGULATORY COMPLIAN	ICE COORD			
	7110012		SECRETARY I				
	7110013		SECRETARY I				
	7110014		SECRETARY I				
	7110015		ADMINISTRATIVE COORE	DINATOR			
	7110016		STAFF COUNSEL				
	7110017		SR STAFF COUNSEL				
	7110020		SR STAFF COUNSEL				
	7110021		LEGAL ASSISTANT				
	7110023		EXECUTIVE SECRETARY				
	7110024		SR STAFF COUNSEL				
	7110025		SR STAFF COUNSEL				
	7110027		ASSOCIATE GENERAL CO	DUNSEL			
	7110028		SR STAFF COUNSEL				
	7110029		SR STAFF COUNSEL				
	7110030		LEGAL ASSISTANT				
	7110031		SECRETARY I				
	7110032		ADMINISTRATIVE SYSTEM	MS COORD			
	7110034		SR STAFF COUNSEL				
SUB COST CENTER		Total Positions:	26	Vacants:	3	Filled Positions:	23
COST CENTER		Total Positions:	26	Vacants:	3	Filled Positions:	23
DEPARTMENT		Total Positions:	26	Vacants:	3	Filled Positions:	23
DIVISION		Total Positions:	26	Vacants:	3	Filled Positions:	23

DEPARTMENT	PCR#		POSITION	TITLE				
DIVISION DIRECTOR		SUPF	PORT SERVS					
08150	81500	DIV	ISION DIRECTOR					
8	8150001		MANAGING DIRECTOR					
8	8150003		TECH ASST/SUPPORT SEI	RVICES				
8	8150004		MGR, SECURITY & EMERG	PLANNING				
8	8150005		EXECUTIVE SECRETARY					
8	8150006		SECURITY ADMINISTRATO	)R				
SUB COST CENTER		Total Positions:	5	•	Vacants:	0	Filled Positions:	5
COST CENTER		Total Positions:	5	,	Vacants:	0	Filled Positions:	5
DEPARTMENT		Total Positions:	5	,	Vacants:	0	Filled Positions:	5
INTERNAL AUDIT		SUPF	PORT SERVS					
08210	82100	INT	ERNAL AUDIT					
8	8210001		ACTING DIRECTOR INTER	NAL AUDIT				
8	8210003		SUPERVISORY AUDITOR					
8	8210005		SR STAFF AUDITOR					
8	8210006		ADMINSTRATIVE COORDI	NATOR				
8	8210007		ACTING ASST DIR AUDIT 8	& CNTRCT				
8	8210008		SR STAFF AUDITOR					
8	8210013		SR SUPERVISORY AUDITO	OR, CONTRA	A			
8	8210014		SR STAFF AUDITOR, CON	TRACT AUD				
8	8210015		SR STAFF AUDITOR					
SUB COST CENTER		Total Positions:	9	•	Vacants:	1	Filled Positions:	8
COST CENTER		Total Positions:	9	•	Vacants:	1	Filled Positions:	8
DEPARTMENT		Total Positions:	9	,	Vacants:	1	Filled Positions:	8
PUBLIC AFFAIRS		SUPF	PORT SERVS					
08250	82500	PU	BLIC AFFAIRS					
8	8250001		DEPUTY DIRECTOR, COM	M RELATION	N			
8	8250002		SENIOR COMM RELATION	S COORD				
8	8250003		COMMUNITY RELATION C	OORDINATO	)R			
8	8250004		SENIOR COMM RELATION	S COORD				
8	8250006		COMMUNICATIONS MANA					
	8250007		MANAGER, PUBLIC ACCES	SS				
	8250013		SECRETARY II					
	8250016		PROGRAM MANAGER GRA		ΞN			
	8250017		PROJECT COORDINATOR					
	8250020		DIRECTOR, PUBLIC AFFAI		,			
	8250022		INTERGOVERNMENTAL AI		≺			
	8250023 8250024		ADMINISTRATIVE SYSTEM SECRETARY I	IS COORD				
	8250024		DEP DIR, COMMUNICATIO	NS				
	8250026		GRAPHICS TECHNICIAN					
	8250030		PUBLIC ACCESS COORDIN	NATOR				
	8250031		PUBLIC ACCESS COORDII					
	8250035		FILE CLERK					
SUB COST CENTER		Total Positions:	18	,	Vacants:	1	Filled Positions:	17
COST CENTER		Total Positions:	18	,	Vacants:	1	Filled Positions:	17

DEPARTMENT		PCR#		POSITION	TITLE				
08260		82600	ED	UCATION PROGRAM					
		8260001		PROJECT MANAGER, SCH	IOOL ED				
		8260002		ADMINISTRATIVE COORD	INATOR				
:	SUB COST CENTER		Total Positions:	2		Vacants:	0	Filled Positions:	2
=	COST CENTER		Total Positions:	2		Vacants:	0	Filled Positions:	2
= 	DEPARTMENT		Total Positions:	20		Vacants:	1	Filled Positions:	19
AFFIRM ACTION			SUPF	PORT SERVS					
08410	1	84100	AFI	FIRMATIVE ACTION					
		8410001		SPECIAL ASST FOR AFFIR	RACTION				
		8410002		MBE/WBE PROGRAM MAN					
		8410003		ASSOC SPECIAL ASST FC					
		8410004		COMPLIANCE MONITOR					
		8410005		WORKFORCE DEV. COOR	DINATOR				
		8410006		EXECUTIVE SECRETARY					
		8410008		PROGRAM MNGR, MONITO	OR & COM	PLN			
		8410009		COMPLIANCE MONITOR	& OOWII				
		8410010		JR COMPLIANCE MONITO	R				
		8410011		SR COMPLIANCE MONITO					
;	SUB COST CENTER	0410011	Total Positions:	10		Vacants:	1	Filled Positions:	9
=	COST CENTER		Total Positions:	10		Vacants:	1	Filled Positions:	9
<del>=</del> 	DEPARTMENT		Total Positions:	10		Vacants:	1	Filled Positions:	9
HUMAN RESOURCES			SUPF	PORT SERVS					
08510		85100	EM	PL/COMP/BEN					
		8510001		DIRECTOR, HUMAN RESC	URCES				
		8510002		EXECUTIVE SECRETARY					
		8510003		EMPLOYMENT MANAGER					
		8510005		SR RECRUITER					
		8510006		SR BENEFITS & HRIS ANA	LYST				
		8510008		SECRETARY I					
		8510010		SR COMP & BENEFITS AN	ALYST				
		8510011		MANAGER, COMPENSATION					
				MANAGER. BENEFITS ANI	HRIS				
		8510012		MANAGER, BENEFITS AND					
		8510012 8510014		EMPLOYEE BENEFITS AS:	SISTANT				
		8510012 8510014 8510015		EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG	SISTANT				
	SUB COST CENTER	8510012 8510014	Total Positions:	EMPLOYEE BENEFITS AS:	SISTANT	Vacants:	2	Filled Positions:	10
Ξ	SUB COST CENTER	8510012 8510014 8510015	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN	SISTANT	Vacants:	2	Filled Positions:	10
Ξ	COST CENTER	8510012 8510014 8510015	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN	SISTANT				
= ( -	COST CENTER	8510012 8510014 8510015 8510016	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12	SISTANT ER ALYST				
= ( -	COST CENTER	8510012 8510014 8510015 8510016	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12 BOR RELATIONS	SISTANT ER ALYST	Vacants:			
= ( -	COST CENTER	8510012 8510014 8510015 8510016 85200 8520001	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12 BOR RELATIONS MANAGER, LABOR RELAT	SISTANT ER ALYST IONS RELATIONS	Vacants:			
= ( -	COST CENTER	8510012 8510014 8510015 8510016 852000 8520001 8520002	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12 BOR RELATIONS MANAGER, LABOR RELAT ASST MANAGER, LABOR I	SISTANT ER ALYST IONS RELATIONS RKERS CO	Vacants:			
= ( -	COST CENTER	8510012 8510014 8510015 8510016 852000 8520001 8520002 8520003	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12 BOR RELATIONS MANAGER, LABOR RELAT ASST MANAGER, LABOR 16 ASST MANAGER FOR WO	IONS RELATIONS RKERS CO	Vacants:			
= ( -	COST CENTER	8510012 8510014 8510015 8510016 852000 8520001 8520002 8520003 8520004	Total Positions:	ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12 12 BOR RELATIONS MANAGER, LABOR RELAT ASST MANAGER, LABOR RELAT ASST MANAGER FOR WO ADMINISTRATIVE SECRET	SISTANT ER ALYST  IONS RELATIONS RKERS CO TARY	Vacants:			
= ( -	COST CENTER	8510012 8510014 8510015 8510016 852000 8520001 8520002 8520003 8520004 8520005	Total Positions:	EMPLOYEE BENEFITS AS: ADMINISTRATIVE MANAG SR COMP & BENEFITS AN 12  12  BOR RELATIONS  MANAGER, LABOR RELAT ASST MANAGER, LABOR I ASST MANAGER FOR WO ADMINISTRATIVE SECRET ASST MANAGER, LABOR I	IONS RELATIONS RELATIONS CURITY/SA	Vacants:			

DEPARTMENT		PCR#		POSITION TITLE				
	COST CENTER		Total Positions:	s: 7	Vacants:	1	Filled Positions:	6
	08530	85300	TR	RAINING				
		8530001		MANAGER, TECHNICAL TRAINING	}			
		8530003		TRAINING SPECIALIST				
		8530006		MANAGER, HR DEVELOPMENT				
		8530007		PROGRAM MANAGER, TRAINING				
		8530009		TRAINING SPECIALIST				
	SUB COST CENTER		Total Positions:	s: 5	Vacants:	0	Filled Positions:	5
	COST CENTER		Total Positions:	s: 5	Vacants:	0	Filled Positions:	5
	DEPARTMENT		Total Positions:	s: 24	Vacants:	3	Filled Positions:	21

MIS		SUPPORT SERVS
08610	86100	MIS
	8610001	DIRECTOR, MIS
	8610002	INFORMATION CENTER MA
	8610003	ADMINISTRATIVE COORDINA
	8610004	SR SYSTEMS ANALYST
	8610005	PROGRAM MGR, TECH SERVICES
	8610006	TECHNICAL SUPPORT ANALYST
	8610007	DATABASE ANALYST PROGRAMMEI
	8610008	DATABASE ANALYST PROGRAMMEI
	8610009	SR SYSTEMS ANALYST
	8610010	DATABASE ANALYST PROGRAMMEI
	8610011	SR SYSTEMS ANALYST
	8610012	IS CUSTOM SUPPORT MANAGER
	8610013	USER HELPLINE SUPERVISOR
	8610015	SR SYSTEMS ANALYST
	8610016	ACTING DATABASE/ANALYST PROG
	8610017	SECRETARY I
	8610019	COMPUTER OPERATOR II
	8610020	TECHNICAL OPERATIONS MANAGE
	8610024	NETWORK AND SYSTEMS MANAGE
	8610025	IS DEVELOPMENT SPECIALIST
	8610027	HARDWARE MAINTENANCE SPECIA
	8610028	IS DEVELOPMENT SPECIALIST
	8610030	DATABASE ANALYST PROGRAMMEI
	8610031	SR CEB ANALYST
	8610032	SECURITY MONITOR
	8610033	DATA RESOURCE MANAGER
	8610034	PROGRAMMER ANALYST II
	8610035	IS DEVELOPMENT SPECIALIST
	8610036	PROGRAM MANAGER
	8610037	SR SYSTEMS MANAGER
	8610038	PROGRAMMER ANALYST II
	8610039	TECHNICAL SUPPORT ANALYST
	8610040	PROGRAM MANAGER, MIS
	8610043	DATABASE ANALYST PROGRAMMEI
	8610044	PROGRAM MANAGER
	8610045	DATABASE ANALYST PROGRAMMEI
	8610046	DATABASE ANALYST PROGRAMMEI

TECHNICAL SUPPORT ANALYST
DATABASE ANALYST PROGRAMMER

8610047

8610048

	PCR#		POSITION	TITLE			
	8610049		DATABASE ANALYST				
	8610050		DATABASE ANALYST PRO	GRAMMER			
	8610051		TECHNICAL SUPPORT AN	ALYST			
	8610052		FILE CLERK				
	8610053		PROGRAM MANAGER, MIS	3			
	8610054		SR SYSTEMS ANALYST				
	8610055		DATABASE ANALYST PRO	GRAMMER			
	8610056		SR OPERATOR/E-MAIL AD	MINISTRAT			
	8610057		COMPUTER OPERATOR I				
	8610058		PROGRAM MANAGER,NET	TWORK SRV.			
	8610059		IS PROJECT LEADER				
	8610060		DATABASE ANALYST PRO	GRAMMER			
	8610062		HELPLINE COORDINATOR	2			
	8610063		PUBLIC INFORMATION TE	CHNICIAN			
	8610066		HELPLINE COORDINATOR	2			
	8610067		DATABASE ANALYST PRO	GRAMMER			
	8610068		TECHNICAL SUPPORT AN	ALYST			
	8610069		DATABASE ANALYST PRO	GRAMMER			
	8610071		INFORMATION SPECIALIS	т			
	8610072		LIBRARIAN/RECORDS MG	R			
	8610073		LIBRARY SUPERVISOR				
	8610074		INFORMATION SPECIALIS	т			
	8610075		SR SYSTEMS ANALYST				
	8610076		MIS COORDINATOR				
	8610077		SR SYSTEMS MANAGER				
	8610078		TECHNICAL SUPPORT AN	ALYST			
	8610080		DATABASE ANALYST PRO	GRAMMER			
	8610081		SR SYSTEMS ANALYST				
	8610082		APPLICATION SUPPORT	SUPERVISOR			
	8610083		DATABASE ANALYST/PRO	GRAMMER			
	8610084		SR SYSTEMS ANALYST				
	8610085		SR SYSTEMS MANAGER				
	8610086		IS PROJECT LEADER				
SUB COST CENTER		Total Positions:	72	Vacants:	0	Filled Positions:	72
COST CENTER		Total Positions:	72	Vacants:	0	Filled Positions:	72
DEPARTMENT		Total Positions:	72	Vacants:	0	Filled Positions:	72
RT		SUPF	PORT SERVS				

CENTRAL SUPPORT		SUPPORT SERVS
08310	83100	VECHICLE MGMT & MAINT

DEPARTMENT

83100 V	ECHICLE MGMT & MAINT
8310001	MANAGER, VEH MAINT/DATA SUPPRT
8310002	MOTOR EQUIPMENT REPAIR FOREMAN
8310003	MOTOR EQUIPMENT REPAIR FOREMAN
8310004	ADMINISTRATIVE SYSTEMS COORD
8310005	VEHICLE SERVICES SUPERVISOR
8310006	VEHICLE SERVICES SUPERVISOR
8310007	MOTOR EQUIPMENT REPAIRMAN
8310008	MOTOR EQUIPMENT REPAIRMAN
8310009	MOTOR EQUIPMENT REPAIRMAN
8310010	MOTOR EQUIPMENT REPAIRMAN
8310011	MOTOR EQUIPMENT REPAIRMAN
8310012	ADMINISTRATIVE SYSTEMS COORD
8310013	AUTOMOTIVE REPAIRMAN ASSIST
8310014	MOTOR EQUIPMENT REPAIRMAN
	8310001 8310002 8310003 8310004 8310005 8310006 8310007 8310008 8310009 8310010 8310011 8310012 8310013

		PCR#		POSITION TITLE					
		8310016		MOTOR EQUIPMENT REPAIRMAN					
,	SUB COST CENTER		Total Positions:	15	Vacants:	4	Filled Positions:	11	
Ξ	0007.051/750		Talal Davids	45			EW. J. D W	44	
=	COST CENTER		Total Positions:	15	Vacants:	4	Filled Positions:	11	
08320	)	83200	FO	RE RIVER STAGING AREA					
		8320007		SR FIRE & SAFETY WARDEN					
		8320011		FIRE & SAFETY WARDEN					
		8320012		SENIOR FIRE & SAFETY WARDEN					
		8320014		MAINTENANCE/HOUSEKEEPER					
		8320016		SENIOR FIRE & SAFETY WARDEN					
		8320021		SKILLED LABORER					
		8320025		ACTING SITE OPS SUPERVISOR					
:	SUB COST CENTER		Total Positions:	7	Vacants:	3	Filled Positions:	4	
-	COST CENTER		Total Positions:	7	Vacants:	3	Filled Positions:	4	
08730	)	87300	FA	CILITIES MANAGEMENT(CNY					
		8730001		MANAGER, FACILITY & ADMIN					
		8730003		ACTING FACILITY COORDINATOR					
		8730004		EXECUTIVE SECRETARY					
		8730006		SKILLED LABORER					
		8730010		ASSISTANT TO DIRECTOR, CENTRA	.L				
		8730011		SR FINANCIAL ANALYST					
;	SUB COST CENTER		Total Positions:	6	Vacants:	2	Filled Positions:	4	
08730	)	87350	FA	CILITIES MANAGEMENT(NMF					
		8735002		SKILLED LABORER					
		8735005		SKILLED LABORER					
;	SUB COST CENTER		Total Positions:	2	Vacants:	0	Filled Positions:	2	
=	COST CENTER		Total Positions:	8	Vacants:	2	Filled Positions:	6	
08740	)	87400	AD	MIN SUPPORT SERVICES					
		8740004		MESSENGER/COURIER					
		8740005		ACTING INVENTORY CNTRL SPEC					
		8740007		ADMIN SERVICES MANAGER					
				OURER WOOD TRANSPORTION UNIT					
		8740010		SUPERVISOR, TRANSPORT/COURIE	R				
		8740010 8740011		MESSENGER/COURIER	R				
					R				
		8740011		MESSENGER/COURIER	R				
		8740011 8740012		MESSENGER/COURIER DISPATCHER/COURIER	R				
		8740011 8740012 8740015		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE	R				
		8740011 8740012 8740015 8740016		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II	R				
		8740011 8740012 8740015 8740016 8740017		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II - SHARE	R				
		8740011 8740012 8740015 8740016 8740017		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE	R				
		8740011 8740012 8740015 8740016 8740017 8740018		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE DEPARTMENT ADMINISTRATOR	R				
		8740011 8740012 8740015 8740016 8740017 8740017 8740018 8740019		MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE DEPARTMENT ADMINISTRATOR SECRETARY I	R				
;	SUB COST CENTER	8740011 8740012 8740015 8740016 8740017 8740017 8740018 8740019 8740020	Total Positions:	MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II SECRETARY II - SHARE SECRETARY II - SHARE DEPARTMENT ADMINISTRATOR SECRETARY I SECRETARY I	R Vacants:	4	Filled Positions:	9	
Ξ	SUB COST CENTER	8740011 8740012 8740015 8740016 8740017 8740017 8740018 8740019 8740020	Total Positions:	MESSENGER/COURIER DISPATCHER/COURIER SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE SECRETARY II - SHARE DEPARTMENT ADMINISTRATOR SECRETARY I SECRETARY I MESSENGER/COURIER		4	Filled Positions:	9	

PROCUREMENT SUPPORT SERVS

08810 88100 PROCUREMENT

DEPARTMENT

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DEPARTMENT	PCR#	POSITION TITLE				
	8810001	DIRECTOR, PROCUREMENT				_
	8810002	ACTING EXECUTIVE SECRETARY				
	8810003	PURCHASING MANAGER				
	8810004	SR BUYER				
	8810006	SECRETARY I				
	8810007	BUYER				
	8810009	BUYER				
	8810012	DATA CONTROL COORDINATOR				
	8810013	BUYER				
	8810015	DEPUTY PURCHASING MANAGER				
	8810016	BUYER				
	8810020 8810021	BUYER				
	8810022	CONTRACTS MANAGER ASST CONTRACTS MANAGER				
	8810024	DEPUTY CONTRACTS MANAGER				
	8810025	DEPUTY CONTRACTS MANAGER				
	8810026	CONTRACTS COORDINATION MAN	AGER			
	8810028	ASST CONTRACTS MANAGER				
	8810031	DEPUTY CONTRACTS MANAGER				
	8810032	SECRETARY I				
	8810033	DOCUMENT COORDINATOR				
	8810034	DATA & INFO COORDINATOR				
	8810035	ASST CONTRACTS MANAGER				
	8810039	ASST CONTRACTS MANAGER				
	8810040	DEPUTY CONTRACTS MANAGER				
	8810043	SECRETARY I				
	8810044	ASST CONTRACTS MANAGER				
SUB COST CENTER	Total Position	ons: 27	Vacants:	1	Filled Positions:	26
SUB COST CENTER  COST CENTER	Total Positi		Vacants:	1	Filled Positions:	26
COST CENTER						
COST CENTER 08820	Total Position	ons: 27				
COST CENTER 08820	Total Position 88200 8820001 8820002	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE	Vacants:			
COST CENTER 08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820009	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010 8820012	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS*  INVENTORY CONTROL SPECIALIS*	Vacants:			
COST CENTER 08820	Total Position 882000 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010 8820010 8820012	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'	Vacants:			
COST CENTER 08820	Total Position 882000 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010 8820010 8820012 8820013 8820014	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE	Vacants:			
COST CENTER 08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010 8820010 8820012 8820013 8820014 8820015	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO	Vacants:  R R R R R R R R R R			
COST CENTER 08820	Total Position 882000 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820009 8820010 8820010 8820012 8820013 8820014	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE	Vacants:  R R R R R R R R R R R			
COST CENTER  08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820010  8820010  8820012  8820012  8820014  8820014  8820015  8820016	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE	Vacants:  R R R P R R R R R R R R R			
COST CENTER  08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820010 8820010 8820012 8820013 8820014 8820015 8820016 8820016 8820017	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE	Vacants:  R R R R R R R R R R R R R R R R R R			
OST CENTER  08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820010 8820010 8820012 8820012 8820014 8820015 8820015 8820016 8820017 8820018	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO	Vacants:  R R R R R R R R R R R R R R R R R R			
08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820010 8820010 8820012 8820012 8820014 8820014 8820015 8820016 8820017 8820018 8820019	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  INVENTORY CONTROL SPECIALIS'	Vacants:  R R R R R R R R R R R R R			
OST CENTER  08820	Total Position 88200 8820001 8820002 8820003 8820005 8820006 8820007 8820008 8820010 8820010 8820012 8820012 8820014 8820015 8820015 8820016 8820017 8820017 8820018 8820019 8820019	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD SECRETARY I  REGIONAL WAREHOUSE MANAGE SHIPPING/RECEIVING SUPERVISO WAREHOUSE MATERIALS HANDLE WAREHOUSE MATERIALS HANDLE WAREHOUSE MANAGER INVENTORY CONTROL SPECIALIS' INVENTORY CONTROL SPECIALIS' INVENTORY CONTROL SUPERVISO WAREHOUSE MATERIALS HANDLE INVENTORY CONTROL SUPERVISO WAREHOUSE MATERIALS HANDLE SHIPPING/RECEIVING SUPERVISO INVENTORY CONTROL SPECIALIS'	Vacants:  R R R R R R R R R R R R R R R R R			
OST CENTER  08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820010  8820010  8820012  8820012  8820014  8820015  8820016  8820017  8820017  8820018  8820019  8820020  8820020	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  INVENTORY CONTROL SPECIALIS'  MGR, ANALYSIS & TECH SUPPORT	Vacants:  R R R R R R R R R R R R R R R R R R			
OST CENTER  08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820010  8820012  8820012  8820014  8820015  8820016  8820017  8820016  8820017  8820018  8820019  8820020  8820020  8820023	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  INVENTORY CONTROL SPECIALIS'  MGR, ANALYSIS & TECH SUPPORT  WAREHOUSE MATERIALS HANDLE	Vacants:  R R R R R R R R R R R R R R R R R R			
OST CENTER  08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820010  8820012  8820012  8820014  8820015  8820015  8820016  8820017  8820017  8820018  8820019  8820019  8820020  8820023  8820025  8820026	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  INVENTORY CONTROL SUPERVISO  INVENTORY CONTROL SUPERVISO  INVENTORY CONTROL SPECIALIS'  MGR, ANALYSIS & TECH SUPPORT  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO	Vacants:  R R R R R R R R R R R R R R R R R R			
OST CENTER  08820	Total Positio  88200  8820001  8820002  8820003  8820005  8820006  8820007  8820008  8820010  8820012  8820012  8820014  8820015  8820017  8820016  8820017  8820018  8820019  8820019  8820020  8820023  8820025  8820026  8820027	MATERIALS MANAGEMENT  ACTING MATERIALS MANAGER  WAREHOUSE INVENTORY COORD  SECRETARY I  REGIONAL WAREHOUSE MANAGE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MANAGER  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  INVENTORY CONTROL SUPERVISO  WAREHOUSE MATERIALS HANDLE  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  INVENTORY CONTROL SPECIALIS'  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MATERIALS HANDLE  SHIPPING/RECEIVING SUPERVISO  WAREHOUSE MANAGER	Vacants:  R R R R R R R R R R R R R R R R R R			

DEPARTMENT		PCR#		POSITIO	ON TITLE			
		8820030		INVENTORY CONTROL	. SPECIALIST			
		8820031		WAREHOUSE MATERI	ALS HANDLER			
		8820032		PRINCIPAL CLERK				
		8820033		INVENTORY CONTROL	SPECIALIST			
	SUB COST CENTER		Total Positions:	28	Vacants:	3	Filled Positions:	25
	COST CENTER		Total Positions:	28	Vacants:	3	Filled Positions:	25
	DEPARTMENT		Total Positions:	55	Vacants:	4	Filled Positions:	51
REAL PROP			SUPF	PORT SERVS				
30	3850	88500	RE	AL PROP & ENV MG	MT			
		8850001		REAL PROPERTY PRO	JECT MANAGER			
		8850002		DIRECTOR, REAL PRO	PERTY & ENV			
		8850003		ENVIRONMENTAL MAN	IAGER			
		8850004		PROGRAM MANAGER,	ENVIRONMENTAL			
		8850005		PERMITS				
		8850006		PROJECT MANAGER				
		8850007		PROGRAM MANAGER/	REG COMPLIANCE			
		8850008		ADMINISTRATIVE SYS	TEMS COORD			
		8850009		SECRETARY II				
	SUB COST CENTER		Total Positions:	9	Vacants:	1	Filled Positions:	8
	COST CENTER		Total Positions:	9	Vacants:	1	Filled Positions:	8
	DEPARTMENT		Total Positions:	9	Vacants:	1	Filled Positions:	8
	DIVISION		Total Positions:	247	Vacants:	24	Filled Positions:	223
	AUTHORITY		Total Positions:	1490	Vacants:	165	Filled Positions: 1	325

### APPENDIX D

#### **BUDGET PROCESS AND TIMETABLE**

MWRA operates on a fiscal year that starts July 1. The Current Expense Budget development process begins in September and, as described below, continues through a series of interactive reviews and revisions until June, when the Board of Directors approves the final budget. Throughout the formal budget process, MWRA staff maintain an ongoing dialogue with the Board of Directors and Advisory Board to discuss issues, the status of budget development, and other concerns.

September

Divisions receive budget targets, guidelines, and manuals for the development of budget requests, and can begin to access MWRA's interactive budgeting system.

**Nov-Dec** 

After the divisions return their budget requests, Rates and Budget Department staff compare the requests to the previous years' budgets and expenses, review the justifications for the requests, and meet with program staff to clarify resource needs and identify opportunities for efficiencies.

January

The Executive Director, supported by senior management, determines proposed funding levels required to meet service priorities. Staff may seek appropriate policy direction from the Board.

**February** 

MWRA transmits the Proposed Current Expense Budget to the Advisory Board for a 60-day review. during which time MWRA staff meet with Advisory Board staff, respond to questions, and provide updated information on plans and prices. (FY04 was an exception to this timetable there first-time since is a Governor and the House 1 budget was released in February versus January).

Mar-April

MWRA hosts public hearings to solicit comments on the proposed budget community assessments from citizens in its service area. The Board of Directors may hold briefing sessions on the proposed budget. The Advisory Board transmits comments and recommendations on the proposed budget to MWRA.

May

The Board of Directors holds a hearing on the proposed budget and the Advisory Board's comments and recommendations.

June

The Board of Directors adopts a final Current Expense Budget and a schedule of final wholesale water and sewer assessments.

#### APPENDIX E

## MASSACHUSETTS WATER RESOURCES AUTHORITY BUDGET AND ASSESSMENT POLICIES AND PROCEDURES

#### (Revised September 2000)

These policies and procedures govern certain budget, assessment, and rates management practices at the Massachusetts Water Resources Authority (MWRA). Policies and procedures may be amended from time to time, provided that changes in provisions governing reporting to or approvals by the Board of Directors or the Advisory Board must be approved by the Board of Directors. If any sections of these policies and procedures are at variance with requirements of MWRA's financing agreements, the latter shall govern.

# ASSESSMENT POLICIES AND PROCEDURES

#### **Basis of MWRA Assessments**

MWRA is required by its enabling act to establish assessments which, with other revenues, provide sufficient funds each year to pay all current expenses, debt service, and obligations to the Commonwealth; to pay all costs of maintenance, replacement, improvements, extension, and enlargement of the sewer and waterworks systems; to create and maintain reserve funds; and to provide amounts required by financing agreements. These assessments are adopted by MWRA based on the rate revenue requirements set forth in the Current Expense Budget.

#### **Costs Recovered**

MWRA capitalizes certain of its asset costs in accordance with its capitalization policy. Capital expenditures are planned as set forth in the Capital Improvement Program and are recovered through assessments in accordance with MWRA financing agreements. The Current Expense Budget provides detailed information on capital and debt costs, additions to reserves, and all operations and maintenance costs to be recovered with current revenue.

#### **Sources of Current Revenue**

MWRA recovers most of its current expenses from users of the services it provides. In addition to rate revenue requirements, budgeted current revenue includes anticipated fines, fees, investment income on certain fund balances, and payments for contracted services. MWRA is committed to seeking additional sources of current revenue.

#### **Coverage Requirements**

MWRA's financing agreements include coverage requirements which provide that each year revenue less operating expenses (net revenue) must be more than the amount required for debt service payments on outstanding bonds. The primary bond coverage requirement is that net revenue must be 120 percent of required debt service fund deposits for bonds outstanding excluding subordinated bonds. The secondary coverage requirement is that net revenue must be 110 percent of required debt service fund deposits for all bonds outstanding, including subordinated bonds. Revenue must be raised annually to meet the primary and secondary bond coverage requirements and may be used for additions to reserves or for payment of obligations to the Commonwealth. Amounts remaining after these uses are used to pay capital costs in order to reduce the need for future borrowing or to reduce current debt service costs. In addition, MWRA has a supplemental bond coverage requirement that amounts contained in its Community Obligation and Revenue Enhancement (CORE) Fund shall equal 10 percent of required debt service fund deposits for bonds outstanding, excluding subordinated bonds. Amounts required to be on deposit in the CORE Fund are recovered through assessments as necessary.

### **Budget Surpluses**

In any year in which current revenue exceeds both current expenses on a budget basis and amounts required to meet bond coverage tests, the amount of over-recovery is deposited first to reserve funds, if any, which are below the level specified in any financing agreements, and second into MWRA's rate stabilization fund or bond redemption fund. Amounts deposited in these funds are used to offset rate requirements in subsequent years. Use of rate stabilization and bond redemption fund amounts is carried out in furtherance of MWRA's budgeting objectives and in accordance with its financing agreements. MWRA consults with the Advisory Board concerning use of amounts in the funds.

#### **Budgeting and Assessment Objectives**

MWRA intends to follow prudent budgeting practices, and has the following objectives in developing budgets and community assessments:

- 1. To minimize total costs, consistent with MWRA's statutory responsibilities to provide effective, environmentally sound wholesale water delivery and wastewater collection and treatment services;
- 2. To minimize the cost of debt;
- 3. To avoid single year assessment spikes by prudent management of cost and assessment increases, and
- 4. To support inter-generational equity by avoiding unfair assessment burdens on either current or future ratepayers.

#### Allocation of Costs and Revenue to Systems

Most of MWRA's current expenses are directly attributable to either water or sewerage service costs or to investment in either the water or sewerage systems. Expenses which support both systems (indirect system costs) are allocated to the water or sewer system based on generally accepted cost allocation principles. Investment, contract, and other income offsets water and sewerage expenses on either a direct or allocated, indirect basis. The resulting net cost of water and sewerage services is the amount to be recovered through water and sewer assessments.

## Allocation of Rate Revenue Requirements to User Assessments

Users of MWRA wholesale water and sewerage services are assessed for those services according to MWRA's water and sewer assessment methodologies. Assessments for water services are computed by MWRA based on metered water use for the immediately preceding calendar year. The total assessment is allocated based on each community's share of water delivered in the immediately preceding calendar year.

Assessments for sewer services are computed on the basis of a combination of metered wastewater flow and loads, and population.

- O&M costs are allocated based on total annual metered wastewater flow, and total annual average strength, septage, and high strength flow loads.
- Capital (or debt service) costs are allocated based on a combination of metered wastewater flow and loads, and population. One quarter of capital costs are allocated based on maximum month flow, and total annual average strength, septage, and high strength flow loads. The remaining three-quarters of capital costs are allocated based on population. Half of the population allocation is based on census population and half is based on contributing population.

#### **Schedule and Procedure for Adoption of Assessments**

During the preparation of the proposed Current Expense Budget, required water and sewer rate revenue is determined, and a preliminary calculation of the allocation of costs to user-specific assessments is made. This information is provided to MWRA customers to assist them in their own fiscal planning. As provided in the Enabling Act, the proposed Current Expense Budget and preliminary assessments undergo statutory review, including public hearings and review by MWRA's Advisory Board. Further refinements of projected expenses and revenues also occur during this period. If review and analysis of the proposed Current Expense Budget results in lower projected expenses or higher projected revenue, some or all of such savings from preliminary estimates of assessments can be included in the adopted budget as additions to the rate stabilization fund and used to reduce rate revenue requirements in subsequent years. Alternatively, some or all of such savings can be used to reduce final assessments to customers below preliminary estimates.

The Current Expense Budget and final water and sewer assessments are adopted in June for the fiscal year beginning in July. The budget adopted in June may differ from the proposed budget as a result of review and further refinement of the proposed budget, although final assessments adopted by MWRA must be sufficient to recover water and sewer rate revenue requirements specified in the adopted budget. Final water and sewer rate requirements and their allocation to users may thus change from preliminary estimates. In addition, any individual community's final assessment may be higher or lower than the preliminary estimate, both because of changes in the factors which effect the allocation of assessments among wholesale customers, and because of differences between MWRA's proposed and final budgets as approved by the Board of Directors.

## **Review and Dispute Resolution Process**

MWRA annually determines preliminary and final assessments for water and sewer services in February and June prior to the beginning of the new fiscal year. These assessments must satisfy the requirement that MWRA fully recover its water and sewer costs by apportioning total costs as assessments among its wholesale water and sewer customers pursuant to its water and sewer assessment methodologies and to certain specified data including:

- Calendar year metered water volume and metered wastewater flow obtained from MWRA's water and wastewater metering systems;
- Federal and state community census statistics, and sewered population estimates and other information supplied on Customer Service Update forms and Municipal Discharge Permits; and
- High strength user monitoring data and estimates of community septage volumes as obtained by MWRA's Toxic Reduction and Control Department.

The review and dispute resolution process provides MWRA's wholesale customers with the opportunity to review and comment on the reasonableness of the data used to calculate preliminary water and sewer assessments. During the year MWRA provides its customers with monthly summaries of water and wastewater flow data distributed, at a minimum, on a bimonthly basis. Because annual metered water and wastewater flows are major components for establishing water and sewer assessments, customers are strongly encouraged to review this data closely upon receipt and to raise questions with MWRA staff concerning the data. MWRA expects that prompt customer review and comment on meter data will result in the resolution of most water and wastewater metering questions and assure the most consistency between preliminary assessments in February and final assessments announced in June. Community contributions of high strength flow and septage, and population data are made available with the release of preliminary assessments in February.

If after an initial review a community believes that specific data used to calculate assessments should be reevaluated, the community may submit a written objection to the Executive Director with a copy to the Finance Division. The objection must be signed by the local official on record with MWRA as responsible for water or sewer services in the city, town, or district. The objection should state the community's concern with the data used to calculate community assessments, and should also include information and technical data to support the community's objection.

All objections must be received no later than the date of the final public hearing on the proposed budget and preliminary assessments held pursuant to Section 10 of the Enabling Act. MWRA staff will review and evaluate the merits of all written objections. Customers are notified in writing of the results of this review prior to the release of final assessments.

Adjustments to preliminary data, if any, are not retroactive beyond the applicable calendar year for proposed assessments. Final fiscal year assessments are calculated incorporating adjustments, if any, resulting from the review and objection process, and final rate revenue requirements as adopted by the Board of Directors.

## Water and Sewer Assessment Payment Schedule

MWRA adopts a schedule of assessments and a schedule of payments annually. Any adjustments for prior years resulting from the review and objection process are apportioned to each of the scheduled payment amounts. No interest is paid or billed by MWRA for previous year's adjustments.

Beginning in FY2001, assessments are payable to MWRA in ten equal installments due on the first day of August, September, October, November, December, February, March, April, May, and June.

### **Interest Charge on Delinquent Payments**

For payments received after a payment date MWRA levies an interest charge of one percent per month or 0.033 percent per day. Interest charges do not accrue until 45 days after the bills are mailed to MWRA's customer communities. Interest charges are added to subsequent regular billings.

#### **Retail Rates**

MWRA assessments are for MWRA's provision of wholesale services. Local bodies which receive wholesale services in turn provide retail services to their users at the local level.

MWRA encourages its customers to establish retail rates which:

- 1. Recover the full cost of providing local water and/or sewerage services, including both direct costs and an allocation or estimate of indirect costs,
- 2. Charge users of local water and/or sewerage services in a manner which demonstrates to customers that increased use of services results in increased user costs.
- 3. Comply with MWRA policies directed to conservation of water; elimination of infiltration and inflow of surface water and ground water into the sewage collection, treatment, and disposal system; and removal or pretreatment of industrial wastes, and
- 4. To the extent consistent with #1 and #2, provide assistance to low income users through lifeline rates.

#### **CAPITALIZATION POLICY**

It is the policy of MWRA that capitalization of expenditures conform with generally accepted accounting principles. Under such guidelines, MWRA has adopted the provisions of the Financial Accounting Standards Board's Statement No. 71, "Accounting for the Effects of Certain Types of Regulation," which is intended to assure that utility revenues are appropriately matched with incurred costs. Capital expenditures create assets or extend their useful lives. Assets are valued at their cost and provide benefits over an extended period of time. Sources of funds for capital expenditures include grants, proceeds of MWRA borrowing, loans, and current revenue.

Asset value created by MWRA is of two kinds. One is the value of tangible assets either created or increased through MWRA capital investments. Such assets include land, buildings, plant, equipment, and the system infrastructure for water and wastewater. The cost of such fixed asset investment includes not only purchase, rehabilitation, and construction cost, but also ancillary expenses necessary to make productive use of the asset. Ancillary costs can include, but are not limited to, costs for planning studies, professional fees, transportation charges, site preparation expenditures, and legal fees and claims directly attributable to the asset.

The second kind of asset value created by MWRA investment is the value of intangible assets. While such investment does not result in tangible MWRA assets, it does create a benefit to MWRA and its users over several years. Such assets include the cost of MWRA efforts to establish base-line leak detection information for the water systems of MWRA customers. The cost of providing water consumption-limiting devices to households is another example.

Expenditures for tangible assets are included in the Capital Improvement Program and Budget if the expected cost of the individual asset or capital project is \$100,000 or more and if the expected useful life is more than one year. Expenditures for intangible assets are capitalized if the expected cost is \$100,000 or more and if the expected benefit period is three years or more. Annually recurring costs and expenditures for maintenance of assets are not capitalized, even though their cost may exceed \$100,000. Examples of such maintenance expenditures include replacement of vehicles or computers, replacement of inoperable valves or other equipment before the anticipated useful life has been reached, and pipeline or interceptor repairs that do not add significant life to the underlying asset.

#### RESERVES FUNDED FROM CURRENT REVENUE

### **Operating Reserve**

The operating reserve has been established to provide a source of funds to be used to pay operating expenses of the sewer or water systems should there not be sufficient funds otherwise available for that purpose. Bond agreements specify that the fund level shall not be less than one-sixth of MWRA's annual operating expenses.

#### **Insurance Reserve**

The insurance reserve has been established to provide funds to restore, replace, or reconstruct lost or damaged property or facilities of the water or sewer system. It provides funds reserved against risks for which MWRA does not currently maintain insurance. This self-insurance reduces the cost MWRA might otherwise incur for purchased insurance policies. MWRA periodically evaluates the level of its insurance reserve and every three years a consulting engineer or an insurance consultant recommends an appropriate insurance reserve fund requirement. During FY2000, based on the recommendation of its insurance consultant, MWRA reduced the size of the insurance reserve to \$18 million from \$20 million.

### **Renewal and Replacement Reserve**

The renewal and replacement reserve has been established to fund a required capital improvement which is not provided for by moneys otherwise available. Amounts may not be withdrawn until MWRA has specified the project to which the amount will be applied and its estimated cost and estimated completion date. It must also certify that such expenditure is reasonably required for the continued operation of the systems or for maintenance of revenues and that other provisions have not been made for funding such expenditures. Every three years, MWRA receives recommendations from a consulting engineer as to the adequacy of the renewal and replacement reserve fund requirement. During FY2000, based on the recommendation of its consulting engineer, MWRA reduced the size of the renewal and replacement reserve to \$35 million from \$50 million

#### CURRENT EXPENSE BUDGET MANAGEMENT POLICIES AND PROCEDURES

### A. Budget Allocations

### **Budget Contingency Holdbacks**

After the Board of Directors adopts the Current Expense Budget each year, the Executive Director, the Chief Operating Officer, or a division director may reserve between two percent and four percent of a division's approved budget as a budget contingency to be expended only upon approval of the Executive Director. The contingency holdback may be from any line item or cost center or combinations thereof, and any amount reserved as a budget contingency is not be included in the monthly budget allocation process described below. The Administration and Finance Committee will be notified of all budget contingency holdback amounts.

# Monthly Allocation of the Annual Current Expense Budget

Initial monthly allocations are made for purposes of adopting and filing an operating budget in accordance with MWRA's financing agreements. Before the end of the first reporting period of the fiscal year, divisions, with the assistance of Finance Division staff, allocate the approved budget, less any holdbacks, by month. The allocations set forth planned expenditures and accruals for each of the 12 months of the year to be compared to actual expenditures and accruals as reported in MWRA's monthly variance reports.

# **B. Budget Variance Monitoring and Analysis**

At the close of each monthly accounting period, the Finance Division prepares MWRA financial statements and monthly variance reports that compare planned and actual revenues and expenses.

### **Variance Analysis**

Division directors and staff review variance reports and explain variances between planned and actual expenditures as requested by the Finance Division. Variance explanations are prepared as needed, usually at the end of each quarter of the fiscal year. At least twice each year MWRA staff prepare forecasts of year-end expenditures and revenue. Barring extraordinary circumstances, division directors are responsible for controlling spending within the overall division budget. Finance Division staff review all variances and projections so that appropriate measures may be taken to ensure that overall spending is within the MWRA budget.

Variance explanations are submitted to the Finance Division in accordance with the schedule promulgated at the beginning of the fiscal year. Each month Finance Division staff prepare a summary of budget variances for inclusion in the Management Indicators Report (Yellow Notebook). Staff also prepare a monthly staff summary (except for July and August) to the Board of Directors describing major budget variances and a quarterly budget variance report for inclusion in the Board of Directors Report on Key Indicators of MWRA Performance (Orange

Notebook). At least twice a year, Finance Division staff report to the Board of Directors on yearend projections of revenue and expenses.

### C. Budget Amendments

An amendment to an MWRA Current Expense Budget is defined as follows:

A proposed change in an adopted budget or a proposed budget transmitted to the MWRA Advisory Board in accordance with Section 8(b) of Chapter 372 of the Acts of 1984 which meets any of the following criteria:

- 1. Any increase in total current expenses.
- 2. An increase of five percent or more in total division expenses.
- 3. An increase in or reallocation from any expense line item (subsidiary account) of 15 percent or more if that line item is at least 2.5 percent of total current expenses.
- 4. An addition or deletion of a specific new program or initiative, the cost of which is greater than one percent of total current expenses, unless the addition or deletion has been specifically recommended by the Advisory Board.

The Executive Director, with the concurrence of the Chairman of the Board of Directors and the Chairman of the Administration and Finance Committee of the Board of Directors, submits proposed amendments to the Advisory Board for comment and recommendation. At the end of the Advisory Board 30-day review period, the Board of Directors may take action on the amendment

#### CAPITAL BUDGET MANAGEMENT POLICIES AND PROCEDURES

#### **Capital Budget Spending Cap**

Each year in June, as part of approval of the final Capital Improvement Program, the Board of Directors establishes a ten-year capital budget spending cap and annual caps for the first three years of the budget period. In each succeeding year a new ten-year cap is calculated by removing the just completed year, adding any unspent funds from the just completed year to the next year, and adding a new tenth year in the amount of \$100 million adjusted for inflation.

### **Capital Budget Contingency**

A contingency for each fiscal year is incorporated into the Capital Improvement Program for the purpose of providing for unanticipated or unpredictable expenditures under the CIP spending cap.

## **Expenditures in Excess of the Spending Cap**

In the event of unanticipated spending requirements, the Executive Director may recommend to the Board of Directors that expenditures exceed the CIP spending cap in a single year. In such an event, a proposed plan for the current year and for reductions to budgets for subsequent years to keep spending within the ten-year cap will be presented to the Board. Any proposed change will be submitted to the MWRA Advisory Board for review and comment for a period of 30 days. At the end of the 30-day period, the Board of Directors may take action on the proposed plan.

## **Capital Budget Monitoring and Reporting**

The progress of capital projects is continually monitored for purposes of managerial control and decision-making and for financial planning and management. Each division is responsible for monitoring and reporting on the projects for which it is responsible, including explanations for both schedule and expenditure variances. Finance Division staff monitor revenue variances and prepare monthly capital expenditure variance reports.

Reports on capital budget performance and variances are included in the monthly Management Indicators Report (Yellow Notebook) and the quarterly Board of Directors Report on Key Indicators of MWRA Performance (Orange Notebook). Two capital budget performance reports are provided to the Board of Directors, one for the first six months of the year and one at year-end. The reports include summaries and analyses of planned project schedules, revenues, and expenditures compared to actual performance. A schedule variance occurs when actual project schedules are three or more months behind or ahead of planned timetables.

#### ATTACHMENT F

#### MWRA Planning Estimates FY2004 to FY2013

MWRA Planning Estimates FY2004 to FY2013											
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	
<u>EXPENSES</u>								-			
Direct Expenses	\$173,911	\$179,931	\$186,723	\$189,672	\$191,880	\$197,857	\$202,711	\$207,837	\$212,971	\$218,29	
Indirect Expenses	31,369	32,163	34,596	41,118	36,264	37,256	38,265	41,485	44,685	43,82	
Capital Financing	308,180	320,408	341,078	360,059	393,595	411,215	459,454	475,849	494,139	513,27	
Debt Service Assistance	0	0	0	0	0	0	0	0	0	. (	
Total Expenses	\$513,460	\$532,502	\$562,397	\$590,849	\$621,738	\$646,328	\$700,43 <b>0</b>	\$725,170	\$751,794	\$775,38	
REVENUE & INCOME											
Non-Rate Revenue & Income											
Interest Income/Other Charges	\$44,462	\$50,357	\$45,128	\$44,653	\$46,564	\$47,593	\$49,271	\$50,332	\$50,454	\$51,08	
Non-Recurring Revenue	<u>33,170</u>	20,337	<u>27,644</u>	<u>27,046</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	!	
Total Non-Rate Revenue	\$77,632	\$70,693	\$72,773	\$71,699	\$46,564	\$47,593	\$49,271	\$50,332	50,454	51,08	
Rate Revenue	\$435,828	\$461,809	\$489,624	\$519,150	\$575,174	\$598,735	\$651,159	\$674,839	\$701,340	\$724,30	
Rate Revenue Increase	3.9%	6.0%	6.0%	6.0%	10.8%	4.1%	8.8%	3.6%	3.9%	3.3%	
Estimated Annual Household Charge **											
Charge based on DEP data (weighted)	\$548	\$578	\$610	\$645	\$700	\$731	\$784	\$816	\$852	\$91	
Charge based on 90,000 gal. (weighted)	\$809	\$853	\$901	\$951	\$1,032	\$1,078	\$1,157	\$1,204	\$1,257	\$1,30	
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WASTEWATER											
EXPENSES											
Direct Expenses	\$127,742	\$127,564	\$129,305	\$130,078	\$131,506	\$136,039	\$139,256	\$142,309	\$145,341	\$149,43	
Indirect Expenses	9,074	8,760	8,634	8,511	8,391	7,822	7,365	7,209	7,614	8,500	
Capital Financing	227,220	232,530	246,532	259,381	274,071	284,313	317,951	318,914	341,484	357,95	
Debt Service Assistance	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	9	
Total Expenses	\$364,036	\$368,854	\$384,471	\$397,970	\$413,968	\$428,174	\$464,572	\$468,432	\$494,439	\$515,90	
REVENUE & INCOME											
Non-Rate Revenue & Income											
Interest Income/Other Charges	\$27,443	\$30,686	\$27,080	\$26,099	\$26,413	\$26,586	\$27,098	\$27,216	\$27,397	\$27,76	
Non-Recurring Revenue	24,546	16,295	24,338	22,947	0	0	0	0	0	<b>v</b> =-,	
					-	_	_	_	_	•	
Total Non-Rate Revenue	\$51,989	\$46,981	\$51,418	\$49,046	\$26,413	\$26,586	\$27,098	\$27,216	27,397	27,76	
Rate Revenue	\$312,048	\$321,873	\$333,053	\$348,924	\$387,555	\$401,588	\$437,474	\$441,216	\$467,042	\$488,13	
Rate Revenue Increase	2.6%	3.1%	3.5%	4.8%	11.1%	3.6%	8.9%	0.9%	5.9%	4.5%	
	2.070	511,70	0.070	,0	,0	0.070	0.0 70	0.0 70	0.070		
Estimated Annual Household Sewer Charge **	4										
Charge based on DEP data (weighted)	\$335	\$347	\$361	\$378	\$414	\$430	\$464	\$473	\$500	\$54	
Charge based on 90,000 gal. (weighted)	\$495	\$513	\$533	\$558	\$611	\$635	\$685	\$698	\$738	\$77	
WATER											
EXPENSES											
Direct Expenses	\$46,169	\$52,367	\$57,417	\$59,594	\$60,374	\$61,818	\$63,455	\$65,528	\$67,630	\$68,85	
Indirect Expenses	22,295	23,402	25,962	32,607	27,872	29,434	. ,	34,276	37,072	35,31	
Capital Financing	80,960	87,878	94,546	100,678	119,524	126,902	,	156,935	152,654	155,31	
Debt Service Assistance	00,500	07,070	04,040	100,070	113,024	120,302	141,000	100,000	102,004	100,01	
Total Expenses	\$149,424	\$163,648	\$177,926	\$192,879	\$207,770	\$218,154	\$235,858	\$256,738	\$257,356	\$259,48	
REVENUE & INCOME											
Non-Rate Revenue & Income											
Interest Income/Other Charges	\$17,019	\$19,671	\$18,048	\$18,554	\$20,151	\$21,008	\$22,173	\$23,116	\$23,057	\$23,31	
Non-Recurring Revenue	8,624	4,041	3,306	4,099	0	. ,0	,0	0	0	,	
Total Non-Rate Revenue					\$20.454	\$24.000	¢22 472	£22 446	\$22.057	¢22.24	
	\$25,643	\$23,712	\$21,355	\$22,653	\$20,151	\$21,008		\$23,116	\$23,057	\$23,31	
Rate Revenue	\$123,781	\$139,936	\$156,571	\$170,226	\$187,619	\$197,147	\$213,685	\$233,622	\$234,299	\$236,17	
Rate Revenue Increase	7.3%	13.1%	11.9%	8.7%	10.2%	5.1%	8.4%	9.3%	0.3%	0.8%	
Estimated Annual Household Water Charge **											
Charge based on DEP data (weighted)	\$213	\$231	\$249	\$266	\$286	\$300	\$320	\$343	\$352	\$37	
Charge based on 90,000 gal. (weighted)	\$314	\$341	\$368	\$393	\$422	\$443	\$472	\$506	\$519	\$53	

<sup>\*\*</sup> Annual household charges are estimated for communities that receive full water and wastewater services from MWRA weighted by the number of households in each of these core communities. For reference the unweighted 90,000 FY03 estimated household charge was \$827 for the "core" communities. The annual household charge based on DEP data for FY03 reflects actual residential consumption fo calendar year 2001. Estimated household charges based on DEP data for FY04 to FY14 are based on average residential consumption of 61,000 gallons per year. The ratio of MWRA to local charge is assumed to be 38% local, 62% MWRA in FY03.

### APPENDIX G

#### GLOSSARY OF FINANCIAL AND OPERATING TERMS

**8M permit:** Permission granted by MWRA to persons who wish to construct property improvements on land either adjoining or overlapping MWRA property interests. Permission may be conditioned on various operational and/or engineering concerns.

**Accrued Costs:** Adjustments to paid expenditures to account for materials or services received but for which payment has not been made.

**Activated Sludge:** The sludge that results when primary effluent is mixed with bacteria-laden sludge and then agitated and aerated to promote biological treatment.

**Advanced Waste Treatment:** Wastewater treatment beyond the secondary or biological stage that includes the removal of nutrients such as phosphorus and nitrogen and the removal of a higher percentage of suspended solids and organic matter than primary treatment.

**Advisory Board:** The agency that represents the interests of MWRA's 61 user communities to the Board of Directors in an advisory capacity in accordance with the provisions of MWRA's Enabling Act. The Advisory Board elects three members of the Board of Directors, reviews and comments on MWRA's CIP and CEB, and approves the addition of new communities to the wastewater and water systems.

**Aerobic:** In the presence of oxygen.

**Anaerobic:** Life or processes such as bacteria that digest sludge that require, or are not destroyed by, the absence of oxygen.

**AOC:** Assimilable Organic Carbon - One measure of the "food" available to bacteria within a water system. More complex carbon compounds can become assimilable when oxidized by strong disinfectants.

**Ash:** The inert material remaining after the combustion of wastewater sludge. Ash is either wet or dry depending on combustion system design.

**Bacteria:** One-celled microscopic organisms commonly found in the environment. Bacteria can be harmful, such as pathogens or helpful and perform a variety of biological treatment processes.

**BDOC:** Biologically Degradable Organic Carbon - Another, more precise, measure of the "food" available to bacteria within a water system.

**BGD:** Billion gallons per day.

**Biofilm:** Growth of various bacteria within a water distribution system on the pipe walls. Biofilm growth can contribute to iron corrosion, colored water, poor taste, excessive chlorine demand, and complications with coliform testing.

**Blow-off valves:** Valves operated during pipeline repair to de-water (drain) a portion of a pipeline.

**BOD:** Biochemical Oxygen Demand - An indicator of the amount of biodegradable contaminants in wastewater.

**Board of Directors:** The 11-member governing board of MWRA.

**Bond Resolution:** A document adopted by the Board of Directors that governs MWRA's issuance of revenue bonds and sets forth its obligations to bondholders.

**Boston Harbor Project:** An extensive plan of activities which MWRA developed and implemented to construct new wastewater treatment facilities in response to a federal court order to comply with the provisions of the U.S. Clean Water Act.

**Business Systems Plan (BSP):** The strategic planning framework for MWRA's management information systems. The BSP is updated annually to reflect ongoing business requirements, new opportunities identified by ongoing MWRA strategic planning efforts, technology changes, and user requests.

**BWSC:** Boston Water and Sewer Commission - The agency responsible for providing water and sewer services to the City of Boston, MWRA's largest customer.

**CAC:** Citizens' Advisory Committee.

**CADD:** Computer aided drafting and design.

**Capital Improvement Program (CIP):** A plan which identifies and estimates the nature, schedule, cost, and financing of long-term assets that MWRA intends to build or acquire during a specific period.

Capital Investment: Development of a facility or other asset that adds to the long-term value of an organization.

**CDF:** Cosgrove Disinfection Facility

Cathodic Protection: A form of corrosion protection that is particularly effective against galvanic corrosion. Galvanic corrosion occurs when pipe metal is in the presence of other metals while immersed in water. The interaction of these elements causes an electric current to flow away from the pipe, taking electrons with it and pitting the pipe as a result. Cathodic protection reverses the current, thereby stopping the corrosion.

**Centrifuge:** A machine that uses centrifugal force to separate substances of different densities and remove moisture. MWRA uses centrifuges at the Deer Island Wastewater Treatment Plant to de-water sludge.

**CFM:** Cubic Feet per Minute - A measure of the quantity of a liquid flowing through a pipe.

**Chloramination:** The process of adding chloramine to drinking water. Chloramine, a form of chlorine and ammonia, is used as a residual disinfectant because it lasts longer in the water distribution system than primary disinfectants.

**Chloramine:** A long lasting residual disinfectant created by combining measured amounts of chlorine and ammonia. Chloramine forms fewer disinfection by-products than chlorine.

**Chlorination:** The process of adding chlorine to drinking water to inactivate pathogens.

**Chlorine:** A relatively strong primary disinfectant, effective against bacteria, *giardia*, and viruses, but not *cryptosporidium*. Concerns exist about the health effects of its by-products, some of which are or will be regulated.

**Clarifiers:** Settling tanks or basins in which wastewater is held for a period of time, during which heavier solids settle to the bottom and lighter materials float to the surface.

**Clean Water Act:** A law passed by Congress in 1972, and subsequently amended, which sets national standards for pollution reduction, permits discharges from wastewater treatment plants, and promotes achievement of the national goal that all surface waters be "fishable and swimmable."

Cleaning and Lining: Cleaning and cement lining of unlined cast iron water mains to improve hydraulic capacity and extend useful life.

**Coliform bacteria:** A group of lactose fermenting bacteria, which while not of direct health concern, are used as a first line indicator of potential problems. See fecal coliform and *E.coli*.

**Comminutor** - A machine or process that pulverizes and reduces solids to minute particles.

**Commonwealth Debt Service Assistance (DSA):** Funds appropriated by the Commonwealth to offset MWRA capital financing expenses.

**Commonwealth Reimbursements:** Income received from the Commonwealth of Massachusetts as reimbursement for certain chemical and operational costs in accordance with prevailing legislation.

**Community Obligation and Revenue Enhancement (CORE) Fund:** A fund established by MWRA's bond resolution that is used to provide insurance against delays by communities in paying charges due to MWRA.

**Composting:** The process of converting wastewater treatment residuals to a soil-like humus material often used in the horticultural industry. The process involves the aerobic breakdown of the residuals and the addition of sawdust or wood chips.

**Corrosion Control:** Adjustments to the chemistry of treated water to reduce its ability to dissolve lead, copper, or other metals. Corrosion control can include adjustments to pH and alkalinity, as well as the addition of corrosion inhibitors such as phosphates.

**Coverage Requirement:** Requirement of MWRA's bond resolution which provides that pledged revenue available annually to pay debt service must exceed the annual debt service requirement by a certain percentage.

**Cross-Connection:** A point at which potable water piping is connected to a non-potable water source creating an opportunity for the introduction of pollutants into the potable water.

**Cryogenic oxygen plant:** MWRA operates a cryogenic oxygen-based facility as part of its secondary wastewater treatment program at Deer Island.

*Cryptosporidium*: A protozoan parasite that can cause severe gastrointestinal disease in healthy individuals, and may be fatal to people with compromised immune systems. *Cryptosporidia* exist in the environment as hard walled oocysts that are very resistant to chlorination, but can be inactivated by disinfection with ozone or ultraviolet light.

**CSO:** Combined Sewer Overflow – An overflow point in a combined sewer system that collects both sewage and storm water runoff for wastewater treatment. During rainstorms, systems can become overloaded, with the excess discharged directly into surface waters from CSO pipes. In the metropolitan Boston area there are approximately 63 CSOs that currently discharge into rivers or Boston Harbor.

**CSO Facilities:** MWRA has five facilities that intercept the flow from CSO pipes and provide limited wastewater treatment prior to discharge. The CSO facilities have some capacity to store flow and pump it to the Deer Island plant after rainstorms end.

**CT:** Concentration x Contact Time - A measure of disinfection effectiveness established under the Surface Water Treatment Rule. CT is the product of the concentration of disinfectant [C] and the time it has been in contact with the water [T]. Required CT varies by type of disinfectant, organism, temperature, and pH.

**Current Expense Budget:** A financial plan that estimates the revenues and expenses associated with MWRA's operations for a fiscal year.

**C-Value:** The carrying capacity of a water main for a specified length and pressure drop that is determined by its diameter and resistance to flow. The friction coefficient "C" of the main is often used as a measure of flow resistance. C-values for new pipe are about 120 for water mains that are 6- to 16-inches in diameter, and 130 and 140 for larger diameter mains.

**DAF:** Dissolved Air Flotation - A process of adding super saturated air into water to cause coagulated solids to rise to the top to be skimmed off. DAF replaces conventional gravity sedimentation (clarification) and is particularly cost-effective for low turbidity waters subject to periodic algae blooms.

**DBP:** Disinfection By-products - Complex compounds formed by the use of oxidizing agents such as chlorine or ozone in waters containing organic matter.

**D/DBP Stage 1:** Disinfectants/Disinfection By-products, Stage 1 Rule – Promulgated 11/1998, and effective 1/2002, this rule set DBP limits at 80 parts per billion for Trihalomethanes and 60 parts per billion for Haloacetic Acids, averaging all samples over four quarters.

**D/DBP Stage 2:** Disinfectants/Disinfection By-products Stage 2 Rule-. The federal government expects to issue this rule in draft form late in 2002 and promulgate the final rule in late 2003. The rule will further regulate the amount of DBPs allowed in water. The 80/60 values set in Stage 1 will now apply to each individual sample location in a "Locational Running Annual Average".

**Debt Service:** In a given fiscal year, the amount of money necessary to pay interest and principal on outstanding notes and revenue bonds.

**DEP:** Department of Environmental Protection - The Massachusetts agency that regulates water pollution control, water supplies, and waterways and dispenses federal and state grant funds to support these activities.

**Department:** A sub-unit of an MWRA division.

**De-watering:** The process of removing water from wastewater treatment residuals. De-watered sludge has the appearance of mud or wet soil material.

**Diffusers:** A system of shafts, rising from the end of MWRA's effluent outfall tunnel to the seabed, that disperses treated wastewater over a large area.

**Digesters:** Tanks for the storage and anaerobic or aerobic decomposition of organic matter present in sludge.

**Direct Program Expenses:** Costs directly associated with providing services or performing activities.

**Disinfection, Primary:** The inactivation (killing) of pathogenic organisms in a water system by the use of chemical or other disinfection agents.

**Disinfection, Residual:** The presence of a measurable residual of disinfectant within a water distribution system to help control bacterial re-growth and guard against contamination.

**Dissolved Oxygen (DO):** A measure of the amount of oxygen in a given amount of water. Adequate levels of DO are needed to support aquatic life. Low dissolved oxygen concentrations can result from inadequate wastewater treatment.

**Division:** A major organizational unit within MWRA, encompassing the activities and resources for providing a major service or function.

**Division of Watershed Management (DWM):** A division of the Metropolitan District Commission (MDC) responsible for watershed management activity. MWRA reimburses the Commonwealth for the cost of DWM's operations.

*E.coli*: A normal inhabitant of the digestive tract of mammals. The presence of *E.coli* indicates probable contamination by fecal matter.

**Effluent:** Treated wastewater discharged from a treatment plant.

**EIR:** Environmental Impact Report – A document prepared in adherence with the Massachusetts Environmental Policy Act (MEPA) to review the environmental impact of projects and ensure opportunities for public review and comment.

**EIS:** Environmental Impact Statement – A document prepared in adherence with the National Environmental Policy Act to review the environmental impact of projects and ensure opportunities for public review and comment.

**Enabling Act:** Legislation (Chapter 372 of the Acts of 1984) that established MWRA and defined its purpose and authority as of January 1, 1985.

**ENF:** Environmental Notification Form - The first step in the MEPA process.

**EOC:** Emergency Operations Center

**EOEA:** Executive Office of Environmental Affairs - The Massachusetts cabinet office that oversees state environment agencies.

**EPA:** Environmental Protection Agency - The federal government agency responsible for environmental enforcement and investigation.

**ESWTR:** Enhanced Surface Water Treatment Rule - A federal rule is being promulgated in three stages:

- 1) Interim Enhanced Surface Water Treatment Rule (IESWTR): The IESWTR was promulgated in 1998 and tightened the requirements for the operation of water filtration plants in large systems to take a first step toward controlling *cryptosporidium* in source waters. IESWTR also added *cryptosporidium* to the list of issues considered within watershed protection plans for unfiltered systems.
- 2) LT1ESWTR primarily extends the IESWTR to smaller systems
- 3) LT2ESWTR: The federal government expects to issue LT2ESWTR as a draft in late 2002, and to promulgate the final rule in late 2003. LT2ESWTR will further tighten the standards for the operation of filtration plants and add requirements for 99% inactivation of *cryptosporidium* and the use of two primary disinfectants for unfiltered systems. The concept of proportional treatment, with less treatment required for cleaner sources, will be implemented as part of the rule.

**Eutrophication:** Nutrient enrichment of a lake or other water body typically characterized by increased growth of planktonic algae and rooted plants. Eutrophication can be accelerated by wastewater discharges and polluted runoff.

**Expenditures:** Payments for goods and services received.

**Expenses:** Costs associated with the operating activities of a period, including expenditures and accrued costs.

**Facility Information System (FIS):** The management information system at the Deer Island Treatment Plant.

**Fecal coliform bacteria:** A group of bacteria used as a primary indicator organism for potential contamination from human or animal waste. Also called thermo-tolerant bacteria. Specific organisms in the group may or may not be of health concern (see *E.coli*).

**Filtration:** A water treatment process involving the removal of suspended particulate matter by passing the water through a porous medium such as sand or carbon.

**Fiscal Year:** The 12-month financial period used by MWRA that begins July 1 and ends June 30 of the following calendar year. MWRA's fiscal year is numbered according to the calendar year in which it ends.

Flash coat: A light coat of shotcrete used to cover minor blemishes on a concrete surface.

**Force Main:** A pressure pipe joining the pump discharge at a water or wastewater pumping station with a point of gravity flow.

*Giardia:* A protozoan parasite that can cause severe gastrointestinal disease, although there is medical treatment available. *Giardia* exist in the environment as hard-walled cysts, and are moderately resistant to chlorine disinfection.

**Goal:** A statement in general terms of a desired condition, state of affairs, or situation. Goals, which are long-term in nature and not usually directly measurable, provide general direction for the activities of operating units.

**Graphitization:** A corrosion mechanism that alters the molecular structure of the carbon/iron matrix of cast iron pipe. During the process, iron atoms are forced away from the metal leaving behind an unstable carbon matrix. The result is a weakened pipe, easily susceptible to ruptures. High frequency in the number of breaks causes leakage to be a major problem of graphitized pipe.

**Grit:** Sand-like materials that quickly settle out of wastewater.

**Groundwater:** A body of water beneath the surface of the ground. Groundwater is made up primarily of water that has seeped down from the surface.

**HAA:** Haloacetic Acids - A class of disinfection by-products related to chlorine disinfection. HAAs are regulated under D/DBP Stage 1 Rule at 60 ppb.

**Harbor Electric Energy Company (HEEC):** A subsidiary of the Boston Edison Company which installed a cross harbor power cable and built a sub-station to provide power for construction and operation of the new Deer Island Treatment Plant.

**Head House:** A structure containing the control gates to a conduit such as a sewer pipeline.

**Headworks:** A preliminary treatment structure or device, usually including a screening and de-gritting operation, that removes large or heavy materials such as logs and sand from wastewater prior to primary treatment.

**Heavy Metals:** Metals such as lead, silver, gold, mercury, bismuth, and copper that can be precipitated by hydrogen sulfide in an acid solution.

**ICC:** Interim Corrosion Control Facility - A facility located in Marlborough near Walnut Hill, where MWRA adjusts pH and alkalinity to reduce the leaching of lead from home plumbing.

**Incentives and Other Charges:** A fee system designed to help recover permitting, inspecting, and monitoring costs incurred by MWRA's TRAC Program and provide incentives to permitted users to reduce discharges.

**Indirect Expenses:** Costs not directly associated with providing services or performing activities.

**Infiltration/Inflow (I/I):** The problem of clean water flows entering sewers resulting in diminished pipe capacity for sanitary flows and in costly pumping and treatment of unnecessarily large wastewater volumes. Infiltration is groundwater that leaks into the sewerage system through pipe joints and defects. Inflow, primarily a wet-weather phenomenon, refers to water that enters sewers from improperly connected catch basins, sump pumps, land and basement drains, and defective manholes. Inflow also enters through improperly closed or defective tidegates during high tides.

**Influent:** The flow of water that enters the wastewater treatment process.

**Insurance Reserve:** A fund established to adequately reserve against risks for which MWRA does not currently maintain insurance.

**Interceptors:** The large pipes that convey wastewater from collection systems to treatment plants.

**Investment Income:** Income derived by investing certain operating and reserve fund balances in interest-yielding securities in accordance with the provisions of MWRA's bond resolution.

**Labor Costs:** Direct costs of employing permanent and temporary personnel, including wages, salaries, overtime pay, fringe benefits, and workers' compensation.

**Land Application:** The use of wastewater treatment residuals on land for agricultural benefits.

**Landfilling:** The disposal of residuals by burial. Modern landfills have double liners, leachate collection systems, and other design features to protect against groundwater contamination.

**LCR:** Lead and Copper Rule – A federal rule that set an action level for lead and copper at "worst case" consumer taps. Optimized corrosion control, notification, education, and lead service replacements are all components of compliance plans.

**Leachate:** Water that drains from a landfill after having been in contact with, and potentially contaminated by, buried residuals. Modern landfills are designed to collect leachate for subsequent treatment.

**Limnology:** The scientific study of physical, chemical, meteorological, and biological conditions in fresh waters.

**LIMS:** Laboratory Information and Management System – An automated database system used to transfer information between MWRA's Central Laboratory and to its client groups and to process information obtained by the Central Laboratory to monitor substances that enter and leave the MWRA wastewater system. Use of LIMS removes the potential for human error in the sampling process by bar coding samples, eliminating the need to transcribe sample data, producing pre-printed project-specific sample check-off forms for field crews, and automating testing through pre-set test codes and project specific parameters.

Mapping Protocols: Sets of specifications defining the content and format of data to be collected.

**MCL:** Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available control technology.

**MCLG:** Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**MDC:** Metropolitan District Commission - Prior to 1985, the agency responsible for water and sewer services in metropolitan Boston, a responsibility MWRA assumed in July, 1985. MDC continues to oversee and manage parks and recreational areas, roadways in the metropolitan area, and the watershed system including the Quabbin, Wachusett, and Sudbury Reservoirs.

Massachusetts Environmental Policy Act (MEPA) Unit: A unit of the Commonwealth's Executive Office of Environmental Affairs responsible for implementation of the state environmental review process.

**Methane:** A colorless, nonpoisonous, flammable gas produced as a by-product of anaerobic sludge processing. At Deer Island, MWRA uses methane as fuel to provide heat and hot water and to generate electricity.

**MGD:** Million gallons per day.

MIS: Management Information Systems

**Mission:** A description of the fundamental purposes and major activities of an operating unit or program.

**Mitigation:** Financial remuneration or non-financial considerations that MWRA provides to communities to alleviate the negative effects of major construction projects.

**Molybdenum (Mo):** A metallic element that resembles chromium and tungsten in many properties, and is used in strengthening and hardening steel. Mo is a trace element in plant and animal metabolism.

**NEFCo:** New England Fertilizer Company - The contractor responsible for the operation of barging and processing sludge into fertilizer pellets at MWRA's residuals processing plant located in Quincy. NEFCo is also responsible for marketing and distributing the pellets and disposing of any product that is not marketable.

**National Pollutant Discharge Elimination System (NPDES) Permit:** A permit issued by EPA in conjunction with DEP that governs wastewater discharges into surface waters.

**Nitrification:** An aerobic process in which bacteria changes the ammonia and organic nitrogen in wastewater into oxidized nitrogen (usually nitrate). Second-stage BOD is sometimes referred to as the nitrification stage (first-stage BOD is called the carbonaceous stage). Also, a similar process in the water distribution system, where ammonia from chloramine can be used by nitrifying bacteria, resulting in a reduced chlorine residual, and the potential for additional bacteria growth.

**OCC:** Metropolitan Operations Control Center, located at MWRA's Chelsea Facility.

**Operating Reserve:** A fund established to adequately reserve for operating contingencies, required by MWRA's bond resolution to be not less than one-sixth of the its annual operating expenses.

**Organic Matter:** Material containing carbon, the cornerstone of plant and animal life. It originates from domestic and industrial sources.

**Other User Charges:** Revenue received per agreements MWRA has for provision of water, sewer, and other services to entities other than communities which are charged assessments.

**Outfall:** The place where effluent is discharged into receiving waters.

**Ozonation:** The application of ozone to water, wastewater, or air, generally for the purposes of disinfection or odor control. MWRA is constructing a new water treatment plant at Walnut Hill that will use ozone to inactivate pathogens, including *cryptosporidium*, with lower levels of DBPs.

**Ozone:** A strong disinfectant made from oxygen and electrical energy. Ozone is effective against *cryptosporidium*.

**Pathogens:** Harmful organisms, often called germs that can cause disease. Waterborne pathogens (or the diseases they cause) include *giardia, cryptosporidium*, cholera, typhoid, *E.coli*, Hepatitis A, *legionella*, and MAC.

**Payments in Lieu of Taxes (PILOT):** Amounts which MWRA pays each fiscal year to cities and town for land owned by the Commonwealth in the Quabbin, Ware River, Wachusett, and Sudbury watersheds. Consistent with the provisions of MWRA's Enabling Act, these payments are based on the past commitments of the Commonwealth of Massachusetts.

**Penalty Revenue:** Revenue derived from penalties assessed by MWRA to violators of its sewer use regulations.

**Performance Measure:** An indicator of the work and/or service provided, defined by output, work or service quality, efficiency, effectiveness, or productivity.

**Performance Objective:** A statement of proposed accomplishments or attainments that is short-term in nature and measurable.

**Plume:** The rising discharge of treated wastewater effluent from a treatment plant outfall pipe.

**Preliminary Treatment:** The process of removing large solid objects, sticks, gravel, and grit from wastewater.

**Pretreatment:** The reduction or elimination of pollutant properties in wastewater prior to discharge into a sewer system.

**Primacy:** Primary enforcement authority for federal Safe Drinking Water Act regulations delegated to a state by EPA.

**Primary Treatment:** A wastewater treatment process that takes place in a rectangular or circular tank and allows substances in wastewater that readily settle or float to be separated from the water being treated. Primary treatment results in 50-60% removal of suspended solids and 30-34% removal of BOD.

**Program:** An organized group of activities and the resources to carry them out, aimed at achieving one or more related objectives.

**Rate Revenue:** Revenue received from annual assessments of communities within MWRA's service area for water and sewer services.

**Rate Stabilization Reserve:** A fund established by the Board of Directors that is used to reduce rate revenue requirements. MWRA finances this reserve with unexpended or surplus funds available from the Current Expense Budget at the end of each fiscal year.

**Relief Sewer:** A sewer built to carry flows in excess of the capacity of an existing sewer.

**Remote Headworks:** The initial structures and devices of a treatment plant set apart by some distance from the plant site.

**Renewal and Replacement Reserve:** A fund established to adequately reserve for the cost of capital improvements not provided for by funds available through the Capital Improvement Program or the Current Expense Budget.

**Residuals:** The by-products of the wastewater treatment process, including scum (floatables), grit and screenings, primary sludge, and secondary sludge.

**Revenue Bonds:** Bonds payable from a specific source of revenue and which do not pledge the full faith and credit of the issuer.

**Safe Yield Model:** The equation used to determine the maximum dependable draft that can be made continuously on a source of supply during a period of years during which the probable driest period or period of greatest deficiency in water supply is likely to occur.

**SAMS:** Sewerage Analysis and Management System – A database which contains specifications of the location, size, and condition of MWRA wastewater interceptors and appurtenances and which produces maps for use by MWRA and outside parties.

**Sanitary Sewers:** In a separate system, pipes that carry only domestic wastewater.

**SCADA:** Supervisory Control and Data Acquisition - Equipment for monitoring and controlling water or wastewater facilities remotely.

**Screenings:** Large items such as wood and rags that are collected from wastewater in coarse screens prior to primary treatment.

**Scum:** Floatable materials such as grease, oil, and plastics that are skimmed from the surface of wastewater as it flows through large settling tanks.

**SDWA:** Safe Drinking Water Act - A federal law enacted in 1986 and amended in 1996 that requires EPA to establish national primary drinking water regulations for water suppliers which consist of MCLs or treatment techniques.

**Secondary Treatment:** Usually following primary treatment, secondary treatment employs microorganisms to reduce the level of BOD and suspended solids in wastewater.

**Sedimentation Tanks:** Settling tanks where solids are removed from sewage. Wastewater is pumped to the tanks where the solids settle to the bottom or float on the top as scum. The scum is skimmed off the top, and solids on the bottom are pumped out for further treatment and/or final disposal.

**Seeding:** The initial filling of sludge into digesters.

**Sensitive user:** A member of a group within the general population likely to be at greater risk than the general population of adverse health effects due to exposure to contaminants in drinking water. Sensitive users include infants, children, pregnant women, the elderly, and individuals with histories of serious illness.

**Septic Tanks:** Tanks used for domestic wastes when a sewer line is not available to carry them to a treatment plant. Periodically, the septage is pumped out of the tanks, usually by commercial firms, and released into a wastewater treatment system.

**Sewer Jet Truck:** Vehicle used to clean and/or remove blockages from sewer lines by pushing fluids in the sewer.

**Shotcrete:** Mortar or concrete conveyed through a hose and projected at high velocity onto a surface; also known as air-blown mortar, pneumatically applied sprayed mortar, or gunned concrete.

**Siphon:** A closed conduit, a portion of which lies above the hydraulic grade line, resulting in a pressure less than atmospheric and requiring a vacuum within the conduit to start flow. A siphon utilizes atmospheric pressure to effect or increase the flow of water through the conduit.

**Slip Lining:** Insertion by pushing or pulling of lines fabricated of plastic, concrete cylinder pipe, reinforced concrete, or steel through existing conduits from access pits.

**Sludge:** Material removed by sedimentation during primary and secondary treatment. Sludge includes both settled particulate matter and microorganisms and is the single largest component of wastewater residuals. At the time sludge is removed during the treatment process, it contains only 0.5% to 5% solid content by weight. It has the appearance of muddy water.

**Sodium Hypochlorite (NaOCl):** A liquid form of chlorine that MWRA uses as the primary chemical in the disinfection and odor processes at the Deer Island Treatment Plant, and as the disinfectant at the Cosgrove and Ware water disinfection facilities. MWRA will also use sodium hypochlorite at the Walnut Hill water treatment plant.

**Storm Sewers:** Separate systems of pipes that carry only water runoffs from roofs, streets, and parking lots during storms.

**Surcharging:** Loads on a system beyond those normally anticipated; also, the height of wastewater in a sewer manhole above the crown of the sewer when the sewer is flowing completely full.

**Suspended Solids:** The particulate matter contained in wastewater.

**SWTR:** Surface Water Treatment Rule – A federal rule promulgated in 1989 that affects all utilities using surface waters or waters under the influence of surface waters. SWTR requires filtration unless certain criteria on source water quality, watershed control, and disinfection effectiveness can be met (see also ESWTR).

**Telemetry:** Remote measuring or monitoring devices connected to a central monitoring station via telephone lines.

**TCR:** Total Coliform Rule – A federal rule that requires monitoring of water distribution systems for coliform bacteria and chlorine residual. No more than 5% of the coliform samples in a month can be positive.

**TOC:** Total Organic Carbon - A measure of the amount of organic material in water. Often used as a surrogate for disinfectant demand or DBP precursors.

**Transition:** A short section of conduit used as a conversion section to unite two conduits having different hydraulic elements.

**TTHM:** Total Trihalomethanes - A class of disinfection by-products, related to primarily chlorine disinfection (see D/DBP Rule).

**TRAC:** Toxic Reduction and Control – The department responsible for MWRA's industrial pretreatment program.

**United States Geological Survey (USGS):** The federal agency that collects Geographic Information System (GIS) data for developing mapping protocols.

**Vactor Jet Truck:** A vehicle used to clean and/or remove blockages from sewer lines by pushing and/or pulling fluids in the sewer.

**VMM:** Vehicle Management and Maintenance – The program responsible for management and maintenance of MWRA's vehicles and heavy equipment.

Wastewater: The water carried by sewers serving residences and businesses that enters wastewater facilities for treatment.

Wastewater Treatment Plant (WTP): A series of tanks, screens, filters, and other equipment and processes for removing pollutants from wastewater.

**Watershed Reimbursement:** An amount that MWRA pays to the Metropolitan District Commission (MDC) each fiscal year for maintaining and managing the primary sources of MWRA's water supply (watersheds) in accordance with the laws of the Commonwealth of Massachusetts. The amount of the reimbursement is determined by prevailing legislation.

**Wholesale Water and Sewer Services:** Potable water and wastewater collection, transport, delivery, and treatment services that MWRA provides to communities. Communities provide the same services directly to retail customers or end users.

**WOCC:** Western Operations Control Center.