



*Summary of:*  
**MWRA Board of Directors' Meeting**  
**March 25, 1998**

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A meeting of the Board of Directors of the Massachusetts Water Resources Authority was held on March 25, 1998 at the Authority Headquarters in Charlestown. **Present:** Chair Trudy Coxe, Gubernatorial Representative; Norman Jacques, Andrew Pappastergion, Advisory Board Representatives; Joseph MacRitchie, City of Quincy Representative; Vincent Mannering, Robert Spinney, City of Boston Representatives. **Absent:** Lucile Hicks, Don Mitchell, Gubernatorial Representatives; Marie Turner, Town of Winthrop Representative; John Carroll, Advisory Board Representative.

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## **AGENDA**

### ***Report of the Chair***

The Board voted to ratify the following appointments of Board members to standing Committees:

Administration and Finance: V. Mannering (Chair), N. Jacques (Vice Chair), J. Carroll, L. Hicks, J. MacRitchie, D. Mitchell, A. Pappastergion, R. Spinney

Wastewater Policy and Oversight: J. MacRitchie (Chair), M. Turner (Vice Chair), J. Carroll, L. Hicks, N. Jacques, A. Pappastergion, R. Spinney

Water Policy and Oversight: L. Hicks (Chair), A. Pappasterion (Vice Chair), J. Carroll, N. Jacques, J.

MacRitchie, R. Spinney

Personnel: D. Mitchell (Chair), R. Spinney (Vice Chair), L. Hicks, N. Jacques, J. MacRitchie, V. Mannering, A. Pappastergion

### **Report of the Executive Director**

Mr. MacDonald told the Board that he received a letter from Mayor Menino announcing the appointment of Andrea d'Amato as the new Boston appointee to the MWRA Board of Directors.

The Executive Director also informed the Board that the U.S. Environmental Protection Agency will be holding hearings on the NPDES permit for the outfall pipe in April. He noted that Joe Favalaro, Executive Director of the MWRA Advisory Board, has raised issues concerning flow limits and water conservation requirements contained in the permit.

In addition, Mr. MacDonald announced that Charlie Button, Deputy Director of the Program Manager Division, will be leaving after ten years of service to the MWRA. He was recognized for his significant contribution to the Boston Harbor Project and outstanding service to the Authority.

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## **APPROVALS**

### **FY98 Current Expense Budget Reallocations Requiring Approval by the Board of Directors**

The Board approved Current Expense Budget reallocations in order to adjust the Authority's budget to account for changes in plans and expenses which have taken place during the fiscal year.

This approval includes thirty-two reallocations totaling \$2,814,900. The reallocations require approval by the Board because they either effect total changes to object codes exceeding \$100,000, shift funds to the Overtime object code, or transfer funds from the Training and Meetings object code. These reallocations have been reviewed by the Advisory Board.

### **Combined Insurance Program for FY 1999-2001**

The Board voted to authorize the procurement of a catastrophic insurance program for FY 1999 through 2001 which is expected to increase MWRA deductibles; combine property, builders risk, workers compensation and liability coverages under the same insurance carrier; and establish a combined limit for losses.

Staff explained that the MWRA's property/liability insurance policies and its builders' risk policy for the Boston Harbor Project will expire June 30, 1998. Staff have engaged an insurance consultant to conduct a major review of MWRA insurance options taking into consideration both changes in MWRA's financial position since the last major review of insurance options in 1989 and the fact that the Boston Harbor Project is now over 90 percent complete. The consultant has recommended that MWRA consider a combined insurance program in which property and liability losses are aggregated toward a relatively large common deductible per occurrence and an annual aggregate for all losses. Given the current insurance market, the consultant recommends an occurrence deductible of \$2.5 to \$5 million, an annual aggregate exposure of \$5 to \$7.5 million, and a combined annual coverage limit of \$125 to \$150 million.

Board members had several questions on the proposed changes and raised concerns about increasing the deductible. Mr. Jacques asked staff to consider the Board's concerns when reviewing insurance options.

### **Assent to Removal of Land from the Provisions of Massachusetts General Laws, Chapter 185**

The Board authorized the Executive Director to execute an Assent to Removal of Land from the Provisions of

Massachusetts General Laws, Chapter 185. The real property which is the subject of this assent is owned by the Willows at Winchester LLC. MWRA is listed on the Certificate of Title as having granted a permit to the developer regulating construction work over a sewer easement located on a portion of the property. The easement is owned by the Commonwealth and maintained by MWRA pursuant to Section 4 of MWRA's enabling legislation. Assent to removal of the land from Land Court registration requirements constitutes an accommodation to the property owner and does not affect the Authority's rights or interests in either the easement in question or the permit issued.

### **Extensions for Six Contract Employees in the Sewerage Division**

The Board voted to approve amendments to the following employment contracts:

Edward Morrissey, Operator, Nut Island, three month extension from 3/31/98 to 6/30/98, hourly rate of \$20.50, compensation not to exceed \$10,660;

James Tgibedes, Operator, Nut Island, three month extension from 3/31/98 to 6/30/98, hourly rate of \$20.50, compensation not to exceed \$10,660;

Peter Abelli, HVAC Mech., Transport, one year extension from 4/20/98 to 4/16/99, hourly rate of \$21.50, compensation not to exceed \$44,720;

Mark Cataldo, HVAC Mech., Transport, one year extension from 4/20/98 to 4/16/99, hourly rate of \$21.50, compensation not to exceed \$44,720;

Catherine McDonald, ENQUAD, Central Lab, one year extension from 4/15/98 to 4/19/99, hourly rate of \$13.00, compensation not to exceed \$27,400;

Michael McEachern, GIS Specialist, SFD, one year extension from 4/8/98 to 4/7/99, hourly rate increased from \$15.75 to \$16.22, compensation not to exceed \$28,350.

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## **CONTRACT AWARDS**

### **Water Transportation System - Roll-On/Roll-Off 1998-2000, Boston Towing & Transportation Company, L.P.**

The Board voted to approve the award of Contract 6354, Water Transportation System - Roll-On/Roll-Off 1998-2000, to the lowest responsive bidder, Boston Towing & Transportation Company, L.P., and to authorize the Executive Director, on behalf of the Authority, to execute said contract at the bid price of \$5,198,505 for a period of 792 calendar days from May 1, 1998 to June 30, 2000.

The Water Transportation System - Roll-On/Roll-Off provides Ro/Ro barge service for the transportation of truck trailers and construction equipment between the staging area at the Fore River Shipyard and Deer Island. This contract provides for one round-trip between Fore River and Deer Island each workday for the length of the contract duration. It also provides for a second round-trip for an estimated 240 work days during the contract period and a limited number of additional round-trips per work day, as required to meet demand.

### **Water Transportation System - Personnel Transport 1998-2000, Harbor Cruises, LLC**

The Board approved the award of Contract 6355, Water Transportation System - Personnel Transport 1998- 2000, to the lowest responsive bidder, Harbor Cruises, LLC and to authorize the Executive Director, on behalf of the Authority, to execute said contract at the bid price of \$4,730,674 for a period of 792 calendar days from May 1, 1998 to June 30, 2000.

The Water Transportation System - Personnel contract provides ferry service between Deer Island and three off-island

terminals at Squantum Point in Quincy, Rows Wharf in downtown Boston, and the Charlestown Navy Yard. This contract provides for one 250-passenger vessel, one 150-passenger vessel and one 40-passenger water taxi. By April of 1999, the Authority plans to cease the operation of the 150-passenger vessel. Service will continue between Deer Island and the three off-island terminals for the duration of the contract.

**Deer Island Maintenance Dredging II, RDA Construction Corporation**

The Board approved the award of Contract 6402, Deer Island Maintenance Dredging II, to the lowest responsive bidder, RDA Construction Corporation, and to authorize the Executive Director, on behalf of the Authority, to execute said contract at the bid price of \$553,000 for a period of seven hundred and thirty calendar days from the date of the Notice to Proceed.

The Deer Island pier facility, which is used for personnel ferries, roll-on/roll-off and barges, is subject to sediment deposition from storms and current. The facility must be dredged periodically to maintain adequate depths. The dredging work provided for under this contract will be used only on an as-needed basis and includes the labor, equipment, vehicles, supplies and supervision and includes the disposal of all dredged material.

**Water Transmission Main, Section 91, P. Caliacco Corporation**

The Board voted to approve the award of Contract 5117, Water Transmission Main, Section 91, to P. Caliacco Corporation and that the Executive Director, on behalf of the Authority, execute said contract in the amount of \$1,787,550 for a period of 365 calendar days.

Staff explained that to strengthen water transmission from the end of the City Tunnel Extension to the northeast extremity of the Northern High System, a major new transmission main was constructed under five sequential contracts between 1982 and 1994. In 1983, after construction was underway on Section 91, a contamination site was encountered along Summer Street in Lynn in front of the C.L. Hauthaway property. This contamination was so severe that no construction solution could be developed. This portion of the work was deleted from the contract, leaving a 928 foot gap in the transmission main. Extensive efforts were undertaken over the following years to develop an appropriate means to finish the work. This contract award will permit the MWRA to achieve the long-delayed completion of Section 91 so that the full benefits of this major transmission main can finally be achieved.

**Cosgrove Disinfection Phase II Facility, Puma Corporation**

The Board approved the award of Contract 6365, Cosgrove Disinfection Phase II Facility, to the lowest eligible and responsive bidder, Puma Corporation; and to authorize the Executive Director, on behalf of the Authority to execute said contract at the bid price of \$2,144,000 for a period of 270 calendar days from the date of the Notice to Proceed.

Over the past year MWRA has undertaken a near-term disinfection system improvement program to address disinfection effectiveness. The Cosgrove Disinfection Phase II Facility is part of the program and will replace the temporary Phase I facility. The Phase II facility will consist of a chlorine building which will house chemicals, chemical feed and control systems. The amended Administrative Consent Order for Wachusett Reservoir with DEP requires the construction of the facility to be substantially completed by September 15, 1998.

**Weston Aqueduct Supply Mains Rehabilitation Project - Newton and Watertown, W. Walsh Co. Inc.**

The Board voted to approve the award of Contract 6312, Weston Aqueduct Supply Mains (WASMs) 2 and 4 Rehabilitation Project, to W. Walsh Co. Inc., and to authorize the Executive Director, on behalf of the Authority, to execute said contract in the amount of \$7,482,600 for a period of 914 calendar days.

Staff explained that WASMs 2 and 4 are 60-inch mains and were constructed in 1916 and 1933, respectively. WASM 2 is made of unlined cast iron and WASM 4 is mostly unlined steel. These pipes have thick layers of rust (tuberculation), organic deposits in some places and, on the cast iron segments, lead packed joints. Staff said that for most of their length, scraping and cement-mortar lining the interior pipewall, sealing the joints and replacing appurtenances will make the pipes as good as new and will provide improved hydraulic capacity, improved retention of

water quality and an extended useful life of at least 50 years. Segments near the Charles River where the groundwater fluctuates will require more expensive repair techniques, such as sliplining.

**Water Main Rehabilitation, Boston Low Service, J. D'Amico, Inc.**

The Board approved the award of Contract 6045, Boston Low Service Water Main Rehabilitation, to J. D'Amico, Inc., and that the Executive Director, on behalf of the Authority, execute said contract in the amount of \$6,819,180 and for a period of 660 calendar days.

The work of this contract is located in Brookline and Boston and includes the rehabilitation of approximately 15,000 feet of 36- and 48-inch cast iron water mains and the abandonment of 12,000 feet of 30- and 40-inch cast iron water mains. In addition, the contract includes replacement of two revenue water meters and replacement of several isolation valves on water mains along Beacon Street.

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**CONTRACT AMENDMENTS/CHANGE ORDERS**

**Rehabilitation of Weston Aqueduct Supply Main 4: Camp Dresser & McKee, Inc.**

The Board authorized the Executive Director, on behalf of the Authority, to approve Amendment No. 3 to increase the contract price on Contract No. 5147, rehabilitation of Weston Aqueduct Supply Main 4, with Camp Dresser & McKee Inc., in the amount of \$122,200. A contingency transfer in the amount of \$112,597 is required. The original contract amount was \$4,001,101. Amendments now total \$902,495.

This contract includes preliminary design, final design, construction administration and resident inspection for the rehabilitation of a portion of the Weston Aqueduct Supply Mains (WASMs). This amendment increases the budget for Task 2 (final design) by \$127,400 for additional engineering effort spent in the development of Final Design for Contract 1, Contract 2 and Contract 3, and takes credit for unspent budget in the amount of \$5,200 in the close out of completed Task 1 (Preliminary Design).

**Walnut Hill Water Treatment Plant Design and ESDC, Camp Dresser & McKee, Inc.**

The Board voted to authorize the Executive Director, on behalf of the Authority, to execute Amendment 4 to Contract 5017, Walnut Hill Water Treatment Plant Design/ESDC, with Camp Dresser & McKee, Inc. increasing the contract amount by \$572,515 from \$26,514,514 to \$27,087,029; and authorizing a Notice to Proceed on work covered by this amendment. A contingency transfer in the full amount is required. The original contract amount was \$23,459,620. Amendments now total \$3,627,409.

This amendment consists of extra work under two tasks of the contract - Task 8, Integrated Water Quality Strategy; and Task 9, Cosgrove Disinfection Facility. This amendment will adjust the scope of Task 8 to include additional reports, support for the series of Board briefings on the treatment technology decision, and the updating of the watershed protection plans as required by the amended Consent Order. Changes to Task 9 include engineering services during bidding period, additional construction coordination due to the facility's increased complexity, and development of a separate SCADA system for the facility.

Joe Favaloro, Executive Director of the MWRA Advisory Board, raised concerns about the additions to Task 8. He noted that the MDC Watershed Division should have the ability to handle more of this work, particularly on the watershed protection plan revision where the Authority will spend thousands of dollars to have a consultant update the plan. Staff said that the plan expires this summer and needs to be updated to support the water treatment decision. They argued that it makes sense to get the report done quickly and thoroughly.

**Spot Pond Pipeline Improvements, P. Gioioso & Sons, Inc.**

The Board authorized the Executive Director, on behalf of the Authority, to approve Change Order 9 to Contract 5073, Spot Pond Pipeline Improvements, with P. Gioioso & Sons, Inc., increasing the contract amount by \$319,698 from \$10,918,780 to \$11,238,478 and increasing the contract time 53 days from April 12, 1998 to June 4, 1998. Further, the Board authorized the Executive Director to execute additional change orders as may be needed to Contract 5073, in amounts not to exceed the aggregate of \$250,000. The original contract price was \$10,686,100. Change orders now total \$522,378.

During construction of Spot Pond Pipeline Section 99, the quantity of rock removed exceeded design estimates by 65%. This change order will compensate the contractor for additional labor and equipment to remove the rock.

**Remote Headworks Grit Hopper Rehabilitation Contract, Anderson Nichols & Associates, Inc.**

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Amendment 2 to Contract 5413, Remote Headworks Grit Hopper Rehabilitation, with Anderson Nichols & Associates, Inc., extending the time for completion by 539 days, from October 8, 1997 to March 31, 1999, at no additional cost.

This contract provides design and engineering services during construction of the Remote Headworks Grit Hopper Rehabilitation. Due to delays in delivery of the grit hoppers associated with minor modifications made during fabrication, the construction contract duration has been extended to March 31, 1998. This change order will extend the contract time to cover that extension plus the twelve month warranty period.

**Hazardous Materials Management Consultant - Phase II**

The Board authorized the Executive Director, on behalf of the Authority, to execute Amendment 1 to Contract 6049 with Green Environmental Inc. for Hazardous Materials Management Consultant - Phase II, extending the term of the contract for six months from April 3, 1998 through October 3, 1998.

This contract provides hazardous materials management consulting services for the Boston Harbor Project. The services which will be provided beyond April 1998 include providing a Licensed Site Professional to monitor the testing and exportation of fill material by the Final Paving and Site Completion contract and to achieve site closure and preparation of documentation for Deer Island and Nut Island; oversight of the remediation program for oil and hazardous material contamination found on Deer Island and related sites; and providing hazardous materials management services to support construction of the remaining construction contracts.

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**OTHER BUSINESS**

**Board Appointment to Wollaston Beach Task Force**

The Board voted to appoint Joseph A. MacRitchie to represent the MWRA on the Wollaston Beach Task Force as requested by the City of Quincy. The Task Force was established to study the problem of Wollaston Beach and Quincy Bay pollution and devise a plan to address the problem.

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**INFORMATION REPORTS/DISCUSSIONS**

**EPA Approval of DEP Water Quality Determinations for CSO Plan**

Staff informed the Board of EPA's recent action approving DEP's water quality determinations relative to MWRA's Final CSO Facilities Plan. Both DEP and EPA determined that the recommended controls would reduce CSO discharges to the level required for SB or B designation (i.e. the discharges will not contribute to violations of water

quality standards at least 95% of the time). Staff noted that the agencies have not completed their regulatory reviews of MWRA's proposed CSO controls for the Charles River Basin, the Upper Mystic River or Alewife Brook.

### ***Deer Island Treatment Plant - Transitional Engineering Support and Capital Program Needs***

Staff provided the Board with an overview of future engineering support and capital program development needs and plans for the Deer Island Treatment Plant. Staff explained that as construction has been completed on various facilities, engineering responsibilities are transitioned from the Program Management Division and its consultants to the Sewerage Division. The Construction Manager and various Project Design Engineer contracts managed by PMD are being significantly downsized and will be phased out. Future plant planning, design and construction project needed to protect and maintain the Deer Island investment, are being identified and will require future engineering and support resources and budget commitments within the Sewerage Division.

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