



Summary of:

MWRA Board of Directors' Meeting

May 21, 1997

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Meeting of the Board of Directors of the Massachusetts Water Resources Authority was held on **May 21, 1997** at the Authority Headquarters in Charlestown. Present: Chair Trudy Coxe, Gubernatorial Representative; Norman Jacques, Charles Lyons, John Carroll, Advisory Board Representatives; Joseph MacRitchie, City of Quincy Representative; Marie Turner, Town of Winthrop Representative; Vincent Mannerling,; Sam Mygatt, Donald Mitchell, Gubernatorial Representatives. Absent: Michael Benullo, City of Boston Representative; Lorraine Downey, City of Boston Representative.

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Agenda

Report of the Chair

No report.

Report of the Executive Director

Mr. MacDonald announced that the MWRA now officially owns Secondary Battery A, a significant milestone for the Deer Island Project. The first portion of secondary treatment was transferred from the contractor to the Authority on May 20th. He said that there will be several weeks of performance testing before wastewater is introduced.

The Executive Director also informed the Board that the Town of Weston at an open town meeting voted not to approve the land transfer for Norumbega covered storage. The vote was 51% against, 49% in favor; a two-thirds vote was needed for passage. The Authority plans to continue with the same proposal and has drafted legislation for approval of the land transfer.

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Approvals

Phase-in of Extraordinary Service Charge Increases: Approval of Policy and Request from City of Somerville

The Board voted to approve a policy allowing communities facing extraordinary service charge increases because of errors in the calculation of rate basis data to phase-in both the increase and the required one year "back payment", so long as that phase-in includes interest on the amount due; and, to approve a request from the City of Somerville for a phase-in of part of its FY98 sewer charge increase caused by a prior underestimate of its wastewater flows.

Staff explained that in FY97 MWRA discovered an error in the database used to calculate wastewater flow data for Somerville which caused the community to be undercharged \$2 million over FY97 and FY98. Somerville proposed a three-year phase-in with interest for the extraordinary increase in its FY98 base MWRA sewer charge, and a five-year phase-in with interest for the FY97 billing adjustment incorporated in the FY98 sewer charge. This proposal was approved by the Advisory Board at its May meeting. Staff noted that the phase-in for billing errors will become a general policy for all communities in similar situations.

Extension of Eight Contract Employees, Sewerage Division

The Board voted to approve amendments to the following employment contracts for one year, from July 1, 1997 to June 30, 1998:

Name	Title/Location	Hourly Rate	Compensation
Tracy Cook	Staff Engineer, DI	\$20.00	\$39,000
Nicholas Zechello	Staff Engineer, DI	\$18.00	\$45,000
Frank J. Ward	Painter, DI	\$15.00	\$29,250
Edward Boyajian	Process Control Engineer, DI	\$29.00	\$60,320
Matthew Moskal	Process Control Engineer, DI	\$33.00	\$68,640
James Kern	Program Manager, DI	\$34.00	\$70,720
Carl C. Spearing	Machinist, DI	\$15.30	\$14,917
Douglas Hersh	Marine Analysis, ENQUAD	\$19.00	\$39,520

Staff explained that the seven contract employees at Deer Island all perform work associated with the start-up of the new facilities.

Appointment of Two Construction Coordinators, CECD, Waterworks

The Board voted to approve the Executive Director's recommendation to appoint Harold Quinton to the Position of Construction Coordinator in the Capital Engineering and Construction Department, Waterworks Division, at an annual salary of \$71,884 to be effective on the date designated by the Executive Director. In addition, the Board approved the Executive Director's recommendation to appoint Isidoro D. Perez to the position of Construction Coordinator I, Capital Engineering and Construction Department, Waterworks Division, at an annual salary of \$66,686 to be effective on the date designated by the Executive Director.

Staff noted that these new positions have been approved by the Board for FY97. Mr. MacRitchie noted that they are union positions and that it is Authority policy that the Board approve union positions that are over \$65,000. He

suggested that staff review and make a recommendation to the Board relative to this policy.

FY97 Compensation for Non-Union Employees Ineligible for Step Increases/Performance Payment Program

The Board voted (with Ms. Coxe and Mr. Mannering opposed) to approve the expenditure of an amount not to exceed \$30,000 in order to implement a Performance Payment Program for which eligibility will be limited to eleven management employees who, because they have been compensated at the maximum of their salary grade for not less than one year, are not eligible for an annual step increase. All of the individuals are in engineering/technical management positions.

The Board had a discussion relative to the policy of providing performance payments to employees who have reached the maximum step of their salary grade. Mr. Mannering argued that the top of the pay scale should be the highest amount that the Authority should pay for that position. He said that the Authority should either have step increases or performance bonuses, not both.

Mr. Lyons noted that this is the second year of the policy and that changes to the policy should be discussed at the beginning of the fiscal year. He also said that the employees that are receiving the payments have not had salary increases for the past two years.

Separate Chicopee Valley Aqueduct (CVA) Water Rate

The Board voted to direct staff to complete negotiations of Memoranda of Understanding for future service to the three community systems served by the Chicopee Valley Aqueduct (CVA) based on the revised rate methodology.

Three community systems, Chicopee, Wilbraham and South Hadley Fire District No. 1, are currently serviced by the Quabbin Reservoir-Chicopee Valley Aqueduct system. The MWRA has worked since 1991 to resolve technical and financial arrangements needed to bring water service from the system into compliance with the Safe Drinking Water Act, which requires construction of disinfection facilities and covered storage at Nash Hill. The CVA communities have argued that because the cost of providing water to the communities is so dramatically different from the cost of service for the system serving eastern Massachusetts, a single prevailing rate is fundamentally unfair. Based on this argument, MWRA has proposed that an alternative rate methodology be developed for the CVA communities which would create a separate fully-allocated "cost center" for the CVA system. The development of a new cost center was approved by the Advisory Board on May 15th.

Staff explained that the proposed model for the alternative methodology would involve developing a specific cost center for the expenses directly attributable to the CVA system and then allocating the divisional and Authority non-direct expenses on a cost ratio. Debt service costs would be applied directly.

Approval of a Capital Budget Amendment for Other Projects Contingency Fund

The Board voted to approve an amendment to the FY97-99 Capital Improvement Program budget to increase the contingency fund for Other Capital Projects by \$4.5 million from \$15.1 million to \$19.6 million.

In March, the Board approved transmittal to the Advisory Board of a proposed capital budget amendment to increase the Other Capital Project contingency fund by \$7.6 million, based on the most current projections available at that time. In its response to the request, the Advisory Board recommended deferring approval of the amendment until May 21 to allow for time to refine the requested amount, with the expectation that the eventual contingency fund need would decrease. The Authority has reduced the request amount by \$3.1 million.

Boston Harbor Project Change Order Management Plan - Report No. 41

The Board voted (Mr. Mygatt abstained) to authorize the Executive Director, on behalf of the Authority, to approve change orders as may be needed to the following contracts up to the following amounts:

Contract	Description	Contractor	Amount
5722	North Main Pump Station	J.F.White/PKF-Mark III	\$250,000
5492	Sec. Clarifier Batteries A&B	J.F.White/PKF-Mark III	\$400,000
5493	On-Site Therm. Power Plant	Geo.Hyman Construction	\$400,000

Town of Southborough - Memorandum of Agreement

The Board voted to authorize the Executive Director, on behalf of the Authority, to enter into a Memorandum of Agreement with the Town of Southborough for mitigation associated with construction of the MetroWest Water Supply Tunnel and the Walnut Hill Water Treatment Plant.

The Town of Southborough is potentially impacted by construction of the Water Treatment Plant and the MetroWest Tunnel. Staff have been working to develop an MOA with the Town of Southborough that appropriately addresses the level of anticipated construction impact. The draft MOA has been accepted by the Southborough Working Group and is expected to be approved by the Southborough Board of Selectmen. After Board approval, Mr. MacDonald signed the agreement.

Memorandum of Understanding with MassPort Regarding Water Main Relocation in the Chelsea River

The Board voted (with Mr. Jacques opposed) to authorize the Executive Director, on behalf of the Authority, to enter into a Memorandum of Understanding with the Massachusetts Port Authority related to the relocation of the Section 8 waterline in Chelsea Creek.

Prior to the start of MassPort's planned dredging of Chelsea Creek, MWRA's Section 8 waterline, the main source of water to East Boston and Logan Airport, must be relocated. The relocation will involve designing and placing a new pipe at a greater depth. MWRA and MassPort have worked out a funding agreement by which funds in the amount of \$2.5 million will be provided to MWRA from MassPort from proceeds of a \$15 million authorization in the Seaport Bond Bill. The initial costs in FY98 and FY99, for the waterline relocation design contract, will be provided through these funds. The total cost for design and construction of the new pipe is expected to be \$5 million. This agreement shares the cost between the MWRA and MassPort (assuming the total project costs do not exceed \$5 million).

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Contract Awards

Chelsea Interceptor Relief Project: Bryant Associates

The Board voted to approve the recommendation of the Consultant Selection Panel to select Bryant Associates, Inc. to provide design, engineering services during construction and resident engineering services to the MWRA for the Chelsea Interceptor Relief Project, and to authorize the Executive Director, on behalf of the Authority, to execute a contract with Bryant Associates, Inc. in an amount not to exceed \$3,822,122 for a term of 66 months.

Staff explained that this contract combines three of the twenty-six CSO projects; Chelsea Trunk Sewer Relief, Chelsea Branch Sewer Relief, and Improvements to Chelsea Outfall CHE008. These projects have been combined into one Design, Engineering Services During Construction, and Resident Engineering Inspection project, due to their close proximity and related permitting requirements.

Supply of Natural Gas to FRSA Facilities: Energy Vision

The Board voted to approve the award of Contract No. 1557 for the supply of natural gas to the Fore River facilities (including the pellet plant and four administrative/warehouse buildings) to the lowest responsive bidder, Energy

Vision, and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract at the monthly prices per MMBTU set forth in the staff summary and filed with the records of the meeting, for a contract term of one year commencing July 1, 1997.

Concrete Coating, Repair and Upgrade - Phase 1: Carlin Contracting Company, Inc.

The Board voted to approve the award of Contract No. 6172, Concrete Coating/Repair and Upgrade - Phase 1, to the lowest responsive bidder, Carlin Contracting Co., Inc., conditional upon approval of said award by the Massachusetts Department of Environmental Protection, Bureau of Municipal Facilities, and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract in the bid amount of \$9,091,184 for a period of 183 days from the date of the Notice to Proceed.

As previously reported, extensive studies of H₂S throughout Deer Island and at Nut Island resulted in a recommendation that protective coatings be upgraded on concrete and on metallic surfaces in the areas expected to be subjected to the highest sulfuric acid concentrations. Approximately 685,000 square feet of coatings will ultimately be needed. Phase 1 consists of 193,000 square feet.

Concrete Coating, Repair and Upgrade, Technical Services: Linabond, Inc.

The Board voted to approve the issuance of a Purchase Order for technical services related to review of PVC sheet lining installation to Linabond, Inc., and to authorize the Executive Director, on behalf of the Authority, to execute said Purchase Order at the price of \$286,000.

This purchase order is for technical services related to the review of PVC sheet lining installation that is to occur under Contract 6172. In the review of the many protective coating/lining systems available staff found that the success of a product is highly sensitive to the quality of the installation. It is because of this that staff has recommended that technical representatives from Linabond be present on-site to review the quality of installation while the work is being completed.

Engineering Services, Water Main Relocation in Chelsea River: Parsons Brinckerhoff Quade & Douglas, Inc.

The Board voted to approve the recommendation of the Consultant Selection Panel to select Parsons Brinckerhoff Quade & Douglas, Inc. to provide Design Services, Construction Administration and Resident Inspection for the proposed Water Main Relocation in Chelsea River, and to authorize the Executive Director, on behalf of the Authority, to execute a contract with Parsons Brinckerhoff Quade & Douglas, Inc. in an amount not to exceed \$1,031,643 for a term of four years; provided that the Executive Director shall first receive adequate written assurance that funding for the contract amount shall be provided to the Authority pursuant to the authorization contained in Section 2 of Chapter 28 of the Acts of 1996 (the "Seaport Bond Bill") and a Memorandum of Understanding between the Massachusetts Water Resources Authority and the Massachusetts Port Authority dated as of May 15, 1997.

Local Water Main Improvements - Natick & Weston: S.B. General Contracting

The Board voted to approve the award of Contract No. 6130A, Local Water Main Improvements - Towns of Natick/Weston, to the lowest responsive bidder, S.B. General Contracting, Inc., and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract in the bid amount of \$1,139,375 for a contract term of 365 days.

Local Water Main Improvements - Southborough: Paolini Corp.

The Board voted to approve the award of Contract No. 6130B, Local Water Main Improvements - Southborough, to the lowest responsive bidder, Paolini Corp., and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract in the bid amount of \$1,171,517 for a contract term of 545 days, contingent upon execution of the Memorandum of Agreement between the Town of Southborough and the MWRA regarding the MetroWest Water Supply Tunnel and the Walnut Hill Water Treatment Plant.

Weston Aqueduct Supply Mains 1 & 2 Rehabilitation - Newton & Boston: Camp Dresser & McKee

The Board voted to approve the recommendation of the Consultant Selection Panel to select Camp Dresser & McKee, Inc. To provide consulting services to the Authority for design, construction administration and resident inspection for Phase A of the Rehabilitation of Weston Aqueduct Supply Mains 1 and 2 and to authorize the Executive Director, on behalf of the Authority, to execute Contract No. 6142 with Camp Dresser & McKee, Inc. in an amount not to exceed \$2,518,466 for a period of five years.

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Contract Ammendments/Change Orders

Nut Island Headworks: Modern Continental/SAE Americon, JV

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 71 to increase the contract price on Contract No. 5850A, Nut Island Headworks, with Modern Continental/SAE Americon, JV, in an amount not to exceed \$350,000. Further, the Board voted to authorize the Executive Director to approve additional change orders as may be needed to Contract No. 5850A in amounts not to exceed the aggregate of \$250,000. A contingency transfer is required. The original contract price was \$62,864,000. Change orders now total \$10,134,874 or 15.64% of the original contract amount.

This change order will provide for the removal, reinstallation and retesting of all the equipment/material necessary to facilitate the application of the Linabond PVC sheeting at Nut Island Headworks.

Secondary Clarifier Batteries A&B: J.F. White/PKF Mark III, JV

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 69 to increase the contract price on Contract No. 5492, Secondary Clarifier Batteries A&B, with J.F. White/PKF-Mark III, JV, in an amount not to exceed \$291,138. A contingency transfer is required.

This contract includes inter-CP testing for Secondary Clairfier Batteries A & B. Due to multiple change orders to the three contracts associated with secondary start-up, the originally planned testing and the scheduled turnover date was not attained. Currently, the anticipated turnover date is mid-May 1997. As a result of the delays, the contractor was required to perform testing during the winter season. To prevent freezing, the contractor was required to rent, install and operate two boilers. This change order will cover costs associated with heating the water which the contractor incurred.

Secondary Clarifier Batteries A&B: J.F. White/PKF Mark III, JV

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 70 to increase the contract price on Contract No. 5492, Secondary Clarifier Batteries A&B, with J.F. White/PKF-Mark III, JV, in an amount not to exceed \$296,895. A contingency transfer is required. The original price of the contract was \$140,440,000. Change orders now total \$10,271,460 or 7.3% of the original contract amount.

This change order will compensate the contractor for the additional costs associated with the operation and maintenance of a temporary dewatering system from January through June of 1997. The dewatering system has been necessary to deal with higher groundwater levels than anticipated on Deer Island.

Secondary Treatment Facilities Battery C: Modern Continental Construction Co.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 2 to increase the contract price on Contract No. 6159, Secondary Treatment Facilities Battery C, with Modern Continental Construction., Inc., in an amount not to exceed \$600,000. A contingency transfer is required. The original price of this contract was \$157,774,257. Change orders now total \$1,295,483.

This change order will allow the contractor to furnish and install a gravity dewatering system running west from the secondary odor control gallery located adjacent Secondary Reactor Batteries A & B construction package and beneath the base slab of Reactor Battery C to the west side of Reactor Battery C. This is necessary due to the higher than anticipated groundwater level at Deer Island.

Residuals Treatment Facilities, Phase I, Secondary Batteries, A&B: George Hyman Construction Co.

The Board voted (Mr. Mygatt abstained) to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 56 to increase the contract price on Contract No. 5493, Residuals Treatment Facility, Phase 1, Secondary A&B, with George Hyman Construction Co., in the amount of \$326,782. A contingency transfer is required.

Staff explained that as designed, there is no safe way to maintain the air handling units (AHUs) located on top of the stairwell roofs in Digester Module III. This change order will compensate the contractor for providing storage, maintenance costs, reinstallation and modifications to the AHUs work necessary to locate the units, and to complete performance testing during the winter of 1997-1998 because the AHUs can only be performance tested in cold weather.

Residuals Treatment Facilities, Phase I, Secondary Batteries, A&B: George Hyman Construction Co.

The Board voted (Mr. Mygatt abstained) to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 57 to increase the contract price on Contract No. 5493, Residuals Treatment Facility, Phase 1, Secondary A&B, with George Hyman Construction Co., in the amount of \$253,407. A contingency transfer is required. The original price of the contract was \$97,452,000. Change orders now amount to \$4,422,422.

The contract documents require the supplier of centrifuge equipment, Sharples, to provide start-up assistance to DITP personnel during functional and performance testing. This change order is to expand the scope of the start-up assistance Sharples is to provide through the facility contractor.

Framingham Extension Relief Sewer - Force Main: J. D'Amico, Inc.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 10 to increase the contract price on Contract No. 5320, Framingham Extension Relief Sewer - Force Main, with J. D'Amico, Inc., in the amount of \$9,824. The Board also voted to authorize the Executive Director to approve additional change orders as may be needed to Contract No. 5320 in amounts not to exceed the aggregate of \$250,000. A contingency transfer is required. The original price of the contract was \$7,080,817. Change orders now amount to \$258,235.

This change order results from a situation at Speen Street in Natick where a 12-inch water main owned by the Town of Natick, inaccurately located on the Natick as-build drawing used to prepare MWRA's plans and specifications, was broken during a jacking operation for installation of the new sewer pipe.

Master Planning and CSO Facilities Planning: Metcalf & Eddy

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 6 to increase the contract price on Contract No. 5716, Master Planning and CSO Facilities Planning, with Metcalf & Eddy, Inc., in the amount of \$1,440,000 and to extend the time for completion by nine months to March 31, 1998. A contingency transfer is required. The original contract price was \$9,674,835. Amendments now total \$8,027,125.

Metcalf & Eddy is providing engineering and planning services to complete a facilities plan and environmental impact report for the CSO control plan. This amendment includes adjustments to scope, level of effort and schedule to respond to the additional project requirements and to account for additional costs that were incurred during preparation of the Draft EIR.

Inspection and Conceptual design Services for Improvements to Siphon Chambers: Anderson Nichols & Company, Inc.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 2 to increase the contract price on Contract No. 6017, Improvements to Siphon Chambers and Connecting Structures, with Anderson-Nichols & Co., in the amount of \$179,643 and to extend the time for completion by 111 days to April 21, 1998.

MetroWest Water Supply Tunnel: Sverdrup Civil, Inc.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 9 to increase the contract price on Contract No. 5044, MetroWest Water Supply Tunnel, with Sverdrup Civil, Inc., in an amount not to exceed \$590,000. A contingency transfer is required. The original contract price was \$22,479,999. Amendments now total \$11,769,703.

Work proposed under this amendment is to drill an exploratory horizontal core boring under the Sverdrup geotechnical program and to update geotechnical reports for the tunnel construction package with the new information.

Joe Favaloro asked if staff has considered alternatives to deep rock tunnelling for the 1,500 foot area of bad rock. Mr. McBride said that the bad rock is in a congested area and the Authority's goal is to stay with tunnelling.

Northern Extra High Pipeline Improvements - ESDC: Anderson-Nichols

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 1 to increase the contract price on Contract No. 5242, Northern Extra High Pipeline Improvements, with Anderson-Nichols & Co., Inc., in an amount not to exceed \$241,550 and to extend the time for completion by five months to November 30, 2000.

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Information Reports/Discussions

Norumbega Covered Storage - Weston Land Acquisition

The Board voted (Ms. Coxe abstained) to authorize the filing of legislation authorizing and directing the transfer of 22.3 acres of conservation land in Weston to the MWRA for the improvement of the metropolitan water supply system.

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