

**MWRA Board of Directors Meeting
July 16, 2014
Voting Summary Sheet**

Item Name	Type	Notes	Vote	Discussion Highlights
Approval of Minutes	n/a	n/a	Unanimous	
Report of the Chair	n/a	n/a	n/a	*
Report of the Executive Director	n/a	n/a	n/a	*
Adoption of DEP's DMBE and DWBE Contracting Goals	Approval	<ul style="list-style-type: none"> [Postponed] 	n/a	
Consent to Assignment and Assumption of Contract S484, Power Purchase and Site License Agreement Solar Photovoltaic System – Deer Island Treatment Plant	Approval	<ul style="list-style-type: none"> From Broadway Electrical Co., Inc. to Nexamp Deer Island I, LLC No increase in contract price or term 	Unanimous	
PCR Amendments – July 2014	Approval	<ul style="list-style-type: none"> 1 Title and grade change to filled position Estimated Annual Impact: \$4,455 	Unanimous	
Appointment of Environmental Manager	Approval	<ul style="list-style-type: none"> [Withdrawn] 	n/a	
FY2015 Non-Union Compensation	Approval	<ul style="list-style-type: none"> Approved 1.5% across-the-board adjustment for non-union managers effective July 1, 2014 and January 1, 2015 Approved revision to non-union salary ranges for FY15 	Unanimous	*
Gate, Siphon and Floatables Control at MWR003 CSO Outfall – Cambridge, Contract 7409	Contract Award	<ul style="list-style-type: none"> Awarded: P. Gioioso & Sons, Inc. Amount: \$2,674,835 Term: 426 calendar days from NTP 	Unanimous	*
Environmental Compliance Assistance, Deer Island Treatment Plant and Pelletizing Facility, Contract S530	Contract Award	<ul style="list-style-type: none"> Awarded: EnviroBusiness, Inc. d/b/a EBI Consulting Amount: \$174,529.40 Term: 36 months from NTP 	Unanimous	
Cryogenic Chillers Replacement – Deer Island Treatment Plant, Contract 7398	Contract Award	<ul style="list-style-type: none"> William M. Collins Co., Inc. Amount: \$3,235,800 Term: 730 calendar days from NTP 	Unanimous	
Quabbin Power, Communication and Security Improvements, Contract 7461	Contract Award	<ul style="list-style-type: none"> EDA2, Inc. Amount: \$813,905.08 Term: 48 months from NTP 	Unanimous	
Security Equipment Maintenance and Repair Services, Contract EXE-031, Change Order 5	Contract Amendment/Change Order	<ul style="list-style-type: none"> Viscom Systems, Inc. Not to Exceed: \$140,805 Term: Extended 138 calendar days from August 15, 2014 to December 31, 2014 Additional change orders not to exceed the aggregate of \$90,000 and 90 days 	Unanimous	
Centrifuge Services – Deer Island Treatment Plant, Contract S509, Change Order 1	Contract Amendment/Change Order	<ul style="list-style-type: none"> Alfa Laval, Inc. Not to Exceed: \$121,625 No increase in contract term 	Unanimous	*
Delegated Authority Report – June 2014	Information	<ul style="list-style-type: none"> Please see related staff summary 	n/a	*
PCB Removal/Abatement at Cottage Farm CSO Facility	Information	<ul style="list-style-type: none"> Please see related staff summary 	n/a	*

Administration and Finance
 Wastewater
 Water
 Personnel
 * Advisory Board position



MWRA Advisory Board Summary
of the
MWRA Board of Directors Meeting
Wednesday, July 16, 2014

A meeting of the Board of Directors of the Massachusetts Water Resources Authority was held on July 16, 2014 at the John J. Carroll Water Treatment Plant. Present: Chair Maeve Bartlett, Gubernatorial Appointee; John Carroll and Joseph C. Foti, Advisory Board Representatives; Henry Vitale and Brian Swett, City of Boston Representatives; Jack Walsh, City of Quincy Representative; Paul Flanagan, Town of Winthrop Representative. Absent: Joel Barrera and Jennifer Wolowicz, Gubernatorial Appointees; Andrew Pappastergion, Advisory Board Representative; Kevin Cotter, City of Boston Representative.

Report of the Chair

MWRA Board Chair Maeve Bartlett stated that the celebration of the completion of the UV Disinfection Facilities that took place prior to the Board meeting was a wonderful event. She stated that it was her first time meeting Judge Stearns and the MWRA is lucky to have such a judge doing oversight on the MWRA because he is clearly very committed and engaged. The event is yet another indication of the good work that the MWRA does.

Report of the Executive Director

MWRA Executive Director Fred Laskey stated that the MWRA has received EPA's variance for the Mystic/Alewife for 2013 through 2016 and this is another "piece of the puzzle" in moving forward to the completion of our Combined Sewer Overflow (CSO) Program. Staff will be filing a supplemental report with the Judge this afternoon indicating that there is an agreement with a property owner that there had been a previous issue with in regard to access to their property. The Authority continues to plow ahead toward the December 2015 deadline.

The Spot Pond storage tank project is coming toward its conclusion and one of the key parts is to connect the new storage tank to the current water lines on Marine Road in Stoneham. It is a DCR road and DCR was gracious enough to allow the MWRA to close the road for construction purposes. When the contractor got out there and started digging, they found that two Melrose lines weren't quite accurately represented in the record drawings and it created a serious problem for the MWRA on how to move forward. The issue is that two Melrose lines are over the Stoneham border. It appears that staff will be back before the Board sometime in the near future for a change order or increase in the contract price due to this situation.

There is no August Board meeting; however, the Advisory Board's tour will be taking place on August 21 and will focus on three projects. The projects are the Gillis Pump Station upgrade; the Authority is building a new pump station and covered storage at the Spot Pond tank at which guests will be able to go down inside the covered storage tank and then the tour will continue on to the wetlands at the Mystic/Alewife.

In regard to the co-digestion update, staff continues to fine-tune the financial estimates. There is not a lot that is new to report other than that staff has had discussions with Waste Management and they appear to have had a shift in their strategy. We are in the process of setting up a meeting through the Secretary's office with DEP and EOEAA to get everyone in the room to figure out where we are and how we are going to move forward. It is our hope to have a much better feel on the whole thing when we come back for the September Board meeting. Staff's of DEP, MWRA and EOEAA have a lot of work to do over the next several weeks to get this together.

Chair Bartlett stated that she will ensure that all the appropriate people will be in attendance because she thinks this is a great project. We do want to iron out all the issues to be able to come back to the Board in September with a complete picture as it relates to the co-digestion project.

Approvals

Adoption of DEP's DMBE and DWBE Contracting Goals

Postponed.

Consent to Assignment and Assumption of Contract S484, Power Purchase and Site License Agreement Solar Photovoltaic System – Deer Island Treatment Plant, from Broadway Electrical Co., Inc. to Nexamp Deer Island I, LLC

The Board voted to authorize the Executive Director, on behalf of the Authority, to execute a Consent to Assignment and Assumption for the purpose of assigning Contract S484 from Broadway Electrical Co., Inc. to Nexamp Deer Island I, LLC, with no increase in contract price or contract term.

PCR Amendment – July 2014

The Board voted to approve amendments to the Position Control Register, as presented and filed with the records of the meeting.

Appointment of Environmental Manager

Withdrawn.

FY2015 Non-Union Compensation

The Board voted to take the following actions in MWRA's FY15 Non-Union Compensation Program:

(1) Authorize the Executive Director to implement a 1.5% across-the-board compensation adjustment for non-union managers effective July 1, 2014, and a 1.5% across-the-board adjustment for non-union managers effective January 1, 2015; and

(2) Approve a revision to the non-union salary ranges for FY15 as presented in Attachment A and filed with the records of the meeting.

Mr. Laskey noted that this vote includes the Chief Operating Officer.

Contract Awards

Gate, Siphon and Floatables Control at MWR003 CSO Outfall – Cambridge: P. Gioioso & Sons, Inc., Contract 7409

The Board voted to approve the award of Contract 7409, Gate, Siphon and Floatables Control at MWR003 CSO Outfall, to the lowest responsible and eligible bidder, P. Gioioso & Sons, Inc., and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract in the bid amount of \$2,674,835 for a term of 426 calendar days from the Notice to Proceed.

Mr. Laskey noted that this is the last of the 35 CSO projects that were under the federal court order to move into construction.

Board Member Jack Walsh said this project came in 41% over the engineer's estimate. Who develops the engineer's estimate? Staff responded that the engineer's estimate is prepared by the design consultant, in this case it was Fay, Spofford and Thorndike (FST).

Mr. Walsh asked how they could be that far off. Staff stated that FST had discussions with the low bidder who identified a number of concerns that contributed to the bid being higher. There was also an addendum that was not incorporated into the engineer's estimate, which added about \$200,000 to the work. The site is also in a difficult location, behind an MBTA station, with work also being conducted within a parking structure. Two major interceptors pass through this construction site. The main access road to the MBTA station and parking, along with a new DCR bike path are right at this location and the jurisdictions are many. Parts of the construction site are owned by the MBTA, DCR and a 93 year-old woman in Belmont, whose family received the property from the King of England in 1643. All of it comes under the jurisdiction of the Wetlands Protection Act and the Cambridge Conservation Commission. For all of those reasons, the estimate should have been bumped up beyond the typical cost sources in the engineering reports.

Mr. Laskey noted that the three contractors were all clumped together in their bids, which gives staff reassurance that they were good bids.

Environmental Compliance Assistance, Deer Island Treatment Plant and Pelletizing Facility: EnviroBusiness, Inc. d/b/a EBI Consulting, Contract S530

The Board voted to approve the recommendation of the Consultant Selection Committee to select EnviroBusiness, Inc. d/b/a EBI Consulting to provide environmental compliance assistance at the Deer Island Treatment Plant and at the Pelletizing Facility, and to authorize the Executive Director, on behalf of the

Authority, to execute Contract S530 with EBI Consulting in an amount not to exceed \$174,529.40 for a term of 36 months from the Notice to Proceed.

Cryogenic Chillers Replacement – Deer Island Treatment Plant: William M. Collins Co., Inc., Contract 7398

The Board voted to approve the award of Contract 7398, Cryogenic Chillers Replacement – Deer Island Treatment Plant, to the lowest responsible and eligible bidder, William M. Collins Co., Inc., and to authorize the Executive Director, on behalf of the Authority, to execute and deliver said contract in the bid amount of \$3,235,800, for a term of 730 calendar days from the Notice to Proceed.

Quabbin Power, Communication and Security Improvements: EDA2, Inc., Contract 7461

The Board voted to approve the recommendation of the Consultant Selection Committee to select EDA2, Inc., to provide Design, Engineering Services During Construction, and Resident Engineering and Inspection Services – for the Quabbin Power, Communication, and Security Improvements project, and to authorize the Executive Director, on behalf of the Authority, to execute Contract 7461 with EDA2, Inc. in the amount of \$813,905.08 for a term of 48 months from the Notice to Proceed. The Notice to Proceed for grant eligible work shall not be issued until a signed contract between MWRA and the Massachusetts Emergency Management Agency has been executed.

Contract Amendments/Change Orders

Security Equipment Maintenance and Repair Services: Viscom Systems, Inc., Contract EXE-031, Change Order 5

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order 5 to increase the amount of Contract EXE-031 with Viscom Systems, Inc., Security Equipment Maintenance and Repair Services, in an amount not to exceed \$140,805, and to extend the contract term by 138 calendar days from August 15, 2014 to December 31, 2014; further, to authorize the Executive Director to approve additional change orders as may be needed to Contract EXE-031 in amounts not to exceed the aggregate of \$90,000 and 90 days, in accordance with the Management Policies and Procedures of the Board of Directors.

Centrifuge Services – Deer Island Treatment Plant: Alfa Laval, Inc., Contract S509, Change Order 1

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order 1 to increase the amount of Contract S509 with Alfa Laval, Inc., Centrifuge Services, Deer Island Treatment Plant, in an amount not to exceed \$121,625, with no increase in contract term.

Staff believes that two additional units will have to be serviced based on run hours and condition.

Other Business

The Board announced that it voted to ratify the Unit 2 contract, along with the Massachusetts Organization of State Engineers and Scientists (MOSES) Unit 9 contract, during Executive Session.

Information

Delegated Authority Report – June 2014

Director of Finance and Administration Rachel Madden highlighted the June 2014 delegated authority purchases. There are 14 construction-related items, as well as 12 planned purchases, 10 recurring contracts and one amendment. There were no critical need purchases made; all purchases were planned and budgeted.

Board Member Jack Walsh asked that some of the IT purchases be explained. Russell Murray, MIS Director, said the Gai-Tronics Page Party System is an internal building paging system. It is a very high-end, explosive-proof system that allows staff within the MWRA facilities to communicate between floors and to the operation centers. It is located within 14 locations throughout the MWRA, including three headworks plus the Caruso, DeLauri and Prison Point Pump Stations. Those three sites are being updated today so they will be compatible with the Gai-tronics environment.

The Authority currently has two data centers, one at the Chelsea facility and the other at Deer Island. The Blade Servers are being upgraded to accommodate the consolidation of service, as well as the disaster recovery plans. A blade server is a small, thin box that acts as a server; it has a CPU and memory within it and it then connects up to a chassis that allows the back blade to make all the blades look like one. Staff can then put some virtualization software on top of that and then put up as many servers as they want. Additionally, there are Microsoft licenses to allow for the license to operate the virtual server.

The Network Fiber Channel allows for the upgrade of the MWRA's tape drive. A few months ago the Authority purchased a new backup system called Data Domain, which allowed the Authority to eliminate the massive number of backup tapes.

Board Member Brian Swett noted a few energy efficiency projects in the delegated authority report. Ms. Madden stated that the Authority has been consistently utilizing the NSTAR programs that provide rebates in order to improve certain processes. Staff has made improvements to electrical and lighting systems. Kristen Patneau, Program Manager, Energy Management, added that staff contracts through the utilities N-Grid and NSTAR using their preferred vendors that they have competitively solicited and the Authority will use a number of vendors depending on the energy efficiency measure, such as HVAC or electrical contractors.

Mr. Swett asked about the process for identifying these projects. Ms. Patneau said typically the preferred vendor will come out and do a no-cost audit of the facility. They will submit the audit results to the MWRA and in most cases, when the paybacks are reasonable, staff will move forward with those projects with the same vendor so they recover some of their costs of doing the audit. It is a risk they take by doing the audit.

Mr. Swett asked what a reasonable payback time would be. MWRA Chief Operating Officer Michael Hornbrook stated that the projects before the Board today would average between a three- to five-year payback. Ms. Patneau added that future NSTAR projects will likely have a more rapid payback because of a Memorandum of Understanding that the MWRA has signed with NSTAR where NSTAR is now guaranteeing a minimum of 30 cents per kWh.

Mr. Swett stated that he wanted to continue to be proactive to identify opportunities, especially with rapid paybacks. He stated that he is comfortable with a seven- to ten-year payback on a major investment that is going to last longer depending on the life-cycle of that investment.

PCB Removal/Abatement at Cottage Farm CSO Facility

Chief Engineer Anandan Navanandan provided the Board with an update on PCB removal and abatement at the Cottage Farm CSO Facility. The main building at this facility was built in 1977 and at that time PCBs were not banned from construction products. The second building at this facility, which houses chemicals, was built in 2001 so it does not have any PCB issues.

Environmental Engineer Leon Lataille noted that the PCBs were discovered while doing a couple of small ongoing projects at this location. During hazardous materials testing to identify disposal options for waste products for these two small projects, staff discovered that PCBs were found in the paint and caulk that was to be disposed as a result of those projects.

PCBs, or polychlorinated biphenyls, were used in electrical equipment for many years and it was also used as an additive in paint and caulk to give it certain desirable properties like flexibility. Those uses of PCBs were banned in 1977 by the Environmental Protection Agency (EPA). EPA regulations prohibit the continued use of PCBs in such products as paint and caulk if they are found to be over 50 parts per million (PPM) in the materials.

An extensive survey was done of all the spaces in the facility and found that most of the concrete surfaces, including the walls, the floors and ceilings that were painted were contaminated with PCBs at quite high levels. That also included equipment and piping inside the facility. A limited amount of caulking was also identified with high levels of PCBs. The floor paint was typically found to have 1,000 to 5,000 PPM, walls were about 10,000 PPM and ceilings tended to be even higher with the highest level found at 250,000 PPM in a limited area.

Phase 1 focuses on removal of the PCB paint using a removal process that was identified for the area to remove paint from the walls, floors and ceilings, as well as large pieces of equipment and piping. For concrete, two layers of epoxy coating were applied to restrict exposure to the PCBs; long-term monitoring of this encapsulation is required to ensure that the integrity of this encapsulation stays intact.

Board Member Joseph Foti asked about the long-term monitoring, which could tell you years later that it didn't work. Mr. Lataille said that is a possibility; however, EPA has done some investigation on encapsulation

methods and they believe it is a reasonable approach as long as the PCBs that remain in the concrete are below a certain level. Mr. Hornbrook said years in the future, you could have bubbling or flaking of the encapsulating paint so that is why the monitoring is required.

Mr. Carroll stated that no one in the world has died from PCBs. He stated that he believed that the cost of \$2 million for PCB removal is way overblown. Mr. Lataille said a portion of that money is for design and roughly half is for the construction phase. Mr. Laskey stated that he understands that this has been a controversial issue with the Board and that is why he wanted to give members an early warning so it can be discussed. Staff will look long and hard at the design. Mr. Lataille noted that part of the issue is that the facility has to remain open during this process.

Mr. Walsh said the PCBs have been at the facility for nearly 40 years; is EPA requiring that it be removed? Because we discovered it, we have to remove it? Mr. Lataille said yes, that is essentially the situation.

Mr. Laskey noted that Mr. Lataille will be retiring soon and he has been professional, hard-working and has served with distinction. He will be sorely missed.

This summary does not include every item discussed by the Board, nor the full extent of the discussions. Please contact Mary Ann McClellan at the Advisory Board office with questions, comments