

The Narragansett Bay Commission
One Service Road
Providence, RI 02905

(401) 461-8848
(401) 461-6540 FAX

Vincent J. Mesolella
Chairman

Raymond J. Marshall, P.E.
Executive Director



OFFICIAL MINUTES OF:

Meeting of:	CEO Committee Meeting
Date:	December 10, 2013
Time:	10:00 a.m.

MEMBERS PRESENT:

John MacQueen, Chairman
Jonathan Farnum
Vincent Mesolella
Al Montanari
Angelo Rotella
Leo Thompson
Richard Worrell

MEMBERS ABSENT:

Robert Andrade

STAFF AND GUESTS PRESENT:

Raymond J. Marshall, Executive Director
Joanne Maceroni, NBC
Laurie Horridge, NBC
Rich Bernier, NBC
Karen Musumeci, NBC
Paul Nordstrom, NBC
Tom Uva, NBC
Jamie Samons, NBC

Tom Brueckner, NBC
Deborah Samson, NBC
Gail Degnan, NBC
Sherri Arnold, NBC
Shaylyn McCauley, NBC

1. Call to Order

Recognizing a quorum, CEO Chairman MacQueen called the December 10, 2013 Construction/Engineering/Operations (CEO) Committee Meeting to order at 10:16 a.m.

2. **Approval of Minutes** – October 29, 2013 CEO Committee

CEO Chairman MacQueen asked for a motion to approve the October 29, 2013 CEO Committee Meeting minutes as written.

NBC Chairman Mesolella moved to approve the minutes of the October 29, 2013 CEO Committee. Commissioners Thompson and Montanari seconded the motion. The vote taken by the CEO Committee was unanimous. The motion carries.

3. **Items for Action**

- A. **Review and Approval of Resolution 2013:46;** Authorization to Amend Agreement 08A-114.01.00 to Provide Enhancements to the NBC ROMS Hydrodynamic Water Quality Model of Narragansett Bay

Mr. Marshall advised that in 2008, NBC entered into an Agreement with Professor Chris Kincaid of the URI Graduate School of Oceanography (GSO) to develop a receiving water model for Narragansett Bay using the public domain Regional Ocean Management System (ROMS) model. The original Agreement was amended twice to include further revisions to the model to improve its reliability and accuracy in predicting hydrodynamic conditions in the Providence River and Upper Bay. The amount of the Agreement and amendments with Dr. Kincaid is \$52,505.

This model is an important tool that can be used by NBC and others to evaluate the effects that further nitrogen reductions will have on Narragansett Bay water quality. The model accurately represents hydrodynamic conditions but it does not now have the capability to calculate or predict the effect of nitrogen loadings on dissolved oxygen levels. However, modifications can be made to the model which would give it this capability. RIDEM has indicated that this capability is important to them to predict water quality improvements associated with reducing nitrogen loadings.

Dr. Kincaid has submitted a proposal to modify the model to predict dissolved oxygen levels associated with changes in nitrogen loadings. The proposal also includes making improvements to the bathymetry of the Seekonk River to more accurately model hydrodynamic conditions there. This is now possible due to improvements to the ROMS model and the supercomputers at URI used to run the model.

Two other tasks are proposed which involve modeling of physical alterations to the Providence River that would improve flushing and water quality. The ROMS model will be used to evaluate the effect that these “smart engineering” construction changes will have on Providence River and Upper Bay water quality. The cost of the work to be done under this amendment is \$59,570.

Therefore, it is requested that the Board approve Resolution 2013:46 authorizing staff to amend the Personal Services Agreement with Kincaid Consulting LLC for further programming enhancements and modeling runs using the ROMS model for an amount not to exceed \$59,570 for a total contract amount not to exceed \$112,100.00.

Commissioner Worrell made a motion to approve Resolution 2013:46; Authorization to Amend Agreement 08A-114.01.00 to Provide Enhancements to the NBC ROMS Hydrodynamic Water Quality Model of Narragansett Bay. Commissioner Farnum seconded the motion and the vote taken by the CEO Committee was unanimous. The motion carries.

4. Other Business

None.

5. Adjournment

A motion to adjourn was made by NBC Chairman Mesoella seconded by Commissioner Montanari and the CEO Committee meeting adjourned at 10:25 a.m.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Raymond J. Marshall".

Raymond J. Marshall, P.E.
Executive Director/Secretary