

# **Eighth Annual Report Regarding Progress in Developing a Dredged Material Management Plan for the Long Island Sound Region**

**For the Period July 6, 2012 - July 5, 2013**

**U.S. Environmental Protection Agency, Region 1  
February 2014**



## **INTRODUCTION**

This is the eighth annual report by the U.S. Environmental Protection Agency (EPA) on progress toward completion of a dredged material management plan (DMMP) for the Long Island Sound region, and related efforts to "reduce or eliminate" the need for open-water disposal of dredged material in Long Island Sound.

## **BACKGROUND**

### EPA Regulatory Requirements

On June 3, 2005, EPA issued a final rule to designate two open-water dredged material disposal sites,

Central Long Island Sound and Western Long Island Sound, for the placement of dredged material from harbors and navigation channels in the Long Island Sound vicinity in the states of Connecticut and New York [40 CFR Part 228.15(b)(4) and (b)(5)].

The use of these two sites is subject to restrictions that are described in the site designation rule, which are intended to reduce or eliminate the disposal of dredged material in Long Island Sound. Use of the sites pursuant to these designations may be suspended or terminated in accordance with these restrictions.

One of these restrictions links continued use of the sites to the completion of a regional dredged material management plan (DMMP) for Long Island Sound. A DMMP is a comprehensive planning process and decision-making tool to address the management of dredged material for a specific harbor or navigation project, group of related projects, or geographic area. Additional detail on the DMMP is provided in the next section.

A related restriction requires EPA to conduct an annual review of progress toward completion of the DMMP. EPA is complying with this requirement by producing an annual report on or about the anniversary of the effective date of the site designations (July 5, 2005), and making the report available to the general public.

Another restriction is intended to ensure progress toward reducing or eliminating open-water disposal in Long Island Sound pending completion of the DMMP by requiring the formation of an interagency Long Island Sound Regional Dredging Team (RDT). The RDT reviews dredging projects subject to Designation Restrictions to ensure that a thorough effort has been conducted to identify practicable alternatives to open-water disposal and ensure the use of those alternatives to the maximum extent practicable. In addition to information on the status of the DMMP, this EPA annual report includes information on RDT deliberations conducted in the preceding year, and on the quantity of dredged material and its final placement or disposal location. Additional detail on the form and function of the RDT is provided in a later section.

In the designation rule an eight year time period was established between the publishing of the rule and when a DMMP should be completed. Failure to complete the DMMP in this time period would trigger the shutdown of the CLDS and WLIS disposal sites until the DMMP was completed. However, since three years passed between the designation rule and funding was provided for DMMP efforts, the LIS DMMP Steering Committee, the Federal and State agencies involved in the project, determined that an extension of the timeline was warranted. The CLDS and WLDS site closure dates were extended to April 30, 2015. A letter of agreement was signed in June 2013 by the US Environmental Protection Agency, the US Army Corps of Engineers, the NY Department of State, and the CT Department of Energy and Environmental Protection.

### Dredged Material Management Plans

The U.S. Army Corps of Engineers (USACE) regulations require each of its district offices to develop a DMMP for all Federal Navigation Projects for which there is an indication of insufficient placement or disposal capacity to accommodate maintenance dredging over a 20-year period. A DMMP addresses a wide range of environmentally acceptable, cost-effective, and practicable alternatives for the management of dredged material, culminating with the selection of a base plan and a recommended plan that ensures that sufficient capacity for dredged material placement exists for a project or group of provide environmental or commercial benefits through beneficial use of dredged material. The scope of projects is for a minimum 20-year planning period. The range of alternatives

for the DMMP may also include private dredging projects that are geographically related to the federal project(s), which may require the sponsors of those projects to provide non-federal funds to support the additional work.

The DMMP process involves a phased approach. The first phase, a Preliminary Assessment, draws on existing information to: (1) determine the economic and engineering need for dredging according to existing and reasonably prospective navigation traffic; (2) identify the anticipated locations and volumes of dredged material to be generated within the study area; (3) examine existing dredged material disposal sites and management practices to determine if shortfalls in capacity or opportunities for better management exist; and (4) provide an estimate of the cost of completing the DMMP. The Preliminary Assessment determines whether a federal interest exists in participating in a feasibility-level DMMP study.

If the PA phase recommends the development of a DMMP after the PA is completed and approved, the DMMP is initiated upon the appropriation of necessary funding. The first step is development of a Project Management Plan (PMP) that describes: (1) the scope of the DMMP; (2) the sequence of the studies; (3) a plan for acquisition management covering the various study tasks (labor, contracts, other agency contributions); (4) a plan for public involvement and participation; and (5) an estimated budget, organized by federal fiscal year budget cycle.

Following review and acceptance of the PMP by the project delivery team which also can consist of cooperating federal and state agencies, feasibility-level study efforts would commence, subject to the availability of staff and funding. These studies generally focus on the following topics: (1) dredging needs; (2) management options; (3) capacities of placement sites; (4) environmental compliance requirements; (5) potential for beneficial use of dredged material; and (6) indicators of continued economic justification. The PMP is considered a "living document", subject to change based on new information and input from the public and other agencies.

The management structure for a typical DMMP comprises the following components:

- Project Manager: Individual responsible for day-to-day management of project.
- Project Delivery Team (PDT): The working group (in some cases involving members of other agencies) that will assist with the development of the DMMP.
- Agency Technical Review Team: An internal USACE technical review procedure required by the US ACE to review the plan for technical merit and cost-effectiveness.
- Technical working groups: These may be formed to provide assistance to the Project Delivery Team, with representation from other federal and state agencies, and sometimes non government organizations and private citizens.

For compliance with the National Environmental Policy Act (NEPA), the USACE prepares an Environmental Assessment, an Environmental Impact Statement or a Programmatic Environmental Impact Statement (PEIS), whichever is most appropriate, that evaluates the analyses and recommendations of the DMMP.

## **LONG ISLAND SOUND DREDGED MATERIAL MANAGEMENT PLAN**

### Management Structure

The US ACE is the lead agency for development of the Long Island Sound Dredged Material Management Plan (LIS DMMP). The New England District and New York District, with oversight by the North Atlantic Division, are developing the DMMP in cooperation with EPA Regions 1 and 2, the National Oceanic and Atmospheric Administration (NOAA), the New York State Department of State (NYS DOS), the New York State Department of Environmental Conservation (NYS DEC), the Connecticut Department of Energy and Environmental Protection (CTDEEP ) (formerly the Connecticut Department of Environmental Protection, or CT DEP), the Connecticut Department of Transportation (CT DOT) and the Rhode Island Coastal Resources Management Council (RI CRMC).

Management of the LIS DMMP was assigned to the US ACE New England District, which assigned a project manager responsible for overall management of the effort. The participating agencies agreed to adopt the traditional management structure by establishing and assigning representatives to a LIS DMMP Project Delivery Team (PDT). Although not a standard component of the DMMP management structure, due to the large scope of the project and strong public interest, the agencies also formed a Steering Committee (SC) of higher level agency officials to facilitate communication, priority-setting, and the commitment of resources for the LIS DMMP.

During this reporting period, the SC participated in two conference calls (August 9, 2012 and May 28, 2013). In addition, the SC met on February 19, 2013 in Newington, CT at the CTDOT headquarters. The PDT members participated in three conference calls (March 7, April 4, and May 8, 2013). The PDT call in October was cancelled due to the government shutdown. Some of the PDT members also participated in the SC meeting as well as the SC conference calls. The PDT conference calls were held to discuss current and planned DMMP work efforts, project budget, and proposed schedule for future work tasks. The current rosters (as of November 2013) for the Steering Committee and PDT are attached as Appendices A and B.

### Planning Process

The overarching goal of the LIS DMMP is to develop a comprehensive plan for dredged material management in Long Island Sound that ensures Corps of Engineers federal navigation project dredging needs are met, and identify alternatives that could be used by others that will lead, over time, to the reduction or elimination of open-water disposal in the Sound. The DMMP will try to meet this goal by using a broad-based, public process that protects the environment based on best scientific data and analysis, while meeting society's need for safe and economically viable navigation for water based commerce, transportation, national security, and other public purposes. Recognizing that there are numerous institutional, regulatory, social, and financial barriers to utilizing dredged material beneficially, one purpose of the DMMP is to document these barriers and recommend plans to overcome them.

For the Long Island Sound DMMP, it should be noted that the site designation restrictions apply to all federal projects, and non-federal projects generating more than 25,000 cubic yards of dredged material in the region. The LIS DMMP will identify potential environmentally acceptable, practicable management alternatives that can be utilized by various dredging proponents in their analysis of options to manage their dredging projects.

The Preliminary Assessment for the LIS DMMP was completed and approved by the USACE in June 2006. The Project Management Plan, which serves as the initial work plan for the LIS DMMP, was completed and approved by the USACE, in consultation with the PDT, in October 2007. As previously noted, the PMP is subject to change based on new information and input from the public and other agencies.

The USACE will be preparing a Programmatic Environmental Impact Statement (PEIS) in conjunction with the LIS DMMP to ensure compliance with NEPA. The USACE published the Notice of Intent to develop a PEIS for the LIS DMMP in the Federal Register on August 31, 2007 (72 FR 50332). EPA, the USACE, and state agencies conducted a series of six public information and NEPA scoping meetings to kick off the LIS DMMP and PEIS process on November 26-29, 2007. The agencies held three meetings in each of the two states to present progress on the planning for the LIS DMMP and solicit public input on both the scope and process of the LIS DMMP and PEIS. Public comments will be considered in identifying and developing the activities and investigations to be performed in the LIS DMMP and PEIS effort. The presentations from the public meetings and other related documents are available on the USACE LIS DMMP Project website, which was established in August 2007 <http://www.nae.usace.army.mil/Missions/ProjectsTopics/LongIslandSoundDMMP.aspx> On March 24, 2008, the USACE initiated contractual efforts for the LIS DMMP study efforts. The USACE has been using both contracted services and in-house resources to conduct the various inventories or analyses needed for the development of the DMMP. The reports are available on the above mentioned USACE website.

The Dredging Needs Survey, which estimates the volume of dredged material that will be generated by location and by time frame for the entire region over a 30-year planning horizon, was initiated in June 2008 and completed in Oct 2009. An updated two-phase Literature Review was initiated in April 2008 and completed in June 2010. The Economic Update was initiated in January 2010 and completed in March 2010.

The initial Upland Placement Inventory, which identified and cataloged potential upland placement alternatives for the entire region over a 30-year planning horizon, as well as the inventory of possible shore-side transfer sites and beneficial use sites, was initiated in August 2008 and completed in October 2009. The sites in this report were screened based on their potential viability for use by the USACE in management of their dredged material. A second phase upland/beneficial use/near shore placement site identification effort designed to provide site-specific information such as capacity, restriction, etc. for the potential sites large enough for USACE use was completed in November 2010. An additional upland/beneficial use/near shore effort designed to provide site-specific information (e.g., capacity, restrictions, etc.) for the potential small sites was completed in January 2011.

The Federal and State Regulatory and Program Update was completed in October 2011. The Cultural Update was initiated in May 2010 and completed in August 2010. An effort to inventory potential confined disposal sites and near shore placement sites was completed in November 2012. Another effort to determine air quality impacts from different sized and types of projects, and whether they would conform with Clean Air Act requirements also has been initiated and will be completed in 2014.

An analysis of the estimated costs of transporting dredged material from various sizes and types of projects is also expected to be completed in 2014.

Concurrent with the technical studies, the USACE, with support from the PDT and contractors, initiated public outreach and participation efforts in 2010 and continued them in 2012. The first of several LIS DMMP newsletters was sent electronically and by mail to the public in February 2010. A second newsletter was distributed electronically in August 2012 and another will be sent in early 2014. Both newsletters updated the public on work that had been completed, work underway and planned future efforts. Newsletters are also posted on the project web site.

USACE also established a LIS DMMP Working Group in early 2011 comprising representatives from federal, state, regional, and local government agencies, and various stakeholder organizations that have an interest in dredged material management in the Long Island Sound region. The Working Group members' responsibility is to provide input to the LIS DMMP process in their respective areas of expertise. The PDT held a Working Group meeting on 17 January 2013 in Bridgeport, CT. The purpose of this WG meeting was to present the results of the various surveys conducted with the Working Groups from NY and CT. This survey was designed to assist in identifying a list of criteria based on stakeholder interests and concerns. Members of the Working Group, by reviewing and disseminating the information presented and discussed at the meetings, and conveying their organization's comments and positions, serve as a communication link between the regulatory agencies and the organizations represented on the Working Group.

During the meetings, the USACE presented background on the LIS DMMP process, the requirements for determining suitability of dredged material for disposal at the Long Island Sound disposal sites, and presented the USACE Engineer Research and Development Center (ERDC) Multi-Criteria Decision Analysis (MCDA) method. This method is being used to model scenarios with varying trade-off values (esthetic, economic, environmental, etc.). This information will be used in the alternatives assessment document.

In January 2012, the Working Group representatives were furnished a "read ahead" packet to assist them in discussions with members of their organization to determine rankings of various parameters of interest to their organizations. After the representatives identified their organization's rankings they were to be interviewed by ERDC staff so that the results of all interviews could be compiled and analyzed. Due to limited participation of the Working Group organizations, the deadline for the interviews was extended several times to give the Working Groups more time to organize their responses.

Additional studies initiated include: Harbor Sediment Characterization, Air Quality Analysis, and Transportation Cost Analysis Matrix. The Harbor Sediment Characterization report collected information sediment testing results from Corps of Engineers maintenance projects and testing results conducted by others for their dredging projects. The data was collected from the Corps Navigation Sections and Regulatory Divisions in both the New York and New England Corps offices.

The Transportation Cost Analysis Matrix develops costs associated with dredging projects of various sizes (from 1000 CY to 4 million CY) using different types of dredging equipment (mechanical, hopper, hydraulic, etc.) with different sediment types (sand, silt, etc.)

The Air Quality Analysis uses the equipment developed in the Transportation Cost Matrix to determine the emissions from that equipment and comparing it to the State standards.

The States of New York and Connecticut have collected information that will be used to assist in identifying possible sediment and contaminant reduction into LIS. This information was provided to the USEPA who will compile the data into a report that should be available in 2014.

The Draft Programmatic Environmental Impact Statement is expected to be completed in January 2015. Public meetings will be conducted in New York and Connecticut during the review period for the Draft PEIS.

### Funding

In February 2005, the governors of the two states sent a joint letter to the USACE requesting its assistance with the development of the DMMP and, in separate letters, asked members of their respective congressional delegations to seek appropriation of federal funds to initiate the DMMP. The PDT initially estimated that it would cost up to \$12 million and take 5-6 years to complete the LIS DMMP. The USACE agreed to work with the states on the DMMP and requests for funds were included in the President's budget for federal fiscal years (FY) 2007 and 2008. In FY07, \$1.7 million was included in the President's proposed budget, but this was eliminated by passage of a Continuing Resolution that was based on the FY06 federal budget.

Federal funding for the LIS DMMP began in FY08 and continued through FY10 at variable levels (see table below).

As of September 25, 2013, \$6,943,985 in federal funds have been provided for the LIS DMMP project. Federal Funding for LIS DMMP, 2007-2013

Fiscal Year	Appropriation
2007 <sup>1</sup>	\$100,000
2008	\$3,525,000
2009	\$980,000
2010	\$2,761,100
2011	\$490,685
2012 <sup>2</sup>	(\$912,800)
2013	\$1,473,045
Total	\$8,417,030

1. Includes \$75,000 of FY05 funds.
2. Represents a reprogramming of funds out of LIS DMMP account.

## **LONG ISLAND SOUND REGIONAL DREDGING TEAM**

### Purpose

As described above, the site designation rule contemplated that a Regional Dredging Team would be established to review dredging proponents' alternative analyses to ensure that the proponents conducted a comprehensive analysis for practicable alternatives to open-water dredged material disposal and recommend their use to the maximum extent practicable, to ensure progress toward reducing or eliminating open-water disposal in Long Island Sound pending completion of the DMMP. The following excerpt from the RDT guidance describes its primary function:

The RDT is charged with reviewing all permit applications and authorizations subject to the ... site designation rule restrictions and is not precluded from voluntarily providing advice to any other dredging project to help achieve the goal of reducing or eliminating the need for open water disposal in Long Island Sound. The RDT will work to identify all practicable alternatives to open water disposal and to advise regarding their use to the maximum extent practicable. Further, those identified practicable alternative use opportunities will be advanced through the appropriate state and federal authorities. All agencies will retain their respective final regulatory decision-making authority and regulatory time frames for project review.

In July 5, 2006, EPA, USACE, NOAA, and the states agreed to form an RDT and assigned representatives. The RDT began drafting a charter to describe the procedures the RDT would use to review the alternatives analyses developed by dredging project proponents, determine the adequacy of the analyses, and make recommendations on alternative dredged material placement options that should be considered by the USACE and other regulatory agencies. The RDT charter was approved by the Steering Committee in March 2007. The charter describes how the RDT will enhance communication and discussion among the participating agencies to facilitate the timely review and presentation of recommendations on the placement of dredged material from Long Island Sound dredging projects. Through the review process, the RDT will become aware of possible alternatives to open-water disposal that it can communicate to potential applicants as well as appropriate state and federal authorities.

### Current Status

During this reporting period one meeting was held on February 21, 2013 to discuss the New Haven FNP project.



## DREDGED MATERIAL DISPOSAL IN LONG ISLAND SOUND

It is the stated goal of the states of Connecticut and New York to reduce or eliminate the disposal of dredged material in Long Island Sound. To determine if this goal is being met will require measuring and tracking the amount of dredged material being disposed of or placed in the Sound and other locations. Currently, most open-water disposal in the Sound occurs at one of the four dredged material disposal sites in the Sound: Western Long Island Sound (WLDS), Central Long Island Sound (CLDS), Cornfield Shoals (CSDS), and New London (NLDS).

Alternatives include: upland placement or disposal; beach nourishment (depositing sand on or near an eroding beach); habitat restoration (e.g., depositing dredged material in sub-tidal areas to raise elevation and restore or create wetlands); confined aquatic disposal (CAD) cells (depositing unsuitable dredged material in a pit excavated below the floor of the harbor or navigation channel, and covering with clean material); and confined disposal facilities (using dredged material to increase the size of or create islands, e.g., to expand port facilities). Some of these alternatives, including beach nourishment, habitat creation/restoration, and capping (for both upland and aquatic habitat remediation purposes, in certain circumstances) are considered beneficial to the environment (i.e., beneficial uses). The following excerpt from the RDT guidance describes this process:

The RDT will track and document the volume of dredged material approved for open water disposal as well as other alternative disposal methods, and submit this information for inclusion in the annual report on progress of the DMMP. This information will be part of the annual report on the progress of the DMMP to be issued by the EPA.

EPA is complying with this guidance by working with the RDT to compile dredged material disposal records on an annual basis, and reporting these data in an annual report for a one-year period ending July 5 each year. The data in the annual report will be compared with dredged material disposal data from all disposal activity in Long Island Sound averaged over the period from 1982-2004. It should be noted that the tracking of these beneficial uses of dredged material has been difficult since USACE permits are not required for placement of material outside of the waters of the United States. Although State permits are granted for this placement these permits are multi-year approvals and proponents do not always report to the state actions that have occurred in a given year. For these reasons it is believed that the volumes reported for beneficial use may be low compared to actual beneficial use projects. This is the eighth annual report.

Dredged Material Disposal in Long Island Sound, 1982-2004 (in cubic yards [c.y.]

Disposal Site	Total Dredged Material Disposal	Avg. Annual Dredged Material Disposal
NLDS	3,069,546	133,459
CSDS	1,295,998	56,348
CLIS	8,019,678	348,682
WLIS	1,870,921	81,344
Totals	14,256,143	619,833

Overall, there was a total of 355,100 c.y. of dredged material generated in the Long Island Sound vicinity for the period July 6, 2012- July 5, 2013, of which:

- 255,700 c.y. were disposed at open-water disposal sites in Long Island Sound;
- 0 c.y. were placed at containment sites; and
- 99,400 c.y. were used beneficially.

Recent Dredged Material Disposal in Long Island Sound Compared with Historic Averages  
(in cubic yards [c.y.]

Disposal Site	Avg. Annual Dredged Material Disposal	2011	2012	2013	Change from Previous Reporting Period (2012) c.y.	Change from Historic Average (1982-2004) c.y.
NLDS	133,459	0	0	19,100	19,100	-114,359
CSDS	56,348	41,460	31,500	72,600	41,100	16,252
CLDS	348,682	84,940	84,500	122,600	38,100	-226,082
WLDS	81,344	28,910	27,008	41,400	14,392	-39,944
Totals	619,833	155,310	143,008	255,700	112,692	-364,133

Of the 255,700. c.y. disposed in the Sound:

- 122,600 c.y. went to CLDS (vs. historical annual average of 348,682 c.y.);
- 41,400 c.y. went to WLDS (vs. historical annual average of 81,344 c.y.);
- 19,100 c.y. went to NLDS (vs. historical annual average of 133,459 c.y.); and
- 72,600 c.y. went to CSDS (vs. a historical annual average of 56,348 c.y.).

Of the 255,700 c.y. disposed in the Sound 220,200 c.y. came from private projects.

The average annual amount of dredged material disposed at the four open-water sites in the Sound from 1982-2004, was 619,833 c.y. For the period July 6, 2012 - July 5, 2013, there was a total disposed of 255,700 c.y., which is a decrease of 364,133 c.y. For further details, see Appendix D.

While there is generally some variability from one year to the next in the amount of dredged material disposed of in the Sound, there are many factors influencing this variability. Regardless, it is too early to determine any kind of long-term trend. The amount of dredged material disposed in the Sound during the current reporting period of July 6, 2012 - July 5, 2013, was more than the amount disposed during the prior reporting period of July 6, 2011 - July 5, 2012 (255,700 c.y. vs. 143,008 c.y. respectively); this appears to have resulted from variability in the size of projects and funding rather than from any difference in analysis of alternatives.

EPA will continue to report on an annual basis about the LIS RDT deliberations as well as each dredging project that was completed in the preceding year, including the name of the applicant, the

alternatives that were evaluated, the volume of dredged material, and its final placement or disposal location.

For further information, please contact:

Jean Brochi  
US Environmental Protection Agency  
5 Post Office Square, Suite 100  
Mail Code OEP06-1  
Boston, MA 02119-3912  
Telephone: (617) 918-1536  
Fax: (617) 918-0536  
[brochi.jean@epa.gov](mailto:brochi.jean@epa.gov)

Appendix A

LONG ISLAND SOUND DREDGED MATERIAL MANAGEMENT PLAN STEERING COMMITTEE		
AGENCY	MEMBER	ALTERNATE
NOAA	Lou Chiarella Assistant Regional Administrator Habitat Conservation Division 978-281-9277 <a href="mailto:Lou.Chiarella@noaa.gov">Lou.Chiarella@noaa.gov</a>	Christopher Boelke Field Offices Supervisor Habitat Conservation Division 978-281-9131 <a href="mailto:christopher.boelke@noaa.gov">christopher.boelke@noaa.gov</a>
USACE North Atlantic Division (NAD)	David Leach, Director Programs Directorate 347-370-4629 <a href="mailto:david.j.Leach@usace.army.mil">david.j.Leach@usace.army.mil</a>	Joe Vietri, Chief Planning Division 718-765-7070 <a href="mailto:joseph.r.vietri@usace.army.mil">joseph.r.vietri@usace.army.mil</a>
USACE New England District (NAE)	Bill Scully, Deputy District Engineer for Programs and Project Management 978-318-8230 <a href="mailto:william.c.scully@usace.army.mil">william.c.scully@usace.army.mil</a>	TBD
USACE New York District (NAN)	Joe Seebode, Deputy District Engineer for Programs and Project Management 917-790-8207 <a href="mailto:Joseph.j.seebode@usace.army.mil">Joseph.j.seebode@usace.army.mil</a>	TBD
EPA Region II	Jeff Gratz, Deputy Director Clean Water Division 212-637-3873 <a href="mailto:gratz.jeff@epa.gov">gratz.jeff@epa.gov</a>	Kate Anderson, Chief Clean Water Regulatory Branch Clean Water Division 212-637-3754 <a href="mailto:Anderson.kate@epa.gov">Anderson.kate@epa.gov</a>
New York State Dept. of State	Jeff Herter, Assistant Chief Bureau of Natural Resource Management 518 486-7942 <a href="mailto:Jeff.Herter@dos.ny.gov">Jeff.Herter@dos.ny.gov</a>	George Stafford Deputy Secretary of State for Coastal Resources 518-473-2459 <a href="mailto:gstaffor@dos.state.ny.us">gstaffor@dos.state.ny.us</a>
New York State Dept. of Environmental Conservation	James Gilmore, Chief Bureau of Marine Resources 631-444-0430 <a href="mailto:jgilmor@gw.dec.state.ny.us">jgilmor@gw.dec.state.ny.us</a>	Dawn McReynolds, Section Head Marine Habitat Bureau of Marine Resources 631-444-0452 <a href="mailto:dxmcreyn@gw.dec.state.ny.us">dxmcreyn@gw.dec.state.ny.us</a>
Connecticut Dept. of Energy and Environmental Protection	Betsey Wingfield, Chief Bureau of Water Management 860-424-3704 <a href="mailto:betsey.wingfield@po.state.ct.us">betsey.wingfield@po.state.ct.us</a>	Brian Thompson, Director Office of Long Island Sound Programs (860) 424-3034 <a href="mailto:brian.thompson@po.state.ct.us">brian.thompson@po.state.ct.us</a>
Rhode Island Coastal Management Resource Council	Jeff Willis 401-783-3370 <a href="mailto:jwillis@crmc.ri.gov">jwillis@crmc.ri.gov</a>	Dan Goulet 401-783-3370 <a href="mailto:dgoulet@crmc.state.ri.gov">dgoulet@crmc.state.ri.gov</a>

## Appendix B

LONG ISLAND SOUND DREDGED MATERIAL MANAGEMENT PLAN PROJECT DELIVERY TEAM		
AGENCY	MEMBER	MEMBER
USACE New England District (NAE)	Mike Keegan 978-318-8087 <a href="mailto:michael.f.keegan@usace.army.mil">michael.f.keegan@usace.army.mil</a>	Mark Habel 978-318-8871 <a href="mailto:mark.l.habel@usace.army.mil">mark.l.habel@usace.army.mil</a>
USACE New York District (NAN)	Nancy Brighton 917-790-8703 <a href="mailto:Nancy.j.brighton@usace.army.mil">Nancy.j.brighton@usace.army.mil</a>	TBD
EPA Region I	Mel Cote 617-918-1553 <a href="mailto:cote.mel@epa.gov">cote.mel@epa.gov</a>	Jean Brochi 617-918-1536 <a href="mailto:brochi.jean@epa.gov">brochi.jean@epa.gov</a>
EPA Region II	Doug Pabst 212-637-3797 <a href="mailto:pabst.douglas@epa.gov">pabst.douglas@epa.gov</a>	Patricia Pechko 212-637-3796 <a href="mailto:pechko.patricia@epa.gov">pechko.patricia@epa.gov</a>
NOAA - National Marine Fisheries Service	Christopher Boelke 978-281-9131 <a href="mailto:christopher.boelke@noaa.gov">christopher.boelke@noaa.gov</a>	TBD
New York State Dept. of State	Jennifer Street 518-474-1737 <a href="mailto:Jennifer.Street@dos.state.ny.us">Jennifer.Street@dos.state.ny.us</a>	Jeff Herter 518- 486-7942 <a href="mailto:Jeff.Herter@dos.ny.gov">Jeff.Herter@dos.ny.gov</a>
New York State Dept. of Environmental Conservation	John Ferguson 518-402-8829 <a href="mailto:jifergus@gw.dec.state.ny.us">jifergus@gw.dec.state.ny.us</a>	TBD
Connecticut Dept. of Energy and Environmental Protection	George Wisker 860-424-3034 <a href="mailto:george.wisker@po.state.ct.us">george.wisker@po.state.ct.us</a>	William Sigmund 860-418-5924 <a href="mailto:William.Sigmund@ct.gov">William.Sigmund@ct.gov</a>
Connecticut Dept. of Transportation	Joe Salvatore 860-594-2539 <a href="mailto:joseph.salvatore@po.state.ct.us">joseph.salvatore@po.state.ct.us</a>	TBD
Rhode Island Coastal Resources Management Council	Dan Goulet 401-783-3370 <a href="mailto:dgoulet@crmc.state.ri.gov">dgoulet@crmc.state.ri.gov</a>	TBD

## Appendix C

LONG ISLAND SOUND REGIONAL DREDGING TEAM		
AGENCY	MEMBER	MEMBER
USACE North Atlantic Division (NAD)	James Haggerty 347-370-4650 <a href="mailto:james.w.haggerty@usace.army.mil">james.w.haggerty@usace.army.mil</a>	Only one member on RDT According to RDT Charter
USACE New England District (NAE)	Robert Desista (Current RDT Chair) 978-318-8879 <a href="mailto:robert.j.desista@usace.army.mil">robert.j.desista@usace.army.mil</a>	Jay Mackay 978-318-8142 <a href="mailto:joseph.b.mackay@usace.army.mil">joseph.b.mackay@usace.army.mil</a>
USACE New York District (NAN)	Stephen Ryba 917-790-8411 <a href="mailto:Stephen.Ryba@usace.army.mil">Stephen.Ryba@usace.army.mil</a>	Alexander Gregory 917-790-8411 <a href="mailto:Alexander.Gregory@usace.army.mil">Alexander.Gregory@usace.army.mil</a>
EPA Region I	Jean Brochi 617-918-1536 <a href="mailto:brochi.jean@epa.gov">brochi.jean@epa.gov</a>	Mel Cote 617-918-1553 <a href="mailto:cote.mel@epa.gov">cote.mel@epa.gov</a>
EPA Region II	Patricia Pechko 212-637-3796 <a href="mailto:pechko.patricia@epa.gov">pechko.patricia@epa.gov</a>	Doug Pabst 212-637-3797 <a href="mailto:pabst.douglas@epa.gov">pabst.douglas@epa.gov</a>
NOAA National Marine Fisheries Service	Christopher Boelke 978-281-9131 <a href="mailto:christopher.boelke@noaa.gov">christopher.boelke@noaa.gov</a>	Only one member on RDT According to RDT Charter
New York Dept. of State	Jennifer Street 518-474-1737 <a href="mailto:Jennifer.Street@dos.state.ny.us">Jennifer.Street@dos.state.ny.us</a>	Only one member on RDT According to RDT Charter
New York State Dept. of Environmental Conservation	Charles de Quillfeldt 631-444-0439 <a href="mailto:cxdequill@gw.dec.state.ny.us">cxdequill@gw.dec.state.ny.us</a>	Only one member on RDT According to RDT Charter

Connecticut Dept. of Energy and Environmental Protection	George Wisker 860-424-3034 <a href="mailto:george.wisker@po.state.ct.us">george.wisker@po.state.ct.us</a>	William Sigmund 860-418-5924 <a href="mailto:William.Sigmund@ct.gov">William.Sigmund@ct.gov</a>
--	---	---

		CONNECTICUT			NEW YORK			Total All Projects and States
		Federal (Corps) Navigation Projects	Other Federal Projects	Private Permit Activities	Federal (Corps) Navigation Projects	Other Federal Projects	Private Permit Activities	
<b>Disposal Sites and Methods</b>								
<b>Open Water Disposal</b>								
	CLDS	0	0	122,600	0	0	0	122,600
	WLDS	0	0	41,400	0	0	0	41,400
	NLDS	0	0	19,100	0	0	0	19,100
	CSDS	35,500	0	37,100	0	0	0	72,600
<b>Confined Disposal</b>								
	CAD Cells	0	0	0	0	0	0	0
	Upland Containment	0	0	0	0	0	0	0
	Landfill	0	0	0	0	0	0	0
<b>Beneficial Use</b>								
	CAD Cap	0	0	0	0	0	0	0
	Beach/Bar Nourishment	99,400	0	0	0	0	0	99,400
	Habitat Creation/Enhance	0	0	0	0	0	0	0
	Brownfield Remediation	0	0	0	0	0	0	0
<b>Treated Dredged Material</b>								
	Upland Disposal	0	0	0	0	0	0	0
	Commercial Use	0	0	0	0	0	0	0
<b>TOTAL ALL DISPOSAL</b>		<b>134,900</b>	<b>0</b>	<b>220,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>355,100</b>

Appendix D

Long Island Sound Annual Dredging Report - for the Dredging Year Ending July 5, 2013

