

Weekly Field Report
Week: 03-16-14 through 03-22-14
New Bedford Harbor Lower Harbor CAD Cell (LHCC)

This Weekly Field Report was prepared to serve as a summary of field activities conducted throughout the week for Phase I dredging of the New Bedford Harbor Lower Harbor CAD Cell (LHCC) in New Bedford, Massachusetts.

1. Introduction:

The weekly field report describes the activities carried out by the Contractor (Cashman/Tripp Marine), the Owner's Representative (Apex Companies, LLC), and any subcontractors completing work within the scope of the project requirements.

This Weekly Field Report represents the twentieth Report associated with Phase I dredging of the LHCC in New Bedford Harbor, and the associated handling and disposal of dredged materials at CAD cells within the Harbor, and at designated open-water disposal sites approved for this Project.

This 20th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of March 16th through March 22nd, 2014. These reports include notes on the equipment used on site, and a summary of contractor activities. (See Attachment 1);
- Water Quality Monitoring Forms completed for the week of March 16th through March 22nd, 2014, (Attachment 2) summarizing monitoring survey data recorded during active dredging. Included with the attached forms is Figure 1 Lower Harbor CAD Cell Phase I Water Quality Monitoring Plan, which shows the locations of the water quality monitoring events conducted during this reporting period. Per the approved Water Quality Monitoring Plan and associated performance standards for the dredging efforts being conducted during this reporting period, Apex has:
 - Conducted water quality monitoring a minimum of one day per week
 - Performed visual inspections of dredged materials before the disposal of a scow for any visible debris or other items that could potentially become a hazard to navigation prior to the scow's departure for the offshore disposal site.

Summary:

The Contractor, Cashman Dredging and Marine Contracting, Co. LLC (Cashman) conducted dredging at the LHCC on March 17th, 18th, 19th, 20th, 21st, and 22nd. Dredging operations focused on the removal of Phase I Bottom of CAD Cell sediments. During this reporting period, dredging operations were conducted using a conventional digging bucket, with dredged materials being disposed offshore at the Rhode Island Sound Disposal Site (RISDS). Cashman was observed conducting these activities during the authorized operational window of 7AM until sunset, utilizing a single dredge plant – the Bobby D; two tugs – Ellsea and Lucinda Smith; a 2800 cubic yard split scow – Eddie Carroll; and two small utility boats.

With time of year restrictions now in place (January 15th through June 15th) all dredging activities were conducted within a silt curtained perimeter surrounding the LHCC.

2. Operational Notes:

Dredging:

Dredging of LHCC Phase I Bottom of CAD sediments continued during the week. Apex conducted one day of water quality monitoring on March 20th while dredging was being performed to ensure that this activity did not result in an exceedance of any project-specific water quality standards.

Offshore Disposal:

Offshore disposal for LHCC Phase I Bottom of CAD sediments is scheduled and permitted for the Rhode Island Sound Disposal Site. Five offshore disposal events, using the split scow Eddie Carroll, were recorded during the week and occurred on March 16th, 17th, 18th, 20th, and 21st.

Table 1 – Cumulative Dredging Progress

Period of Activity	Volume (cy)
Approximate Top of CAD Volume Dredged to Date*	24,890
Approximate Bottom of CAD Volume Dredged this Reporting Period	7,300
Approximate Bottom of CAD Volume Dredged to Date*	28,000

* Dredge volume quantities are estimated based on observed scow draft marks and an assumed density of the materials dredged. Given the uncertainty in the density of a composite mix of sediments being dredged, all volumes are confirmed and adjusted as necessary using bathymetric survey data.

3. Monitoring Summary

There were no water quality exceedances observed during this reporting period related to dredging operations. No water quality samples were collected.

Prepared by:
Apex Companies, LLC



John B. McAllister, P.E.
Senior Project Engineer

Attachment 1
Daily Inspection Reports



City of New Bedford Harbor Development Commission

New Bedford Harbor USEPA Lower Harbor CAD Cell

CFDA No.: 66.802

Inspection Report

Inspector: Adam Hart

Date: 03/16/2014

Contractor: Cashman/Weeks

Foreman/Supt: Dave Norton

Weather AM: Clear Temperature AM: 28
PM: Clear PM: 39

Tides High 829 AM 2048 PM
Low 154 AM 1411 PM

Manpower Onsite

Engineer 0 @ 0 Hrs
Operators 0 @ 0 Hrs
Mate 0 @ 0 Hrs
Deckhand 0 @ 0 Hrs
Captains 1 @ 0 Hrs
Other: Mechanic 1 @ 0 Hrs

Equipment Onsite

Description: Bobby D. Hrs. 0
Eddie Carroll Hrs. 0
Ellsea Hrs. 0
Lucinda Smith Hrs. 1
SEI 2000 Hrs. 0
Grey Skiff Hrs. 2

Contractor Activities: (Attach Additional Sheets as Necessary)

638 Captain Dave Norton takes the grey skiff up north from Shuster's bulkhead to pick up a mechanic and go to the dredge plant Bobby D.
912 Captain Norton and mechanic are on the dredge plant Bobby D. repairing the spud motor/winch. 1000 Tug boat Lucinda Smith ties to the scow Eddie Carroll. 1023 Tug boat Lucinda Smith and the scow Eddie Carroll pass south through the bridge in route for an offshore disposal. 1430 Mechanic is dropped off at dock with grey skiff. 1453 Captain Dave Norton offsite. All equipment is inactive.

Visitors: _____

Signature: 

Title: Environmental Technician

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Date: 03/16/2014

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File: DIR_LHCC_031214



City of New Bedford Harbor Development Commission

New Bedford Harbor USEPA Lower Harbor CAD Cell

CFDA No.: 66.802

Inspection Report

Inspector: Chris Stillman, Adam Hart

Date: 3/17/2014

Contractor: Cashman

Foreman/Supt: Dave Norton

Weather	AM:	<u>Overcast</u>	Temperature	AM:	<u>18</u>
	PM:	<u>Partly Cloudy</u>		PM:	<u>31</u>
Tides	High	<u>0904</u>	AM	<u>2124</u>	PM
	Low	<u>0233</u>	AM	<u>1442</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>9</u>	Hrs
Operators	<u>1</u>	@	<u>9</u>	Hrs
Laborers	<u>2</u>	@	<u>9</u>	Hrs
Drivers	<u>1</u>	@	<u>9</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>9</u>
	<u>Eddie Carroll</u>	Hrs.	<u>9</u>
	<u>Ellsea</u>	Hrs.	<u>5</u>
	<u>Lucinda Smith</u>	Hrs.	<u>2</u>
	<u>Red Skiff</u>	Hrs.	<u>9</u>
		Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0630- The tug Ellsea brings the split scow Eddie Carroll to the dredge plant Bobby D. 0730- Seafuels inside silt curtain refueling the dredge plant. 0847- Seafuels leaves CAD cell area, red skiff closes curtain. 0852- Bobby D takes first bucket of the day. 0924- Bobby D stops dredging, shifts north to new cut. 0932- Dredging resumes. 1058 Dredge plant Bobby D. lifts spuds to reposition, tug boat Ellsea pushes the Bobby D. to the north. 1105- Dredge plant Bobby D. lowers spuds and resumes dredging. 1110- Crew unties the scow Eddie Carroll from the dredge plant Bobby D. to reposition the scow alongside. 1245- Tug boat Ellsea repositions the dredge plant Bobby D.. Scow Eddie Carroll has run a ground. 1330- Red skiff opens the silt curtain. 1334- Tug boat Lucinda Smith ties to the scow Eddie Carroll to help reposition. 1347- Tug boat Lucinda Smith leaves the silt curtain. 1351 Spuds are lowered on the dredge plant Bobby D. 1407- Dredging resumes. 1527- Dredge plant Bobby D. lifts one spud and has the tug boat Ellsea pull the scow Eddie Carroll's stern south. 1544- Dredging resumes. 1727- Dredge plant Bobby D. is washing off the scow Eddie Carroll. 1739- Captain Dave Norton is taking over dredging operations for the operator. 1741- Dredging resumes. 1820- Dredge plant Bobby D. begins washing off the scow Eddie Carroll. Tug boat Lucinda Smith unties from the SEI 2000 and heads toward silt curtain 1821- The red skiff opens the silt curtain. The scow Eddie Carroll is inspected and cleared for offshore disposal. 1823- Dredge plant Bobby D. stops washing off the scow. Ending draft 9.5' - 10'. Tug boat Ellsea goes to the east side of the scow Eddie Carroll. 1830- Tug boat Lucinda Smith ties to the scow Eddie Carroll. 1852- Bobby D.'s crew is offsite. Red skiff goes to pick up tug boat Ellsea's crew. 1904- Tug boat Lucinda Smith and scow Eddie Carroll head south through the bridge for RI offshore disposal.

Problems/Issues or Action Items:

Visitors:

Signature: 
Title: Environmental Technician
Copy to: File

Date: 3/17/14
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File: DIR_LHCC_031714



City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802

Inspection Report

Inspector: Brett Young **Date:** 03/18/2014

Contractor: Cashman **Foreman/Supt.:** Dave Norton

Weather AM: Clear **Temperature** AM: 22
 PM: Clear PM: 36

Tides High 0942 AM 2202 PM
 Low 0310 AM 1515 PM

Manpower Onsite

Engineer 1 @ 12 Hrs
 Operators 1 @ 12 Hrs
 Mate 1 @ 12 Hrs
 Deckhand 1 @ 12 Hrs
 Captains 1 @ 12 Hrs
 Other: _____ @ _____ Hrs

Equipment Onsite

Description: Bobby D Hrs. 12
Eddie Carroll Hrs. 12
Elsea Hrs. 8
Lucinda Smith Hrs. 12
Red Skiff Hrs. 12
 _____ Hrs. _____

Contractor Activities: (Attach Additional Sheets as Necessary)

0632- The Elsea moves the Bobby D into a new position. 0642- The Elsea exits the silt curtain and goes south to make the 0700 bridge opening. 0704- The Bobby D repositions 20' east. 0710- The Lucinda Smith brings the Eddie Carroll north of the bridge. 0722- The Eddie Carroll ties up to the Bobby D. 0728- Lucinda Smith exits the silt curtain and ties up to the Richie Barber. 0734- The silt curtain is closed. 0736- The Bobby D begins dredging into the Eddie Carroll. 0835- The Bobby D is dredging into the Eddie Carroll at cuts 6, 8, & 10 station 6+92, depth 13'. 0912- The Bobby D stops dredging to reposition and adjust scow. 0930- The Bobby D resumes dredging at cut 6 station 6+72, depth 7'. 1015- The Bobby D is dredging cuts 6 & 10 station 6+69, depth 13'. 1038- The Bobby D stops dredging to reposition and adjust scow. 1040- The silt curtain is opened, Elsea enters. 1045- The silt curtain is closed. 1050- The Bobby D resumes dredging at cut 10 station 6+57, depth, 13'. 1446- The Bobby D stops dredging to reposition. 1153- The Bobby D resumes dredging at cut 10 station 6+43, depth 14'. 1255- The Bobby D stops dredging to reposition scow with assistance from Elsea. 1305- Silt curtain is opened for Lucinda Smith. 1315- Silt curtain is closed, Bobby D and Elsea were able to complete move without help from Lucinda Smith. 1317- The Bobby D resumes dredging at cut 10 station 6+04, depth 6'. 1400- The Bobby D is dredging at cuts 5 & 10 station 5+89, depth 8'. 1416- The Eddie Carroll is drafting; bow-10', stern-11.5'. 1432- The Bobby D stops dredging and repositions. 1441- The Bobby D resumes dredging at cuts 5 & 10 station 5+91, depth 10'. 1500- The Bobby D stops dredging. 1509- The silt curtain is opened and the Lucinda Smith enters. 1516- Lucinda Smith pulls Eddie Carroll outside the silt curtain. 1524- Lucinda Smith and Elsea spin the Eddie Carroll 180 degrees. 1545- Eddie Carroll ties up to the Bobby D. 1547- Lucinda Smith exits the silt curtain. 1550- The silt curtain is closed. 1552- The Bobby D resumes dredging at cut 10 station 5+91, depth 10'. 1627- The Bobby D stops dredging to adjust the scow. 1632- The Bobby D resumes dredging. 1715- The Bobby D is dredging at cut 5 station 5+85, depth 14'. 1725- The Bobby D repositions and is dredging at cut 5 station 7+70, depth 15'. 1730- The Bobby D stops dredging. 1732- The Eddie Carroll is inspected and cleared for offshore disposal. 1736- The silt curtain is opened for the Lucinda Smith. 1745- The Lucinda Smith ties up to the Eddie Carroll. Final drafts; bow-10', stern-12'. 1750- Lucinda Smith takes the Eddie Carroll out of the silt curtain and waits for 1815 bridge opening. 1815- Lucinda Smith takes the loaded Eddie Carroll southbound through the bridge for offshore disposal. Bobby D crew is offsite. No further activity for the day.

Problems/Issues or Action Items:

Visitors:

Signature: Brett Young
 Title: Environmental Scientist
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Date: 03/18/2014
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City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802

Inspection Report

Inspector: Chris Stillman, Adam Hart

Date: 3/19/2014

Contractor: Cashman

Foreman/Supt: Dave Norton, Junior Hudgins

Weather	AM:	<u>Clear</u>	Temperature	AM:	<u>19</u>
	PM:	<u>Overcast</u>		PM:	<u>44</u>
Tides	High	<u>1023</u>	AM	<u>2244</u>	PM
	Low	<u>0346</u>	AM	<u>1549</u>	PM

Manpower Onsite

Foreman	<u>2</u>	@	<u>3</u>	Hrs
Operators	<u>1</u>	@	<u>3</u>	Hrs
Laborers	<u>2</u>	@	<u>3</u>	Hrs
Drivers	<u>1</u>	@	<u>3</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>3</u>
	<u>Eddie Carroll</u>	Hrs.	<u>3</u>
	<u>Ellsea</u>	Hrs.	<u>2</u>
	<u>Lucinda Smith</u>	Hrs.	<u>1</u>
	<u>Red Skiff</u>	Hrs.	<u>3</u>
		Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

1320- Tug boat Ellsea is waiting for the next bridge opening to pass north. 1338- Tug boat Lucinda Smith and scow Eddie Carroll enter the New Bedford harbor. 1403- Dredge plant Bobby D. crew is working on the excavator. Tug boat Ellsea is tied to the dredge plant Bobby D. 1422- Tug boat Lucinda Smith and scow Eddie Carroll head north through the bridge. 1434- Scow Eddie Carroll is tied to the dredge plant Bobby D. 1445- Tug boat Lucinda Smith leaves the silt curtain and heads toward the staging area. Red skiff closes the silt curtain. 1450- Tug boat Ellsea pushes the dredge plant Bobby D. into position. 1502- Dredge plant Bobby D. begins dredging into the scow Eddie Carroll- Starting draft of 4.5' -5'. 1545- Captain Dave Norton is testing the scow Eddie Carroll's remote system. 1645- Scow Eddie Carroll has run aground. 1731- Scow Eddie Carroll is no longer aground. Dredge plant Bobby D. shuts down for the day, dredging will continue on 3/20/14 at approximately 0700 into the scow Eddie Carroll. Draft as of 1731 -6.5' - 7'.

Problems/Issues or Action Items:

Visitors:

Signature: 
Title: Environmental Technician

Date: 3/19/14
Page: 1 of 1

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City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802
Inspection Report

Inspector: Mark Martinho

Date: 3/20/2014

Contractor: Cashman

Foreman/Supt: Dave Norton, Junior Hudgins

Weather	AM:	<u>Drizzle</u>	Temperature	AM:	<u>46</u>
	PM:	<u>Overcast</u>		PM:	<u>52</u>
Tides	High	<u>1116</u>	AM	<u>2336</u>	PM
	Low	<u>na</u>	AM	<u>1620</u>	PM

Manpower Onsite

Foreman	<u>2</u>	@	<u>12</u>	Hrs
Operators	<u>1</u>	@	<u>12</u>	Hrs
Laborers	<u>2</u>	@	<u>12</u>	Hrs
Drivers	<u>1</u>	@	<u>12</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite


Description:	<u>Bobby D</u>	Hrs.	<u>12</u>
	<u>Eddie Carroll</u>	Hrs.	<u>12</u>
	<u>Ellsea</u>	Hrs.	<u>12</u>
	<u>Lucinda Smith</u>	Hrs.	<u>12</u>
	<u>Red Skiff</u>	Hrs.	<u>12</u>
		Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0740 - Dredging is underway. Onsite are 6 Cashman crew. Eddie Carroll (EC) is drafting at 6'. 0810- Tom (Bobby D operator) stops bucket on deck for visual inspection of material. Material is observed to be grey fine to coarse SAND, trace silt. This observation remains constant throughout the day. The dredging rate is steady at 1.5 -2 buckets per minute when uninterrupted. The majority of buckets are noted to be > half full and <10% H2O. The dredging mostly took place in the Southeast corner of the enclosed dredging perimeter in cut 4. Dredging was halted for about an hour and a half from 0828 -1000, for a tech crew to replace a desktop computer in the office trailer. This was necessary to show bucket locator to Operator and Captain. 1220- Lucinda Smith tug (LS) moved the 2000 scow to the east side of the dewatering area in order to access the Winslow scow. The Winslow was then moved to the West side of the Ritcie Barber and 4 crew began to shovel deck and wash down inside of scow to prepare for transport offsite (demob). At 1440 the drafts of the EC were noted to be: bow- 10', stern-11'. WQM for LHCC began at 0800 and continued every 2 hours until work stopped. The EC finished dredging and was taken south of bridge for disposal in RI at 1630.

Problems/Issues or Action Items:

Visitors:

Signature: 
 Title: Environmental Technician
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Date: 3/20/14
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City of New Bedford Harbor Development Commission

New Bedford Harbor USEPA Lower Harbor CAD Cell

CFDA No.: 66.802

Inspection Report

Inspector: Mark Martinho, Brett Young

Date: 3/21/2014

Contractor: Cashman

Foreman/Supt: Dave Norton, Junior Huggins

Weather	AM: <u>Mostly sunny</u>	Temperature	AM: <u>36</u>
	PM: <u>Overcast</u>		PM: <u>43</u>
Tides	High <u>-</u> AM <u>1204</u> PM		
	Low <u>0455</u> AM <u>1705</u> PM		

Manpower Onsite

Foreman	<u>2</u>	@	<u>12</u>	Hrs
Operators	<u>1</u>	@	<u>12</u>	Hrs
Laborers	<u>2</u>	@	<u>12</u>	Hrs
Drivers	<u>1</u>	@	<u>12</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>12</u>
	<u>Eddie Carroll</u>	Hrs.	<u>12</u>
	<u>Ellsea</u>	Hrs.	<u>12</u>
	<u>Lucinda Smith</u>	Hrs.	<u>12</u>
	<u>Red Skiff</u>	Hrs.	<u>12</u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0735 The Eddie Carroll goes northbound through bridge and ties to the North side of the Bobby D inside the LHCC perimeter. Onsite are 6 Cashman crew. Eddie Carroll is empty drafting at 4.5'. 0740-Junior Huggins (captain) is informed of break in silt fence on Northern border of LHCC. He sends 3 crew in red skiff to fix it before dredging begins. During this time survey 4 is in the area getting data for dredge crew. 0825 Dredging begins. 0840 The material is observed to be grey fine to coarse SAND, trace silt. This observation remains constant throughout the day, some trace clay is also observed. The dredging rate is steady at 1.5 -2 buckets per minute when uninterrupted. The majority of buckets are noted to be > half full and <20% H2O. The dredging mostly took place in the Southeast corner of the enclosed dredging perimeter in cuts 5 & 10. 0910 The bucket location was 815230, 2696728, station 6+14. The winds picked up to 20-25 mph from the west in the late morning, work rate slowed down for a couple of hours. 1240 The drafts of the Eddie Carroll were noted to be: bow- 6', stern-6.5'. 1445 The Bobby D stops dredging to reposition. 1457 The Bobby D resumes dredging in cuts 5, 8, and 10 station 6+50. 1632 The Bobby D stops dredging to reposition with assistance from Ellsea. 1654 The Bobby D resumes dredging in cut 10 station 6+58. 1730 The Lucinda Smith ties up to the Richie Barber. 1825 The Bobby D stops dredging to water down the side of the scow. 1827 The Bobby D stops watering the scow and puts the bucket on the deck. The silt curtain is then opened. 1828 The Eddie Carroll is inspected and cleared for offshore disposal. 1830 The Lucinda Smith ties up to the Eddie Carroll and takes it out of the silt curtain. Final drafts on the Eddie Carroll are; bow-8.5', stern-10'. 1900 The Lucinda Smith makes the 1900 bridge opening heading southbound for offshore disposal.

Problems/Issues or Action Items:

Visitors:

Signature: 
Title: Environmental Technician
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Date: 3/21/14
Page: 1 of 1
File: DIR_LHCC_032114



**City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802**

Inspection Report

Inspector: Kaios Ryan, Adam Hart **Date:** 03/22/2014

Contractor: Cashman/Weeks **Foreman/Supt:** Junior Huggins


Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>30</u>
	PM:	<u>Cloudy</u>		PM:	<u>55</u>
Tides	High	<u>0028</u>	AM	<u>1255</u>	PM
	Low	<u>0548</u>	AM	<u>1754</u>	PM

Manpower Onsite	Equipment Onsite
Engineer <u>1</u> @ <u>10.5</u> Hrs	Description: <u>Bobby D.</u> Hrs. <u>10.5</u>
Operators <u>1</u> @ <u>10.5</u> Hrs	<u>Lucinda Smith</u> Hrs. <u>2</u>
Mate <u>1</u> @ <u>10.5</u> Hrs	<u>Eddie Carroll</u> Hrs. <u>10.5</u>
Deckhand <u>1</u> @ <u>10.5</u> Hrs	<u>Ellsea</u> Hrs. <u>4</u>
Captains <u>1</u> @ <u>10.5</u> Hrs	<u>Red skiff</u> Hrs. <u>10.5</u>
Other: _____ @ _____ Hrs	<u>Survey 4</u> Hrs. <u>1</u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0556 no activity on site. 0710 the Lucinda Smith and the Eddie Carroll go through the 0700 bridge opening north bound and head toward the dredge area. 0717 Ellsea and the Lucinda Smith help tie the Eddie Carroll to the Bobby D. 0721 the silt curtain is closed. 0725 the Bobby D. begins dredging into the Eddie Carroll at cuts 5 and 10 station 7 + 72. The Eddie Carroll is drafting at 4'. 0856 Bobby D. is still dredging into the Eddie Carroll in cuts 5 and 10, station 7 + 78, and drafting at 5 .5'. 0951 Bobby D. stops dredging and moves 10' to the east. Bobby D. is in cuts 5 and 10 and located at station 9 + 02. 1103 notified Captain Huggins that a piece of the silt curtain had come loose and the silt curtain had come apart from the northwest piling. 1121 crew members fix the silt curtain and tie up the silt curtain to the piling. 1147 Bobby D. stops dredging and Ellsea assists with moving the Bobby D. and the Eddie Carroll 60' to the south. 1159 Bobby D. resumes dredging into the Eddie Carroll in cut 4 station 5 + 29. 1622 Dredge plant Bobby D. stops dredging so operator can perform maintenance on the excavator. 1638 Tug boat Ellsea repositions the dredge plant Bobby D. and scow Eddie Carroll into deeper water due to changing tides. 1650 Dredging resumes. 1815 Dredge plant Bobby D lifts spuds and begins washing off the scow Eddie Carroll. 1816 Dredge plant Bobby D. stops and places bucket on deck. 1820 The red skiff goes to open the silt curtain. Scow Eddie Carroll is inspected and cleared for off shore disposal with an ending draft of 9.2' - 9'. 1825 Tug boat Lucinda Smith ties to the scow Eddie Carroll. 1830 Tug boat Lucinda Smith pulls the scow Eddie Carroll out of the silt curtain, tug boat Ellsea guides the scow Eddie Carroll. 1845 Dredge plant Bobby D's crew is offsite, red skiff closes the silt curtain. 1900 Tug boat Lucinda Smith and scow Eddie Carroll head south through the bridge. 1912 Tug boat Lucinda Smith and scow Eddie Carroll tie to the south staging area and will go for an offshore disposal on 3/23/14 as soon as the weather clears.

Visitors: _____

Signature:  Date: 03/22/2014

Title: Environmental Technician Page: 1 of 1

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Attachment 2
Water Quality Monitoring Forms

PROJECT: New Bedford Harbor Lower Harbor CAD Cell

JOB NUMBER: 6724

DATE: 3/20/2014

MONITORS: Christopher Stillman, Kyle Miller

WEATHER CONDITIONS: High: 52 Low: 32

WIND: 17mph East

PRIOR STORM EVENTS:

DREDGE UPDATE:

TYPE OF WATER QUALITY MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal

TIDE High: 1108/2331 Low: 0423/1625



UP-CURRENT

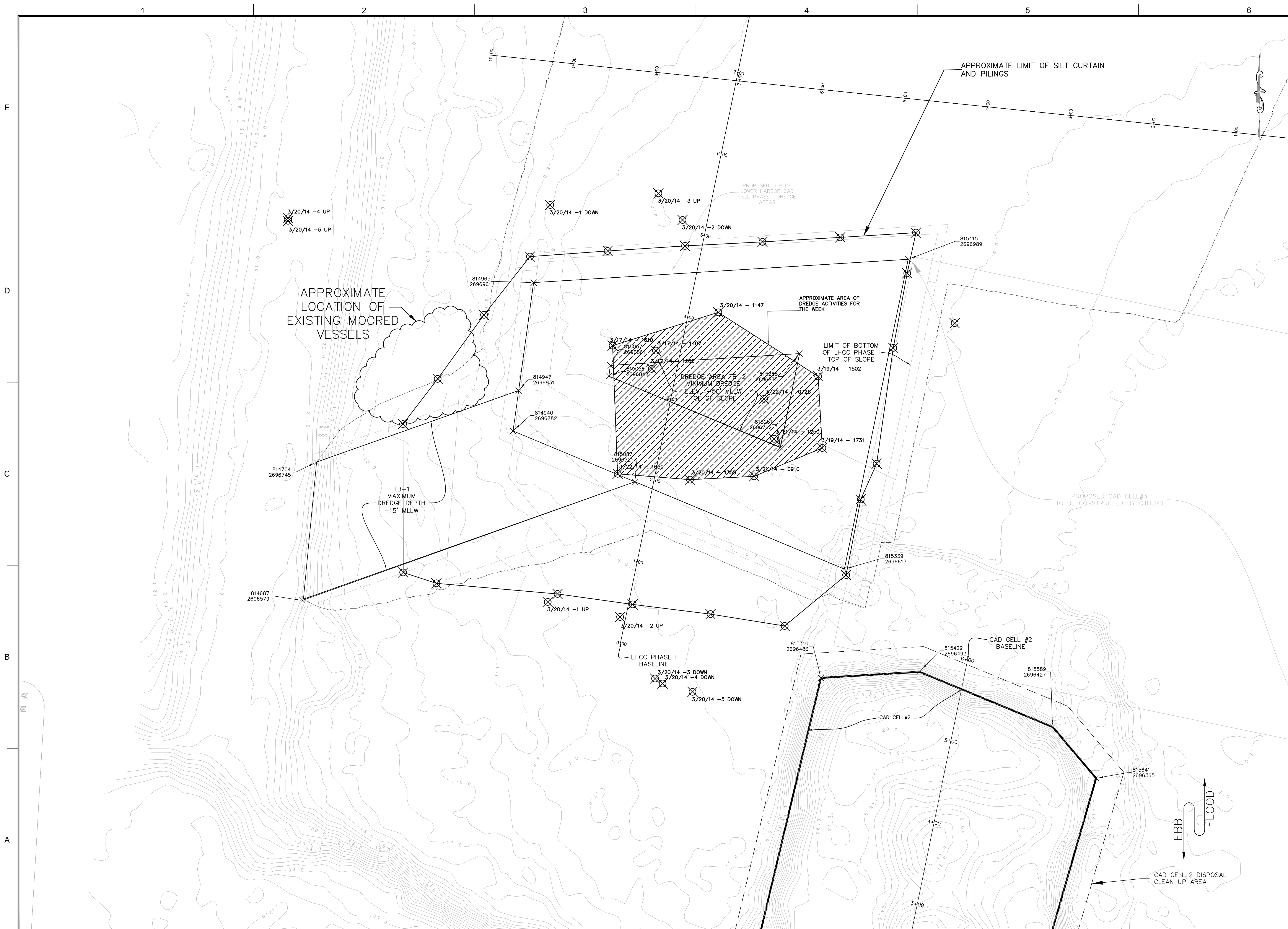
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WQM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
032014-00-1-1		758		1	1.85				
032014-00-1-4		759	10	4	1.72	apex wqm			
032014-00-1-9	814982, 2696577	800		9	2.31	032014	Flood	15' S of Silt Curtain	00
					AVERAGE TURBIDITY:	1.96			
032014-02-1-1		1003		1	1.31				
032014-02-1-5		1004	9.7	5	1.71	apex wqm			
032014-02-1-9	815069, 2696559	1005		9	2.92	032014	Flood	15' S of Silt Curtain	02
					AVERAGE TURBIDITY:	1.98			
032014-04-1-1		1212		1	2.03				
032014-04-1-3		1213	7	3	2.16	apex wqm			
032014-04-1-6	815115, 2697068	1214		6	1.87	032014	Ebbing	15' N of Silt Curtain	04
					AVERAGE TURBIDITY:	2.02			
032014-06-1-1		1420		1	2.56				
032014-06-1-10		1422	21.6	10	2.04	apex wqm			
032014-06-1-20	814670, 2697038	1424		20	1.97	032014	Ebbing	15' N of Silt Curtain	06
					AVERAGE TURBIDITY:	2.19			
032014-08-1-1		1635		1	3.29				
032014-08-1-10		1637	19.4	10	3.36	apex wqm			
032014-08-1-19	814670, 2697035	1639		19	4.87	032014	Ebbing	15' N of Silt Curtain	08
					AVERAGE TURBIDITY:	3.84			

Down-Current

Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
032014-00-9-1		801		1	1.98				
032014-00-9-6		802	12	6	2.16	apex wqm			
032014-00-9-11	814985, 2697054	803		11	2.23	032014	Ebbing	15' N of Silt Curtain	00
					AVERAGE TURBIDITY:	2.12			
					TURBIDITY INCREASE:	0.16			
032014-02-9-1		1013		1	2.02				
032014-02-9-4		1014	9	4	2.76	apex wqm			
032014-02-9-8	815144, 2697036	1015		8	3.11	032014	Flooding	15' N of Silt Curtain	02
					AVERAGE TURBIDITY:	2.63			
					TURBIDITY INCREASE:	0.65			
032014-04-9-1		1219		1	3.17				
032014-04-9-4		1220	9.3	4	2.08	apex wqm			
032014-04-9-8	815111, 2696485	1221		8	2.31	032014	Ebbing	15' S of Silt Curtain	04
					AVERAGE TURBIDITY:	2.52			
					TURBIDITY INCREASE:	0.50			
032014-06-9-1		1435		1	3.02				
032014-06-9-3		1437	6	3	2.39	apex wqm			
032014-06-9-6	815120, 2696479	1439		6	3.25	032014	Ebbing	15' S of Silt Curtain	06
					AVERAGE TURBIDITY:	2.89			
					TURBIDITY INCREASE:	0.70			
032014-08-9-1		1645		1	4.17				
032014-08-9-2		1647	5.4	2	5.55	apex wqm			
032014-08-9-4	815156, 2696469	1649		4	4.82	032014	Ebbing	15' S of Silt Curtain	08
					AVERAGE TURBIDITY:	4.85			
					TURBIDITY INCREASE:	1.01			

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

Figure 1
Lower Harbor CAD Cell Phase I – Water Quality Monitoring



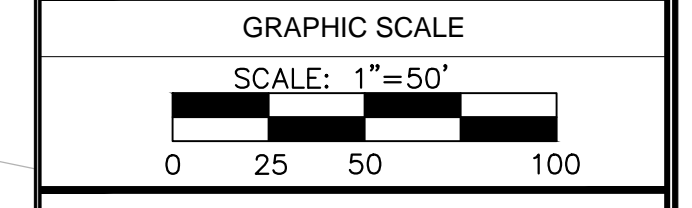
ROCKVILLE, MD
SOUTH WINDSOR, CT - BOSTON, MA -
NEW BEDFORD, MA - HOLYOKE, MA
125 BROAD STREET, 5TH FLOOR
BOSTON, MA 02210
58H CONNECTICUT AVENUE
SOUTH WINDSOR, CT

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PROJECT	NEW BEDFORD HARBOR DEVELOPMENT COMMISSION LOWER HARBOR CAD CELL	
	OWNER	NEW BEDFORD HARBOR DEVELOPMENT COMMISSION 52 FISHERMAN'S WHARF, NEW BEDFORD, MA 02740

1	9/25/2012	EPA COMMENTS	GCD
2	2/21/2013	DRAFT SUITABILITY	MCK

DATE	DESCRIPTION	BY
PROJECT NO.	6724	
CADD FILE		
DESIGNED BY	CHM	
DRAWN BY	GCD	
CHECKED BY	GCD	
DATE	MAY 2013	
DRAWING SCALE	AS NOTED	



SHEET TITLE
BOTTOM OF LOWER HARBOR CAD CELL PHASE 1 WATER QUALITY 3/16/14-3/23/14

DRAWING NO.
WQM-1