

Weekly Field Report
Week: 05-25-14 through 05-31-14
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), 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 thirtieth 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 30th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from dredging oversight performed during the week of May 25th through May 31st, 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 May 25th through May 31st, 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 a minimum of one day of water quality monitoring during dredging.
 - 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) continued LHCC dredging activities for the week using the dredge plant *Dale Pyatt*. Dredging was conducted daily May 26th through May 31st. No dredging was performed on Sunday, May 25th. 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 7 AM until sunset, utilizing a single dredge plant; the tug *Lucinda Smith*; two split-hull scows - *Mighty Quinn*, and the *M.E.R.C Shevlin*, with capacities of 3800, and 4800 cubic yards, respectively; along with two small utility boats.

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

2. Operational Notes:

Dredging:

Dredging of LHCC Phase I Bottom of CAD sediments continued during the week. Apex conducted one day of regular dredge turbidity monitoring. Monitoring was performed May 28th while dredging was being performed to ensure that these activities did not result in any exceedance of 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. Seven offshore disposal events were recorded during the week as follows – *Mighty Quinn* (May 28th, 30th, and 31st), and for the scow *M.E.R.C Shevlin* (May 26th, 27th, 29th, and 31st).

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*	15,000
Approximate Bottom of CAD Volume Dredged to Date*	95,000

* Dredge volume quantities are estimated based on observed scow draft marks and an assumed density of the materials dredged. Scows may contain varying amounts of water along with the dredge materials, thereby influencing the scow draft marks and projected volumes. 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. Turbidity monitoring was performed, however since there were no exceedances, no water quality samples were collected for chemical analysis.

Prepared by:
Apex Companies, LLC



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



Donald Boyé
Senior Project Manager

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: Kaios Ryan Date: 5/26/2014

Contractor: Cashman Foreman/Supt: John Benoit

Weather AM: Cloudy Temperature AM: 78
PM: Cloudy / Rain. Winds 5-10knts. SW PM: 53

Tides High 0646 AM 1911 PM
Low 0047 AM 1200 PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Engineer	<u>1</u>	@	<u>12</u>	Hrs
Operators	<u>1</u>	@	<u>12</u>	Hrs
Mate	<u>1</u>	@	<u>12</u>	Hrs
Deckhand	<u>1</u>	@	<u>12</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>8.5</u>
	<u>MERC Shevlin</u>	Hrs.	<u>11</u>
	<u>Mighty Quinn</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>12</u>
	<u>Blue Skiff</u>	Hrs.	<u>12</u>
	<u>Survey 4</u>	Hrs.	<u>0</u>

Contractor Activities: (Continued on next page)

0643-Crew board the Dale Pyatt, no activity at this time. 0648-The Dale Pyatt is tied to the M.E.R.C Shevlin inside the dredge area drafting at 4'. 0719-Crew members of the Dale Pyatt close the silt curtain. 0732-The Dale Pyatt begins dredging into the M.E.R.C Shevlin at station 4+68, cut 4, and the depth is 30'. 0831-The Dale Pyatt is dredging into the M.E.R.C Shevlin at station 5+03, cut 5, and the depth is 31'. 0921-The Dale Pyatt is dredging into the M.E.R.C Shevlin at station 5+17, cut 10, and the depth is 28'. 0941-The Dale Pyatt is dredging into the M.E.R.C Shevlin at cut 5, 6, and 10, station 5+15, and the depth is 23'. 1148-The Dale Pyatt rear spud cable did not roll up correctly; a crew member addressed the problem. 1241-The M.E.R.C Shevlin has run aground. 1243-Crew members open the silt fence.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: *Kaios Ryan*
Title: Environmental Scientist
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Date: 05/26/2014
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File: LHCC_DIR_052614



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

Inspection Report

Inspector: Kaios Ryan

Date: 5/26/2014

Contractor: Cashman

Foreman/Supt: John Benoit

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>78</u>
	PM:	<u>Cloudy / Rain. Winds 5-10knts. SW</u>		PM:	<u>53</u>

Tides	High	<u>0646</u>	AM	<u>1911</u>	PM
	Low	<u>0047</u>	AM	<u>1200</u>	PM

Contractor Activities: (Continued from Page 1)

1251-Lucinda Smith enters dredge area and ties up to the Dale Pyatt. 1258-Lucinda Smith frees the M.E.R.C Shevlin and moves the Dale Pyatt and M.E.R.C Shevlin 20' to the south. 1338-Crew members close the silt curtain. 1340-The Dale Pyatt resumes dredging into the M.E.R.C Shevlin at station 6+24 cuts 5 and 10, and the depth is 26'. 1445-The Dale Pyatt is dredging into the M.E.R.C Shevlin at station 6+42, cuts 5 and 10, and the depth is 27'. 1601-The Dale Pyatt is dredging into the M.E.R.C Shevlin at station 6+50 cuts 4, 5, and 10, and the depth is 29'. 1805-The Dale Pyatt finishes dredging into the M.E.R.C Shevlin drafting at 13'. 1807-Crew member open silt fence. 1810-The M.E.R.C Shevlin is inspected and cleared for offshore disposal. 1812-The Lucinda Smith enters dredge area and ties up to the M.E.R.C Shevlin. 1819-The Lucinda Smith and the M.E.R.C Shevlin head south for the offshore disposal site. 1842-The crew departs job site for the day.

Problems/Issues or Action Items:

None / N/A

Signature: *Kaios Ryan*

Date: 05/26/2014

Title: Environmental Scientist

Page: 2 of 3

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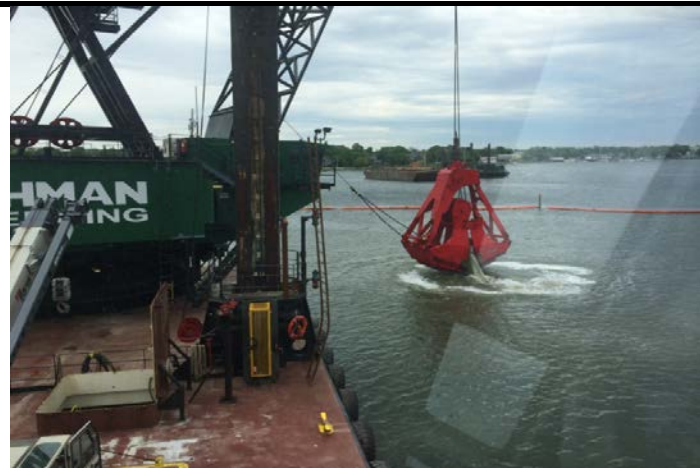
City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802
Inspection Report

Inspector: Kaios Ryan

Date: 5/26/2014

Contractor: Cashman

Foreman/Supt: John Benoit



The Dale Pyatt dredging at the Lower Harbor CAD Cell



The Dale Pyatt dredging into the MERC Shevlin

Signature: *Kaios Ryan*

Title: Environmental Scientist

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Date: 05/26/2014

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File: LHCC_DIR_052614



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:** 5/27/2014
Contractor: Cashman/Weeks **Foreman/Supt:** John Benoit

Weather	AM:	<u>Clear</u>	Temperature	AM:	<u>51</u>
	PM:	<u>Clear. Winds 5-10knts. NNE</u>		PM:	<u>78</u>
Tides	High	<u>0737</u>	AM	<u>2001</u>	PM
	Low	<u>0130</u>	AM	<u>1244</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Engineer	<u>1</u>	@	<u>12</u>	Hrs
Operators	<u>1</u>	@	<u>12</u>	Hrs
Mate	<u>1</u>	@	<u>12</u>	Hrs
Deckhand	<u>2</u>	@	<u>8/12</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>11</u>
	<u>Lucinda Smith</u>	Hrs.	<u>2</u>
	<u>Blue Skiff</u>	Hrs.	<u>12</u>
	<u>M.E.R.C. Shevlin</u>	Hrs.	<u>12</u>
	<u>Weeks 30</u>	Hrs.	<u>0</u>
	<u>Mighty Quinn</u>	Hrs.	<u>0</u>
	<u>Wood 1</u>	Hrs.	<u>0</u>
	<u>Survey 4</u>	Hrs.	<u>1</u>


Contractor Activities: (Continued on next page)

0730-The scow M.E.R.C. Shevlin is tied to the dredge plant Dale Pyatt. The silt curtain is closed by the blue skiff.
 0745-The dredge plant Dale Pyatt begins dredging into the scow M.E.R.C. Shevlin with a starting draft of 6.5'. 0830-
 The Dale Pyatt crew is cleaning the deck in preparation for painting. 0845-The Dale Pyatt crew begins painting the
 deck. 0857-The crew of the Dale Pyatt grease the bucket and wires. 0948-The dredge plant Dale Pyatt resumes
 dredging. 1045-Survey 4 is onsite inside the silt curtain. 1151- Survey 4 is offsite. 1449-The blue skiff brings the
 deckhand to the Niemiec dock. 1502-The blue skiff ties to the Dale Pyatt. 1807-The dredge plant Dale Pyatt stops
 dredging, the scow M.E.R.C. Shevlin is filled, with a draft of 13'. (Continued...)

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
Title: Environmental Technician
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Date: 5/27/14
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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: Adam Hart

Date: 5/27/2014

Contractor: Cashman/Weeks

Foreman/Supt: John Benoit

Weather	AM:	<u>Clear</u>	Temperature	AM:	<u>51</u>
	PM:	<u>Clear. Winds 5-10knts. NNE</u>		PM:	<u>78</u>
Tides	High	<u>0737</u>	AM	<u>2001</u>	PM
	Low	<u>0130</u>	AM	<u>1244</u>	PM


Contractor Activities: (Continued from Page 1)

1807-The blue skiff opens the silt curtain, and tug boat Lucinda Smith enters the silt curtain. 1810-The scow M.E.R.C. Shevlin is inspected and cleared for offshore disposal. 1818-The tug boat Lucinda Smith brings the scow M.E.R.C. Shevlin to the northern staging area. 1850-The Dale Pyatt crew is offsite. 1903- The tug boat Lucinda Smith ties the scow Mighty Quinn to the dredge plant Dale Pyatt. 1910-The tug boat Lucinda Smith ties to the scow M.E.R.C. Shevlin to bring out for an offshore disposal.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
Title: Environmental Technician

Date: 5/27/14
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CFDA No.: 66.802
Inspection Report

Inspector: Adam Hart

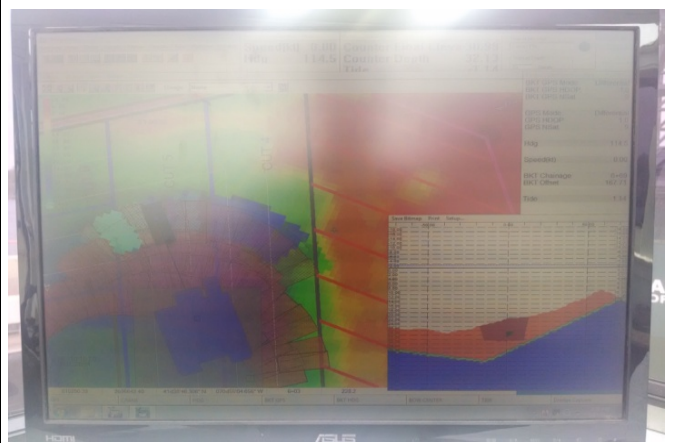
Date: 5/27/2014

Contractor: Cashman/Weeks

Foreman/Supt: John Benoit



Survey 4 inside the silt curtain.




Screen shot of the Dale Pyatt's computer.



The dredge plant Dale Pyatt dredging into the scow
M.E.R.C. Shevlin.



The loaded scow M.E.R.C. Shevlin.

Signature: 
Title: Environmental Technician
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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: Adam Hart **Date:** 5/28/2014
Contractor: Cashman/Weeks **Foreman/Supt:** John Benoit

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>54</u>
	PM:	<u>Cloudy/Rain. Winds 10-15knts. NNE</u>		PM:	<u>44</u>
Tides	High	<u>0823</u>	AM	<u>2045</u>	PM
	Low	<u>0208</u>	AM	<u>1325</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12.5</u>	Hrs
Engineer	<u>1</u>	@	<u>12.5</u>	Hrs
Operators	<u>1</u>	@	<u>12.5</u>	Hrs
Mate	<u>1</u>	@	<u>8</u>	Hrs
Deckhand	<u>2</u>	@	<u>12.5</u>	Hrs
Other:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>8</u>
	<u>Lucinda Smith</u>	Hrs.	<u>3</u>
	<u>Blue Skiff</u>	Hrs.	<u>12</u>
	<u>M.E.R.C. Shevlin</u>	Hrs.	<u>0</u>
	<u>Weeks 30</u>	Hrs.	<u>0</u>
	<u>Mighty Quinn</u>	Hrs.	<u>8</u>
	<u>Wood 1</u>	Hrs.	<u>0</u>
	<u>Survey 4</u>	Hrs.	<u>0</u>

Contractor Activities: (Continued on next page)

0700-The Dale Pyatt crew is onsite, the silt curtain is closed, and the scow Mighty Quinn is tied along side the dredge plant Dale Pyatt. 0733-The scow Mighty Quinn will not start due to a dead battery, crews attempting to jumpstart and charge the scow's battery. 0750-The dredge plant Dale Pyatt begins dredging into the scow Mighty Quinn (Starting draft 5'). 0822-The tug boat Lucinda Smith and the scow M.E.R.C. Shevlin head north through the bridge. 0829-The scow M.E.R.C. Shevlin is tied to the staging area. 1025-Crews lift hoses and pump onto the Mighty Quinn. 1036-Crews begin pumping water from the Mighty Quinn into the water within the silt curtain. 1100-The north facing silt curtain is above water due to high winds. 1150-The Dale Pyatt crew is fixing the silt curtain. (Continued...)

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
 Title: Environmental Technician
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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: Adam Hart

Date: 5/28/2014

Contractor: Cashman/Weeks

Foreman/Supt: John Benoit

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>54</u>
	PM:	<u>Cloudy/Rain. Winds 10-15knts. NNE</u>		PM:	<u>44</u>
Tides	High	<u>0823</u>	AM	<u>2045</u>	PM
	Low	<u>0208</u>	AM	<u>1325</u>	PM

Contractor Activities: (Continued from Page 1)

1235-The tug boat Lucinda Smith ties to the Richie Barber. 1313-Hoses and pump are loaded onto the Lucinda Smith from the Richie Barber. 1345-The blue skiff is raised onto the deck of the Dale Pyatt. 1420-The blue skiff is lowered back into the water. 1430-The dredge plant Dale Pyatt stops dredging, the scow Mighty Quinn is filled with a draft of 14'. The blue skiff opens the silt curtain. 1440-The tug boat Lucinda Smith ties to the side of the dredge plant Dale Pyatt. Survey 4 is onsite. 1500-The water pump and hoses are lifted off of the Lucinda Smith and placed onto the deck of the Dale Pyatt. 1511-The tug boat Lucinda Smith ties to the scow Mighty Quinn. 1520-The tug boat Lucinda Smith takes the scow Mighty Quinn out of the silt curtained area. 1535-The scow Mighty Quinn is tied to the staging area.

1546-The tug boat Lucinda Smith ties to the scow M.E.R.C. Shevlin(draft of 4'-4') and brings it alongside the dredge plant Dale Pyatt. 1620-The silt curtain is closed. The tug boat Lucinda Smith ties to the loaded scow Mighty Quinn. 1623-The dredge plant Dale Pyatt begins to dredge into the scow M.E.R.C. Shevlin. 1821-The dredge plant Dale Pyatt stops dredging for the day, will continue dredging into the scow M.E.R.C. Shelvin on 5/29/14. 1850-All crews are offsite/no further activity.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 

Date: 5/28/14

Title: Environmental Technician

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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: Adam Hart

Date: 5/28/2014

Contractor: Cashman/Weeks

Foreman/Supt: John Benoit



The dredge plant Dale Pyatt loading the scow Mighty Quinn




The northern silt curtain being lifted by the wind.



The blue skiff being raised out of the water.



The Mighty Quinn loaded with drafts of 14' - 14'

Signature: 
Title: Environmental Technician
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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: Christopher Stillman, Brett Young **Date:** 5/29/2014

Contractor: Cashman **Foreman/Supt:** John Benoit

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>63</u>
	PM:	<u>Cloudy. Winds 5-10knts. NNE</u>		PM:	<u>44</u>
Tides	High	<u>0908</u>	AM	<u>2128</u>	PM
	Low	<u>0243</u>	AM	<u>1408</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Engineer	<u>1</u>	@	<u>12</u>	Hrs
Operators	<u>1</u>	@	<u>12</u>	Hrs
Mate	<u>1</u>	@	<u>12</u>	Hrs
Deckhand	<u>1</u>	@	<u>12</u>	Hrs
Surveyor:	<u>1</u>	@	<u>4</u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>12</u>
	<u>MERC Shelvin</u>	Hrs.	<u>12</u>
	<u>Mighty Quinn</u>	Hrs.	<u>9</u>
	<u>Lucinda Smith</u>	Hrs.	<u>4</u>
	<u>Blue Skiff</u>	Hrs.	<u>4</u>
	<u>Survey 4</u>	Hrs.	<u>2</u>


Contractor Activities: (Continued on next page)

0645-No activity on the dredge plant Dale Pyatt, crew onboard- Multibeam boat, Survey 4 is inside the silt curtain- Split scow MERC Shevlin is tied to the dredge plant Dale Pyatt, drafts at 6' bow 5.5' stern. 0707-Dredge plant Dale Pyatt begins dredging (using the 28 cy bucket)into the split scow MERC Shevlin. 0722-Tug Lucinda Smith brings the empty split scow Mighty Quinn to the north staging area. 0802- Dredging location is at x-y: 815257, 2696915 and Station 6+35, in cut 6, at a depth of 25'. 0848-Dredge plant Dale Pyatt stops dredging to make a move to Station 6+40, in cut 6, begins dredging at a depth of 28'. 0930-Dredge stops as the dredge plant Dale Pyatt makes a move to the west, continuing to dredge the North slope of Lower Harbor CAD Cell at Station 6+26 in cut 6. 0948-Dredge resumes at a depth of 23'. 1021-Dredging at a depth of 22', at Station 6+10 in cut 6. 1046-Dredge plant Dale Pyatt stops dredging to make a move to new location, resumes dredging at station 5+85, cut 6 at a depth of 22-23'.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
 Title: Environmental Scientist
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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: Christopher Stillman, Brett Young **Date:** 5/29/2014

Contractor: Cashman **Foreman/Supt:** John Benoit

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>63</u>
	PM:	<u>Cloudy. Winds 5-10knts. NNE</u>		PM:	<u>44</u>


Tides	High	<u>0908</u>	AM	<u>2128</u>	PM
	Low	<u>0243</u>	AM	<u>1408</u>	PM

Contractor Activities: (Continued from Page 1)

1112-Dredging at a depth of 23'. 1130-Dredging at Station 5+72 in cut 6 along north slope of CAD cell, x-y location 815046, 2696928. 1145-Dredging location: 5+54 at a depth of 22'. 1220-Dredging stopped- Dredge plant Dale Pyatt rotating to face west, at station 5+46, x-y location of 815176, 2696999. 1225-Contractor made aware of the large gap in the gate of the silt curtain, dredging stopped, skiff promptly fixed it. 1247-Dredging resumed at Station 5+97 in cut 7 at a depth of 20' - Survey 4 surveyor (Geoff Crews) onboard dredge plant Dale Pyatt logging bucket data. 1301-Dredge location: station 5+43 in cut 7, dredging to a depth of 20'. 1323-Tug Lucinda Smith comes north through the 1pm bridge opening. 1333- Dredging stopped as the crew shifted the split scow MERC Shevlin to the west so the dredge plant Dale Pyatt could start loading aft. 1407-Dredging resumes. MERC Shelvin drafts bow-12', stern-9.5'. 1440- MERC Shevlin inspected and cleared for offshore disposal. MERC Shevlin drafts bow-12.5', stern-11'. 1445-Mighty Quinn drafts bow-4', stern-5'. 1710-Dale Pyatt is dredging into the Mighty Quinn. 1720- Lucinda Smith heads southbound through the bridge with the MERC Shevlin for offshore disposal. 1730- Two crew are repairing a broken section of the silt curtain. The curtain remained intact but had broken loose from the pylon. 1742-Dale Pyatt stops dredging. 1755-Mighty Quinn drafts bow-6', stern-7.5'. 1823-Silt curtain is opened. 1830-Dale Pyatt crew departs. No further activity, no crew on site.

Problems/Issues or Action Items:

None / N/A

Signature: 
Title: Environmental Scientist

Date: 05/29/2014
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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: Christopher Stillman, Brett Young

Date: 5/29/2014

Contractor: Cashman

Foreman/Supt: John Benoit




Dale Pyatt dredging into the MERC Shevlin



Material in the MERC Shevlin



Silt curtain reattached to the pylon

Signature: 

Title: Environmental Scientist

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Date: 05/29/2014

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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: Christopher Stillman Date: 5/30/2014
Contractor: Cashman Foreman/Supt: John Benoit

Weather	AM:	<u>Sunny</u>	Temperature	AM:	<u>40</u>
	PM:	<u>Overcast / Rain. Winds 5-10knts. SSE</u>		PM:	<u>64</u>
Tides	High	<u>0952</u>	AM	<u>2209</u>	PM
	Low	<u>0318</u>	AM	<u>1452</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>7</u>	Hrs
Engineer	<u>1</u>	@	<u>7</u>	Hrs
Operators	<u>2</u>	@	<u>4</u>	Hrs
Mate	<u>1</u>	@	<u>7</u>	Hrs
Deckhand	<u>1</u>	@	<u>7</u>	Hrs
Surveyor:	<u> </u>	@	<u> </u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>7</u>
	<u>MERC Shevlin</u>	Hrs.	<u>0</u>
	<u>Mighty Quinn</u>	Hrs.	<u>12</u>
	<u>Lucinda Smith</u>	Hrs.	<u>12</u>
	<u>Blue Skiff</u>	Hrs.	<u>4</u>
	<u>Survey 4</u>	Hrs.	<u>2</u>


Contractor Activities: (Continued on next page)

0649-No activity on the dredge plant Dale Pyatt, crew onboard- Multibeam boat, Survey 4 is inside the silt curtain- The rear walking spud on the Dale Pyatt is down with a damaged cable. 0722-The split scow M.E.R.C. Shevlin is tied to the south staging area barge, drafting at 4' on the Bow and 4.5' on the stern- SEI 30 crane truck barge inside curtain. 0820-Crews repairing the rear spud, Tug Lucinda Smith assisting the crane barge SEI 30 in repairs to the Dale Pyatt. 1028-Crew testing spud wires on the Dale Pyatt. 1236-Tug Lucinda Smith begins pulling the crane barge SEI 30 out of the CAD area. 1245-Rear spud on the dredge plant Dale Pyatt still malfunctioning. 1318-Dredge plant Dale Pyatt takes it's first bucket of the day, the silt curtain closed- Dredge plant locations at stations: 5+59, cut 6, dredging at a depth of 24' into the split scow Mighty Quinn drafting at 6' on the Bow and 7.5' on the stern.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
Title: Environmental Scientist
Copy to: File

Date: 05/30/2014
Page: 1 of 2
File: LHCC_DIR_053014



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

Inspection Report

Inspector: Christopher Stillman Date: 5/30/2014

Contractor: Cashman Foreman/Supt: John Benoit

Weather	AM:	<u>Sunny</u>	Temperature	AM:	<u>40</u>
	PM:	<u>Overcast / Rain. Winds 5-10knts. SSE</u>		PM:	<u>64</u>
Tides	High	<u>0952</u>	AM	<u>2209</u>	PM
	Low	<u>0318</u>	AM	<u>1452</u>	PM


Contractor Activities: (Continued from Page 1)

1348-Dredge plant Dale Pyatt dredging at station 5+12, in cuts 6 and 7 at a depth of 25', state plane locations - Northing 2697106, Easting 815119, west facing- On the port side the split scow Mighty Quinn is drafting at 7' on the bow and 8' on the stern- Dredging stops. 1430-Dredging resumes at new location station 4+95, in cut 6 at a depth of 20'. 1511- Dredging soft material in station 4+96, in cuts 10 and 6 at a depth of 24'. 1545-Dredging at station 4+96 in cut 6 at a depth of 26'. 1635-Dredge plant Dale Pyatt moving to new location at 5+09 in cut 7, dredging at a depth of 30'. 1656-Dredging at Station 4+91 in cut 6, dredging to a depth of 22'. 1719-Dredging stopped (scow full), the split scow Mighty Quinn drafting at 14' bow and stern. 1739-The split scow Mighty Quinn was inspected for offshore disposal at the Rhode Island Disposal Area.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: 
Title: Environmental Scientist

Date: 05/30/2014
Page: 2 of 2

Copy to: File

File: LHCC_DIR_053014



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: 5/31/2014

Contractor: Cashman Foreman/Supt: John Benoit

Weather	AM:	<u>Cloudy, Lt.Rain</u>	Temperature	AM:	<u>61</u>
	PM:	<u>Clear. Winds 5-20knts. NNE</u>		PM:	<u>45</u>
Tides	High	<u>1035</u>	AM	<u>2250</u>	PM
	Low	<u>0353</u>	AM	<u>1536</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Engineer	<u>1</u>	@	<u>12</u>	Hrs
Operators	<u>2</u>	@	<u>10</u>	Hrs
Mate	<u>1</u>	@	<u>12</u>	Hrs
Deckhand	<u>1</u>	@	<u>12</u>	Hrs
Other	<u>0</u>	@	<u>0</u>	Hrs

Equipment Onsite

Description:	<u>Dale Pyatt</u>	Hrs.	<u>11</u>
	<u>MERC Shevlin</u>	Hrs.	<u>7</u>
	<u>Mighty Quinn</u>	Hrs.	<u>4</u>
	<u>Lucinda Smith</u>	Hrs.	<u>6</u>
	<u>Blue Skiff</u>	Hrs.	<u>12</u>
	<u>Survey 4</u>	Hrs.	<u>3</u>


Contractor Activities: (Attach Additional Sheets as Necessary)

0610-Dale Pyatt crew begins to arrive at Popes Island Marina. 0635-Dale Pyatt crew boards the dredge. 0648-Silt curtain is closed. 0655-Dale Pyatt begins dredging into the MERC Shevlin at cuts 6 & 10 station 4+80 depth 28'. MERC Shevlin drafts bow 6', stern 6'. 0704-Survey 4 onsite. Bobby DeCrescenzo (Project Manager) onsite. 0730-Dale Pyatt dredging buckets 60% filled with material. Cycle times are roughly 2.5 minutes per bucket. Dale Pyatt now dredging cut 5 station 4+80 depth 36' x-y 815046, 2696838. 0737-Dale Pyatt stops dredging for Survey 4 to survey in front of the bow. 0743-Dale Pyatt resumes dredging. 0750-Survey 4 offsite. 0800-Second operator on board, Dale Pyatt is staggering operators. 0825-MERC Shevlin drafts bow 7', stern 8'. 0855-Dale Pyatt is dredging cut 5 station 4+48 depth 25' x-y 815018, 2696831.

Problems/Issues or Action Items:

None / N/A

Visitors: Bobby DeCrescenzo

Signature: 
Title: Environmental Scientist
Copy to: File

Date: 5/31/2014
Page: 1 of 3
File: DIR_LHCC_053114



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:** 5/31/2014

Contractor: Cashman **Foreman/Supt:** John Benoit

Weather	AM:	<u>Cloudy, Lt. Rain</u>	Temperature	AM:	<u>61</u>
	PM:	<u>Clear. Winds 5-20knts. NNE</u>		PM:	<u>45</u>

Tides	High	<u>1035</u>	AM	<u>2250</u>	PM
	Low	<u>0353</u>	AM	<u>1536</u>	PM

Contractor Activities: (Attach Additional Sheets as Necessary)

0920-Bobby DeCrescenzo offsite. 0947-Dale Pyatt dredging cut 4 station 4+56 depth 29' x-y 815042, 2696788. 1006-Dale Pyatt dredging cut 6 station 5+23 depth 24' xy 815071, 2696905. 1010-Lucinda Smith comes north through the bridge with the Mighty Quinn and ties it to the staging area. 1034-Dale Pyatt dredging cuts 5 & 6 station 4+83 depth 28' x-y 815033, 2696911. 1047-Silt curtain is functioning properly. 1052-Survey 4 onsite. 1059-Survey 4 offsite. 1125-Dale Pyatt stops dredging to switch operators. 1131- Dale Pyatt resumes dredging. 1154-Dale Pyatt dredging cuts 5 & 6 station 4+66 depth 35' x-y 815023, 2696897. 1245-Dale Pyatt dredging cuts 6 & 7 station 4+74 depth 26'. 1325-Dale Pyatt dredging cut 5 station 4+58 depth 30'. 1345-Dale Pyatt stops dredging, the scow is full. MERC Shevlin drafts bow 12.5', stern 13.5', 1936 cubic yards of material. 1347-MERC Shevlin inspected and cleared for offshore disposal. 1353-Silt curtain is opened and Lucinda Smith ties to the MERC Shevlin. 1430-Lucinda Smith ties the MERC Shevlin to the staging area and brings the Mighty Quinn to the Dale Pyatt. 1451-Mighty Quinn ties to the Dale Pyatt. 1505-Silt curtain is closed. Dale Pyatt begins dredging into the Mighty Quinn at cut 5 station 4+64 depth 29'. Mighty Quinn drafts bow 6', stern 6'. 1534-Dale Pyatt dredging cuts 4 & 5 station 4+80 depth 29'. 1630-Dale Pyatt stops dredging to inspect the bucket. 1644-Dale Pyatt resumes dredging. 1704-Dale Pyatt dredging cuts 6 & 7 station 5+45 depth 29'. 1752-Dale Pyatt dredging cut 5 station 5+00 depth 27'. 1910-Lucinda Smith heads south through the bridge with the MERC Shevlin for offshore disposal. 1917-Dale Pyatt stops dredging. 1950-Dale Pyatt moves towards the silt curtain gate to make room for a survey tomorrow. 1955-Mighty Quinn inspected and cleared for offshore disposal. Mighty Quinn drafts bow 11.5', stern 13'. 2015-Dale Pyatt crew departs. No activity, no crew onsite.

Signature: 
Title: Environmental Scientist

Date: 5/31/2014
Page: 2 of 3

Copy to: File

File: DIR_LHCC_053114



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: 5/31/2014


Contractor: Cashman

Foreman/Supt: John Benoit



Dale Pyatt dredging into the MERC Shevlin

Material in the MERC Shevlin

Signature: 
Title: Environmental Scientist

Date: 5/31/2014
Page: 3 of 3

Copy to: File

File: DIR_LHCC_053114

Attachment 2
Water Quality Monitoring Forms

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell		
JOB NUMBER:	6724		
SURVEY DATE:	5/28/2014		
MONITORS:	Kaios Ryan		
WEATHER CONDITIONS:	Low: 45	High: 57	
WIND CONDITIONS:	Speed: 10-14 MPH Direction: NE		
PRIOR STORM EVENTS:			
DREDGE / SCOW Position:	Northing/Easting:		
TYPE OF WATER QUALITY MONITORING EVENT:	TOP CAD Dredging / BTM CAD Dredging / Disposal		
TIDE INFORMATION:	High: 0822/2043 Low: 0205/1322		
WAS WATER QUALITY SAMPLING PERFORMED? (YES/NO):	IF YES, ATTACH COC FORMS		
GENERAL NOTES:			



UP-CURRENT

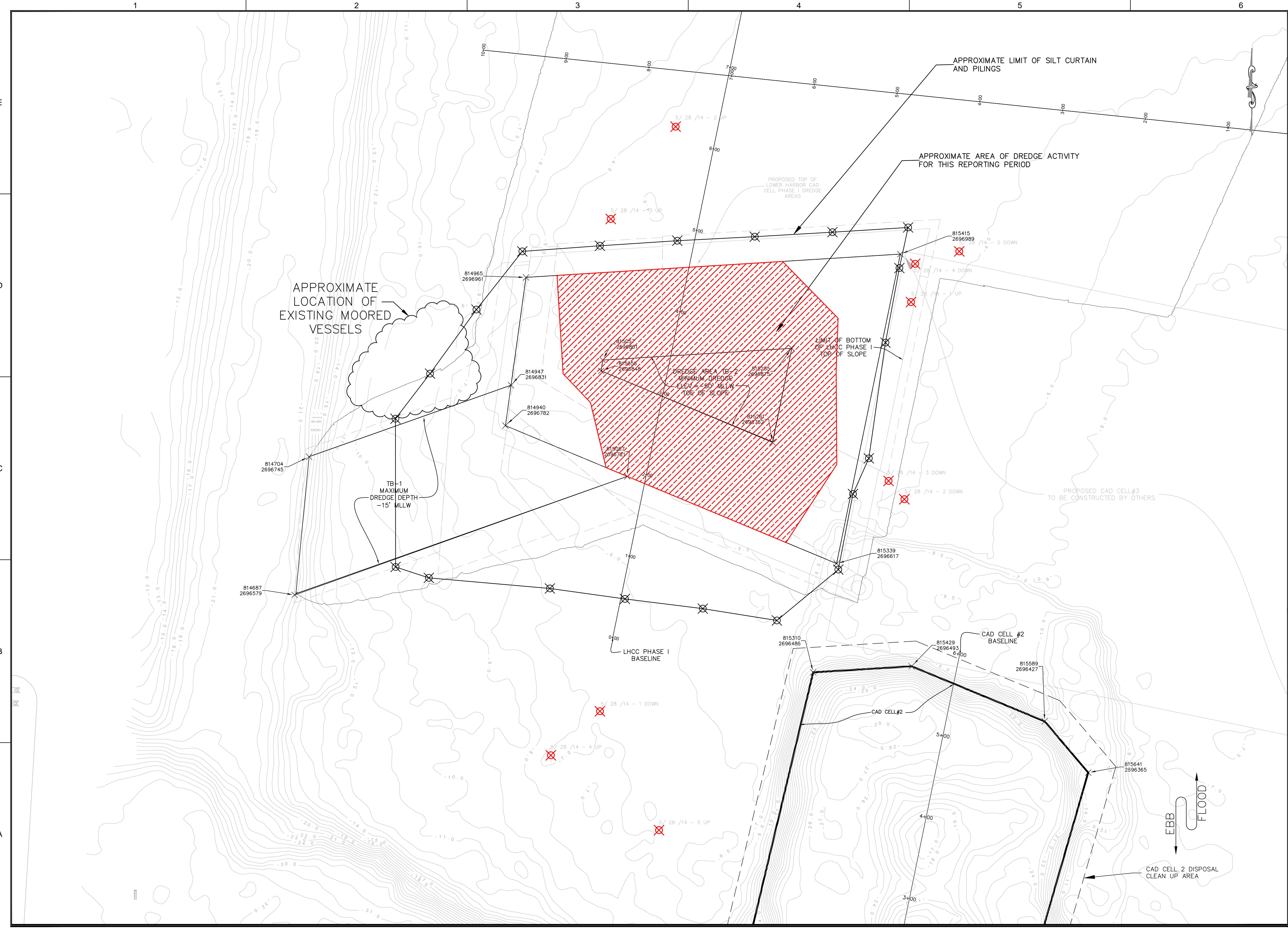
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
052814-0-1-1	815428, 2696931	0750	31.4	1	2.08	Apex WQM	Flood/Slack	15' N of Silt Curtain	0
052814-0-1-15		0752		15	2.69	STERN LHCC			
052814-0-1-30		0754		30	2.51	052814			
					AVERAGE TURBIDITY:	2.43			
052814-2-1-1	815145, 2697142	0940	7.1	1	2.47	Apex WQM	Ebbing	200' N of Dredge	2
052814-2-1-3		0942		3	2.61	STERN LHCC			
052814-2-1-6		0944		6	2.12	052814			
					AVERAGE TURBIDITY:	2.4			
052814-4-1-1	815067, 2697031	1143	6.5	1	2.15	Apex WQM	Ebbing	200' N of Dredge	4
052814-4-1-3		1145		3	3.41	STERN LHCC			
052814-4-1-6		1147		6	3.18	052814			
					AVERAGE TURBIDITY:	2.91			
052814-6-1-1	814995, 2696386	1341	8.1	1	3.08	Apex WQM	Flooding	200' S of Dredge	6
052814-6-1-3.5		1343		3.5	4.36	STERN LHCC			
052814-6-1-7		1345		7	5.37	052814			
					AVERAGE TURBIDITY:	4.27			
052814-8-1-1	815125, 2696296	1531	7.9	1	3.09	Apex WQM	Flooding	200' S of Dredge	8
052814-8-1-3.5		1533		3.5	3.83	STERN LHCC			
052814-8-1-7		1535		7	3.88	052814			
					AVERAGE TURBIDITY:	3.6			

Down-Current

Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
052814-0-9-1	815054, 2696439	0741	9.7	1	2.13	Apex WQM	Flood/Slack	200' S of Dredge	0
052814-0-9-4.5		0743		4.5	3.5	STERN LHCC			
052814-0-9-9		0745		9	2.27	052814			
					AVERAGE TURBIDITY:	2.63			
					TURBIDITY INCREASE:	0.21			
052814-2-9-1	815420, 2696694	0951	31.7	1	3.03	Apex WQM	Ebbing	200' S of Silt Curtain	2
052814-2-9-15.5		0953		15.5	2.72	STERN LHCC			
052814-2-9-31		0955		31	5.87	052814			
					AVERAGE TURBIDITY:	3.87			
					TURBIDITY INCREASE:	1.47			
052814-4-9-1	815401, 2696716	1151	31.2	1	2.26	Apex WQM	Ebbing	200' S of Silt Curtain	4
052814-4-9-15		1153		15	2.59	STERN LHCC			
052814-4-9-30		1155		30	4.32	052814			
					AVERAGE TURBIDITY:	3.06			
					TURBIDITY INCREASE:	0.14			
052814-6-9-1	815433, 2696977	1351	23.7	1	8.2	Apex WQM	Flooding	200' N of Silt Curtain	6
052814-6-9-11.5		1353		11.5	9.06	STERN LHCC			
052814-6-9-23		1355		23	10.7	052814			
					AVERAGE TURBIDITY:	9.32			
					TURBIDITY INCREASE:	5.05			
052814-8-9-1	815486, 2696992	1542	28.7	1	6.36	Apex WQM	Flooding	200' N of Silt Curtain	8
052814-8-9-14		1544		14	7.18	STERN LHCC			
052814-8-9-28		1546		28	8.09	052814			
					AVERAGE TURBIDITY:	7.21			
					TURBIDITY INCREASE:	3.61			

* 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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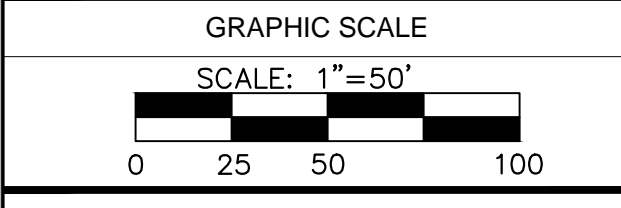
PROJECT
NEW BEDFORD HARBOR
DEVELOPMENT COMMISSION
LOWER HARBOR CAD CELL

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

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
5/25/14- 5/31/14

DRAWING NO.
WQM-1

6 OF 15