

Weekly Field Report
Week: 04-13-14 through 04-19-14
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 twenty fourth 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 24th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of April 13th through April 19th, 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 April 13th through April 19th, 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) did not conduct any dredging operations during this reporting period due to repairs and maintenance to the dredge plant, Bobby D, which experienced damaged to its stick cylinder. Two tugs—Ellsea and Lucinda Smith—assisted in the repair work. Another dredge plant—the Wood 1—also assisted with maintenance operations that occurred on the Bobby D. Dredging operations are scheduled to resume next week.

2. Operational Notes:

Dredging:

Dredging of LHCC Phase I Bottom of CAD sediments was postponed during this week due to equipment maintenance and repair. However, Apex still conducted one day of water quality monitoring on April 15th to ensure there were no exceedances of any project-specific water quality standards during the down time.

Offshore Disposal:

Offshore disposal for LHCC Phase I Bottom of CAD sediments is scheduled and permitted for the Rhode Island Sound Disposal Site. One offshore disposal event, using the split scow Eddie Carroll, was recorded during the week and occurred on April 14th.

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	1,200
Approximate Bottom of CAD Volume Dredged to Date*	42,250

* 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: 04/13/2014

Contractor: Cashman/Weeks

Foreman/Supt: Dave Norton

Weather	AM:	<u>Clear</u>	Temperature	AM:	<u>46</u>
	PM:	<u>Clear</u>		PM:	<u>62</u>

Tides	High	<u>0718</u>	AM	<u>1939</u>	PM
	Low	<u>0049</u>	AM	<u>1256</u>	PM

Manpower Onsite

Engineer	<u>1</u>	@	<u>10</u>	Hrs
Chief Engineer	<u>1</u>	@	<u>10</u>	Hrs
Operators	<u>1</u>	@	<u>10</u>	Hrs
Mate	<u>1</u>	@	<u>10</u>	Hrs
Deckhand	<u>1</u>	@	<u>10</u>	Hrs
Tug Operator	<u>1</u>	@	<u>10</u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Wood 1</u>	Hrs.	<u>6</u>
	<u>Henri</u>	Hrs.	<u>4</u>
	<u>Weeks 231</u>	Hrs.	<u>6</u>
	<u>Grey Skiff</u>	Hrs.	<u>10</u>
	<u></u>	Hrs.	<u></u>
	<u></u>	Hrs.	<u></u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0650 The crew is on site at Shusters bulkhead. 0715 The crew begins working on the excavator on the dredge plant Bobby D. 0800 Tug boat Henri brings the barge Weeks 231 alongside the dredge plant Wood 1. 1042 The Wood 1's crane is tied to the arm of the excavator on the Bobby D. 1507 Henri brings the Weeks 231 to the staging area. 1600 The Wood 1 is untied from the excavator on the Bobby D. The crew is working on maintenance of the Bobby D. Henri is tied to the Bobby D. 1734 The crew is offsite, and there is no more activity on site.

Visitors:

Signature: 

Title: Environmental Technician

Date: 04/13/2014

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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: Brett Young

Date: 04/14/2014

Contractor: Cashman/Weeks

Foreman/Supt: Dave Norton

Weather AM: Cloudy **Temperature** AM: 62
PM: Cloudy PM: 51

Tides High 0757 AM 2017 PM
Low 0129 AM 1331 PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Chief Engineer	<u>0</u>	@	<u>0</u>	Hrs
Operator	<u>0</u>	@	<u>0</u>	Hrs
Mate	<u>0</u>	@	<u>0</u>	Hrs
Deckhand	<u>0</u>	@	<u>0</u>	Hrs
Tug Operator	<u>0</u>	@	<u>0</u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Red Skiff</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>1</u>
	<u>Eddie Carroll</u>	Hrs.	<u>13.5</u>
	_____	Hrs.	_____
	_____	Hrs.	_____
	_____	Hrs.	_____

Contractor Activities: (Attach Additional Sheets as Necessary)

0640 There is no activity on site. The Bobby D's excavator is still under repair at Shusters bulkhead. 0730 Junior Mitchell and Dave Norton are working on the Bobby D's excavator, but no other crew is on site. 1330 Lucinda Smith takes the Eddie Carroll offshore for disposal. 1630 There is no activity on the Bobby D and it remains tied to Shusters bulkhead.

Visitors: _____

Signature:

Title: Environmental Scientist

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Date: 04/14/2014

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File: DIR_LHCC_041414



**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:** 04/15/2014

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

Weather AM: Rain **Temperature** AM: 42
PM: Rain PM: 58

Tides High 0836 AM 2056 PM
Low 0210 AM 1407 PM

Manpower Onsite

Foreman 1 @ 12 Hrs
Chief Engineer 0 @ 0 Hrs
Operator 0 @ 0 Hrs
Mate 0 @ 0 Hrs
Deckhand 0 @ 0 Hrs
Tug Operator 0 @ 0 Hrs

Equipment Onsite

Description: Bobby D Hrs. 0
Red Skiff Hrs. 0
Lucinda Smith Hrs. 0
Eddie Carroll Hrs. 0
_____ Hrs. _____
_____ Hrs. _____
_____ Hrs. _____

Contractor Activities: (Attach Additional Sheets as Necessary)

0700 There is no activity on site. The Bobby D remains at Shusters bulkhead for repairs. 0900 Junior Mitchell informed APEX that the Bobby D will be down for another 5 days and the Lucinda Smith and Eddie Carroll will be in Connecticut for a week. 1615 There is no other activity at LHCC.

Visitors: _____

Signature: 

Title: Environmental Scientist

Date: 04/15/2014

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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: Mark Martinho **Date:** 04/16/2014

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

Weather	AM:	<u>Overcast</u>	Temperature	AM:	<u>33</u>
	PM:	<u>Clear</u>		PM:	<u>46</u>
Tides	High	<u>0918</u>	AM	<u>2138</u>	PM
	Low	<u>0250</u>	AM	<u>1445</u>	PM

Manpower Onsite

Foreman	<u>1</u>	@	<u>12</u>	Hrs
Engineer	<u>1</u>	@	<u>12</u>	Hrs
Maintenance Crew	<u>2</u>	@	<u>12</u>	Hrs
Mate	<u>0</u>	@	<u>0</u>	Hrs
Deckhand	<u>0</u>	@	<u>0</u>	Hrs
Tug Operator	<u>0</u>	@	<u>0</u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Red Skiff</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>0</u>
	<u>Eddie Carroll</u>	Hrs.	<u>0</u>
	<u> </u>	Hrs.	<u> </u>
	<u> </u>	Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0700 There is no activity on site. The Bobby D remains at Shusters bulkhead for repairs. 1456 The Wood 1 lowers materials onto the Bobby D. 1516 The Wood 1 is doing work on the boom of the Bobby D. 1546 The Wood 1 takes the bucket off the Bobby D's boom. 1656 The Wood 1 raises a new extension for the boom onto the Bobby D. 1858 Junior Mitchell and 3 other maintenance workers are on the Bobby D. 1953 All crew has left and there is no more activity on the Bobby D.

Visitors: _____

Signature: **Date:** 04/16/2014
Title: Environmental Scientist **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: Brett Young

Date: 04/17/2014

Contractor: Cashman/Weeks

Foreman/Supt: Junior Mitchell

Weather	AM:	<u>Sunny</u>	Temperature	AM:	<u>46</u>
	PM:	<u>Clear</u>		PM:	<u>33</u>

Tides	High	<u>1003</u>	AM	<u>2224</u>	PM
	Low	<u>0329</u>	AM	<u>1524</u>	PM

Manpower Onsite

Foreman	<u>0</u>	@	<u>0</u>	Hrs
Engineer	<u>0</u>	@	<u>0</u>	Hrs
Maintenance Crew	<u>0</u>	@	<u>0</u>	Hrs
Mate	<u>0</u>	@	<u>0</u>	Hrs
Deckhand	<u>0</u>	@	<u>0</u>	Hrs
Tug Operator	<u>0</u>	@	<u>0</u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Red Skiff</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>0</u>
	<u>Eddie Carroll</u>	Hrs.	<u>0</u>
	<u>Wood 1</u>	Hrs.	<u> </u>
	<u> </u>	Hrs.	<u> </u>
	<u> </u>	Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0700 There is no activity on site. The Bobby D remains at Shusters bulkhead tied to the Wood 1 for repairs. 1500 The Bobby D is tied to the Wood 1 at Shusters bulkhead. There is no activity on site.

Visitors:

Signature: *Brett Young*

Date: 04/17/2014

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: Brett Young

Date: 04/18/2014

Contractor: Cashman/Weeks

Foreman/Supt: Junior Mitchell

Weather	AM:	<u>Cloudy</u>	Temperature	AM:	<u>38</u>
	PM:	<u>Cloudy</u>		PM:	<u>46</u>

Tides	High	<u>1052</u>	AM	<u>2313</u>	PM
	Low	<u>0410</u>	AM	<u>1606</u>	PM

Manpower Onsite

Foreman	<u>0</u>	@	<u>0</u>	Hrs
Engineer	<u>0</u>	@	<u>0</u>	Hrs
Maintenance Crew	<u>0</u>	@	<u>0</u>	Hrs
Mate	<u>0</u>	@	<u>0</u>	Hrs
Deckhand	<u>0</u>	@	<u>0</u>	Hrs
Tug Operator	<u>0</u>	@	<u>0</u>	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Red Skiff</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>0</u>
	<u>Eddie Carroll</u>	Hrs.	<u>0</u>
	<u>Wood 1</u>	Hrs.	<u> </u>
	<u> </u>	Hrs.	<u> </u>
	<u> </u>	Hrs.	<u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

0700 There is no activity on site. The Bobby D remains at Shusters bulkhead tied to the Wood 1 for repairs. 1500 The Bobby D is tied to the Wood 1 at Shusters bulkhead. There is no activity on site.

Visitors:

Signature: 

Title: Environmental Scientist

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Date: 04/18/2014

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File: DIR_LHCC_041814



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:** 4/19/2014

Contractor: Cashman **Foreman/Supt:** _____

Weather	AM:	<u>Clear</u>	Temperature	AM:	<u>60</u>
	PM:	<u>Clear</u>		PM:	<u>32</u>
Tides	High	<u>1147</u>	AM	_____	PM
	Low	<u>0450</u>	AM	<u>1650</u>	PM

Manpower Onsite

Foreman	<u>0</u>	@	<u>0</u>	Hrs
Operators	<u>0</u>	@	<u>0</u>	Hrs
Laborers	<u>0</u>	@	<u>0</u>	Hrs
Drivers	<u>0</u>	@	<u>0</u>	Hrs
Other:	_____	@	_____	Hrs

Equipment Onsite

Description:	<u>Bobby D</u>	Hrs.	<u>0</u>
	<u>Eddie Carroll</u>	Hrs.	<u>0</u>
	<u>Ellsea</u>	Hrs.	<u>0</u>
	<u>Lucinda Smith</u>	Hrs.	<u>0</u>
	<u>Red Skiff</u>	Hrs.	<u>0</u>
	<u>SEI 2000</u>	Hrs.	<u>0</u>
	_____	Hrs.	_____

Contractor Activities: (Attach Additional Sheets as Necessary)

0640 No activity on site. 0739 Work is being performed on the Bobby D. at Shusters bulkhead. The mechanics are replacing the boom on the excavator. 1015 No activity on site. 1426 No activity on site.

Problems/Issues or Action Items:

Visitors:

Signature: *Kaios Ryan*
Title: Environmental Scientist

Date: _____
Page: 1 of 1

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File: DIR_LHCC_041914

Attachment 2
Water Quality Monitoring Forms

PROJECT: New Bedford Harbor Lower Harbor CAD Cell

JOB NUMBER: 6724

DATE: 4/15/2014

MONITORS: Mark Martinho

WEATHER CONDITIONS: High: 58 Low: 42

WIND: 13-17 mph Southwest

PRIOR STORM EVENTS:

DREDGE UPDATE:

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

TIDE High: 0842/2100 Low: 1357

Please Note: In some instances, the down-current monitoring event occurred prior to the up-current monitoring event. This is the result of the initial analysis of our field crew indicating one direction of flow, however our checks from our Quality Control program provided a more accurate depiction of the pattern, which is how the information is now presented below.



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
041514-00-1-1		800		1	1.89				
041514-00-1-5		802	10.7	5	2.11	lhcc wqm up			
041514-00-1-10	2689449, 816898	804		10	1.59	0800	Flooding	15' S of Silt Curtain	00
					AVERAGE TURBIDITY:	1.86			
041514-02-1-1		1000		1	4.95				
041514-02-1-4		1002	8.6	4	5.81	lhcc wqm up			
041514-02-1-8	2689988, 816566	1004		8	4.83	1000	Ebbing	15' N of Silt Curtain	02
					AVERAGE TURBIDITY:	5.20			
041514-04-1-1		1200		1	4.15				
041514-04-1-4		1202	8.2	4	3.83	lhcc wqm up			
041514-04-1-7	2689848, 816451	1204		7	3.95	1200	Ebbing	15' N of Silt Curtain	04
					AVERAGE TURBIDITY:	3.98			
041514-06-1-1		1400		1	6.26				
041514-06-1-4		1402	9.2	4	5.23	lhcc wqm up			
041514-06-1-8	2689956, 816442	1404		8	6.41	1400	Flooding	15' S of Silt Curtain	06
					AVERAGE TURBIDITY:	5.97			
041514-08-1-1		1600		1	4.31				
041514-08-1-4		1602	8.8	4	4.77	lhcc wqm up			
041514-08-1-8	2689913, 816431	1604		8	5.19	1600	Flooding	15' S of Silt Curtain	08
					AVERAGE TURBIDITY:	4.76			

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
041514-00-9-1		810		1	2.79				
041514-00-9-4		812	8.2	4	2.02	lhcc wq dn			
041514-00-9-7	2687790, 816867	814		7	3.47	0810	Flooding	15' N of Silt Curtain	00
					AVERAGE TURBIDITY:	2.76			
					TURBIDITY INCREASE:	0.90			
041514-02-9-1		1010		1	10.2				
041514-02-9-4		1012	8.5	4	12.8	lhcc wqm dn			
041514-02-9-8	2687500, 816614	1014		8	14.9	1010	Ebbing	15' S of Silt Curtain	02
					AVERAGE TURBIDITY:	12.63			
					TURBIDITY INCREASE:	7.44			
041514-04-9-1		1210		1	11.8				
041514-04-9-5		1212	10	5	13.5	lhcc wqm dn			
041514-04-9-9	2687567, 816632	1214		9	14.3	1210	Ebbing	15' S of Silt Curtain	04
					AVERAGE TURBIDITY:	13.20			
					TURBIDITY INCREASE:	9.22			
041514-06-9-1		1410		1	12.2				
041514-06-9-4		1412	8	4	12.4	lhcc wqm dn			
041514-06-9-7	2687557, 816681	1414		7	15	1410	Flooding	15' N of Silt Curtain	06
					AVERAGE TURBIDITY:	13.20			
					TURBIDITY INCREASE:	7.23			
041514-08-9-1		1610		1	11.9				
041514-08-9-3		1612	7.7	3	10.6	lhcc wqm dn			
041514-08-9-6	2687547, 816677	1614		6	10.8	1610	Flooding	15' N of Silt Curtain	08
					AVERAGE TURBIDITY:	11.10			
					TURBIDITY INCREASE:	6.34			

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