Weekly Field Report
Week: 02-02-14 through 02-08-14
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 fourteenth 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 14th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of February 2nd through February 8th, 2014. Daily contractor activities are included in the form of Daily Inspection Reports noting equipment observed on site and a summary of contractor activities. (See Attachment 1);
- Water Quality Monitoring Forms completed for the week of February 2nd through February 8th, 2014 are attached (See Attachment 2). 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 in the disposal scow for any visible debris or other items that could potential become a hazard to navigation prior to scow's departure for the offshore disposal site.

Summary:

The Contractor through its subcontractor, Tripp Marine conducted dredging at the LHCC on February 3rd, 4th, and 7th. Dredging operations focused on the strategic removal of Phase I Bottom of CAD Cell sediments to open up a 125-foot wide deep water channel entering in from the southwest corner of the LHCC to facilitate the access of larger barge mounted dredge equipment expected on site. 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). Tripp Marine was observed conducting these activities during the authorized operational window of 7AM until sunset, utilizing a single dredge plant; the tug *Sand Pebble;* a 900 cubic yard dump scow – *TMC 140*; 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. Dredging operations focused on the strategic removal of sediments to open up a 125-foot wide deep water access channel. Apex conducted one day of water quality monitoring on February 7th, 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. Three offshore disposal events, using the dump scow TMC-140, were recorded during the week and occurred on February 2nd, 6th and 7th. Adverse weather and sea conditions offshore limited dredging and disposal activities during the week.

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	2,400
Approximate Bottom of CAD Volume Dredged to Date*	4,600

* 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

Don 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: C. Stillman **Date:** 03 February 2014

Contractor: Tripp Marine Foreman/Supt: Pyne Tripp

Weather	AM:	Fog / Snow	**Temperature**	AM:	28
	PM:	Fog /Snow Winds 5-10k N		PM:	42

Tides	High	1025	AM	2254	PM
	Low	0339	AM	1553	PM

Manpower Onsite

Foreman	1	@ 8	Hrs
Operators	1	@ 8	Hrs
Laborers	1	@ 8	Hrs
Drivers		@	Hrs
Other:		@	Hrs

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. 8
	Scow TMC 140	Hrs. 8
	Push boat Sand Pebble	Hrs. 8
	Support boat	Hrs. 8
	Scow SEI 2000	Hrs. 0

Contractor Activities: (Attach Additional Sheets as Necessary)

Apex on-site at 0545 and is informed by Tripp Marine that dredging will begin at 0815. Dredging begins on schedule with materials being placed into scow TMC-140. Dredging continued until 1527 with end-of-day draft marks on the partially filled scow at 5' FWD and 7' AFT. Apex informed that dredging would resume at 0715 on 04FEB. Apex departs site at 1545.

No water quality issues were observed.

Problems/Issues or Action Items:

None / n/a

Visitors:

Signature: D. Boye Date: 03 February 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: J. Ray and B. Young **Date:** 04 February 2014

Contractor: **Tripp Marine** Foreman/Supt: Pyne Tripp

Weather	AM:	Clear	**Temperature**	AM:	34
	PM:	Clear. Winds 5k NW		PM:	21

Tides	High	1118	AM	2349	PM
	Low	0427	AM	1633	PM

Manpower Onsite

Foreman	1	@ 8	Hrs
Operators	1	@ 8	Hrs
Laborers	1	@ 8	Hrs
Drivers		@	Hrs
Other:		@	Hrs

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. 8
	Scow TMC 140	Hrs. 8
	Push boat Sand Pebble	Hrs. 8
	Support boat	Hrs. 8
	Scow SEI 2000	Hrs. 0

Contractor Activities: (Attach Additional Sheets as Necessary)

Apex on-site at 0758 to oversee dredging activities. 0843- Dredge Tripp 47 is moved into position to begin dredging. 0845- Dredge Tripp 47 begins dredging into Scow TMC 140. Dredge is facing west and dredging in between piles #2 and #3 approximately 100 feet north of the southern boundary of the silt curtain. 0855- TMC 140 draft- stern: 7.5', bow: 5'. 1055- Tripp 47 is not dredging. 1445- Tripp 47 resumes dredging near piles #2 and #3 in the southwest corner of the silt curtain area. 1630- Tripp 47 stops dredging for the day. TMC 140 draft- stern: 11' , bow: 9'

No water quality issues were observed during the day.

Problems/Issues or Action Items:

None / N/A

Visitors:

Signature: J. McAllister Date: 04 February 2014

Title: 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: C. Stillman **Date:** 05 February 2014

Contractor: Tripp Marine Foreman/Supt: Pyne Tripp

Weather	AM:	Overcast / Fog	**Temperature**	AM:	25
	PM:	Rain/Snow. Winds 10-15k NNE		PM:	34

Tides	High	-	AM	1212	PM
	Low	0521	AM	1717	PM

Manpower Onsite

Foreman	_____ @ _____	Hrs
Operators	_____ @ _____	Hrs
Laborers	_____ @ _____	Hrs
Drivers	_____ @ _____	Hrs
Other: _____	_____ @ _____	Hrs

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. _____
	Scow TMC 140	Hrs. _____
	Push boat Sand Pebble	Hrs. _____
	Support boat	Hrs. _____
	Scow SEI 2000	Hrs. _____

Contractor Activities: (Attach Additional Sheets as Necessary)

Apex on-site at 0500 to observe scow TMC-140 fully loaded from the prior days dredging. Informed by Tripp Marine that dredging will not occur today due to the full loaded scow, and that the current weather and offshore sea conditions will delay a disposal run to the Rhode Island Sound Disposal Site until the evening of 06FEB. Apex departs site.

No water quality issues were observed.

Problems/Issues or Action Items:

None / n/a

Visitors:

Signature: D. Boye Date: 05 February 2014

Title: 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: C. Stillman **Date:** 06 February 2014

Contractor: Tripp Marine Foreman/Supt: Pyne Tripp

Weather	AM:	Overcast.	**Temperature**	AM:	16
	PM:	Snow. Winds 5-10k NW		PM:	30

Tides	High	0044	AM	1306	PM
	Low	0645	AM	1809	PM

Manpower Onsite

Foreman	_____ @ _____	Hrs	
Operators	_____ @ _____	Hrs	
Laborers	_____ @ _____	Hrs	
Drivers	_____ @ _____	Hrs	
Other: _____	_____ @ _____	Hrs	

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. _____
	Scow TMC 140	Hrs. ___12___
	Push boat Sand Pebble	Hrs. ____4___
	Support boat	Hrs. _____
	Tug Guilford Courthouse	Hrs. ___12___

Contractor Activities: (Attach Additional Sheets as Necessary)

Apex on-site at 0830; no activity observed on-site. Informed by Tripp Marine at 1045 that scow TMC-140 is scheduled to depart for offshore disposal at the Rhode Island Sound Disposal site at 1430 today. Observed tug Guilford Courthouse and push boat Sand Pebble at 1530 maneuvering scow into position for readying scow for transit offshore.

No water quality issues were observed.

Problems/Issues or Action Items:

None / n/a

Visitors:

Signature: D. Boye Date: 06 February 2014

Title: 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: M. Martinho **Date:** 07 February 2014

Contractor: Tripp Marine Foreman/Supt: Pyne Tripp

Weather	AM:	Clear.	**Temperature**	AM:	10
	PM:	Sunny. Winds 10k or less. WSW		PM:	30

Tides	High	0141	AM	1403	PM
	Low	0839	AM	1912	PM

Manpower Onsite

Foreman	1	@ 8	Hrs
Operators	1	@ 8	Hrs
Laborers	1	@ 8	Hrs
Drivers		@	Hrs
Other:		@	Hrs

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. 8
	Scow TMC 140	Hrs. 8
	Push boat Sand Pebble	Hrs. 8
	Support boat	Hrs. 8
	Scow SEI 2000	Hrs. 0

Contractor Activities: (Attach Additional Sheets as Necessary)

Apex on-site at 0645; no activity observed on-site. Tripp Marine personnel arrive at 0730, and after mobilization, dredging begins at 0825. Dredge operations conducted within the confines of a silt curtain perimeter. Apex conducts water quality monitoring survey. Dredging continues until 1413 with all dredged materials loaded into scow TMC-140. End-of-day draft marks on the scow were 9' FWD and 11' AFT.

At 1520 Tripp Marine informs Apex that the schedule for transiting scow TMC-140 offshore for disposal has yet to be decided, but an update will be provided once the trip has been scheduled.

Apex departs site at 1630. No water quality issues were observed.

Problems/Issues or Action Items:

None / n/a

Visitors:

Signature: D. Boye Date: 07 February 2014

Title: 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: M. Tumolo **Date:** 08 February 2014

Contractor: Tripp Marine Foreman/Supt: Pyne Tripp

Weather	AM:	Clear	**Temperature**	AM:	17
	PM:	Sunny. Winds 5-10k W		PM:	28

Tides	High	0241	AM	1503	PM
	Low	0944	AM	2023	PM

Manpower Onsite

Foreman	_____ @ _____	Hrs	
Operators	_____ @ _____	Hrs	
Laborers	_____ @ _____	Hrs	
Drivers	_____ @ _____	Hrs	
Other: _____	_____ @ _____	Hrs	

Equipment Onsite

Description:	Dredge Tripp 47	Hrs. _____
	Scow TMC 140	Hrs. ___12_____
	Push boat Sand Pebble	Hrs. ____4___
	Support boat	Hrs. _____
	Tug Guilford Courthouse	Hrs. ___12___

Contractor Activities: (Attach Additional Sheets as Necessary)

0700 No activity occuring on-site. Apex observes scow TMC-140 returning northbound through the Rte. 6 bridge at 0815. Apex at LHCC site at 0850; no Tripp Marine staff observed. Apex contacts Tripp Marine at 0930 via cellular and is informed that dredging will not be performed today. Apex departs site at 0945.

No water quality issues were observed.

Problems/Issues or Action Items:

None / n/a

Visitors:

Signature: D. Boye Date: 08 February 2014

Title: 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**
SURVEY DATE:	**07 February 2014**
MONITORS:	**M. Martinho**
WEATHER CONDITIONS:	**Mostly cloudy** **Low: 10** **High: 30**
WIND CONDITIONS:	**Speed: 10k or less** **Direction: WSW**
PRIOR STORM EVENTS:	**N/A**
DREDGE / SCOW Position:	**Northing/Easting: SW corner of curtained area.**
TYPE OF WATER QUALITY MONITORING EVENT:	**TOP CAD Dredging / BTM CAD Dredging / Disposal**
TIDE INFORMATION:	**High: 0141/1403** **Low: 0839/1912**
WAS WATER QUALITY SAMPLING PERFORMED? (YES/NO):	**N** **IF YES, ATTACH COC FORMS**
GENERAL NOTES:	**Dredging begins at 0825, loading Bottom of CAD sediments into scow TMC-140. Dredging ends for the day at 1413.**

APEX

UP-CURRENT

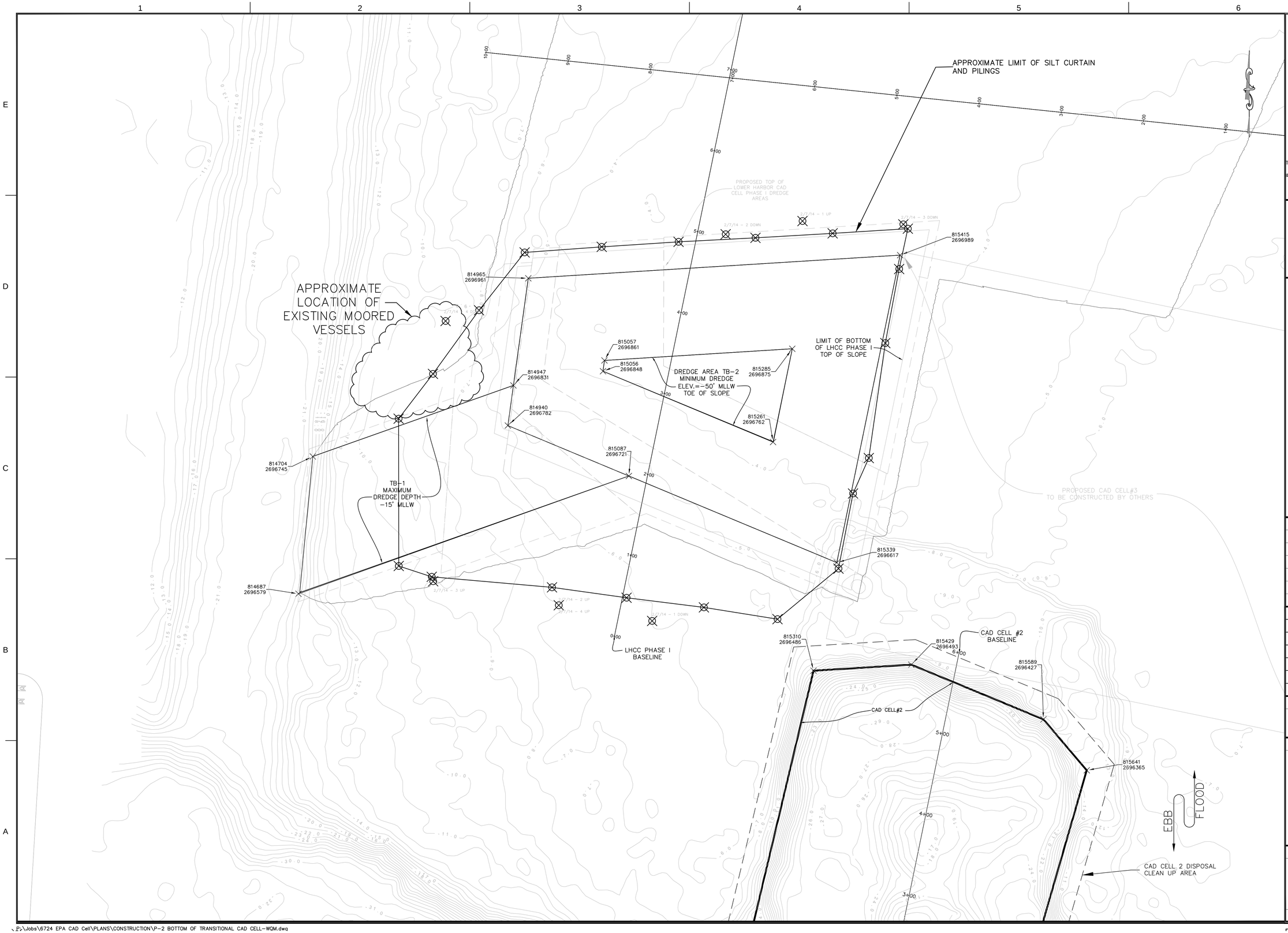
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
020714-00-1-1	2697030 / 815297	0830	4.2	1	3.4		Ebbing / Slack	200' N of Dredge	0
020714-00-1-2		0832		2	4.3				
020714-00-1-4		0834		4	4.7				
			AVERAGE TURBIDITY:		4.13				
020714-02-1-1	2696565 / 815002	1030	8.1	1	2.9		Flooding tide	200' S of Dredge	2
020714-02-1-4		1032		4	3.5				
020714-02-1-8		1034		8	3.9				
			AVERAGE TURBIDITY:		3.43				
020714-04-1-1	2696594 / 814850	1230	11.6	1	3.4		Flooding tide	200' S of Dredge	4
020714-04-1-5		1232		5	3.9				
020714-04-1-10		1234		10	4.2				
			AVERAGE TURBIDITY:		3.83				
020714-06-1-1	2696565 / 815002	1430	10.1	1	3.7		Ebbing	200' N of Dredge	6
020714-06-1-5		1432		5	3.6				
020714-06-1-9		1434		9	3.8				
			AVERAGE TURBIDITY:		3.70				
			AVERAGE TURBIDITY:						

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
020714-00-9-1	2696546 / 815115	0840	6.8	1	3.9		Ebbing / Slack	200' S of Dredge	0
020714-00-9-3		0842		3	4.2				
020714-00-9-6		0844		6	4.4				
			AVERAGE TURBIDITY:		4.17				
			TURBIDITY INCREASE:		0.03				
020714-02-9-1	2697014 / 815204	1040	4.6	1	3.3		Flooding tide	200' N of Dredge	2
020714-02-9-2		1042		2	6.8				
020714-02-9-4		1044		4	9.1				
			AVERAGE TURBIDITY:		6.40				
			TURBIDITY INCREASE:		2.97				
020714-04-9-1	2697026 / 815419	1240	10.6	1	4.7		Flooding tide	200' N of Dredge	4
020714-04-9-5		1242		5	6.9				
020714-04-9-10		1244		10	9.4				
			AVERAGE TURBIDITY:		7.00				
			TURBIDITY INCREASE:		3.17				
020714-06-9-1	2696909 / 814865	1435	12.2	1	2.7		Ebbing	200' S of Dredge	6
020714-06-9-5		1437		5	3.9				
020714-06-9-11		1439		11	4.6				
			AVERAGE TURBIDITY:		3.73				
			TURBIDITY INCREASE:		0.03				
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						

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

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



APEX

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

PROJECT

NEW BEDFORD HARBOR
DEVELOPMENT COMMISSION
LOWER HARBOR CAD CELL

OWNER

NEW BEDFORD
HARBOR DEVELOPMENT COMMISSION
52 FISHERMAN'S WHARF, NEW BEDFORD, MA 02740

NO	DATE	DESCRIPTION	BY
1	9/25/2012	EPA COMMENTS	GCD
2	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

GRAPHIC SCALE

SCALE: 1"=50'

0 25 50 100

SHEET TITLE

BOTTOM OF LOWER HARBOR CAD CELL PHASE 1 WATER QUALITY 2/2/14-2/8/14

DRAWING NO.

WQM-1

6 OF 15

P:\Jobs\6724 EPA CAD Cell\PLANS\CONSTRUCTION\P-2 BOTTOM OF TRANSITIONAL CAD CELL-WQM.dwg

PLOT SCALE 1/16"=1'-0"