Weekly Field Report Week: 12-22-13 through 12-28-13 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 eighth 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 Eighth Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of December 22nd through December 28th. 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 December 22nd through December 28th are attached (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 events a minimum of two days per week.
 - Conducted water quality monitoring for disposal events into either the existing CAD Cell #2 or CAD Cell #3 of Top of LHCC sediments removed by this Project.
 - Performed visual inspections of dredged materials in the disposal scow prior to disposal to ascertain the effectiveness of dewatering. If deemed necessary by the visual inspection, Apex will monitor the water quality of the effluent discharge from the carbon filtration system.

2. Summary:

The Contractor, through its subcontractor, Tripp Marine, conducted dredging at the LHCC daily December 23rd through the 28th. Dredging operations focused on the removal of Phase I Top of CAD cell sediments and the disposal of these sediments into CAD Cell #3. During this reporting period, dredging operations were conducted using a conventional digging bucket in certain areas of the dredge footprint where dense sandy materials were known to exist, per verbal approval discussed at the November 13th project meeting and the subsequent formal letters provided on November 21st and December 23rd. 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*; a 3000 cubic yard pocket scow SEI-2000, and a small utility boat. Tripp Marine was utilizing the Cashman dewatering barge as a staging area for dewatering operations and as an aid in accurately positioning the dump scow for disposal

Weekly Monitoring Report Lower Harbor CAD Cell

operations into CAD Cell #3. Dredging operations were conducted without the use of silt curtains because these activities lie outside the time of year restrictions noted in the Project Specifications.

3. Operational Notes:

Dredging:

Dredging at the LHCC continued through the week of December 22nd utilizing an open conventional digging bucket, per the terms outlined in the letters issued on November 21st and December 23rd. Apex conducted four days of water quality monitoring while the open conventional bucket was being used to ensure that the use of the conventional bucket did not result in an exceedance of any project-specific water quality standards. Water quality monitoring was completed on the 23rd, 24th, 26th, and 28th of December. Monitoring of dredging activities will continue on a schedule of a minimum of two events per week as required by the project performance standards.

Disposal:

Disposal of "Top of LHCC" sediments was conducted daily December 23rd through the 28th. Based on scow logs, approximately 500 and 800 cubic yards of material (assuming 120 pounds/ft³ for dredged materials) was placed into CAD Cell #3 during each disposal event for scow TMC-140 and SEI-2000, respectively. Sediments contained in the scow were inspected prior to each disposal to assess the effectiveness of dewatering. Water quality monitoring, required for each CAD Cell disposal event, was completed for each day of disposal activity.

Table 1 – Cumulative Dredging Progress

Period of Activity	Volume (cy)
Approximate Vol. Dredged this Reporting Period	3,000
Approximate Volume Dredged to Date	18,400

4. Monitoring Summary

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

Don Bové

Prepared by:

Apex Companies, LLC

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

ect Engineer Senior Project Manager

Attachment 1 Daily Inspection Reports



			ır	isped	tion Report			
Inspector:	K. Ryan, J.	Poirier			-	Date	e: 23 Decem	ber 2013
Contractor:	Tripp Mar	ine			Foreman/Supt: F	yne Tripp)	
Weather	AM: PM:	Overcast,	/Rain. /Rain. Wind	ds 5-10	Temperature Dk N	AM: PM:	36 48	
Tides	High Low		123 433	_AM _AM		PM PM		
Manpower O	nsite				Equipment Onsi	ite		
Other:	Foreman Operators Laborers Drivers	1 1	@8 @8 @8_ @	Hrs Hrs Hrs	Description:	Scov sh boat Sa Su	w TMC 140 and Pebble pport boat w SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8
Contractor Ac	tivities: (At	tach Addit	ional Shee	ts as N	ecessary)			
disposal authori which scow was bucket in Dredgo 1336, at which p scow were 10' F	zation. Dre maneuvere e Area T-6, oint scow T WD / AFT.	dged mate ed alongsio with dredg TMC-140 is Apex inspe re observe	erials held i de dredge p ged materia maneuver ected mate	n scovolant. als beinded over the second over	ng placed into sco er to the dewateri n scow TMC-140 fo	lisposed in t 0820 us w TMC-14 ng barge.	nto CAD Cell ing the oper 40. Dredgin End-of-day	#3 at 0800, after n conventional digging g continued until draft marks on the
Problems/Issu None / N/A	ues or Actio	n Items:						
Visitors:								
Signature: Title:	D. Boye				<u>.</u>		e: <u>23 Decem</u> e: <u>1_</u> of_	
Copy to:	file				-	File	e: <u>DIR_LHCC</u>	



			inspec	tion Report			
Inspector:	M. Tumolo	o, J. Poirier		-	Date	: 24 Decem	ber 2013
Contractor:	Tripp Mar	ine		Foreman/Supt	: Pyne Tripp		
Weather	AM: PM:	Overcast/Rain. W		-	PM:	28 39	
Tides	High Low	0001 0521	AM AM	1209 1745	PM PM		
Manpower O Other:	Foreman	1@8	Hrs Hrs Hrs	·	Dredg Scow Push boat Sa Sur	e Tripp 47 / TMC 140 nd Pebble pport boat v SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8 Hrs8
Contractor Ac	tivities: (At	tach Additional Sh		ecessary)			
Apex on-site at (disposal authoriwhich scow was bucket, with drescow TMC-140 is End-of-day draft No water quality	oraged mater graneuvere graneuvere s maneuver marks on t	duct oversight of conditions o	dredging a ld in scov ge plant. into scow watering l	activities and to v TMC-140 wer Dredging begin TMC-140. Dre barge.	e disposed in is at 0930 usi	to CAD Cell	
Problems/Issu None / N/A	ues or Actio	n Items:					
Visitors:							
Signature: Title:	D. Boye					: <u>24 Decem</u> : <u>1of_</u>	
Copy to:	file			-	File	: <u>DIR_LHCC</u>	C_122413



				ispec	tion Kepoi			
Inspector:	A. Hart				-	D	ate: 25 Decem	ber 2013
Contractor:	Tripp Mar	ine			Foreman/Sup	t: Pyne Tr	ірр	
Weather	AM: PM:	Ptly. Cloud		10-15	Temperate NW	ure AM PM		
Tides	High Low		047 620	_AM _AM	1258 1839	PM PM		
Manpower O	nsite				Equipment C	Onsite		
Other:	Foreman Operators Laborers Drivers	1(1(@8 @8_ @8 @ @	Hrs	Description:	Sush boat	edge Tripp 47 cow TMC 140 t Sand Pebble Support boat cow SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8
Contractor Ad	tivities: (At	tach Additi	onal Shee	ts as N	ecessary)			
Apex on-site at (Dredged materi maneuvered alo No water quality	0705 to con als held in s ngside dred r issues wer erformed du v TMC-140.	duct oversi scow TMC- lge plant. N e observed uring the da	ght and to 140 were Water qua I. ay using th	inspe dispos lity mo	ct dredged ma ed into CAD C onitoring was p n conventional	ell #3 at 08 performed	325, after whic during the disp	
Problems/Iss None / N/A	ues or Actio	n Items:						
Visitors:								
Signature: Title:	D. Boye				- -		ate: <u>25 Decem</u> age: <u>1_</u> _of_	
Copy to:	file				-		File: <u>DIR_LHCC</u>	C_122513



							_				
Inspector:	J. Ray					-		Date:	26 Decem	ber 201	13
Contractor:	Tripp Mar	ine				Foreman/Sup	t: Pyr	ne Tripp			
Weather	AM: PM:	Overca Rain. W			shift	Temperatu	ıre	AM: PM:	18 41		
Tides	High Low		0138 0732		AM AM	1354 1941	PN				
Manpower O	nsite					Equipment C	nsite				
Other:	Foreman Operators Laborers Drivers	1 1	@_ @_	8	Hrs Hrs	Description:	Pu <u>sh</u>	Scow boat Sar Sup	e Tripp 47 TMC 140 and Pebble port boat v SEI 2000	Hrs	
Contractor Ac	tivities: (At	tach Ado	ditiona	l Sheets	s as N	ecessary)					
Apex on-site at (disposal authoriwhich scow was bucket, with drescow TMC-140 is End-of-day draft No water quality	zation. Dre maneuvere dged mate s maneuver marks on t vissues wer	dged ma ed along rials bein red over he scow	aterial: side di ng plac to the were wed du	s held ir redge p ced into dewate 9' FWD	n scov lant. scow ering l	v TMC-140 wei Dredging begii TMC-140. Dr barge.	re disp ns at 1	oosed in 100 usir	to CAD Cell	l #3 at 1 n convei	.018, after ntional digginย
Problems/Issi None / N/A	ues or Actio	n Items:	!								
Visitors:											
Signature: Title: Copy to:	D. Boye					- -		Page:	26 Decem 1of : DIR_LHCC	_1	
- COP, 10.						-		1110	<u> </u>		<u>~</u>



				ispec	tion Kepoi				
Inspector:	K. Ryan, J.	Poirier			-		Date	27 Decem	nber 2013
Contractor:	Tripp Mar	ine			Foreman/Sup	ot: Pyn	e Tripp		
Weather	AM: PM:	Ptly. Clou	ıdy ıdy. Winds	5k W	Temperati	ure	AM: PM:	21 36	
Tides	High Low		234 846	_AM _AM	1454 2043	PN PN			
Manpower O	nsite				Equipment C	Onsite			
Other:	Foreman Operators Laborers Drivers	1 1	@8 @8 @8_ @	Hrs	Description:	Push I	Scow boat Sar Sup	e Tripp 47 7 TMC 140 and Pebble oport boat v SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8
Contractor Ad	tivities: (At	tach Addit	ional Shee	ts as N	ecessary)				
Apex on-site at (disposal authoriwhich scow was bucket, with drescow TMC-140 is End-of-day draft No water quality	D645 to con zation. Dre maneuvere edged mate s left alongs marks on t y issues wer	duct overs dged mate ed alongsic rials being side dredg the scow w	ight of dre erials held de dredge p placed into e plant for vere 9' FWI	dging ain scowolant. So scowothe ov	activities and t v TMC-140 we Dredging begi v TMC-140. Dr ernight.	re disp	osed in 133 usii	to CAD Cell	ials in scow for I #3 at 0838, after n conventional digging 609, at which point
Problems/Issi None / N/A	ues or Actic	n Items:							
Visitors:									
Signature: Title:	D. Boye				-			: <u>27 Decem</u> :1of	
Copy to:	file				-		File	: DIR_LHCC	C_122713



				ln	spec	tion Report				
Inspector:	K. Ryan, J.	Poirier						Date	: 28 Decem	nber 2013
Contractor:	Tripp Mar	ine				Foreman/Sup	t: Pyn	e Tripp	1	
Weather	AM: PM:	Overca Overca		ds 10-	15k SV	Temperatu V	ıre	AM: PM:	<u>21</u> 50	
Tides	High Low		0334 0949		AM AM	1558 2139	PN PN			
Manpower O						Equipment O	nsite			
Other:	Foreman Operators Laborers Drivers	1 1		8	Hrs	Description:	Push	Scov boat Sa Su	v TMC 140 and Pebble pport boat w SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8
Contractor Ac	tivities: (Att	tach Ado	litional	Sheet	s as N	ecessary)				
140 were dispos begins at 0925 u	zation. Upo w TMC-140 ed into CAE sing the ope	n arrival was insp Cell #3 en conve	scow - pected at 082 entiona	TMC-14 at 081 6, afte al diggi	40 was 5 and r whic ng buo	s being shifted cleared for dis h scow was ma cket, with dred	over to posal. aneuve lged m	to the o Dredgo ered alo naterial	lewatering led materials ongside dre s being place	
End-of-day draft No water quality						0.5 AFT.				
Problems/Issu None / N/A	ues or Actio	n Items:								
Visitors:										
Signature: Title:	D. Boye								e: <u>28 Decem</u> e: <u>1_</u> _of	
Copy to:	file							File	: DIR_LHCC	C_122813

Attachment 2 Water Quality Monitoring Forms

PROJECT:	New Bedford Harbor Lo	wer Harbor C	AD Cell				
JOB NUMBER:	6724						
SURVEY DATE:	23 December 2013						
MONITORS:	K. Ryan, J. Poirier						
WEATHER CONDITIONS:	Overcast and Rain.	Low:	36	High:	48		
WIND CONDITIONS:	Speed: 5	5-10k	Direction: 1	1			
PRIOR STORM EVENTS:	N/A						
DREDGE / SCOW Position:	Northing/Easting: 2	2696942 / 8150	39				
TYPE OF WATER QUALITY	MONITORING EVENT:	TOP CAD Dre	edging / BTM	I CAD Dredging	/ Disposal		
TIDE INFORMATION:	High: 1	1123	Low: (433/1701			
WAS WATER QUALITY SA	MPLING PERFORMED?	(YES/NO):	N I	F YES, ATTACH	COC FORMS		
GENERAL NOTES:	Dredging begins at 0840	and ends for	the day at 14	27			<u> </u>



					UP-CURRE	<u>ENT</u>			
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
122313-00-1-1		0843]	1	4.9				
122313-00-1-17.5	2694995 / 814896	0845	36	17.5	4.8		Flooding tide	200' S of Dredge	0
122313-00-1-35		0847		35	4.1				
			AVERAGE T	URBIDITY:	4.60	_			
122313-02-1-1		1042	1	1	4.8	1			
122313-02-1-19	2694972 / 814919	1042	38.5	19	4.5	1	Flooding tide	200' S of Dredge	2
122313-02-1-19		1044	30.5	38	4.5	1	3		
122010 02 1 00	Į.	1040	AVERAGE T		4.43				
						_			
122313-04-1-1		1245		1	4.2				
122313-04-1-4	2697050 / 815119	1247	9	4	5.8		Ebbing	200' N of Dredge	4
122313-04-1-7		1249		7	8.8				
			AVERAGE T	URBIDITY:	6.27	_			
122313-06-1-1	ı	1536	1	1	5	ı		1	
122313-06-1-1	2696905 / 815020	1538	8.3	4	6.5	1	Ebbing	200' N of Dredge	6
122313-06-1-8	20000007010020	1540	6.3	8	8.4	1	2559	200 11 01 D100g0	· ·
122010 00 1 0	1	1340	AVERAGE T		3.4				
					1				
			ļ ļ			4			
			<u> </u>						
			AVERAGE T	URBIDITY:		_			

Monitoring ID # 22313-00-9-1 22313-00-9-3.5 22313-00-9-7	NORTHING / EASTING 2697248 / 815095 2697022 / 815027	0850 0852 0854 1049	TOTAL WATER DEPTH (ft) 8 AVERAGE T TURBIDITY I		TURBIDITY (NTUs) 5.3 13.7 17.1 12.03	GPS FILE NAME	TIDAL STAGE Flooding tide	DISTANCE FROM LOCATION 200' N of Dredge	NUMBER OF HOURS DREDGING
22313-00-9-3.5 22313-00-9-7 22313-02-9-1		0852 0854 1049	AVERAGE T	3.5 7 URBIDITY:	13.7 17.1		Flooding tide	200' N of Dredge	0
22313-00-9-7 22313-02-9-1		1049	AVERAGE T	7 URBIDITY:	17.1	1	Flooding tide	200' N of Dredge	0
22313-02-9-1	2697022 / 815027	1049		URBIDITY:					
	2697022 / 815027				12.03				
	2697022 / 815027		TURBIDITY	NCREASE:					
	2697022 / 815027				7.43				
22313-02-9-3.5	2697022 / 815027		J L	1	5.2				
EE0.0 0E 0 0.0		1051	7	3.5	15.7		Flooding tide	200' N of Dredge	2
22313-02-9-6		1053		6	16.5				
			AVERAGE T	URBIDITY:	12.47				
			TURBIDITY I	NCREASE:	8.03				
22313-04-9-1		1252		1	4.8				
22313-04-9-5	2696462 / 814998	1254	10.7	5	7.5	1	Ebbing	200' S of Dredge	4
22313-04-9-10		1256	1	10	8	1			
			AVERAGE T	URBIDITY:	6.77				
			TURBIDITY I	NCREASE:	0.50				
22313-06-9-1		1542		1	7.3				
22313-06-9-4.5	2696246 / 814985	1544	9.2	4.5	6.3		Ebbing	200' S of Dredge	6
22313-06-9-9		1546		9	8.7				
			AVERAGE T	URBIDITY:					
			TURBIDITY I	NCREASE:					
] []			
				UDDIDITY.					
			AVERAGE T			-			
			TURBIDITY	NUREASE:	<u> </u>	_			

PROJECT:	New Bedford Harbor I	Lower Harbo	or CAD Cell						
JOB NUMBER:	6724							_	
SURVEY DATE:	23 December 2013								
MONITORS:	K. Ryan, J. Poirier								
WEATHER CONDITIONS:	Overcast and Rain.	Low:	: 36	High:	48			_	
WIND CONDITIONS:	Speed:	5-10k	Direction:	N					
PRIOR STORM EVENTS:	N/A							= AF	
DREDGE / SCOW Position	n: Northing/Easting:	CAD Cell #	3					_ ^ _	
TYPE OF WATER QUALIT	TY MONITORING EVENT	: TOP CAD	Dredging / BT	M CAD Dredg	ing / Disposa	al		_ /\	ノI― X
TIDE INFORMATION:	High:	1123	Low:	0433/1701				- /\l	
WAS WATER QUALITY S.	AMPLING PERFORMED	? (YES/NO):	: N	IF YES, ATTA	ACH COC FOR	RMS			
GENERAL NOTES:	Disposal into CAD Cel	ll #3 occurre	d at 0800						
					UP-CURRI	<u>ENT</u>			
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
122313-01-1-1		0810		1	4.1				
122313-01-1-9.5		0812	19.8	9.5	9.8		Flooding tide	200' S of Disposal	post
122313-01-1-19		0814	1	19	13.8				
			AVERAGE 1	TURBIDITY:	9.23				
			1						
			1						
	-	-	AVERAGE	TURBIDITY:					<u> </u>
			1						
	1		1			1			
	•		AVERAGE	TURBIDITY:					
	7		1		İ	1			
	1		1			1			
	-	•	AVERAGE	TURBIDITY:					

AVERAGE TURBIDITY:

		_			Down-Curr	rent			
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
22313-01-9-1		0819		1	5.2				
22313-01-9-17	_	0821	8.8	17	9.1	4	Flooding tide	200' N of Disposal	post
22313-01-9-34		0823		34	11.5				
			AVERAGE T		8.60				
			TURBIDITY	INCREASE:	-0.63				
						_			
			AVERAGE T	TURBIDITY:					
			TURBIDITY	INCREASE:					
			AVERAGE T						
			TURBIDITY	INCREASE:		_			
	ı					1			
	_		-			4			
	_		-			4			
			11/551057			ļ			
			AVERAGE T			-			
			TURBIDITY	INCREASE:	l	_			
	-	-	-			-			
	1	<u> </u>	AVERAGE T	I IDRINITY:					
			TURBIDITY			1			
			IUNDIDIT	INUNEASE.		_			

PROJECT:	New Bedford Harbor Lowe	Harbor CA	AD Cell				
JOB NUMBER:	6724						
SURVEY DATE:	24 December 2013						
MONITORS:	M. Tumolo, J. Poirier						
WEATHER CONDITIONS:	Overcast and Rain.	Low:	28	High:	39		
WIND CONDITIONS:	Speed: 10k		Direction: NNW				
PRIOR STORM EVENTS:	N/A						
DREDGE / SCOW Position	: Northing/Easting: 2696	942 / 81503	39				
TYPE OF WATER QUALIT	Y MONITORING EVENT: TO	P CAD Dre	dging / BTM CAD	Dredging	/ Disposal		
TIDE INFORMATION:	High: 0001	/1209	Low: 0521/1	745			
WAS WATER QUALITY SA	MPLING PERFORMED? (YE	S/NO):	N IF YES	S. ATTACI	LCOC FORMS		



WAS WATER QUALITY S	SAMPLING PERFORMED	? (YES/NO):	. N	IF YES, ATTA	ACH COC FOR	MS			
GENERAL NOTES:	Dredging begins at 09	30 and ends	for the day at 14	421					
					UP-CURRE	<u>NT</u>			
		1							
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 HOUI DREDGING
· ·			DEPTH (II)	DEPTH (II)	(NTUS)			OF WEASUREMENT	DREDGING
22413-00-1-1		0845		1	5.2				
22413-00-1-3	2696520 / 815158	0847	7	3	5.2		Flooding tide	200' S of Dredge	0
22413-00-1-6		0849		6	6.8				
			AVERAGE T	TURBIDITY:	5.73				
				1					
22413-02-1-1	0000470 / 04500 *	1025	4	1	10.9	_	Election de	00010 - (D)	
22413-02-1-6	2696476 / 815294	1027	13	6	11	4	Flooding tide	200' S of Dredge	2
22413-02-1-12		1029		12	6.5	 			
			AVERAGE T	TURBIDITY:	9.47				
22413-04-1-1		1224		1	5.3			I	
22413-04-1-1	2696903 / 814691	1224	24	11.5	4.6	1	Ebbing	200' N of Dredge	4
122413-04-1-23	20000007011001	1228	24	23	4.0	1	g	200 11 01 210ago	
122410 04 1 20		1220	AVERAGE T		4.63	1			
						_			
122413-06-1-1		1428		1	5.1				
122413-06-1-12	2696441 / 814661	1430	24.9	12	6.5		Ebbing	200' N of Dredge	6
122413-06-1-24		1432		24	4.8				
			AVERAGE T	TURBIDITY:	5.47				
	1	1	1		1	1		1 1	
			-			-			
			1			-			
			AVERAGE T	FI IDDIDITY:		 		l I	
			AVERAGE	I OKBIDIT T.	1	4			
					Down-Curr	ent			
		1							
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOU DREDGING
22413-00-9-1		0900		1	6.6				
22413-00-9-3	2697271 / 815177	0902	7	3	6.4		Flooding tide	200' N of Dredge	0
			1	6	6.3				
122413-00-9-6		0904			0.3				
		0904	AVERAGE T	TURBIDITY:	6.43 0.70				

					Down-Cur	rent .			
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
122413-00-9-1		0900		1	6.6				
122413-00-9-3	2697271 / 815177	0902	7	3	6.4	」 Ⅰ	Flooding tide	200' N of Dredge	0
122413-00-9-6		0904		6	6.3				
			AVERAGE T	TURBIDITY:	6.43				
			TURBIDITY	INCREASE:	0.70				
122413-02-9-1	_	1030	_	1	5.8	.			
122413-02-9-3	2697121 / 815156	1032	6	3	5.9		Flooding tide	200' N of Dredge	2
122413-02-9-5		1034		5	5.9				
			AVERAGE T		5.87				
			TURBIDITY	INCREASE:	-3.60	1			
	•							•	
122413-04-9-1		1236	4	1	5.2	_			
122413-04-9-7.5	2696398 / 814823	1238	15.7	7.5	4.5	_	Ebbing	200' S of Dredge	4
122413-04-9-15		1240		15	4.8				
			AVERAGE T		4.83				
			TURBIDITY	INCREASE:	0.20				
122413-06-9-1		1440		1	5				
122413-06-9-7	2696406 / 814818	1442	14.3	7	5.1	1 1	Ebbing	200' S of Dredge	6
122413-06-9-14		1444	1	14	5.3	1 1			
			AVERAGE T	URBIDITY:	5.13				
			TURBIDITY	INCREASE:	-0.33				
					•	_			
			1						
			1						
			AVERAGE T	URBIDITY:					
			TURBIDITY	INCREASE:		1			
					•				

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

PROJECT:	New Bedford Harbor L	ower Harbo	r CAD Cell						
JOB NUMBER:	6724							•	
SURVEY DATE: MONITORS:	24 December 2013 M. Tumolo, J. Poirier								
WEATHER CONDITIONS:	Overcast and Rain.	Low:	28	High:	39				EX
WIND CONDITIONS:	Speed:		Direction:						
PRIOR STORM EVENTS:	N/A								
DREDGE / SCOW Position								ΛГ	
TYPE OF WATER QUALIT TIDE INFORMATION:		0001/1209			ing / Disposa			/-> -	
WAS WATER QUALITY SA					CH COC FOR	MS		/ 11	
GENERAL NOTES:	Disposal into CAD Cell					0		•	
					UP-CURRE	<u>NT</u>			
		_							
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
122413-01-1-1		0825		1	5.7				
122413-01-1-5	2696128 / 815573	0827	10	5	5.9		Flooding tide	200' S of Disposal	post
122413-01-1-9		0829	AVERAGE 1	9 TURRIDITY:	6 5.87				
			AVENAGE	TORDIDIT I.	3.07	1			
			AVED 405	TUDDIDITY.					
			AVERAGE	TURBIDITY:		1			
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			AVERAGE	TURBIDITY:		1			
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			AVERAGE	TURBIDITY:		_			
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			AVERAGE	TURBIDITY:					
					Down-Curr	ent			
		1			DOWII-CUII	ent			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
			DEPTH (ft)	DEPTH (ft)	(NTUs)			LOCATION	DREDGING
122413-01-9-1	2000040 / 045244	0830		1	7.2		Flooding tide	200! N. of Dioposal	2004
122413-01-9-3 122413-01-9-6	2696940 / 815241	0832 0834	6.5	3 6	8.8 9.8	-	Flooding tide	200' N of Disposal	post
122413-01-9-0		0634	AVERAGE		8.60				
			TURBIDITY		2.73				
	-					-			
	-		1			-			
			AVERAGE	TURBIDITY:					
			TURBIDITY	INCREASE:					
			<u></u>			1			
<u> </u>	-		-			-			
-	1		1			1			
	•		AVERAGE	TURBIDITY:					
1			TURBIDITY						
<u> </u>	1				1				
<u> </u>	-		-			-			
-	1		1			1			
			AVERAGE	TURBIDITY:					
			TURBIDITY]			

AVERAGE TURBIDITY: TURBIDITY INCREASE:

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

PROJECT:	New Bedford Harbor L	ower Harb	or CAD Cell						
JOB NUMBER:	6724								
SURVEY DATE:	25 December 2013								
MONITORS:	A. Hart								
WEATHER CONDITIONS:	Partly Cloudy. Tempe	ratures 16F	early, increasing	to 28F PM				_	
WIND CONDITIONS:	Speed:	10-15k	Direction:	NW					
PRIOR STORM EVENTS:	N/A								
DREDGE / SCOW Position	n: Northing/Easting:	CAD Cell #	3					AF	
TYPE OF WATER QUALIT	TY MONITORING EVENT	: TOP CAD	Dredging / BT	M CAD Dredg	jing / Disposa	al		/\	ノI— X
TIDE INFORMATION:	High:	0047/1258	Low:	0620/1839				- /¬\ -	
WAS WATER QUALITY SA	AMPLING PERFORMED	? (YES/NO)	: N	IF YES, ATT	ACH COC FOR	RMS			
GENERAL NOTES:	Disposal into CAD Cel	l #3 occurre	d at 0825					_	
					UP-CURRE	<u>ENT</u>			
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
122513-01-1-1		0825		1	3.1				
122513-01-1-9	2696226 / 815369	0827	19.1	9	3.2		Flooding tide	200' S of Disposal	post
122513-01-1-18		0829		18	3.2				
			AVERAGE	TURBIDITY:	3.17				
	1	1	т	Т	T	1		ī	1
			4						
	_		4			_			
	!		AVERAGE	TURBIDITY:				1	<u>l</u>
			_						
			AVERAGE	TURBIDITY:					
	1		1			1			
	1		7			1			
	•		AVERAGE	TURBIDITY:				•	•

AVERAGE TURBIDITY:

					Down-Curr	rent .			
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
22513-01-9-1		0832		1	4.3				
22513-01-9-3	2696947 / 815233	0834	7.1	3	6.2	1	Flooding tide	200' N of Disposal	post
22513-01-9-6		0836		6	3.4				
			AVERAGE T		4.63				
			TURBIDITY	INCREASE:	1.47				
	4		4			4 1			
		<u>l</u>	AVERAGE T	URBIDITY:		<u> </u>			
			TURBIDITY]			
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			AVERAGE T	URBIDITY:					
			TURBIDITY	INCREASE:					
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			AVERAGE T	URBIDITY:					
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•			AVERAGE T						•
			TURBIDITY	NCREASE:		_			

PROJECT:	New Bedford Harbor L	ower Harbor C	AD Cell				
JOB NUMBER:	6724						
SURVEY DATE:	26 December 2013						
MONITORS:	J. Ray						
WEATHER CONDITIONS:	Overcast and Rain.	Low:	18	High:	41		
WIND CONDITIONS:	Speed:	5-10k	Direction	n: SE shifting to W	PM		
PRIOR STORM EVENTS:	N/A						
DREDGE / SCOW Position	: Northing/Easting:	2696852 / 8152	80				
TYPE OF WATER QUALIT	Y MONITORING EVENT	: TOP CAD Dre	edging / E	BTM CAD Dredging	/ Disposal		
TIDE INFORMATION:	High:	0138/1354	Lov	v: 0732/1941			
WAS WATER QUALITY SA	MPLING PERFORMED?	YES/NO):	N	IF YES, ATTACH	COC FORMS		
GENERAL NOTES:	Dredging begins at app	proximately 110	0 and end	s for the day at 161	3		



					UP-CURRE	<u>INT</u>			
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
122613-00-1-2		1046		2	2.1				
122613-00-1-5	2696344 / 815097	1048	10	5	2.1		Flooding tide	200' S of Dredge	0
122613-00-1-8		1050		8	2.8				
			AVERAGE T	URBIDITY:	2.33]			
	1					T			T
122613-02-1-2		1252	1 .	2	2.4				_
122413-02-1-5	2696665 / 815183	1254	11	5	2.1	_	Flooding tide	200' S of Dredge	2
122413-02-1-9		1256		9	2				
			AVERAGE T	URBIDITY:	2.17]			
122613-04-1-2		1449		2	2.5	I			
122613-04-1-6	2696999 / 814897	1451	12	6	2.6	1	Ebbing	200' N of Dredge	4
122613-04-1-10		1453	1	10	3.9		G	, and the second	
	•		AVERAGE T	URBIDITY:	3.00				
						_			
122613-06-1-2		1632		2	2				
122613-06-1-6	2696903 / 814899	1634	11	6	2.7		Ebbing	200' N of Dredge	6
122613-06-1-10		1636		10	3.9				
			AVERAGE T	URBIDITY:	2.87]			
	•	1				T		,	1
	4		4 .			4			
			4 .			4			
			ļ <u>l</u>						
			AVERAGE T	URBIDITY:]			

			•			Down-Curr	<u>ent</u>			
1053 8 4 2.2 Flooding tide 200' N of Dredge 0	Monitoring ID #	NORTHING / EASTING	TIME				GPS FILE NAME	TIDAL STAGE		NUMBER OF HOURS DREDGING
22613-00-9-6 1055	122613-00-9-2		1051		2	2				
AVERAGE TURBIDITY: 2.83 TURBIDITY INCREASE: 0.50 122613-02-9-2	22613-00-9-4	2697186 / 815098	1053	8	4	2.2		Flooding tide	200' N of Dredge	0
TURBIDITY INCREASE: 0.50 22613-02-9-2 22613-02-9-4 2697198 / 815137 1302 8	22613-00-9-6		1055		6	4.3				
22613-02-9-2				AVERAGE T	URBIDITY:	2.83				
22613-02-9-4 2697198 / 815137 1302 8 4 3.8 6 4.2				TURBIDITY	NCREASE:	0.50				
1304 6 4.2 AVERAGE TURBIDITY: 4.13 TURBIDITY NCREASE: 1.97 1454 122613-04-9-7 2696431 / 814920 1456 13 7 2.3 1458 1 2.2 2.4 1458 1458 1 2.2 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.2 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.2 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1458 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 1 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.					2					
AVERAGE TURBIDITY:	22613-02-9-4	2697198 / 815137		8	4			Flooding tide	200' N of Dredge	2
TURBIDITY INCREASE: 1.97 122613-04-9-2	122613-02-9-6		1304			4.2				
122613-04-9-2						4.13				
122613-04-9-7 2696431 / 814920				TURBIDITY	NCREASE:	1.97	_			
22613-04-9-11	22613-04-9-2		1454		2	2.4				
AVERAGE TURBIDITY: 2.30 TURBIDITY INCREASE: -0.70 122613-06-9-2 122613-06-9-5 122613-06-9-5 122613-06-9-8 1641 AVERAGE TURBIDITY: 8.67 TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY: 8.67 AVERAGE TURBIDITY: 9.67	122613-04-9-7	2696431 / 814920	1456	13	7	2.3		Ebbing	200' S of Dredge	4
TURBIDITY INCREASE: -0.70 122613-06-9-2 122613-06-9-5 122613-06-9-8 1637 1639 9 5 6.9 1641 8 12.4 AVERAGE TURBIDITY: 8.67 TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY:	122613-04-9-11		1458		11	2.2				
122613-06-9-2 122613-06-9-5 122613-06-9-8 1637 1639 9 5 6.9 18 1224 AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY:						2.30				
122613-06-9-5 2696376 / 814970 1639 9 5 6.9 Ebbing 200' S of Dredge 6 122613-06-9-8 AVERAGE TURBIDITY: 8.67 TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: BVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: AVERAGE TURBIDITY: BVERAGE TURB				TURBIDITY	NCREASE:	-0.70]			
1641 8 12.4 AVERAGE TURBIDITY: 8.67 TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY:	122613-06-9-2		1637		2	6.7				
AVERAGE TURBIDITY: 8.67 TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY:	122613-06-9-5	2696376 / 814970	1639	9	5	6.9		Ebbing	200' S of Dredge	6
TURBIDITY INCREASE: 5.80 AVERAGE TURBIDITY:	22613-06-9-8		1641		8	12.4				
AVERAGE TURBIDITY:				AVERAGE T	URBIDITY:	8.67				
				TURBIDITY I	NCREASE:	5.80]			
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TURBIDITY INCREASE:							1			
				TURBIDITY I	NCREASE:]			

PROJECT:	New Bedford Harbor L	ower Harbor CA	D Cell				
JOB NUMBER:	6724						
SURVEY DATE:	26 December 2013						
MONITORS:	J. Ray						
WEATHER CONDITIONS:	Overcast and Rain.	Low:	18	High:	41		
WIND CONDITIONS:	Speed:	5-10k	Direction:	SE shifting to W	PM		
PRIOR STORM EVENTS:	N/A						
DREDGE / SCOW Position:	: Northing/Easting:	CAD Cell #3					
TYPE OF WATER QUALITY	Y MONITORING EVENT:	: TOP CAD Dre	dging / BT	M CAD Dredging	/ Disposal		
TIDE INFORMATION:	High:	0138/1354	Low:	0732/1941			
WAS WATER QUALITY SA	MPLING PERFORMED?	(YES/NO): N		IF YES, ATTACH	COC FORMS		
GENERAL NOTES:	Disposal into CAD Cell	#3 occurred at '	1018	•	•		



TYPE OF WATER QUALIT			/A I-	リー X					
TIDE INFORMATION: WAS WATER QUALITY S		0138/1354		0732/1941	CH COC FO	owe.		/ \1	
WAS WATER QUALITY S GENERAL NOTES:	Disposal into CAD Cel			IF YES, ATTA	CH COC FOR	CIVIS		•	
02.12.10.12.110.120.	Diopodal and Oxid Co.		u u						
					UP-CURRE	-NT			
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Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STACE	RELATIVE POSITION	NUMBER OF HOURS
Monitoring ID #	NORTHING / EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	OF MEASUREMENT	DREDGING
400040 04 4 0		4004	1	0	4.0	T I		ī ī	
122613-01-1-2 122613-01-1-10	2696260 / 815587	1021 1023	20	10	1.9 3.8	╡	Flooding tide	200' S of Disposal	post
122613-01-1-18		1025	20	18	4.2	1			F
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					Down-Cur	rent			
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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
122613-01-9-2		1034	1	2	2.6	1		1	
122613-01-9-16	2696920 / 815483	1034	30	16	14.2	1	Flooding tide	200' N of Disposal	post
122613-01-9-30		1038	- 00	30	38.1	1	3		
	•		AVERAGE		18.30				
			TURBIDITY	INCREASE:	15.00]			
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	•		AVERAGE	TURBIDITY:		1			
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			AVERAGE			4			
			TURBIDITY	INCREASE:	L	_			
* Turbidity Increase = Down-Curr	rent Average Turbidity - Up-Cur	rent Average T	urbidity						

PROJECT:	New Bedford Harbor Lower	Harbor CA	D Cell				
JOB NUMBER:	6724						
SURVEY DATE:	28 December 2013						
MONITORS:	K. Ryan, J. Poirier						
WEATHER CONDITIONS:	Cloudy	Low:	21	High:	50		
WIND CONDITIONS:	Speed: 10-15	k	Direction: SW				
PRIOR STORM EVENTS:	N/A						
DREDGE / SCOW Position:	Northing/Easting: 26972	221 / 81591	4				
TYPE OF WATER QUALITY	MONITORING EVENT: TOP	CAD Dred	dging / BTM CA	D Dredging	/ Disposal		
TIDE INFORMATION:	High: 0334/	1558	Low: 0949	/2139			
WAS WATER QUALITY SA	MPLING PERFORMED? (YES	S/NO):	N IF YE	S. ATTACH	LCOC FORMS		



	n: Northing/Easting: TY MONITORING EVENT	2697221 / 8		M CAD Dredgi	ing / Disposa	ı		AF	
TIDE INFORMATION:		0334/1558		0949/2139	ing / Dispose			- /-\ -	
WAS WATER QUALITY S	AMPLING PERFORMED	? (YES/NO):	N	IF YES, ATTA	ACH COC FOR	MS			
GENERAL NOTES:	Dredging begins at 092	25 and ends	for the day at 1	412				_	
					UP-CURRE	<u>NT</u>			
		1							
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
122813-00-1-1		0845		1	6.2				_
122813-00-1-10 122813-00-1-20	2697244 / 814689	0847 0849	20.2	10 20	7.2 7.1	4	Ebbing	200' N of Dredge	0
122010 00 1 20		00.0	AVERAGE		6.83	<u> </u>			
122813-01-1-1		0933	1	1	4.9				
122813-01-1-2	2697480 / 815280	0935	4.4	2	5		Ebbing / Slack	200' N of Dredge	1
122813-01-1-4		0937		4	5.1				
			AVERAGE	TURBIDITY:	5.00	J			
122813-02-1-1	0005007 / 04 / 05 7	1127		1	6.1	.]	Fig. 20 at 1	00010 . 15	2
122813-02-1-18 122813-02-1-36	2695087 / 814800	1129 1131	37	18 36	6.4 4.1	-	Flooding tide	200' S of Dredge	2
122013-02-1-30	1	1131	AVERAGE 7		5.53			•	
400040 0444	1	1001		T		1 1		1	
122813-04-1-1 122813-04-1-18	2694978 / 814747	1321 1323	36.1	1 18	5.5 8.9	1	Flooding tide	200' S of Dredge	4
122813-04-1-36		1325	00.1	36	3.4		y		
			AVERAGE	TURBIDITY:	5.93				
122813-05-1-1		1418		1	3.4				
122813-05-1-18.5	2694888 / 814878	1420	37.2	18.5	5.2		Flooding tide	200' S of Dredge	5
122813-05-1-36		1422	AV/EDAGE	36	10.5				
			AVERAGE	IURBIDITT:	6.37	J			
					Davin Cim				
Monitoring ID #		1			Down-Curr	<u>ent</u>			
·	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	ent GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
122813-00-9-1		0852	DEPTH (ft)	DEPTH (ft)	TURBIDITY (NTUs)			LOCATION	DREDGING
122813-00-9-6	NORTHING / EASTING 2696389/ 814768	0852 0854		DEPTH (ft)	TURBIDITY (NTUs) 9.8 10		TIDAL STAGE Ebbing		
		0852	12.6 AVERAGE	DEPTH (ft) 1 6 12 TURBIDITY:	TURBIDITY (NTUs)			LOCATION	DREDGING
122813-00-9-6		0852 0854	DEPTH (ft) 12.6	DEPTH (ft) 1 6 12 TURBIDITY:	TURBIDITY (NTUs) 9.8 10 14.9			LOCATION	DREDGING
122813-00-9-6 122813-00-9-12 122813-01-9-1	2696389/ 814768	0852 0854 0856	12.6 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73		Ebbing	LOCATION 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4		0852 0854 0856 0856	12.6 AVERAGE	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73			LOCATION	DREDGING
122813-00-9-6 122813-00-9-12 122813-01-9-1	2696389/ 814768	0852 0854 0856	12.6 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2		Ebbing	LOCATION 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4	2696389/ 814768	0852 0854 0856 0856	12.6 AVERAGE TURBIDITY 8.1	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73		Ebbing	LOCATION 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4 122813-01-9-8	2696389/ 814768	0852 0854 0856 0856	DEPTH (ft) 12.6 AVERAGE TURBIDITY 8.1 AVERAGE	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33		Ebbing	LOCATION 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4	2696389/ 814768	0852 0854 0856 0856	DEPTH (ft) 12.6 AVERAGE TURBIDITY 8.1 AVERAGE	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33		Ebbing	LOCATION 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4 122813-01-9-8	2696389/ 814768 2696685 / 815219	0852 0854 0856 0939 0941 0943	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 9.4		Ebbing Ebbing / Slack	200' S of Dredge 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-00-9-12 122813-01-9-1 122813-01-9-4 122813-01-9-8 122813-02-9-1 122813-02-9-1	2696389/ 814768 2696685 / 815219	0852 0854 0856 0939 0941 0943	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33		Ebbing Ebbing / Slack	200' S of Dredge 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-02-9-21	2696389/ 814768 2696685 / 815219 2696979 / 814784	0852 0854 0856 0939 0941 0943 1138 1140 1142	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 FURBIDITY: INCREASE: 1 4 8 FURBIDITY: INCREASE: 1 10.5 21 FURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 9.4 8.73 3.20		Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge	DREDGING 0 1
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-02-9-21 122813-04-9-1 122813-04-9-1 122813-04-9-1	2696389/ 814768 2696685 / 815219	0852 0854 0856 0856 0939 0941 0943 1138 1140 1142	DEPTH (ft) 12.6 AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7 AVERAGE AVE	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 8.4 9.4 8.73 3.20		Ebbing Ebbing / Slack	200' S of Dredge 200' S of Dredge	DREDGING 0
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-02-9-21	2696389/ 814768 2696685 / 815219 2696979 / 814784	0852 0854 0856 0939 0941 0943 1138 1140 1142	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 1 3.5 7	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 9.4 8.73 3.20		Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge	DREDGING 0 1
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-02-9-21 122813-04-9-1 122813-04-9-1 122813-04-9-7	2696389/ 814768 2696685 / 815219 2696979 / 814784	0852 0854 0856 0939 0941 0943 1138 1140 1142 1332 1334 1336	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 7.6	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 7 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 8.7 3.20 10.9 11.1 12.3 11.43 5.50		Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge	DREDGING 0 1
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-04-9-1 122813-04-9-7 122813-04-9-7	2696389/ 814768 2696685 / 815219 2696979 / 814784 2697092 / 815044	0852 0854 0856 0856 0939 0941 0943 1138 1140 1142 1332 1334 1336	AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 1 3.5 7 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 13.33 8.4 8.4 9.4 8.73 3.20 10.9 11.1 12.3 11.43 5.50		Ebbing Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge 200' N of Dredge	0 1 1 2 2 4
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-10.5 122813-04-9-1 122813-04-9-7 122813-04-9-7	2696389/ 814768 2696685 / 815219 2696979 / 814784	0852 0854 0856 0856 0939 0941 0943 1138 1140 1142 1332 1334 1336	AVERAGE TURBIDITY 8.1 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 8.7 3.20 10.9 11.1 12.3 11.43 5.50		Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge	DREDGING 0 1
122813-00-9-6 122813-01-9-1 122813-01-9-1 122813-01-9-8 122813-02-9-1 122813-02-9-1 122813-04-9-1 122813-04-9-7 122813-04-9-7	2696389/ 814768 2696685 / 815219 2696979 / 814784 2697092 / 815044	0852 0854 0856 0856 0939 0941 0943 1138 1140 1142 1332 1334 1336	AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 21.7 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY	DEPTH (ft) 1 6 12 TURBIDITY: INCREASE: 1 4 8 TURBIDITY: INCREASE: 1 10.5 21 TURBIDITY: INCREASE: 1 TURBIDITY: INCREASE: 1 1 10.5 21 TURBIDITY: INCREASE: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TURBIDITY (NTUs) 9.8 10 14.9 11.57 4.73 16.7 16.1 22.2 18.33 13.33 8.4 8.4 9.4 8.73 3.20 10.9 11.1 12.3 11.43 5.50		Ebbing Ebbing / Slack Flooding tide	200' S of Dredge 200' S of Dredge 200' N of Dredge 200' N of Dredge	0 1 1 2 2 4

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

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	28 December 2013
MONITORS:	K. Ryan, J. Poirier
WEATHER CONDITIONS:	Cloudy Low: 21 High: 50
WIND CONDITIONS:	Speed: 10-15k Direction: SW
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	Northing/Easting: CAD Cell #3
TYPE OF WATER QUALIT	Y MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 0334/1558 Low: 0949/2139
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS
GENERAL NOTES:	Disposal into CAD Cell #3 occurred at 0826
_	UP-CURRENT



FIDE INFORMATION:	riigii.	0334/1558	Low:	0949/2139				_ /~\ `	
VAS WATER QUALITY SA				IF YES, ATTA	ACH COC FOR	MS			
ENERAL NOTES:	Disposal into CAD Cel	II #3 occurre	d at 0826						
					UP-CURRE	<u>INT</u>			
		7							
			TOTAL WATER	SAMPLE	TURBIDITY			RELATIVE POSITION	NUMBER OF HOUR
Monitoring ID #	NORTHING / EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	OF MEASUREMENT	DREDGING
22813-01-1-1	0007040 / 040054	0828	4	1	5.5	4	Ebbles	0001N - (Di	
22813-01-1-2.5 22813-01-1-4	2697342 / 816051	0830 0832	5	2.5 4	5.4 6	-	Ebbing	200' N of Disposal	post
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					Down-Curr	ent			
		1			Down-Curr	<u>ent</u>			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE DEPTH (ft)	TURBIDITY	ent GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	NORTHING / EASTING			DEPTH (ft)	TURBIDITY (NTUs)		TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOUR: DREDGING
122813-01-9-1	NORTHING / EASTING 2696382 / 815057	TIME 0835 0837	TOTAL WATER		TURBIDITY		TIDAL STAGE Ebbing		
Monitoring ID # 22813-01-9-1 22813-01-9-3.5 22813-01-9-8.8		0835	TOTAL WATER DEPTH (ft)	DEPTH (ft)	TURBIDITY (NTUs)			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE	1 3.5 8.8 TURBIDITY:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft)	1 3.5 8.8 TURBIDITY:	7.1 8.3 11.1			LOCATION	DREDGING
22813-01-9-1 22813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE	1 3.5 8.8 TURBIDITY:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE	1 3.5 8.8 TURBIDITY:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE:	TURBIDITY (NTUS) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE:	TURBIDITY (NTUS) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUS) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
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22813-01-9-1 22813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (II) 9.8 AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE AVERAGE AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUS) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
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122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUS) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (ft) 9.8 AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
122813-01-9-1 122813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (II) 9.8 AVERAGE: TURBIDITY AVERAGE: TURBIDITY AVERAGE: TURBIDITY AVERAGE: TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING
22813-01-9-1 22813-01-9-3.5		0835 0837	TOTAL WATER DEPTH (II) 9.8 AVERAGE: TURBIDITY AVERAGE: TURBIDITY AVERAGE: TURBIDITY AVERAGE: TURBIDITY	DEPTH (ft) 1 3.5 8.8 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 7.1 8.3 11.1 8.83			LOCATION	DREDGING

WQM_LHCC_122813

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

