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Sevenson Environmental Services, Inc.

JACOBS

US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
Total Environmental Restoration Contract
USACE Contract Number: DACW33-03-D-0006
Task Order No. 0008

2010 DREDGE SEASON DATA SUBMITTAL
NEW BEDFORD HARBOR
REMEDIAL ACTION

New Bedford Harbor Superfund Site
New Bedford, MA

March 2011

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CBI

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2010 DATA SUBMITTAL SUMMARY

The purpose of this 2010 Dredge Season Data Submittal is to provide documentation of key activities related to the New Bedford Harbor Superfund Site 2010 field season. Since 2006, the U.S. Environmental Protection Agency (EPA) has requested that the Dredge Season Data Submittal be organized in a tabular or graphic format.

Section 1 is a chronological summary of 2010 project activities, presented as Attachment A.

Section 2 summarizes the 2010 dredging activities conducted at the New Bedford Harbor Superfund Site. The following will explain the significance or intended use of the various tables, figures, and attachments that comprise Section 2.

Attachment B contains information used for planning and executing the dredging completed in 2010.

- Figure B-1 consists of the dredge plan used for Dredge Area M.
- Figure B-2 consists of the dredge plan used for Dredge Area G.
- Figure B-3 consists of the dredge plan used for Dredge Area J.
- Figure B-4 consists of the dredge plan used for Dredge Area K.
- Figure B-5 consists of the dredge plan used for Dredge Area L.
- Figure B-6 illustrates the routing of pipelines, booster pump stations, and ferric sulfate injection system for the 2010 hydraulic dredge season.
- Figure B-7 is the final 2010 daily dredge tracking figure for Area M. Dredge Area M was excavated mechanically using a barge mounted excavator. Figure B-7 shows the outline of each barge location used.
- Figure B-8 is the final 2010 daily dredge tracking figure for Area G. This figure graphically depicts dredge progress cumulatively and daily for the season. Throughout the dredge season the dredge tracking figure is updated daily using dredge operators' daily reports and global positioning system (GPS) tracking data.
- Figure B-9 is the final 2010 daily dredge tracking figure for Area J. This figure graphically depicts dredge progress cumulatively and daily for the season. Throughout the dredge season the dredge tracking figure is updated daily using dredge operators' daily reports and GPS tracking data.

- Figure B-10 is the final 2010 daily dredge tracking figure for Area K. This figure graphically depicts dredge progress cumulatively and daily for the season. Throughout the dredge season the dredge tracking figure is updated daily using dredge operators' daily reports and GPS tracking data.
- Figure B-11 is the final 2010 daily dredge tracking figure for Area L. This figure graphically depicts dredge progress cumulatively and daily for the season. Throughout the dredge season the dredge tracking figure is updated daily using dredge operators' daily reports and GPS tracking data. Very little dredging was conducted in Area L in 2010 due to it's designation as a contingency area to be dredged only when conditions do not allow dredging in the northern areas (G, K, or J).
- Figure B-12 displays post dredge sediment core data in Dredge Area G. The data includes analytical results of total polychlorinated biphenyl (PCB) congeners as well as measurement of remaining organic silt (OL) sediment thickness. It should be noted that sample GR35 was actually collected in the neighboring Z Block GS35.
- Figure B-13 displays post dredge sediment core data in Dredge Area J. The data includes analytical results of total PCB congeners as well as measurement of remaining OL sediment thickness.
- Figure B-14 displays progress and post dredge sediment core data in Dredge Area K. The data includes analytical results of total PCB congeners as well as measurement of remaining OL sediment thickness.
- Figure B-15 displays post dredge sediment core data in Dredge Area M. The data includes analytical results of total PCB congeners as well as measurement of remaining OL sediment thickness. It should be noted that sample ME7 does not correspond to the 2010 Area M grid labels as shown. ME7 is a resample of a 2009 Area M location which used a different grid.
- Figure B-16 is a depiction of areas dredged through 2010 in New Bedford Harbor. Figure B-16 also identifies areas requiring dredging per the Record of Decision.
- Attachment B-1 is the Quality Control Report assessing 2010 dredge control accuracy.

Attachment C includes tabulated data collected throughout the dredging process.

- Table C-1 summarizes analytical data for the sand generated at the Sawyer Street desanding facility.
- Table C-2 summarizes the grain size data for material generated at both Sawyer Street (sand) and Area D (filter cake).
- Table C-3 summarizes analytical data for the filter cake generated at the Area D dewatering facility.

- Table C-4 summarizes analytical results for samples collected at the Area D waste water treatment facility.
- Table C-5 summarizes waste water treatment plant effluent water quality data collected during the sampling events summarized in Table C-4.
- Table C-6 summarizes waste water treatment plant influent and midpoint water quality data collected during the sampling events summarized in Table C-4.
- Table C-7 is a tabulation of filter cake percent solids analysis by Jacobs. Approximately 13 percent of filter press drops were sampled and analyzed by Jacobs for percent solids as a check of SES results.
- Attachment C-1 contains a Quality Control Report comparing the filter cake percent solids data determined by Jacobs and Sevenson.

Attachment D contains Transportation and Disposal records.

- Table D-1 is a tabulated record of sand and oversize material transported from the Sawyer Street desanding facility to Area D for railcar disposal with filter cake.
- Table D-2 is a tabulated record of non-TSCA sand disposed of at an approved non-hazardous waste landfill.
- Table D-3 is a tabulated record of material shipped directly offsite by rail for disposal at an approved TSCA landfill.

Attachment E includes information from the ambient air monitoring program.

- Figure E-1 identifies stations where ambient air was monitored for PCBs.
- Table E-1 summarizes the results of ambient air monitoring for PCB homologues from 1999 through 2010. The results are listed by sampling date and location. Locations may vary from year to year depending on areas of activity. Original locations not sampled during a sampling event are reported as “NS” for “not sampled”. Locations that were non-existent at the time a sampling round was conducted report an “NA” for “not applicable”. Table E-1 also includes duplicate sample results noted with a “d”.
- Attachment E-1 consists of the updated air sampling status reports (PETS Curves) for the original seven locations (stations 24, 25, 42, 46, 49, 50, and 55). PETS curves are not generated for locations added later because no baseline data exists.

Attachment F contains data and calculations for mass balance of production.

- Table F-1 is the 2010 hydraulic dredging mass balance calculation and tabulation. It provides an accounting for process inputs and outputs.
- Table F-2 compares projected production quantities to actual production quantities.
- Table F-3 provides a tabulation for all metered and estimated city water volumes used during the 2010 hydraulic dredging season.
- Table F-4 is a record of mechanical excavation activities conducted in Dredge Area M during the 2010 season.
- Table F-5 is a calculation of the estimated mass of PCB Aroclors removed during the 2010 hydraulic dredging activities.
- Table F-6 is an estimate of the total amount of PCB Aroclors removed from 2004 through 2010 dredging activities.

Attachment G is the final Sevenson production report for 2010 hydraulic dredging activities.

Attachment H is a summary of lessons learned or conclusions that made the project more efficient, safe, and simple.

Attachment I summarizes dredge season production quantities.

- Table I-1 summarizes 2010 dredge production quantities.
- Table I-2 summarizes 2004-2010 dredge production quantities

ATTACHMENT A

Summary of 2010 Activities

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
Revise/Submit Planning Documents		
3/31/2010	Prepare and Submit 2010 plan	Preparation and submittal of *Addendum No. 7 to the Execution Plan* outlining the remediation of the New Bedford Harbor Superfund Site to be accomplished for the 2010 field season.
6/2/2010	Prepare and Submit 2010 plan	Preparation and submittal of *Addendum No. 6 to the Dredge Plan Plan* outlining the remediation of the New Bedford Harbor Superfund Site to be accomplished for the 2010 field season.
Submittal of Initial Task Order/Subsequent Modifications		
2/19/2010	Modification 007-05	**Tasks under Modification 007-005 were for the following:** 2009 After Action Data Report; 2010 Execution Plan Addendum; Technical Assistance and Engineering Services; Field Office Relocation; Bulkhead Activities: Project Administration and Management; and General Site Operations and Management (1/1/2010 through 6/30/2010). Project 35BG0704 - Tasks 1, 2, 3, 4, 5, 6, and 7A
5/13/2010	Modification 007-06	**Tasks under Modification 007-006 were for the following:** General Mobilization, Startup/Shakedown and Demobilization/Winterization for the 2010 Dredging of the Upper Section of the Acushnet River (May and October 2010). Project 35BG0705 - Task 1
6/7/2010	Modification 007-07	**Tasks under Modification 007-007 were for the following:** Increase General Site Operations and Management Funding for the Period of 7/1/2010 through 12/31/2010. Project 35BG0704 - Task 7B
6/14/2010	Modification 008-02	**Tasks under Modification 008-02 were for the following:** 2010 Dredging Activities Associated with the Upper Section of Acushnet River (25 days, June through July 2010) Project 35BG0801 - Tasks 1, 5, and 6. ARRA Funded (also, utilized 2009 Dredge Season underruns for funding).
7/14/2010	Modification 008-03	**Tasks under Modification 008-03 were for the following:** Continuation of the 2010 Dredging Activities Associated with the Upper Section of Acushnet River (20 days, July through August 2010). Project 35BG0801 - Option Task 4. ARRA Funded.

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
8/6/2010	Modification 008-04	**Tasks under Modification 008-04 were for the following:** Continuation of the 2010 Dredging Activities Associated with the Upper Section of Acushnet River. 30 days awarded - only 15 days of dredging were authorized for 2010. Remaining funding being held until direction from client (August 2010 through September 2010). Project 35BG0801 - Tasks 2a, 2c, and 2d. ARRA Funded
9/15/2010	Modification 008-05	**Tasks under Modification 008-05 were for the following:** Additional T&D in association with the 2010 Dredging Activities. Due to the directive by the client, no activities in association with this modification were performed during the 2010 season. Funds are being held until direction from client. Project 35BG0801 - Additional T&D SOW. ARRA funded.
11/5/2010	Modification 007-08	**Tasks under Modification 008-04 were for the following:** 2010 After Action Data Report; 2011 Execution Plan Addendum; Technical Assistance and Engineering Services; Project Administration and Management; and OU3 Bathymetric Hydrographic Survey (September 2010 through June 2011). Project 35BG0706 - Tasks 1, 2, 3, 4, and 5
Hydraulic Dredging Mobilization Activities		
5/17 - 6/11/2010	Mobilization of Equipment and Personnel Associated with 2010 Hydraulic Dredging Activities	2010 mobilization activities include mobilizing dredges, pipelines, boats, debris removal platforms, and scows; servicing pumps; and inspecting electrical systems.
5/17 - 6/11/2010	Booster Pump and Ferric System Setup	2010 mobilization activities include the setup of booster pump stations at Manomet Street and Aerovox. Constructing the booster pump station included construction of a containment pad, setup of booster pumps and associated piping, and installation of the inline grinder. The Manomet Street station included the ferric sulfate injection system.
5/17 - 6/11/2010	Transportation and Disposal Preparation	2010 mobilization activities include mobilization of track mobile, railcars, and liners. Mobilization activities also include calibration of truck scales, check of rail scale, DOT training, rail worker training, and liner training.
5/17 - 6/11/2010	De-Sanding and WWTP Setup	2010 mobilization include WWTP set up, replacement of filter press cloths and load out area fall restraint cable, and repair of carbon vessels and holding tank agitators.

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
6/10/2010	Hydraulic Dredging Shakedown	Hydraulic shakedown activities include service testing pipelines, pumps, and dredges.
Hydraulic Dredging and Associated Activities		
6/14/2010	Debris Removal Activities	Commence debris removal activities in Dredge Area G. Area G debris removal activities resume in areas not completed in 2009.
6/14/2010	Hydraulic Dredging	Commence hydraulic dredging in Dredge Areas G and J.
6/24/2010	Hydraulic Dredging	Commence hydraulic dredging in Dredge Area L.
7/2/2010	Debris Removal Activities	Commence debris removal activities in Dredge Area N. Due to relatively shallow water depths, debris removal is limited to only a few hours a day in Area N.
7/20/2010	Hydraulic Dredging	Complete hydraulic dredging in Dredge Area J.
7/21/2010	Debris Removal Activities	Commence debris removal activities in Dredge Area K.
7/21/2010	Hydraulic Dredging	Commence hydraulic dredging in Dredge Area K.
7/27/2010	Mechanical Dredging	Commence mechanical dredging in Dredge Area M.
8/25/2010	Mechanical Dredging	Complete mechanical dredging in Dredge Area M.
9/1/2010	Debris Removal Activities	Complete debris removal activities for 2010 season.
9/9/2010	Hydraulic Dredging	Complete hydraulic dredging activities for 2010 season. Dredge Areas J and M completed. Hydraulic dredging in Dredge Areas G, K, L, and N to resume in 2011. Remaining targeted sediment in Dredge Area G anticipated to be dredged.

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
Transportation and Disposal Activities		
6/15/2010	Dredge Materials Disposal	Commence loading railcars at Area D.
7/21/2010	Dredge Materials Disposal	Perform initial filter cake percents solids QC study.
8/9/2010	Dredge Materials Disposal	Perform follow-up filter cake percents solids QC study.
8/30/2010	Dredge Materials Disposal	Commence transporting TSCA sand and oversize material to Area D for railcar disposal.
9/9/2010	Dredge Materials Disposal	Commence transporting non-TSCA sand to approved non-hazardous landfill.
9/14/2010	Dredge Materials Disposal	Complete transporting non-TSCA sand to approved non-hazardous landfill.
9/16/2010	Dredge Materials Disposal	Complete transporting TSCA sand and oversize material to Area D for railcar disposal.
9/23/2010	Dredge Materials Disposal	Complete loading railcars for season.
Air Monitoring Activities, Ambient PCBs		
5/13/2010	Pre-Dredge Ambient Air Sampling Round	Samples damaged during shipment, all samples voided.
5/21/2010	Pre-Dredge Ambient Air Sampling Round	Three locations sampled. One new location, Century House, is added to the sampling program.
6/23/2010	First Monthly Operational Sampling Round	Samples damaged during shipment, all samples voided.
6/30/2010	Second Monthly Operational Sampling Round	Eleven locations sampled.

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
7/20/2010	Second Monthly Operational Sampling Round	Ten locations sampled.
8/18/2010	Third Monthly Operational Sampling Round	Eleven locations sampled.
10/13/2010	Post-dredge Ambient Air Sampling	Ten locations sampled.
Air Monitoring Activities, Sawyer Street VOC Monitoring		
5/5/2010	1st Biannual Sampling Round	Collect ambient air samples in areas around Sawyer Street facility for TO15 VOC analysis. Five locations sampled.
9/15/2010	2nd Biannual Sampling Round	Collect ambient air samples in areas around Sawyer Street facility for TO15 VOC analysis. Five locations sampled.
Bathymetric Survey		
12/14/2009; 12/18/2009	Pre-Dredge Survey in Dredge Areas G, J, N, O, L, P, K, and M.	Pre-Dredge Survey Conducted by CR Environmental.
6/26/2010	Progress Survey in Dredge Areas G and J	Survey Conducted by CR Environmental.
7/17/2010	Progress Survey in Dredge Areas G and J	Survey Conducted by CR Environmental.
7/31/2010	Progress Survey in Dredge Areas G, J, and K	Survey Conducted by CR Environmental.
8/14/2010	Progress Survey in Dredge Areas G and K	Survey Conducted by CR Environmental.
8/28/2010	Progress Survey in Dredge Areas G and K	Survey Conducted by CR Environmental.

Attachment A
Summary of 2010 Activities
New Bedford Harbor Superfund Site - 2010 Season

Date	Activity	Summary
9/19/2010	Post-Dredge survey in Dredge Areas G, K, and J	Post-Dredge Survey Conducted by CR Environmental.
10/13/2010	Bathymetric Survey of OU#3 Pilot Cap Area	OU#3 Survey Conducted by CR Environmental.
Demobilization and Winterization Activities		
9/10 - 9/23/2010	Demobilization and Winterization	Demobilization activities include flushing lines, disassembly of dredge lines, stowing pipelines, removing dredge area cables, removing boats, dredges and scows from water, disassembly and demobilization, and storage of booster pump station equipment. Demobilization also includes a general cleaning of dewatering and desanding plants. Select sheet piles were removed to allow navigation of river.
9/1 - 9/23/2010	Trailer Demolition/Relocation	Demolition of USACE and EPA project trailers and relocation of project trailers from south boundary of site to area surrounding project office.

Notes:
ARRA = American Reinvestment and Recovery Act
CAD = confined aquatic disposal
EPA = U.S. Environmental Protection Agency
PCB = polychlorinated biphenyl
TSCA = Toxic Substances Control Act
VOC = volatile organic compound
WWTP = Waste Water Treatment Plant

ATTACHMENT B

Dredge Area Plans and Execution

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ATTACHMENT C

Analytical Data Summary

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ATTACHMENT D

Transportation and Disposal Reports

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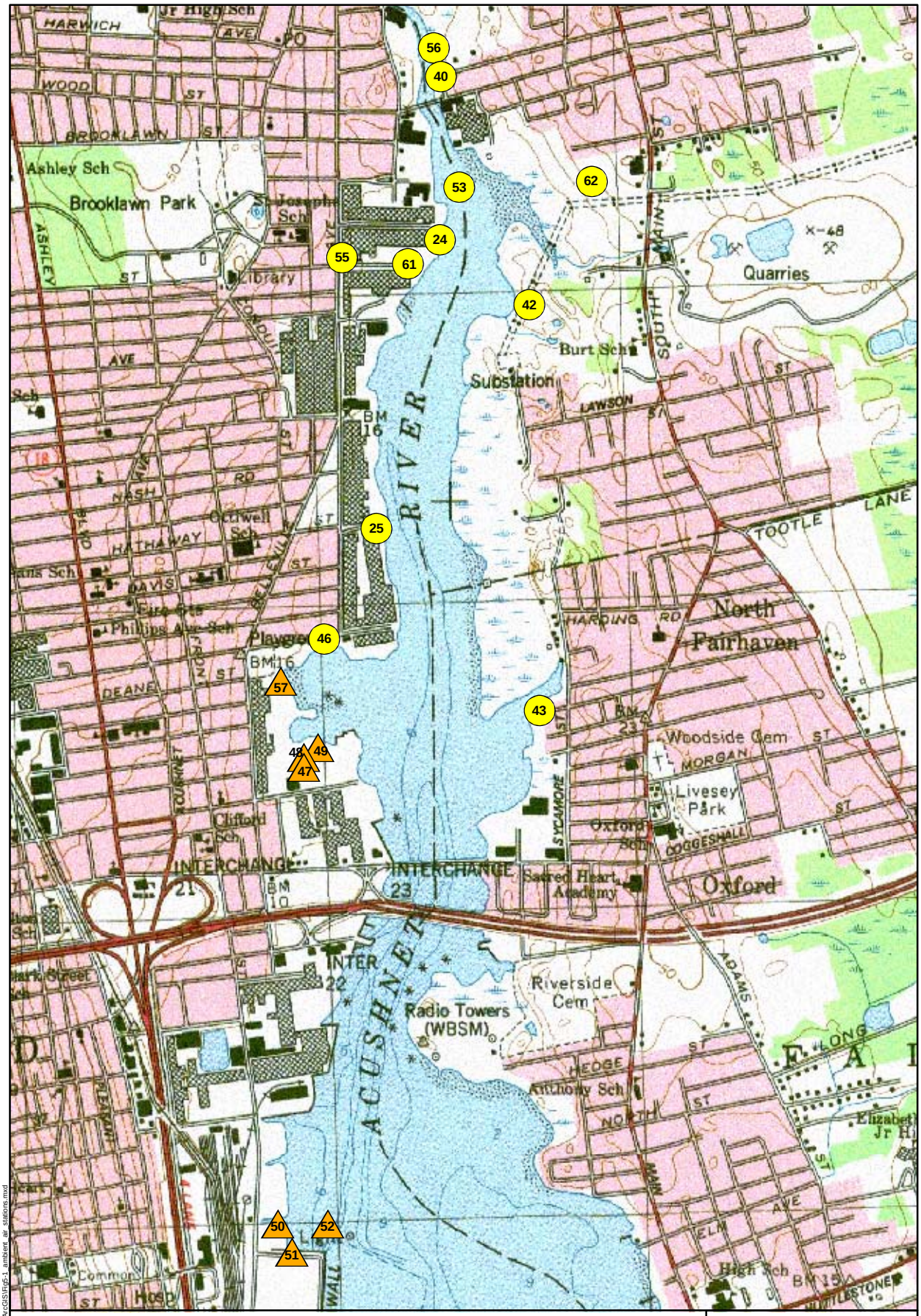
ATTACHMENT E

Ambient Air Monitoring Information



Legend

Ambient Air Sampling Locations

- Mobile Station
- Stationary Station

0 750 1,500 Feet

1:18,000

N

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2010 Ambient Air Sampling Station Locations

New Bedford Harbor Superfund Site

NAME: croberts DATE: 05/14/2010

Figure E-1

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Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site - 2010 Season

Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)																	Activity Period
	24 Aerovox	25 Cliftex	42 NSTAR North	43 Veranda	46 Coffin	Area C			Area D			53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	61 South Fence	62 Century House	
						47	48	49	50	51	52							
10/13/2010	80	36	9	7.4	21	NS	NS	24	4.4	NS	NS	NS	19	5.9	NS	NS	1.1	After 2010 Dredge Operation
8/18/2010	1800	300	25	36	31	NS	NS	130	37	NS	NS	560/580d	200	11	NS	NS	13	2010 Hydraulic Dredging
7/20/2010	270	29	NS	26	47	NS	NS	79/73d	37.0	NS	NS	450	93	26	NS	NS	2.7	
6/30/2010	120.0	7.3	0.0013	82.0	13	NS	NS	32	3.3	NS	NS	230	3.20	12.0	NS	NS	44/41d	
5/21/2010	86	NS	0.042	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND/NDd	2010 Pre-Dredge Samples
12/16/2009	3.3	0.134	23.8	9.12	0.171	NS	NS	1.78	NS	0.184	NS	NS	0.372/0.353d	0.63	NS	NS	NA	After 2009 Dredge Operation
11/9/2009	45.2	20.4/31d	25.3	55.2	32.8	NS	NS	51.8	NS	2.92	NS	205.1	8.31	17.2	NS	NS	NA	2009 Hydraulic Dredging
10/14/2009	48.79	11.77	17.92	10.01	8.8/6.07d	NS	NS	13.26	NS	3.75	NS	0.13	10.00	2.62	NS	NS	NA	
9/17/2009	160	24	2.2	51	13	NS	NS	35	NS	42	NS	180	14	10/9.8d	NS	NS	NA	
8/13/2009	130	21	14	49	14	NS	NS	32	NS	31	NS	130	28/30d	20	NS	NS	NA	
7/13/2009	130	18	39	110	36	NS	NS	77/76d	NS	5.3	NS	290	7.4	6	NS	NS	NA	
6/16/2009	150	77	10	33	35	43	NS	NS	NS	32	NS	120	33	8.2	NS	NS	NA	
11/10/2008	NS	NS	NS	15	1.3	NS	NS	6.2	NS	0.020U	NS	NS	NS	NS	0.11	NS	NA	After 2008 Dredge Operation
10/7/2008	NS	NS	NS	NS	5.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	2008 Hydraulic Dredging
9/24/2008	NS	NS	NS	18	NS	NS	NS	42	NS	NS	NS	1.5	NS	NS	15.0	NS	NA	
8/21/2008	NS	NS	NS	31.66	121.94	NS	NS	123.4/116.4d	NS	2.85	NS	178.0	NS	NS	37.46	NS	NA	
7/16/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	68.6	NS	NA	286.5	NA	2008 Land-Based Excavation of Shoreline at Aerovox
7/8/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	8.7	NS	NA	26.1	NA	
6/25/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	5.52	NS	NA	NS	NA	
6/19/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	8.9	NS	NA	NS	NA	
6/12/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	7.3	NS	NA	43.1	NA	
6/8/2008	NS	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NA	25.9	NS	NA	34.4	NA	
11/9/2007	19.7	20.2	15.7	NA	1.86	9.29	NS	NS	NS	4.39	NS	NA	NS	NS	NA	NA	NA	After 2007 Dredge Operation
9/18/2007	176	120	16.3	NA	21.4	57.1	NS	NS	48.7	NS	NS	130	NS	NS	NA	NA	NA	2007 Hydraulic Dredgeing
8/21/2007	282	147	19.2	NA	36.1	46.9	NS	NS	36.7	NS	NS	138	NS	NS	NA	NA	NA	
11/19/2006	41.1	0.14	NS	NA	4.05	NS	NS	81.4	2.6	NS	NS	NA	NS	NS	NA	NA	NA	After 2006 Dredge Operation
10/6/2006	2,357	451	NS	NA	108	NS	NS	157	NS	NS	197	13430	NS	NS	NA	NA	NA	2006 Hydraulic Dredging
8/31/2006	1,629	176	NS	NA	70.4	39.2	NS	NS	NS	67.3	NS	2336	NS	NS	NA	NA	NA	
12/29/2005	83.2	10.9	21.4	NA	65.1	7.4	NS	NS	NS	2.2	NS	NA	10.8	13.5	NA	NA	NA	After 2005 Dredge Operation
11/18/2005	15.9	0.1	63.6	NA	0.1	NS	0.1	3.7	NS	NS	NS	913.0	0.1	3.8	NA	NA	NA	2005 Hydraulic Dredging
10/28/2005	15.4	NS	32.3	NA	2.1	NS	4.6	12.3	0.0	NS	NS	505.0	4.0	2.7	NA	NA	NA	
10/6/2005	1822.0	251.0	119.0	NA	130.0	NS	60.1	114.0	81.7	NS	NS	6315.0	222.0	180.0	NA	NA	NA	
9/29/2005	383.0	104.0	5.3	NA	124.0	NS	17.3	44.2	24.2	NS	NS	391.0	87.0	77.9	NA	NA	NA	
9/23/2005	178.0	35.2	83.3	NA	115.0	NS	19.1	97.0	0.3	NS	NS	780.0	2.6	23.9	NA	NA	NA	
9/15/2005	1490.0	58.2	22.5	NA	99.8	NS	14.9	83.6	0.5	NS	NS	1280.0	37.6	102.0	NA	NA	NA	
8/11/2005	216.0	103.0	25.9	NA	37.2	NS	NS	29.3	NS	NS	21.3	NA	42.1	49.9	NA	NA	NA	2005 Pre-Dredge Samples
12/3/2004	30	27	40	NA	15	22	NS	26	22	NS	31	NA	9.33	1.52	NA	NA	NA	After 2004 Dredge Operation
11/5/2004	578	61	73	NA	80	NS	NS	28	NS	NS	NS	351	28.42	39.08	NA	NA	NA	2004 Hydraulic Dredging
10/19/2004	559	259	NS	NA	36	47	48	66	17	74	100	704	NS	NS	NA	NA	NA	
9/28/2004	9557	423	NS	NA	342	35	165	207	80	75	115	2734	NS	NS	NA	NA	NA	
9/23/2004	588	97	NS	NA	5	7	10	17	6	5	19	1212	NS	NS	NA	NA	NA	

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site - 2010 Season

Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)																	Activity Period
	24 Aerovox	25 Cliftex	42 NSTAR North	43 Veranda	46 Coffin	Area C			Area D			53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	61 South Fence	62 Century House	
						47	48	49	50	51	52							
9/14/2004	1449	229	NS	NA	48	64	64	86	38	39	61	98	NS	NS	NA	NA	NA	Initial MU-2 Dredging During Startup
9/9/2004	1024	167	NS	NA	145	28	37	56	20	16	47	723	NS	NS	NA	NA	NA	
6/29/2004	2286	NS	NS	NA	NS	NS	NS	NS	NS	56	NS	NA	NS	NS	NA	NA	NA	No Dredging Activities
March-May 2000	76	35	29	NA	35	61	61	61	6.8	6.8	6.8	NA	NS	NS	NA	NA	NA	No Dredging Activities. Data from Foster-Wheeler.
Dec 1999-Feb 2000	32	3.2	9.9	NA	3.2	89	89	89	3.4	3.4	3.4	NA	NS	NS	NA	NA	NA	
Sept-Nov 1999	67	22	24	NA	22	43	43	43	5.9	5.9	5.9	NA	5.2	5.2	NA	NA	NA	
June-August 1999	130	46	31	NA	46	33	33	33	12	12	12	NA	NS	NS	NA	NA	NA	

Notes:
d = field duplicate result
NA = not applicable
ng/m^3 = nanograms per cubic meter of air
NS = not sampled
PCB = polychlorinated biphenyl

ATTACHMENT E-1

Air Sampling Status Reports (PETS Curves)

LOCATION 24 – AEROVOX

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 24 Aerovox

Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m^3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 24 Aerovox in 2010:

A pre-dredge and post-dredge sampling event were conducted at location 24. Monthly ambient air samples for PCBs were collected at location 24 during the active dredge season in 2010.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		24 Aerovox
Exposure Budget Slope	[ng/m^3-day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	75
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limits		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 24 Aerovox

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	67	67.00	67.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	67	67.00	67.00	6192	6192	1206.0	1,206.0	19.5%	19.5%
3	12/1/2002	1	19	9476	32	49.50	66.08	344	6536	49.5	1,255.5	14.4%	19.2%
4	2/28/2003	89	108	9387	32	32.00	38.00	30616	37152	2848.0	4,103.5	9.3%	11.0%
5	5/31/2003	92	200	9295	76	54.00	45.36	31648	68800	4968.0	9,071.5	15.7%	13.2%
6	8/31/2003	92	292	9203	130	103.00	63.52	31648	100448	9476.0	18,547.5	29.9%	18.5%
7	11/30/2003	91	383	9112	67	98.50	71.83	31304	131752	8963.5	27,511.0	28.6%	20.9%
8	2/28/2004	90	473	9022	32	49.50	67.58	30960	162712	4455.0	31,966.0	14.4%	19.6%
9	5/31/2004	93	566	8929	76	54.00	65.35	31992	194704	5022.0	36,988.0	15.7%	19.0%
10	8/31/2004	92	658	8837	130	103.00	70.61	31648	226352	9476.0	46,464.0	29.9%	20.5%
11	9/8/2004	8	666	8829	67	98.50	70.95	2752	229104	788.0	47,252.0	28.6%	20.6%
12	9/9/2004	1	667	8828	1024	545.50	71.66	344	229448	545.5	47,797.5	158.6%	20.8%
13	9/14/2004	5	672	8823	1449	1236.50	80.33	1720	231168	6182.5	53,980.0	359.4%	23.4%
14	9/23/2004	9	681	8814	588	1018.50	92.73	3096	234264	9166.5	63,146.5	296.1%	27.0%
15	9/27/2004	4	685	8810	9557	5072.50	121.81	1376	235640	20290.0	83,436.5	1474.6%	35.4%
16	10/19/2004	22	707	8788	559	5058.00	275.41	7568	243208	111276.0	194,712.5	1470.3%	80.1%
17	11/5/2004	17	724	8771	578	568.50	282.29	5848	249056	9664.5	204,377.0	165.3%	82.1%
18	12/3/2004	28	752	8743	30	304.00	283.10	9632	258688	8512.0	212,889.0	88.4%	82.3%
19	2/28/2005	87	839	8656	32	31.00	256.96	29928	288616	2697.0	215,586.0	9.0%	74.7%
20	5/31/2005	92	931	8564	76	54.00	236.90	31648	320264	4968.0	220,554.0	15.7%	68.9%
21	8/10/2005	71	1002	8493	130	103.00	227.41	24424	344688	7313.0	227,867.0	29.9%	66.1%
22	8/11/2005	1	1003	8492	216	173.00	227.36	344	345032	173.0	228,040.0	50.3%	66.1%
23	9/15/2005	35	1038	8457	1490	853.00	248.45	12040	357072	29855.0	257,895.0	248.0%	72.2%
24	9/23/2005	8	1046	8449	178	834.00	252.93	2752	359824	6672.0	264,567.0	242.4%	73.5%
25	9/29/2005	6	1052	8443	383	280.50	253.09	2064	361888	1683.0	266,250.0	81.5%	73.6%
26	10/6/2005	7	1059	8436	1822	1102.50	258.70	2408	364296	7717.5	273,967.5	320.5%	75.2%
27	10/28/2005	22	1081	8414	15.4	918.70	272.14	7568	371864	20211.4	294,178.9	267.1%	79.1%
28	11/18/2005	21	1102	8393	15.9	15.65	267.25	7224	379088	328.7	294,507.6	4.5%	77.7%
29	12/29/2005	41	1143	8352	83.2	49.55	259.44	14104	393192	2031.6	296,539.1	14.4%	75.4%
30	2/28/2006	61	1204	8291	32	57.60	249.21	20984	414176	3513.6	300,052.7	16.7%	72.4%
31	5/31/2006	92	1296	8199	76	54.00	235.36	31648	445824	4968.0	305,020.7	15.7%	68.4%
32	8/15/2006	76	1372	8123	130	103.00	228.02	26144	471968	7828.0	312,848.7	29.9%	66.3%
33	8/16/2006	1	1373	8122	1629	879.50	228.50	344	472312	879.5	313,728.2	255.7%	66.4%
34	8/31/2006	15	1388	8107	1629	1629.00	243.63	5160	477472	24435.0	338,163.2	473.5%	70.8%
35	10/5/2006	35	1423	8072	2357	1993.00	286.66	12040	489512	69755.0	407,918.2	579.4%	83.3%

Notes:
EBS: Exposure Budget Slope= ng/m3-day
NC = Not Calculated
Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

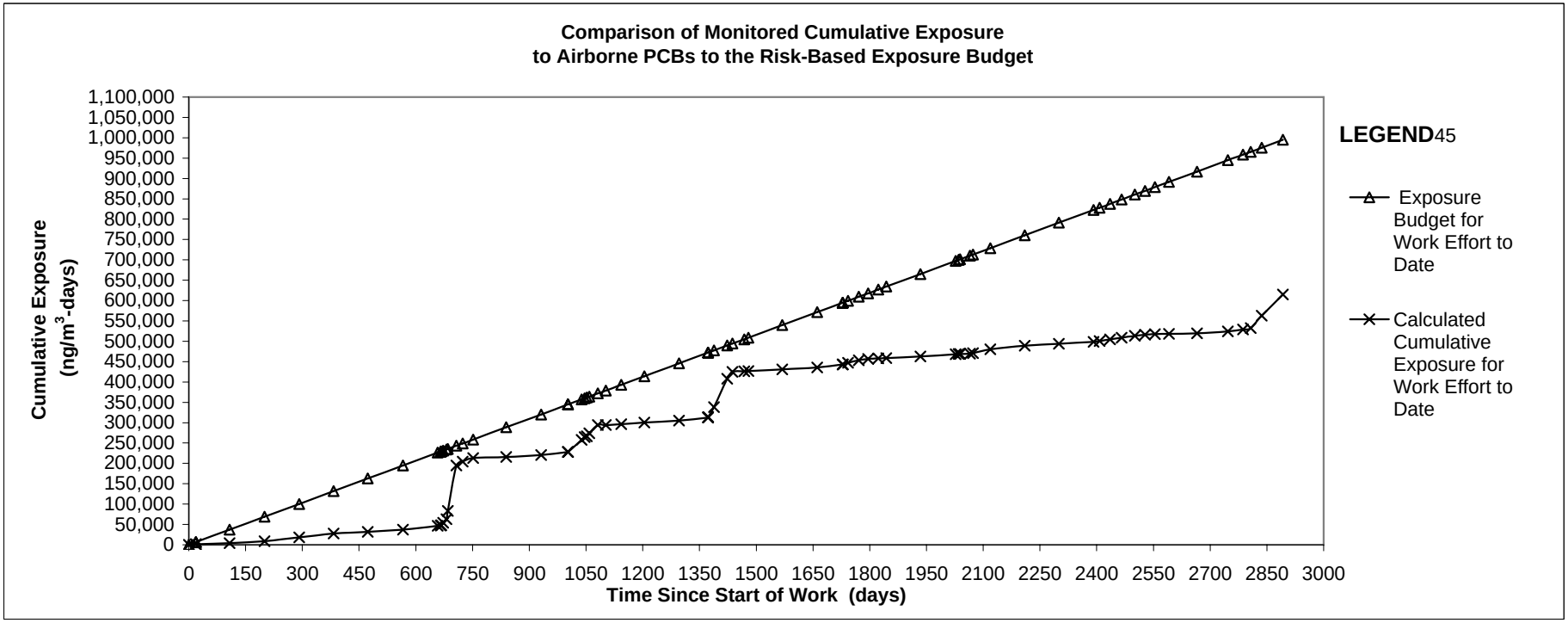
Sample Results, Calculated Budget and Exposure Values
Station: 24 Aerovox

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
36	10/19/2006	14	1437	8058	41.1	1199.05	295.55	4816	494328	16786.7	424,704.9	348.6%	85.9%
37	11/19/2006	31	1468	8027	41.1	41.10	290.18	10664	504992	1274.1	425,979.0	11.9%	84.4%
38	11/30/2006	11	1479	8016	67	54.05	288.42	3784	508776	594.6	426,573.6	15.7%	83.8%
39	2/28/2007	90	1569	7926	32	49.50	274.72	30960	539736	4455.0	431,028.6	14.4%	79.9%
40	5/31/2007	92	1661	7834	76	54.00	262.49	31648	571384	4968.0	435,996.6	15.7%	76.3%
41	8/6/2007	67	1728	7767	130	103.00	256.31	23048	594432	6901.0	442,897.6	29.9%	74.5%
42	8/7/2007	1	1729	7766	282	206.00	256.28	344	594776	206.0	443,103.6	59.9%	74.5%
43	8/21/2007	14	1743	7752	282	282.00	256.48	4816	599592	3948.0	447,051.6	82.0%	74.6%
44	9/18/2007	28	1771	7724	176	229.00	256.05	9632	609224	6412.0	453,463.6	66.6%	74.4%
45	10/13/2007	25	1796	7699	67	121.50	254.18	8600	617824	3037.5	456,501.1	35.3%	73.9%
46	11/9/2007	27	1823	7672	19.7	43.35	251.05	9288	627112	1170.5	457,671.5	12.6%	73.0%
47	11/30/2007	21	1844	7651	67	43.35	248.69	7224	634336	910.4	458,581.9	12.6%	72.3%
48	2/28/2008	90	1934	7561	32	49.50	239.42	30960	665296	4455.0	463,036.9	14.4%	69.6%
49	5/31/2008	93	2027	7468	76	54.00	230.91	31992	697288	5022.0	468,058.9	15.7%	67.1%
50	6/8/2008	8	2035	7460	34.4	55.20	230.22	2752	700040	441.6	468,500.5	16.0%	66.9%
51	6/12/2008	4	2039	7456	43.1	38.75	229.85	1376	701416	155.0	468,655.5	11.3%	66.8%
52	7/8/2008	26	2065	7430	26	34.55	227.39	8944	710360	898.3	469,553.8	10.0%	66.1%
53	7/16/2008	8	2073	7422	290	158.00	227.12	2752	713112	1264.0	470,817.8	45.9%	66.0%
54	8/31/2008	46	2119	7376	130	210.00	226.75	15824	728936	9660.0	480,477.8	61.0%	65.9%
55	11/30/2008	91	2210	7285	67	98.50	221.47	31304	760240	8963.5	489,441.3	28.6%	64.4%
56	2/28/2009	90	2300	7195	32	49.50	214.74	30960	791200	4455.0	493,896.3	14.4%	62.4%
57	5/31/2009	92	2392	7103	76	54.00	208.56	31648	822848	4968.0	498,864.3	15.7%	60.6%
58	6/16/2009	16	2408	7087	150	113.00	207.92	5504	828352	1808.0	500,672.3	32.8%	60.4%
59	7/13/2009	27	2435	7060	130	140.00	207.17	9288	837640	3780.0	504,452.3	40.7%	60.2%
60	8/13/2009	31	2466	7029	130	130.00	206.20	10664	848304	4030.0	508,482.3	37.8%	59.9%
61	9/17/2009	35	2501	6994	160	145.00	205.34	12040	860344	5075.0	513,557.3	42.2%	59.7%
62	10/14/2009	27	2528	6967	48.79	104.40	204.26	9288	869632	2818.7	516,375.9	30.3%	59.4%
63	11/9/2009	26	2554	6941	45.2	47.00	202.66	8944	878576	1221.9	517,597.8	13.7%	58.9%
64	12/16/2009	37	2591	6904	2.59	23.90	200.11	12728	891304	884.1	518,481.9	6.9%	58.2%
65	2/28/2010	74	2665	6830	32	17.30	195.03	25456	916760	1279.8	519,761.7	5.0%	56.7%
66	5/21/2010	82	2747	6748	86	59.00	190.97	28208	944968	4838.0	524,599.7	17.2%	55.5%
67	6/30/2010	40	2787	6708	120	103.00	189.71	13760	958728	4120.0	528,719.7	29.9%	55.1%
68	7/20/2010	20	2807	6688	270	195.00	189.75	6880	965608	3900.0	532,619.7	56.7%	55.2%
69	8/18/2010	29	2836	6659	1800	1035.00	198.39	9976	975584	30015.0	562,634.7	300.9%	57.7%
70	10/13/2010	56	2892	6603	80	940.00	212.75	19264	994848	52640.0	615,274.7	273.3%	61.8%

Notes:
EBS: Exposure Budget Slope= ng/m3-day
NC = Not Calculated
Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	24 Aerovox
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	80
Exposure Budget Expended During This Period:	273.3%
Cumulative Exposure Budget Expended to Date:	61.8%
Response Level:	No Triggers Identified
Response:	No Response Necessary



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).

b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).

c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).

f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).

g) 2010 dredge season which did include a pre-dredge sampling event and did include a post-dredge sampling event was from 2747 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 25 – CLIFTEX

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 25 Cliftex

Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m^3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 25 Cliftex in 2010:

A pre-dredge sampling event was not conducted at location 25. Monthly ambient air samples for PCBs were collected at location 25 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 25.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		25 Cliftex
Exposure Budget Slope	[ng/m^3-day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	23
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 25 Cliftex

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	134532	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	167	94.50	24.40	202	134734	94.5	16,273.4	46.8%	12.1%
13	9/14/2004	5	672	8823	229	198.00	25.69	1010	135744	990.0	17,263.4	98.0%	12.7%
14	9/23/2004	9	681	8814	97	163.00	27.50	1818	137562	1467.0	18,730.4	80.7%	13.6%
15	9/28/2004	5	686	8809	423	260.00	29.20	1010	138572	1300.0	20,030.4	128.7%	14.5%
16	10/19/2004	21	707	8788	259	341.00	38.46	4242	142814	7161.0	27,191.4	168.8%	19.0%
17	11/15/2004	27	734	8761	61	160.00	42.93	5454	148268	4320.0	31,511.4	79.2%	21.3%
18	12/3/2004	18	752	8743	27	44.00	42.96	3636	151904	792.0	32,303.4	21.8%	21.3%
19	2/28/2005	87	839	8656	3.2	15.10	40.07	17574	169478	1313.7	33,617.1	7.5%	19.8%
20	5/31/2005	92	931	8564	35	19.10	38.00	18584	188062	1757.2	35,374.3	9.5%	18.8%
21	8/10/2005	71	1002	8493	46	40.50	38.17	14342	202404	2875.5	38,249.8	20.0%	18.9%
22	8/11/2005	1	1003	8492	103	74.50	38.21	202	202606	74.5	38,324.3	36.9%	18.9%
23	9/15/2005	35	1038	8457	58.2	80.60	39.64	7070	209676	2821.0	41,145.3	39.9%	19.6%
24	9/23/2005	8	1046	8449	35.2	46.70	39.69	1616	211292	373.6	41,518.9	23.1%	19.7%
25	9/29/2005	6	1052	8443	104	69.60	39.86	1212	212504	417.6	41,936.5	34.5%	19.7%
26	10/6/2005	7	1059	8436	251	177.50	40.77	1414	213918	1242.5	43,179.0	87.9%	20.2%
27	11/18/2005	43	1102	8393	0.12	125.56	44.08	8686	222604	5399.1	48,578.1	62.2%	21.8%
28	12/29/2005	41	1143	8352	10.9	5.51	42.70	8282	230886	225.9	48,804.0	2.7%	21.1%
29	2/28/2006	61	1204	8291	3.2	7.05	40.89	12322	243208	430.1	49,234.0	3.5%	20.2%
30	5/31/2006	92	1296	8199	35	19.10	39.35	18584	261792	1757.2	50,991.2	9.5%	19.5%
31	8/15/2006	76	1372	8123	46	40.50	39.41	15352	277144	3078.0	54,069.2	20.0%	19.5%
32	8/16/2006	1	1373	8122	176	111.00	39.46	202	277346	111.0	54,180.2	55.0%	19.5%
33	8/31/2006	15	1388	8107	176	176.00	40.94	3030	280376	2640.0	56,820.2	87.1%	20.3%
34	10/5/2006	35	1423	8072	451	313.50	47.64	7070	287446	10972.5	67,792.7	155.2%	23.6%
35	10/19/2006	14	1437	8058	0.14	225.57	49.37	2828	290274	3158.0	70,950.7	111.7%	24.4%
36	11/19/2006	31	1468	8027	0.14	0.14	48.33	6262	296536	4.3	70,955.1	0.1%	23.9%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values
Station: 25 Cliftex

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
37	11/30/2006	11	1479	8016	22	11.07	48.06	2222	298758	121.8	71,076.8	5.5%	23.8%
38	2/28/2007	90	1569	7926	3.2	12.60	46.02	18180	316938	1134.0	72,210.8	6.2%	22.8%
39	5/31/2007	92	1661	7834	35	19.10	44.53	18584	335522	1757.2	73,968.0	9.5%	22.0%
40	8/6/2007	67	1728	7767	46	40.50	44.38	13534	349056	2713.5	76,681.5	20.0%	22.0%
41	8/7/2007	1	1729	7766	147	96.50	44.41	202	349258	96.5	76,778.0	47.8%	22.0%
42	8/21/2007	14	1743	7752	147	147.00	45.23	2828	352086	2058.0	78,836.0	72.8%	22.4%
43	9/18/2007	28	1771	7724	120	133.50	46.63	5656	357742	3738.0	82,574.0	66.1%	23.1%
44	10/13/2007	25	1796	7699	22	71.00	46.96	5050	362792	1775.0	84,349.0	35.1%	23.2%
45	11/9/2007	27	1823	7672	20.2	21.10	46.58	5454	368246	569.7	84,918.7	10.4%	23.1%
46	11/30/2007	21	1844	7651	22	21.10	46.29	4242	372488	443.1	85,361.8	10.4%	22.9%
47	2/28/2008	90	1934	7561	3.2	12.60	44.72	18180	390668	1134.0	86,495.8	6.2%	22.1%
48	5/31/2008	93	2027	7468	35	19.10	43.55	18786	409454	1776.3	88,272.1	9.5%	21.6%
49	8/31/2008	92	2119	7376	46	40.50	43.42	18584	428038	3726.0	91,998.1	20.0%	21.5%
50	11/30/2008	91	2210	7285	22	34.00	43.03	18382	446420	3094.0	95,092.1	16.8%	21.3%
51	2/28/2009	90	2300	7195	3.2	12.60	41.84	18180	464600	1134.0	96,226.1	6.2%	20.7%
52	5/31/2009	92	2392	7103	35	19.10	40.96	18584	483184	1757.2	97,983.3	9.5%	20.3%
53	6/16/2009	16	2408	7087	76.7	55.85	41.06	3232	486416	893.6	98,876.9	27.6%	20.3%
54	7/13/2009	27	2435	7060	18.1	47.40	41.13	5454	491870	1279.8	100,156.7	23.5%	20.4%
55	8/13/2009	31	2466	7029	21.2	19.65	40.86	6262	498132	609.2	100,765.9	9.7%	20.2%
56	9/17/2009	35	2501	6994	24.3	22.75	40.61	7070	505202	796.3	101,562.1	11.3%	20.1%
57	10/14/2009	27	2528	6967	11.8	18.05	40.37	5454	510656	487.4	102,049.5	8.9%	20.0%
58	11/9/2009	26	2554	6941	20.4	16.10	40.12	5252	515908	418.6	102,468.1	8.0%	19.9%
59	12/16/2009	37	2591	6904	0	10.20	39.69	7474	523382	377.4	102,845.5	5.0%	19.7%
60	2/28/2010	74	2665	6830	3.2	1.60	38.64	14948	538330	118.4	102,963.9	0.8%	19.1%
61	5/31/2010	92	2757	6738	35	19.10	37.98	18584	556914	1757.2	104,721.1	9.5%	18.8%
62	6/30/2010	30	2787	6708	7.3	21.15	37.80	6060	562974	634.5	105,355.6	10.5%	18.7%
63	7/20/2010	20	2807	6688	29	18.15	37.66	4040	567014	363.0	105,718.6	9.0%	18.6%
64	8/18/2010	29	2836	6659	300	164.50	38.96	5858	572872	4770.5	110,489.1	81.4%	19.3%
65	10/13/2010	56	2892	6603	36	168.00	41.46	11312	584184	9408.0	119,897.1	83.2%	20.5%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

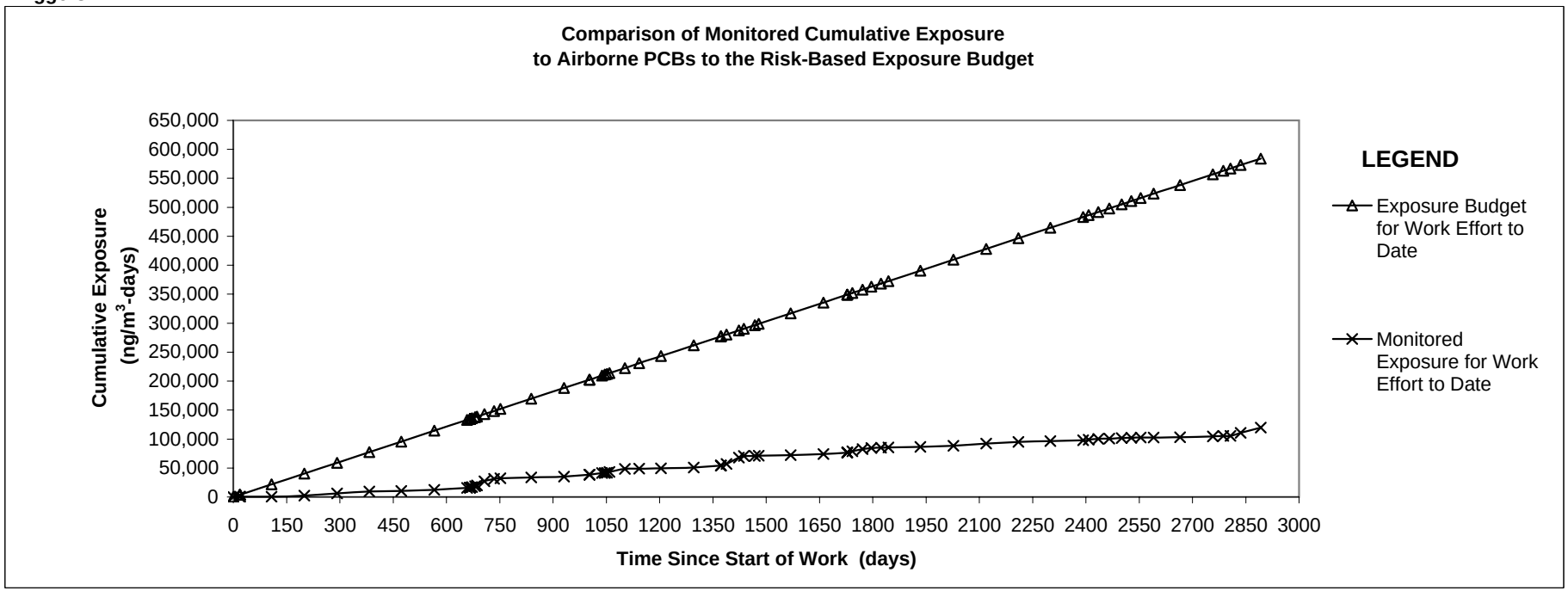
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	25 Cliftex
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	36
Exposure Budget Expended During This Period:	83.2%
Cumulative Exposure Budget Expended to Date:	20.5%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).

b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).

c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).

f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).

g) 2010 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2757 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 42 – NSTAR NORTH

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 42 NSTAR North
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 42 NSTAR in 2010:

A pre-dredge sampling event was conducted at location 42. Monthly ambient air samples for PCBs were collected at location 42 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 42.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		42 NSTAR North
Exposure Budget Slope	[ng/m^3-day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	23
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limits		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 42 NSTAR North

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	24	24.00	24.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	24	24.00	24.00	3636	3636	432.0	432.0	11.9%	11.9%
3	12/1/2002	1	19	9476	9.9	16.95	23.63	202	3838	17.0	449.0	8.4%	11.7%
4	2/28/2003	89	108	9387	9.9	9.90	12.32	17978	21816	881.1	1,330.1	4.9%	6.1%
5	5/31/2003	92	200	9295	29	19.45	15.60	18584	40400	1789.4	3,119.5	9.6%	7.7%
6	8/31/2003	92	292	9203	31	30.00	20.14	18584	58984	2760.0	5,879.5	14.9%	10.0%
7	11/30/2003	91	383	9112	24	27.50	21.88	18382	77366	2502.5	8,382.0	13.6%	10.8%
8	2/28/2004	90	473	9022	9.9	16.95	20.95	18180	95546	1525.5	9,907.5	8.4%	10.4%
9	5/31/2004	93	566	8929	29	19.45	20.70	18786	114332	1808.9	11,716.3	9.6%	10.2%
10	8/31/2004	92	658	8837	31	30.00	22.00	18584	132916	2760.0	14,476.3	14.9%	10.9%
11	11/4/2004	65	723	8772	24	27.50	22.49	13130	146046	1787.5	16,263.8	13.6%	11.1%
12	11/5/2004	1	724	8771	73	48.50	22.53	202	146248	48.5	16,312.3	24.0%	11.2%
13	12/3/2004	28	752	8743	40	56.50	23.80	5656	151904	1582.0	17,894.3	28.0%	11.8%
14	2/28/2005	87	839	8656	9.9	24.95	23.92	17574	169478	2170.7	20,065.0	12.4%	11.8%
15	5/31/2005	92	931	8564	29	19.45	23.47	18584	188062	1789.4	21,854.4	9.6%	11.6%
16	8/10/2005	71	1002	8493	31	30.00	23.94	14342	202404	2130.0	23,984.4	14.9%	11.8%
17	8/11/2005	1	1003	8492	25.9	28.45	23.94	202	202606	28.5	24,012.8	14.1%	11.9%
18	9/15/2005	35	1038	8457	22.5	24.20	23.95	7070	209676	847.0	24,859.8	12.0%	11.9%
19	9/23/2005	8	1046	8449	83.3	52.90	24.17	1616	211292	423.2	25,283.0	26.2%	12.0%
20	9/29/2005	6	1052	8443	5.28	44.29	24.29	1212	212504	265.7	25,548.7	21.9%	12.0%
21	10/6/2005	7	1059	8436	119	62.14	24.54	1414	213918	435.0	25,983.7	30.8%	12.1%
22	10/28/2005	22	1081	8414	32.3	75.65	25.58	4444	218362	1664.3	27,648.0	37.5%	12.7%
23	11/18/2005	21	1102	8393	64.1	48.20	26.01	4242	222604	1012.2	28,660.2	23.9%	12.9%
24	12/29/2005	41	1143	8352	21.4	42.75	26.61	8282	230886	1752.8	30,413.0	21.2%	13.2%
25	2/28/2006	61	1204	8291	9.9	15.65	26.05	12322	243208	954.7	31,367.6	7.7%	12.9%
26	5/31/2006	92	1296	8199	29	19.45	25.58	18584	261792	1789.4	33,157.0	9.6%	12.7%
27	8/31/2006	92	1388	8107	31	30.00	25.88	18584	280376	2760.0	35,917.0	14.9%	12.8%
28	11/30/2006	91	1479	8016	24	27.50	25.98	18382	298758	2502.5	38,419.5	13.6%	12.9%
29	2/28/2007	90	1569	7926	9.9	16.95	25.46	18180	316938	1525.5	39,945.0	8.4%	12.6%
30	5/31/2007	92	1661	7834	29	19.45	25.13	18584	335522	1789.4	41,734.4	9.6%	12.4%
31	8/6/2007	67	1728	7767	31	30.00	25.32	13534	349056	2010.0	43,744.4	14.9%	12.5%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values
Station: 42 NSTAR North

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
32	8/7/2007	1	1729	7766	19.2	25.10	25.31	202	349258	25.1	43,769.5	12.4%	12.5%
33	8/21/2007	14	1743	7752	19.2	19.20	25.27	2828	352086	268.8	44,038.3	9.5%	12.5%
34	9/18/2007	28	1771	7724	16.3	17.75	25.15	5656	357742	497.0	44,535.3	8.8%	12.4%
35	10/13/2007	25	1796	7699	24	20.15	25.08	5050	362792	503.8	45,039.1	10.0%	12.4%
36	11/9/2007	27	1823	7672	15.7	19.85	25.00	5454	368246	536.0	45,575.0	9.8%	12.4%
37	11/30/2007	21	1844	7651	24	19.85	24.94	4242	372488	416.9	45,991.9	9.8%	12.3%
38	2/28/2008	90	1934	7561	9.9	16.95	24.57	18180	390668	1525.5	47,517.4	8.4%	12.2%
39	5/31/2008	93	2027	7468	29	19.45	24.33	18786	409454	1808.9	49,326.2	9.6%	12.0%
40	8/31/2008	92	2119	7376	31	30.00	24.58	18584	428038	2760.0	52,086.2	14.9%	12.2%
41	11/30/2008	91	2210	7285	24	27.50	24.70	18382	446420	2502.5	54,588.7	13.6%	12.2%
42	2/28/2009	90	2300	7195	29	26.50	24.77	18180	464600	2385.0	56,973.7	13.1%	12.3%
43	5/31/2009	92	2392	7103	31	30.00	24.97	18584	483184	2760.0	59,733.7	14.9%	12.4%
44	6/16/2009	16	2408	7087	10	20.50	24.94	3232	486416	328.0	60,061.7	10.1%	12.3%
45	7/13/2009	27	2435	7060	39	24.50	24.94	5454	491870	661.5	60,723.2	12.1%	12.3%
46	8/13/2009	31	2466	7029	14	26.50	24.96	6262	498132	821.5	61,544.7	13.1%	12.4%
47	9/17/2009	35	2501	6994	2.2	8.10	24.72	7070	505202	283.5	61,828.2	4.0%	12.2%
48	10/14/2009	27	2528	6967	17.92	10.06	24.56	5454	510656	271.6	62,099.8	5.0%	12.2%
49	11/9/2009	26	2554	6941	25.3	21.61	24.53	5252	515908	561.9	62,661.7	10.7%	12.1%
50	12/16/2009	37	2591	6904	23.8	24.55	24.53	7474	523382	908.4	63,570.1	12.2%	12.1%
51	2/28/2010	74	2665	6830	9.9	16.85	24.32	14948	538330	1246.9	64,817.0	8.3%	12.0%
52	5/21/2010	82	2747	6748	0.042	4.97	23.74	16564	554894	407.6	65,224.6	2.5%	11.8%
53	6/30/2010	40	2787	6708	0.0013	0.02	23.40	8080	562974	0.9	65,225.4	0.0%	11.6%
54	8/18/2010	49	2836	6659	25	12.50	23.22	9898	572872	612.5	65,838.0	6.2%	11.5%
55	10/13/2010	56	2892	6603	9	17.00	23.09	11312	584184	952.0	66,790.0	8.4%	11.4%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

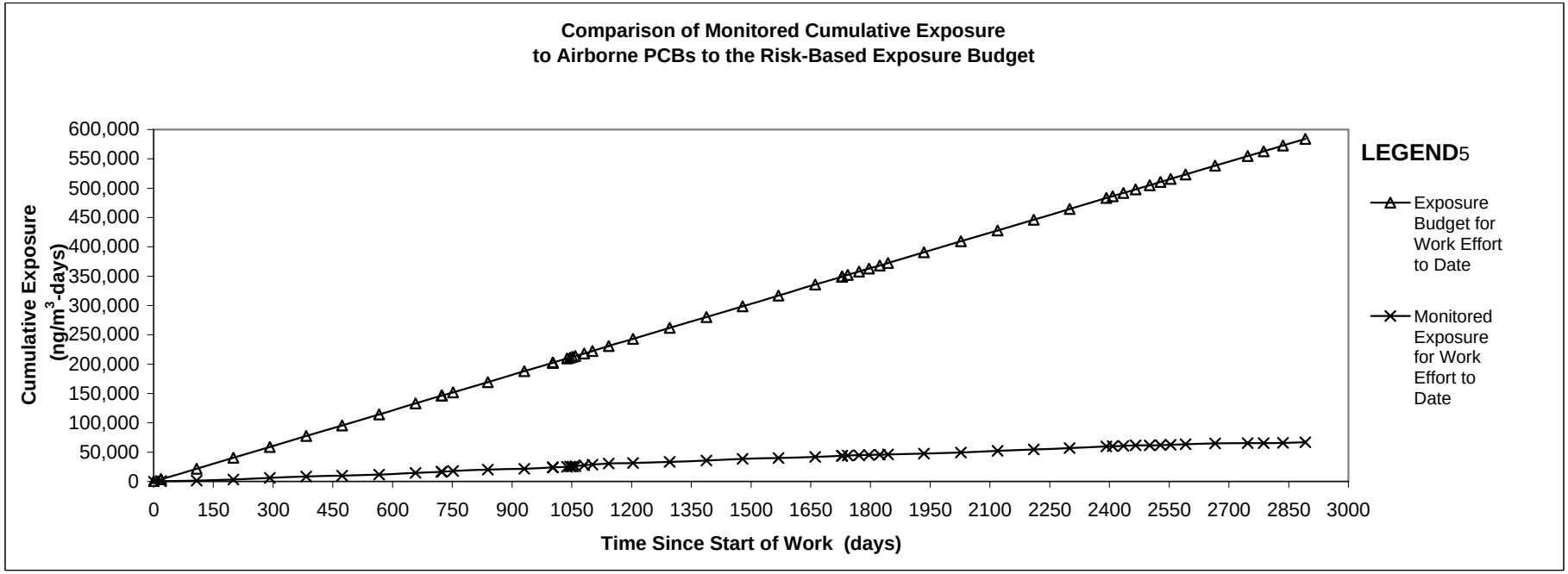
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	42 NSTAR North
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	9
Exposure Budget Expended During This Period:	8.4%
Cumulative Exposure Budget Expended to Date:	11.4%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).
e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).
f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).
g) 2010 dredge season which did include a pre-dredge sampling event and did include a post-dredge sampling event was from 2747 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 46 – COFFIN AVENUE

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 46 Coffin Avenue
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 46 Coffin Avenue in 2010:

A pre-dredge sampling event was not conducted at location 46. Monthly ambient air samples for PCBs were collected at location 46 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 46.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		46 Coffin Ave
Exposure Budget Slope	[ng/m^3-day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	26.1
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 46 Coffin Avenue

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	134532	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	145	83.50	24.38	202	134734	83.5	16,262.4	41.3%	12.1%
13	9/14/2004	5	672	8823	48	96.50	24.92	1010	135744	482.5	16,744.9	47.8%	12.3%
14	9/23/2004	9	681	8814	5	26.50	24.94	1818	137562	238.5	16,983.4	13.1%	12.3%
15	9/28/2004	5	686	8809	342	173.50	26.02	1010	138572	867.5	17,850.9	85.9%	12.9%
16	10/19/2004	21	707	8788	36	189.00	30.86	4242	142814	3969.0	21,819.9	93.6%	15.3%
17	11/5/2004	17	724	8771	80	58.00	31.50	3434	146248	986.0	22,805.9	28.7%	15.6%
18	12/3/2004	28	752	8743	15	47.50	32.10	5656	151904	1330.0	24,135.9	23.5%	15.9%
19	2/28/2005	87	839	8656	3.2	9.10	29.71	17574	169478	791.7	24,927.6	4.5%	14.7%
20	5/31/2005	92	931	8564	35	19.10	28.66	18584	188062	1757.2	26,684.8	9.5%	14.2%
21	8/10/2005	71	1002	8493	46	40.50	29.50	14342	202404	2875.5	29,560.3	20.0%	14.6%
22	8/11/2005	1	1003	8492	37.2	41.60	29.51	202	202606	41.6	29,601.9	20.6%	14.6%
23	9/15/2005	35	1038	8457	99.8	68.50	30.83	7070	209676	2397.5	31,999.4	33.9%	15.3%
24	9/23/2005	8	1046	8449	115	107.40	31.41	1616	211292	859.2	32,858.6	53.2%	15.6%
25	9/29/2005	6	1052	8443	124	119.50	31.92	1212	212504	717.0	33,575.6	59.2%	15.8%
26	10/6/2005	7	1059	8436	130	127.00	32.54	1414	213918	889.0	34,464.6	62.9%	16.1%
27	10/28/2005	22	1081	8414	2.06	66.03	33.23	4444	218362	1452.7	35,917.3	32.7%	16.4%
28	11/18/2005	21	1102	8393	0.14	1.10	32.61	4242	222604	23.1	35,940.4	0.5%	16.1%
29	12/29/2005	41	1143	8352	65.1	32.62	32.61	8282	230886	1337.4	37,277.8	16.1%	16.1%
30	2/28/2006	61	1204	8291	3.2	34.15	32.69	12322	243208	2083.2	39,360.9	16.9%	16.2%
31	5/31/2006	92	1296	8199	35	19.10	31.73	18584	261792	1757.2	41,118.1	9.5%	15.7%
32	8/15/2006	76	1372	8123	46	40.50	32.21	15352	277144	3078.0	44,196.1	20.0%	15.9%
33	8/16/2006	1	1373	8122	70.4	58.20	32.23	202	277346	58.2	44,254.3	28.8%	16.0%
34	8/31/2006	15	1388	8107	70.4	70.40	32.64	3030	280376	1056.0	45,310.3	34.9%	16.2%
35	10/5/2006	35	1423	8072	108	89.20	34.04	7070	287446	3122.0	48,432.3	44.2%	16.8%
36	10/19/2006	14	1437	8058	4.05	56.03	34.25	2828	290274	784.4	49,216.7	27.7%	17.0%
37	11/19/2006	31	1468	8027	4.05	4.05	33.61	6262	296536	125.6	49,342.2	2.0%	16.6%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values
Station: 46 Coffin Avenue

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
38	11/30/2006	11	1479	8016	22	13.03	33.46	2222	298758	143.3	49,485.5	6.4%	16.6%
39	2/28/2007	90	1569	7926	3.2	12.60	32.26	18180	316938	1134.0	50,619.5	6.2%	16.0%
40	5/31/2007	92	1661	7834	35	19.10	31.53	18584	335522	1757.2	52,376.7	9.5%	15.6%
41	8/6/2007	67	1728	7767	46	40.50	31.88	13534	349056	2713.5	55,090.2	20.0%	15.8%
42	8/7/2007	1	1729	7766	36.1	41.05	31.89	202	349258	41.1	55,131.3	20.3%	15.8%
43	8/21/2007	14	1743	7752	36.1	36.10	31.92	2828	352086	505.4	55,636.7	17.9%	15.8%
44	9/18/2007	28	1771	7724	21.4	28.75	31.87	5656	357742	805.0	56,441.7	14.2%	15.8%
45	10/13/2007	25	1796	7699	22	21.70	31.73	5050	362792	542.5	56,984.2	10.7%	15.7%
46	11/9/2007	27	1823	7672	1.86	11.93	31.44	5454	368246	322.1	57,306.3	5.9%	15.6%
47	11/30/2007	21	1844	7651	22	11.93	31.21	4242	372488	250.5	57,556.8	5.9%	15.5%
48	2/28/2008	90	1934	7561	32	27.00	31.02	18180	390668	2430.0	59,986.8	13.4%	15.4%
49	5/31/2008	93	2027	7468	76	54.00	32.07	18786	409454	5022.0	65,008.8	26.7%	15.9%
50	8/18/2008	79	2106	7389	121.9	98.95	34.58	15958	425412	7817.1	72,825.8	49.0%	17.1%
51	8/21/2008	3	2109	7386	121.9	121.90	34.70	606	426018	365.7	73,191.5	60.3%	17.2%
52	10/7/2008	47	2156	7339	5.2	63.55	35.33	9494	435512	2986.9	76,178.4	31.5%	17.5%
53	11/10/2008	34	2190	7305	1.3	3.25	34.84	6868	442380	110.5	76,288.9	1.6%	17.2%
54	11/30/2008	20	2210	7285	22	11.65	34.63	4040	446420	233.0	76,521.9	5.8%	17.1%
55	2/28/2009	90	2300	7195	32	27.00	34.33	18180	464600	2430.0	78,951.9	13.4%	17.0%
56	5/31/2009	92	2392	7103	76	54.00	35.08	18584	483184	4968.0	83,919.9	26.7%	17.4%
57	6/16/2009	16	2408	7087	34.6	55.30	35.22	3232	486416	884.8	84,804.7	27.4%	17.4%
58	7/13/2009	27	2435	7060	36.4	35.50	35.22	5454	491870	958.5	85,763.2	17.6%	17.4%
59	8/13/2009	31	2466	7029	14.1	25.25	35.10	6262	498132	782.8	86,545.9	12.5%	17.4%
60	9/17/2009	35	2501	6994	12.9	13.50	34.79	7070	505202	472.5	87,018.4	6.7%	17.2%
61	10/14/2009	27	2528	6967	6.07	9.49	34.52	5454	510656	256.1	87,274.5	4.7%	17.1%
62	11/9/2009	26	2554	6941	32.8	19.44	34.37	5252	515908	505.3	87,779.9	9.6%	17.0%
63	12/16/2009	37	2591	6904	0	16.40	34.11	7474	523382	606.8	88,386.7	8.1%	16.9%
64	2/28/2010	74	2665	6830	32	16.00	33.61	14948	538330	1184.0	89,570.7	7.9%	16.6%
65	5/31/2010	92	2757	6738	76	54.00	34.29	18584	556914	4968.0	94,538.7	26.7%	17.0%
66	6/30/2010	30	2787	6708	13	44.50	34.40	6060	562974	1335.0	95,873.7	22.0%	17.0%
67	7/20/2010	20	2807	6688	47	30.00	34.37	4040	567014	600.0	96,473.7	14.9%	17.0%
68	8/18/2010	29	2836	6659	31	39.00	34.42	5858	572872	1131.0	97,604.7	19.3%	17.0%
69	10/13/2010	56	2892	6603	21	26.00	34.25	11312	584184	1456.0	99,060.7	12.9%	17.0%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

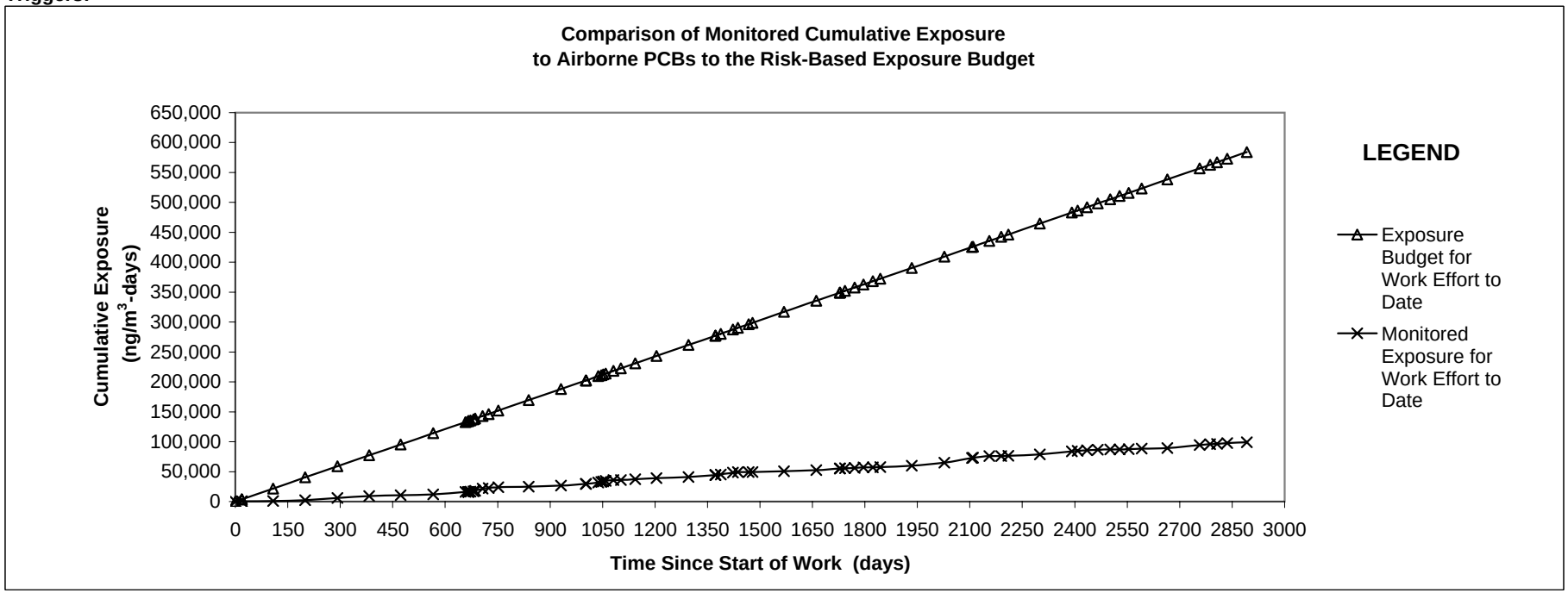
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	46 Coffin Ave
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	21
Exposure Budget Expended During This Period:	12.9%
Cumulative Exposure Budget Expended to Date:	17.0%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).

b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).

c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).

f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).

g) 2010 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2747 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 49 – AREA C DOWNWIND

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 49 Area C Downwind
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 49 Area C Downwind in 2010:

A pre-dredge sampling event was not conducted at location 49. Monthly ambient air samples for PCBs were collected at location 49 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 49.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		49 Area C Downwind
Exposure Budget Slope	[ng/m^3-day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	56
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 49 Area C Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	43	43.00	43.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	43	43.00	43.00	3636	3636	774.0	774.0	21.3%	21.3%
3	12/1/2002	1	19	9476	89	66.00	44.21	202	3838	66.0	840.0	32.7%	21.9%
4	2/28/2003	89	108	9387	89	89.00	81.12	17978	21816	7921.0	8,761.0	44.1%	40.2%
5	5/31/2003	92	200	9295	61	75.00	78.31	18584	40400	6900.0	15,661.0	37.1%	38.8%
6	8/31/2003	92	292	9203	33	47.00	68.44	18584	58984	4324.0	19,985.0	23.3%	33.9%
7	11/30/2003	91	383	9112	43	38.00	61.21	18382	77366	3458.0	23,443.0	18.8%	30.3%
8	2/28/2004	90	473	9022	89	66.00	62.12	18180	95546	5940.0	29,383.0	32.7%	30.8%
9	5/31/2004	93	566	8929	61	75.00	64.24	18786	114332	6975.0	36,358.0	37.1%	31.8%
10	8/31/2004	92	658	8837	33	47.00	61.83	18584	132916	4324.0	40,682.0	23.3%	30.6%
11	9/8/2004	8	666	8829	43	38.00	61.54	1616	134532	304.0	40,986.0	18.8%	30.5%
12	9/9/2004	1	667	8828	56	49.50	61.52	202	134734	49.5	41,035.5	24.5%	30.5%
13	9/14/2004	5	672	8823	86	71.00	61.59	1010	135744	355.0	41,390.5	35.1%	30.5%
14	9/23/2004	9	681	8814	17	51.50	61.46	1818	137562	463.5	41,854.0	25.5%	30.4%
15	9/28/2004	5	686	8809	207	112.00	61.83	1010	138572	560.0	42,414.0	55.4%	30.6%
16	10/19/2004	21	707	8788	66	136.50	64.05	4242	142814	2866.5	45,280.5	67.6%	31.7%
17	11/5/2004	17	724	8771	28	47.00	63.65	3434	146248	799.0	46,079.5	23.3%	31.5%
18	12/3/2004	28	752	8743	26	27.00	62.28	5656	151904	756.0	46,835.5	13.4%	30.8%
19	2/28/2005	87	839	8656	89	57.50	61.79	17574	169478	5002.5	51,838.0	28.5%	30.6%
20	5/31/2005	92	931	8564	61	75.00	63.09	18584	188062	6900.0	58,738.0	37.1%	31.2%
21	8/10/2005	71	1002	8493	33	47.00	61.95	14342	202404	3337.0	62,075.0	23.3%	30.7%
22	8/11/2005	1	1003	8492	29.3	31.15	61.92	202	202606	31.2	62,106.2	15.4%	30.7%
23	9/15/2005	35	1038	8457	83.6	56.45	61.74	7070	209676	1975.8	64,081.9	27.9%	30.6%
24	9/23/2005	8	1046	8449	97	90.30	61.95	1616	211292	722.4	64,804.3	44.7%	30.7%
25	9/29/2005	6	1052	8443	44.2	70.60	62.00	1212	212504	423.6	65,227.9	35.0%	30.7%
26	10/6/2005	7	1059	8436	114	79.10	62.12	1414	213918	553.7	65,781.6	39.2%	30.8%
27	10/28/2005	22	1081	8414	12.3	63.15	62.14	4444	218362	1389.3	67,170.9	31.3%	30.8%
28	11/18/2005	21	1102	8393	3.71	8.01	61.11	4242	222604	168.1	67,339.0	4.0%	30.3%
29	12/29/2005	41	1143	8352	7.42	5.57	59.11	8282	230886	228.2	67,567.2	2.8%	29.3%
30	2/28/2006	61	1204	8291	89	48.21	58.56	12322	243208	2940.8	70,508.0	23.9%	29.0%
31	5/31/2006	92	1296	8199	61	75.00	59.73	18584	261792	6900.0	77,408.0	37.1%	29.6%
32	8/15/2006	76	1372	8123	31	46.00	58.97	15352	277144	3496.0	80,904.0	22.8%	29.2%
33	8/16/2006	1	1373	8122	39.2	35.10	58.95	202	277346	35.1	80,939.1	17.4%	29.2%
34	8/31/2006	15	1388	8107	39.2	39.20	58.74	3030	280376	588.0	81,527.1	19.4%	29.1%
35	10/5/2006	35	1423	8072	157	98.10	59.71	7070	287446	3433.5	84,960.6	48.6%	29.6%
36	10/19/2006	14	1437	8058	81.4	119.20	60.28	2828	290274	1668.8	86,629.4	59.0%	29.8%
37	11/19/2006	31	1468	8027	81.4	81.40	60.73	6262	296536	2523.4	89,152.8	40.3%	30.1%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values
Station: 49 Area C Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
38	11/30/2006	11	1479	8016	43	62.20	60.74	2222	298758	684.2	89,837.0	30.8%	30.1%
39	2/28/2007	90	1569	7926	89	66.00	61.04	18180	316938	5940.0	95,777.0	32.7%	30.2%
40	5/31/2007	92	1661	7834	61	75.00	61.82	18584	335522	6900.0	102,677.0	37.1%	30.6%
41	8/6/2007	67	1728	7767	31	46.00	61.20	13534	349056	3082.0	105,759.0	22.8%	30.3%
42	8/7/2007	1	1729	7766	46.9	38.95	61.19	202	349258	39.0	105,797.9	19.3%	30.3%
43	9/18/2007	42	1771	7724	57.1	52.00	60.97	8484	357742	2184.0	107,981.9	25.7%	30.2%
44	10/13/2007	25	1796	7699	43	50.05	60.82	5050	362792	1251.3	109,233.2	24.8%	30.1%
45	11/9/2007	27	1823	7672	9.29	26.15	60.31	5454	368246	705.9	109,939.1	12.9%	29.9%
46	11/30/2007	21	1844	7651	43	26.15	59.92	4242	372488	549.0	110,488.1	12.9%	29.7%
47	2/28/2008	90	1934	7561	89	66.00	60.20	18180	390668	5940.0	116,428.1	32.7%	29.8%
48	5/31/2008	93	2027	7468	61	75.00	60.88	18786	409454	6975.0	123,403.1	37.1%	30.1%
49	8/18/2008	79	2106	7389	123.4	92.20	62.05	15958	425412	7283.8	130,686.9	45.6%	30.7%
50	8/21/2008	3	2109	7386	116.4	119.90	62.14	606	426018	359.7	131,046.6	59.4%	30.8%
51	9/24/2008	34	2143	7352	42	79.20	62.41	6868	432886	2692.8	133,739.4	39.2%	30.9%
52	11/10/2008	47	2190	7305	6.2	24.10	61.59	9494	442380	1132.7	134,872.1	11.9%	30.5%
53	2/28/2009	110	2300	7195	89	47.60	60.92	22220	464600	5236.0	140,108.1	23.6%	30.2%
54	5/31/2009	92	2392	7103	61	75.00	61.46	18584	483184	6900.0	147,008.1	37.1%	30.4%
55	6/16/2009	16	2408	7087	31.8	46.40	61.36	3232	486416	742.4	147,750.5	23.0%	30.4%
56	7/13/2009	27	2435	7060	76.5	54.15	61.28	5454	491870	1462.1	149,212.6	26.8%	30.3%
57	8/13/2009	31	2466	7029	31.5	54.00	61.19	6262	498132	1674.0	150,886.6	26.7%	30.3%
58	9/17/2009	35	2501	6994	35.3	33.40	60.80	7070	505202	1169.0	152,055.6	16.5%	30.1%
59	10/14/2009	27	2528	6967	13.3	24.30	60.41	5454	510656	656.1	152,711.7	12.0%	29.9%
60	11/9/2009	26	2554	6941	51.8	32.55	60.12	5252	515908	846.3	153,558.0	16.1%	29.8%
61	12/16/2009	37	2591	6904	1.25	26.53	59.64	7474	523382	981.4	154,539.4	13.1%	29.5%
62	2/28/2010	74	2665	6830	89	45.13	59.24	14948	538330	3339.3	157,878.7	22.3%	29.3%
63	5/31/2010	92	2757	6738	61	75.00	59.77	18584	556914	6900.0	164,778.7	37.1%	29.6%
64	6/30/2010	30	2787	6708	32	46.50	59.62	6060	562974	1395.0	166,173.7	23.0%	29.5%
65	7/20/2010	20	2807	6688	79	55.50	59.60	4040	567014	1110.0	167,283.7	27.5%	29.5%
66	8/18/2010	29	2836	6659	130	104.50	60.05	5858	572872	3030.5	170,314.2	51.7%	29.7%
67	10/13/2010	56	2892	6603	24	77.00	60.38	11312	584184	4312.0	174,626.2	38.1%	29.9%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

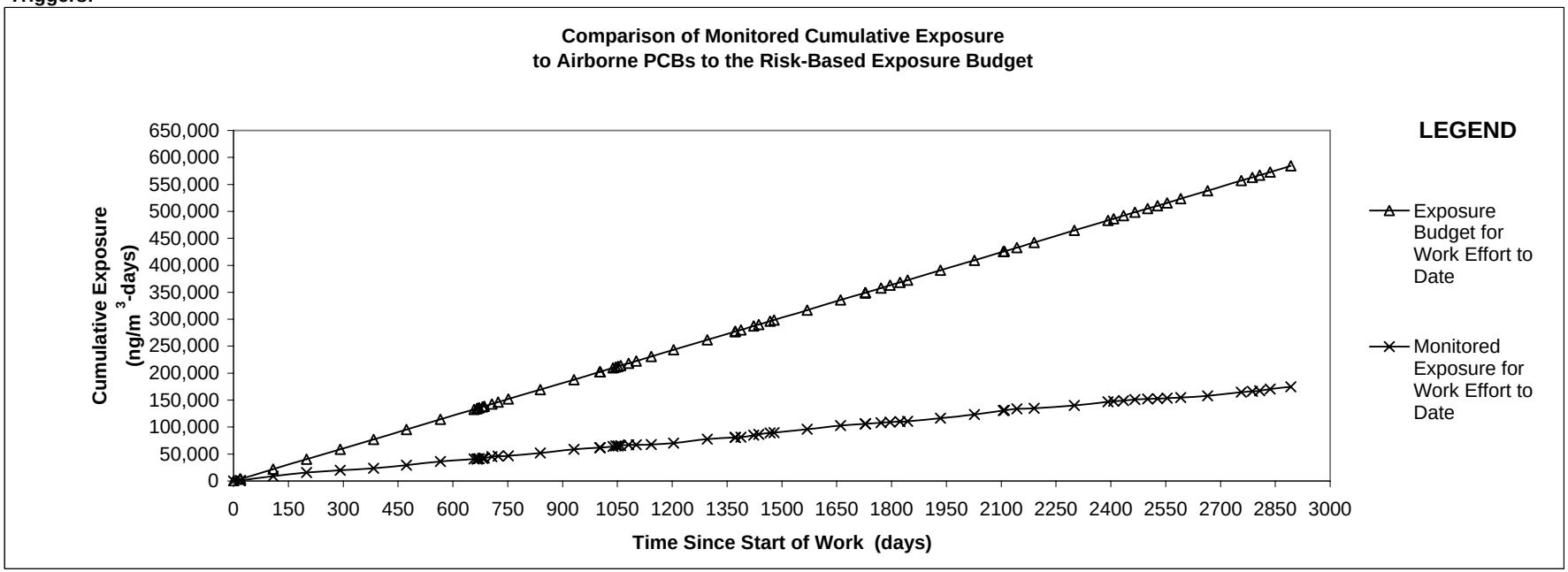
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	49 Area C Downwind
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	24
Exposure Budget Expended During This Period:	38.1%
Cumulative Exposure Budget Expended to Date:	29.9%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).
e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).
f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).
g) 2010 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2757 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 50 – AREA D DOWNWIND

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 50 Area D Downwind
Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 50 Area D Downwind in 2010:

A pre-dredge sampling event was not conducted at location 50. Monthly ambient air samples for PCBs were collected at location 50 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 50.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		50 Area D Downwind
Exposure Budget Slope	[ng/m^3-day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Minimum of TEL/NTEL	[ng/m^3]	1,789
Baseline Average Concentration	[ng/m^3]	16.7
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 50 Area D Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	5.9	5.90	5.90	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	5.9	5.90	5.90	6192	6192	106.2	106.2	1.7%	1.7%
3	12/1/2002	1	19	9476	3.4	4.65	5.83	344	6536	4.7	110.9	1.4%	1.7%
4	2/28/2003	89	108	9387	3.4	3.40	3.83	30616	37152	302.6	413.5	1.0%	1.1%
5	5/31/2003	92	200	9295	6.8	5.10	4.41	31648	68800	469.2	882.7	1.5%	1.3%
6	8/31/2003	92	292	9203	12	9.40	5.98	31648	100448	864.8	1,747.5	2.7%	1.7%
7	11/30/2003	91	383	9112	5.9	8.95	6.69	31304	131752	814.5	2,561.9	2.6%	1.9%
8	2/28/2004	90	473	9022	3.4	4.65	6.30	30960	162712	418.5	2,980.4	1.4%	1.8%
9	5/31/2004	93	566	8929	6.8	5.10	6.10	31992	194704	474.3	3,454.7	1.5%	1.8%
10	8/31/2004	92	658	8837	12	9.40	6.56	31648	226352	864.8	4,319.5	2.7%	1.9%
11	9/8/2004	8	666	8829	5.9	8.95	6.59	2752	229104	71.6	4,391.1	2.6%	1.9%
12	9/9/2004	1	667	8828	20	12.95	6.60	344	229448	13.0	4,404.1	3.8%	1.9%
13	9/14/2004	5	672	8823	38	29.00	6.77	1720	231168	145.0	4,549.1	8.4%	2.0%
14	9/23/2004	9	681	8814	6	22.00	6.97	3096	234264	198.0	4,747.1	6.4%	2.0%
15	9/28/2004	5	686	8809	80	43.00	7.23	1720	235984	215.0	4,962.1	12.5%	2.1%
16	10/19/2004	21	707	8788	17	48.50	8.46	7224	243208	1018.5	5,980.6	14.1%	2.5%
17	12/3/2004	45	752	8743	22	19.50	9.12	15480	258688	877.5	6,858.1	5.7%	2.7%
18	2/28/2005	87	839	8656	3.4	12.70	9.49	29928	288616	1104.9	7,963.0	3.7%	2.8%
19	5/31/2005	92	931	8564	6.8	5.10	9.06	31648	320264	469.2	8,432.2	1.5%	2.6%
20	8/10/2005	71	1002	8493	12	9.40	9.08	24424	344688	667.4	9,099.6	2.7%	2.6%
21	8/11/2005	1	1003	8492	21.3	16.65	9.09	344	345032	16.7	9,116.2	4.8%	2.6%
22	9/15/2005	35	1038	8457	0.52	10.91	9.15	12040	357072	381.9	9,498.1	3.2%	2.7%
23	9/23/2005	8	1046	8449	0.26	0.39	9.08	2752	359824	3.1	9,501.2	0.1%	2.6%
24	9/29/2005	6	1052	8443	24.2	12.23	9.10	2064	361888	73.4	9,574.6	3.6%	2.6%
25	10/6/2005	7	1059	8436	81.7	52.95	9.39	2408	364296	370.7	9,945.2	15.4%	2.7%
26	10/28/2005	22	1081	8414	0.01	40.86	10.03	7568	371864	898.8	10,844.0	11.9%	2.9%
27	12/29/2005	62	1143	8352	2.18	1.10	9.55	21328	393192	67.9	10,911.9	0.3%	2.8%
28	2/28/2006	61	1204	8291	3.4	2.79	9.20	20984	414176	170.2	11,082.1	0.8%	2.7%
29	5/31/2006	92	1296	8199	6.8	5.10	8.91	31648	445824	469.2	11,551.3	1.5%	2.6%
30	8/15/2006	76	1372	8123	12	9.40	8.94	26144	471968	714.4	12,265.7	2.7%	2.6%
31	8/16/2006	1	1373	8122	67.3	39.65	8.96	344	472312	39.7	12,305.3	11.5%	2.6%
32	8/31/2006	15	1388	8107	67.3	67.30	9.59	5160	477472	1009.5	13,314.8	19.6%	2.8%
33	10/5/2006	35	1423	8072	197	132.15	12.61	12040	489512	4625.3	17,940.1	38.4%	3.7%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values
Station: 50 Area D Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#}	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
34	10/19/2006	14	1437	8058	2.6	99.80	13.46	4816	494328	1397.2	19,337.3	29.0%	3.9%
35	11/19/2006	31	1468	8027	2.6	2.60	13.23	10664	504992	80.6	19,417.9	0.8%	3.8%
36	11/30/2006	11	1479	8016	5.9	4.25	13.16	3784	508776	46.8	19,464.6	1.2%	3.8%
37	2/28/2007	90	1569	7926	3.4	4.65	12.67	30960	539736	418.5	19,883.1	1.4%	3.7%
38	5/31/2007	92	1661	7834	6.8	5.10	12.25	31648	571384	469.2	20,352.3	1.5%	3.6%
39	8/6/2007	67	1728	7767	31	18.90	12.51	23048	594432	1266.3	21,618.6	5.5%	3.6%
40	8/7/2007	1	1729	7766	36.7	33.85	12.52	344	594776	33.9	21,652.5	9.8%	3.6%
41	8/21/2007	14	1743	7752	36.7	36.70	12.72	4816	599592	513.8	22,166.3	10.7%	3.7%
42	9/18/2007	28	1771	7724	48.7	42.70	13.19	9632	609224	1195.6	23,361.9	12.4%	3.8%
43	10/13/2007	25	1796	7699	5.9	27.30	13.39	8600	617824	682.5	24,044.4	7.9%	3.9%
44	11/9/2007	27	1823	7672	4.39	5.15	13.27	9288	627112	138.9	24,183.3	1.5%	3.9%
45	11/30/2007	21	1844	7651	5.9	5.15	13.17	7224	634336	108.0	24,291.4	1.5%	3.8%
46	2/28/2008	90	1934	7561	3.4	4.65	12.78	30960	665296	418.5	24,709.9	1.4%	3.7%
47	5/31/2008	93	2027	7468	6.8	5.10	12.42	31992	697288	474.3	25,184.2	1.5%	3.6%
48	8/21/2008	82	2109	7386	2.85	4.83	12.13	28208	725496	395.7	25,579.8	1.4%	3.5%
49	11/30/2008	101	2210	7285	5.9	4.38	11.77	34744	760240	441.9	26,021.7	1.3%	3.4%
50	2/28/2009	90	2300	7195	3.4	4.65	11.50	30960	791200	418.5	26,440.2	1.4%	3.3%
51	5/31/2009	92	2392	7103	6.8	5.10	11.25	31648	822848	469.2	26,909.4	1.5%	3.3%
52	6/16/2009	16	2408	7087	32	19.40	11.30	5504	828352	310.4	27,219.8	5.6%	3.3%
53	7/13/2009	27	2435	7060	5.3	18.65	11.39	9288	837640	503.6	27,723.3	5.4%	3.3%
54	8/13/2009	31	2466	7029	31	18.15	11.47	10664	848304	562.7	28,286.0	5.3%	3.3%
55	9/17/2009	35	2501	6994	42	36.50	11.82	12040	860344	1277.5	29,563.5	10.6%	3.4%
56	10/14/2009	27	2528	6967	3.75	22.88	11.94	9288	869632	617.6	30,181.1	6.6%	3.5%
57	11/9/2009	26	2554	6941	2.92	3.34	11.85	8944	878576	86.7	30,267.8	1.0%	3.4%
58	11/30/2009	21	2575	6920	5.9	4.41	11.79	7224	885800	92.6	30,360.4	1.3%	3.4%
59	12/16/2009	16	2591	6904	0.184	3.04	11.74	5504	891304	48.7	30,409.1	0.9%	3.4%
60	2/28/2010	74	2665	6830	3.4	1.79	11.46	25456	916760	132.6	30,541.7	0.5%	3.3%
61	5/31/2010	92	2757	6738	6.8	5.10	11.25	31648	948408	469.2	31,010.9	1.5%	3.3%
62	6/30/2010	30	2787	6708	3.3	5.05	11.18	10320	958728	151.5	31,162.4	1.5%	3.3%
63	7/20/2010	20	2807	6688	37	20.15	11.25	6880	965608	403.0	31,565.4	5.9%	3.3%
64	8/18/2010	29	2836	6659	37	37.00	11.51	9976	975584	1073.0	32,638.4	10.8%	3.3%
65	10/13/2010	56	2892	6603	4.4	20.70	11.69	19264	994848	1159.2	33,797.6	6.0%	3.4%

Notes:

EBS: Exposure Budget Slope= ng/m^3-day

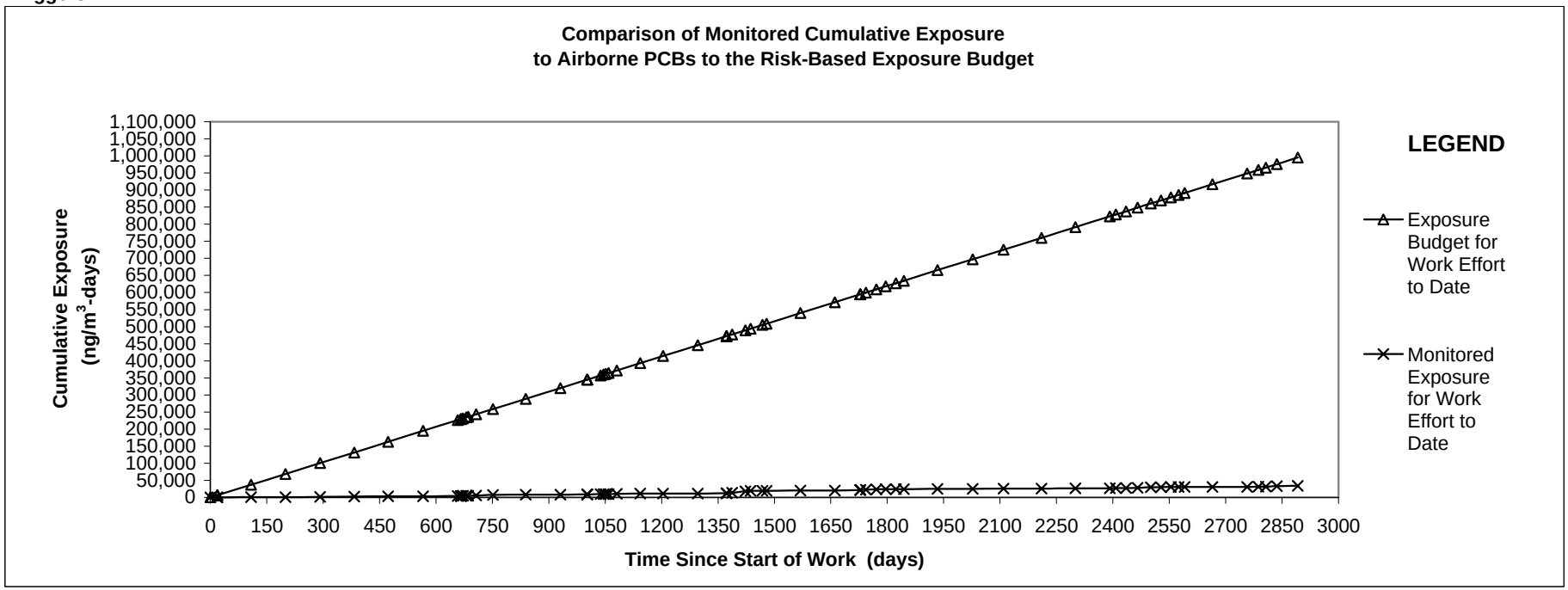
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	50 Area D Downwind
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	4.4
Exposure Budget Expended During This Period:	6.0%
Cumulative Exposure Budget Expended to Date:	3.4%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).

b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).

c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).

f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).

g) 2010 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2757 to 2892 days since start of work (June 06 through October 13, 2010).

LOCATION 55 – AEROVOX WEST

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 55 Aerovox West
Exposure Budget Slope (EBS) = 174 nanograms per cubic meter per day (ng/m3-day)

Collection Date: 10/13/2010

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the *Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site*, August 2001.

Summary of Dredging Acitivites This Sampling Period:

2010 hydraulic dredge season mobilization activities began May 17th 2010 and lasted until June 11th 2010. Hydraulic dredging activities were conducted in the Upper Harbor from June 14th 2010 through September 9th 2010. Demobilization activities began September 10th 2010 and ended September 23rd 2010.

Summary of Sampling Activities at Location 55 Aerovox West in 2010:

A pre-dredge sampling event was not conducted at location 55. Monthly ambient air samples for PCBs were collected at location 55 during the active dredge season in 2010. A post-dredge sampling event was conducted at location 55.

Summary of Previous Sampling Activities:

Previous ambient air sampling data and PETS curves can be found in the *2009 Dredge Season Data Submittal*, ACE-J23-35BG0801-M17-0001.

Monitoring Station		55 Aerovox West
Exposure Budget Slope		174
Work Start Date		11/12/2002
Projected Work End Date		11/10/2028
Occupational Limit Used as Ceiling	[ng/m^3]	500,000
TEL for Worker in Public	[ng/m^3]	50,000
NTEL for Worker in Public	[ng/m^3]	1,789
Miniumum of TEL/NTEL	[ng/m^3]	1,789
Background Concentration	[ng/m^3]	5.2
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limits		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values
Station: 55 Aerovox West

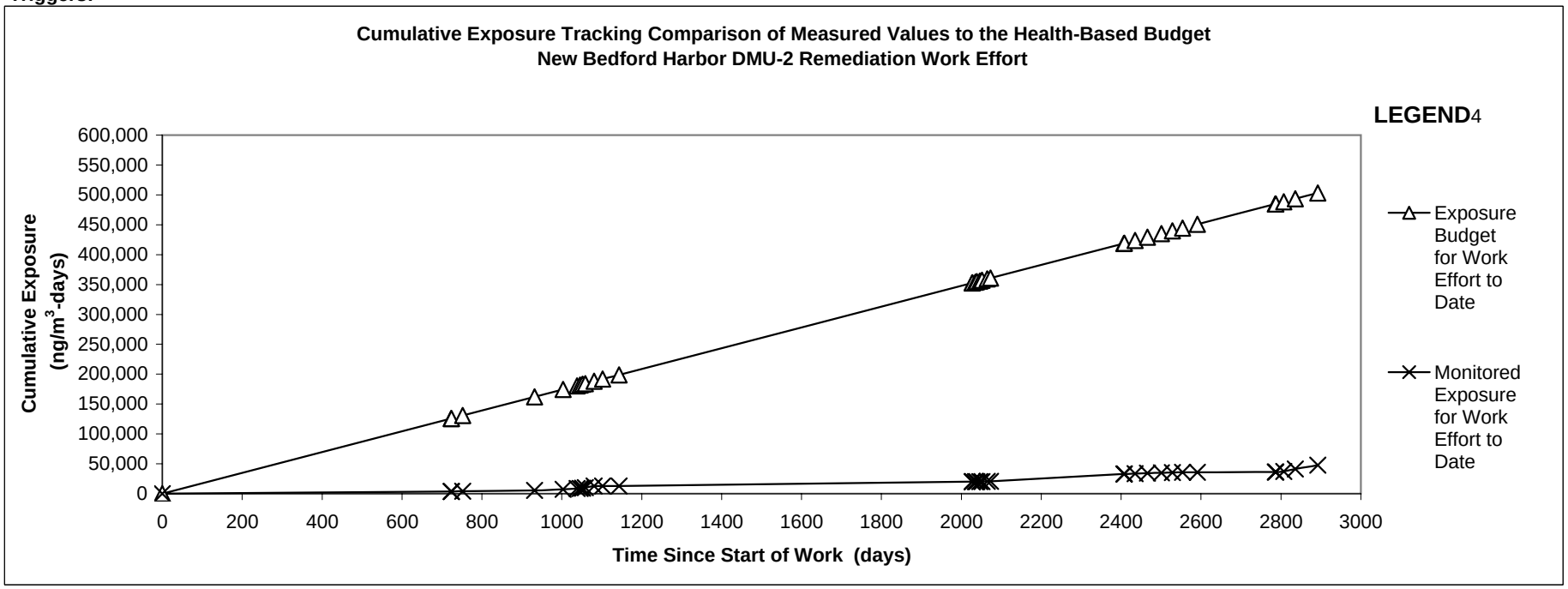
(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Runnig Sum of Column (C) to Date [days]	[days]	[ng/m^3]	[ng/m^3]	Column (L)/Column (D) [ng/m^3]	EBS * Column (C) [ng/m^3-days]	Sum of Column (I) [ng/m^3-days]	Column (G)* Column (C) [ng/m^3-days]	Sum of Column (K) [ng/m^3-days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	5.2	5	5	NC	NC	NC	NC	NC	NC
2	11/4/2004	723	723	8772	5.2	5	5	125802	125802	3760	3760	3.0%	3.0%
3	11/5/2004	1	724	8771	28.4	17	5	174	125976	17	3776	9.7%	3.0%
4	12/3/2004	28	752	8743	9.33	19	6	4872	130848	528	4305	10.8%	3.3%
5	6/1/2005	180	932	8563	5	7	6	31320	162168	1308	5612	4.2%	3.5%
6	8/11/2005	71	1003	8492	42.1	24	7	12354	174522	1679	7291	13.6%	4.2%
7	9/15/2005	35	1038	8457	37.6	40	8	6090	180612	1395	8686	22.9%	4.8%
8	9/23/2005	8	1046	8449	2.6	20	8	1392	182004	161	8847	11.6%	4.9%
9	9/29/2005	6	1052	8443	87	45	9	1044	183048	269	9116	25.7%	5.0%
9	10/6/2005	7	1059	8436	222	155	10	1218	184266	1082	10197	88.8%	5.5%
10	10/28/2005	22	1081	8414	4	113	12	3828	188094	2486	12683	64.9%	6.7%
11	11/18/2005	21	1102	8393	0.1	2.05	11.55	3654	191748	43	12726	1.2%	6.6%
12	12/29/2005	41	1143	8352	10.8	5.45	11.33	7134	198882	223	12950	3.1%	6.5%
13	5/31/2008	884	2027	7468	5.2	8.00	9.88	153816	352698	7072	20022	4.6%	5.7%
14	6/1/2008	1	2028	7467	25.9	15.55	9.88	174	352872	16	20037	8.9%	5.7%
15	6/8/2008	7	2035	7460	25.9	25.90	9.94	1218	354090	181	20219	14.9%	5.7%
16	6/12/2008	4	2039	7456	7.3	16.60	9.95	696	354786	66	20285	9.5%	5.7%
17	6/19/2008	7	2046	7449	8.9	8.10	9.94	1218	356004	57	20342	4.7%	5.7%
18	6/25/2008	6	2052	7443	5.52	7.21	9.93	1044	357048	43	20385	4.1%	5.7%
19	7/8/2008	13	2065	7430	8.7	7.11	9.92	2262	359310	92	20477	4.1%	5.7%
20	7/16/2008	8	2073	7422	68.6	38.65	10.03	1392	360702	309	20787	22.2%	5.8%
21	6/15/2009	334	2407	7088	5.2	36.90	13.76	58116	418818	12325	33111	21.2%	7.9%
22	6/16/2009	1	2408	7087	33	19.10	13.76	174	418992	19	33130	11.0%	7.9%
23	7/13/2009	27	2435	7060	7.4	20.20	13.83	4698	423690	545	33676	11.6%	7.9%
24	8/13/2009	31	2466	7029	30	18.70	13.89	5394	429084	580	34255	10.7%	8.0%
25	9/17/2009	35	2501	6994	14	22.00	14.00	6090	435174	770	35025	12.6%	8.0%
26	10/14/2009	27	2528	6967	10	12.00	13.98	4698	439872	324	35349	6.9%	8.0%
27	11/9/2009	26	2554	6941	8.31	9.16	13.93	4524	444396	238	35587	5.3%	8.0%
28	12/16/2009	37	2591	6904	0.372	4.34	13.80	6438	450834	161	35748	2.5%	7.9%
29	6/29/2010	195	2786	6709	5.2	2.79	13.03	33930	484764	543	36291	1.6%	7.5%
30	6/30/2010	1	2787	6708	3.2	4.20	13.02	174	484938	4	36296	2.4%	7.5%
31	7/20/2010	20	2807	6688	93	48.10	13.27	3480	488418	962	37258	27.6%	7.6%
32	8/18/2010	29	2836	6659	200	146.50	14.64	5046	493464	4249	41506	84.2%	8.4%
33	10/13/2010	56	2892	6603	19	109.50	16.47	9744	503208	6132	47638	62.9%	9.5%

Notes:
EBS: Exposure Budget Slope= ng/m3-day
NC = Not Calculated
Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	55 Aerovox West
Collection Date:	10/13/2010
Measured PCB Concentration (ng/m^3):	19
Exposure Budget Expended During This Period:	62.9%
Cumulative Exposure Budget Expended to Date:	9.5%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).

b) 2005 dredge season, including pre-and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).

c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

e) 2008 dredge season which did not include a pre-dredge sampling event was from 1934 to 2119 days since start of work (June 1 through November 5, 2008).

f) 2009 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2393 to 2591 days since start of work (June 5 through December 1, 2009).

g) 2010 dredge season which did not include a pre-dredge sampling event, but did include a post-dredge sampling event was from 2757 to 2892 days since start of work (June 06 through October 13, 2010).

ATTACHMENT F

Jacobs Solids and Water Balance, and PCB Mass Removal Calculations

CBI

CBI

CBI

CBI

CBI

CBI

CBI

ATTACHMENT G

Sevenson Operational Monitoring Data

CBI

CBI

CBI

CBI

ATTACHMENT H

2010 Lessons Learned

CBI

CBI

CBI

ATTACHMENT I

2010 Dredge Production Summary

Table I-1
2010 Dredge Season Production Summary
New Bedford Harbor Superfund Site - 2010 Season

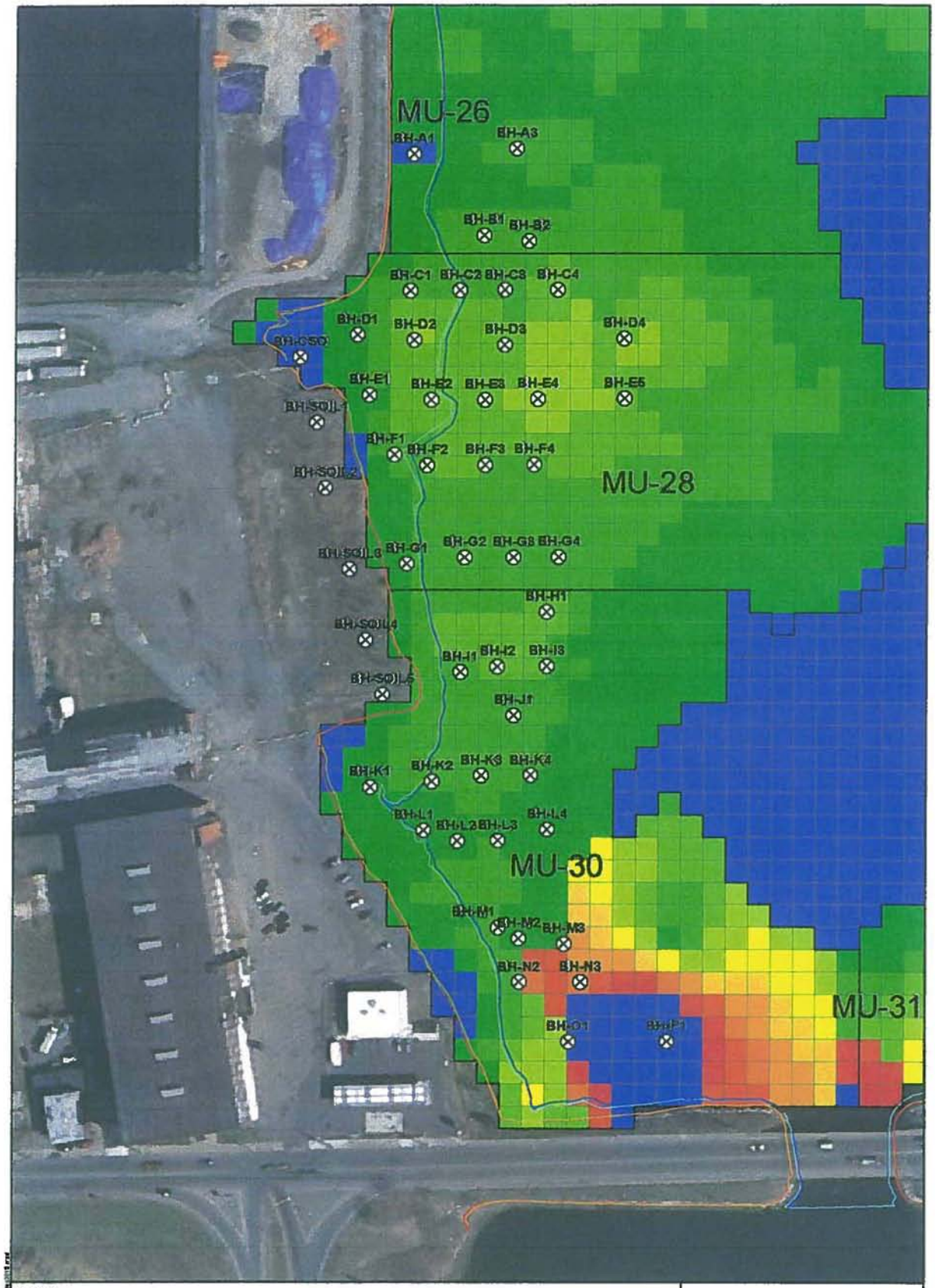
Project Metric	Quantity	Remarks
Cubic Yards of Sediment Dredged	26,411	Volume determined by bathymetric survey.
Tons of Filter Cake Produced	22,429.5	Tonnage calculated by press volume, number of press drops and cake density.
Tons of TSCA material disposed	24,304.12	Tonnage calculated by sum of rail car weights.
Number of Filter Press Drops	2,176	
Tons of Material Generated at Desanding Facility	3,803.3	Tonnage as removed from desanding facility.
Tons of Material Generated at Desanding Facility as Disposed	3,404.75	Tonnage as disposed is lower due to gravity draining of solids in DDA.
Number of Railcars Loaded	246	
Number of Dredge Days in 2010	59.5	
Gallons of Treated Effluent Discharged	44,303,000	
Tons of PCBs removed as Total Aroclors	2.0	Calculated using laboratory data and material weights.

Table I-2
2004-2010 Dredge Season Production Summary
New Bedford Harbor Superfund Site - 2010 Season

Dredge Season	Cubic Yards Dredged[1]	Number of Filter Press Drops	Tons of Filter Cake Produced[2]	Tons of Sand and Over Size Generated at Desanding Facility[3]	TSCA Waste Disposal		Number of Dredge Days	Gallons of Treated Effluent Discharged	Tons of PCB Aroclors Removed[5]	Dredge Method
					Number of Railcars Shipped	Truck to Rail (number of trucks)				
2004	12,000	716	7,231	1955	0	192	48	16,403,400	3.5	Hydraulic
2005	24,728	1,600	16,090	2508	103	159	49	22,237,200	9.4	Hydraulic
2006	20,096	1,377	14,252	3313	136	30	43	25,343,500	10.0	Hydraulic
2007	23,307	1,558	15,384	3592	150	14	45	23,891,000	1.6	Hydraulic
2008	8,532	n/a	n/a	n/a	n/a	n/a	35	n/a	11.1	Mechanical
2008	19,898	1,486	13,929	2795	140	0	45	25,328,000	0.4	Hydraulic
2009	49,809	3,787	37,423	9544	415	6	120	60,437,000	4.9	Hydraulic
2010 [4]	26,411	2,176	22,430	3803	246	0	59.5	44,303,000	2.0	Hydraulic/ Mechanical
Total[6]	184,781	12,700	126,738	27,510	1,190	401	445	217,943,100	42.8	

Notes:
[1] Cubic yards dredged determined by bathymetric survey.
[2] Tons of filter cake calculated by filter press volume, number of drops, and filter cake density.
[3] Tons of sand and oversize material is determined as the sum of weigh tickets as material is removed from the building.
[4] Mechanical dredging activities in 2010 are not separated out, because the material was fed into the hydraulic dredging treatment system at the Sawyer Street facility.
[5] Tons of PCB Aroclor removed calculated using laboratory data and production quantities.
[6] Production quantities reflect material dredged mechanically or hydraulically by the Jacobs Sevenson team from 2004 to 2010.

CORES



Legend

⊗ 2010 Boat House Core Locations

MLLW
MLW
MHW
MHHW

0 50 100 Feet 1:1,200

N

Aerial Photography MASSGIS 2003

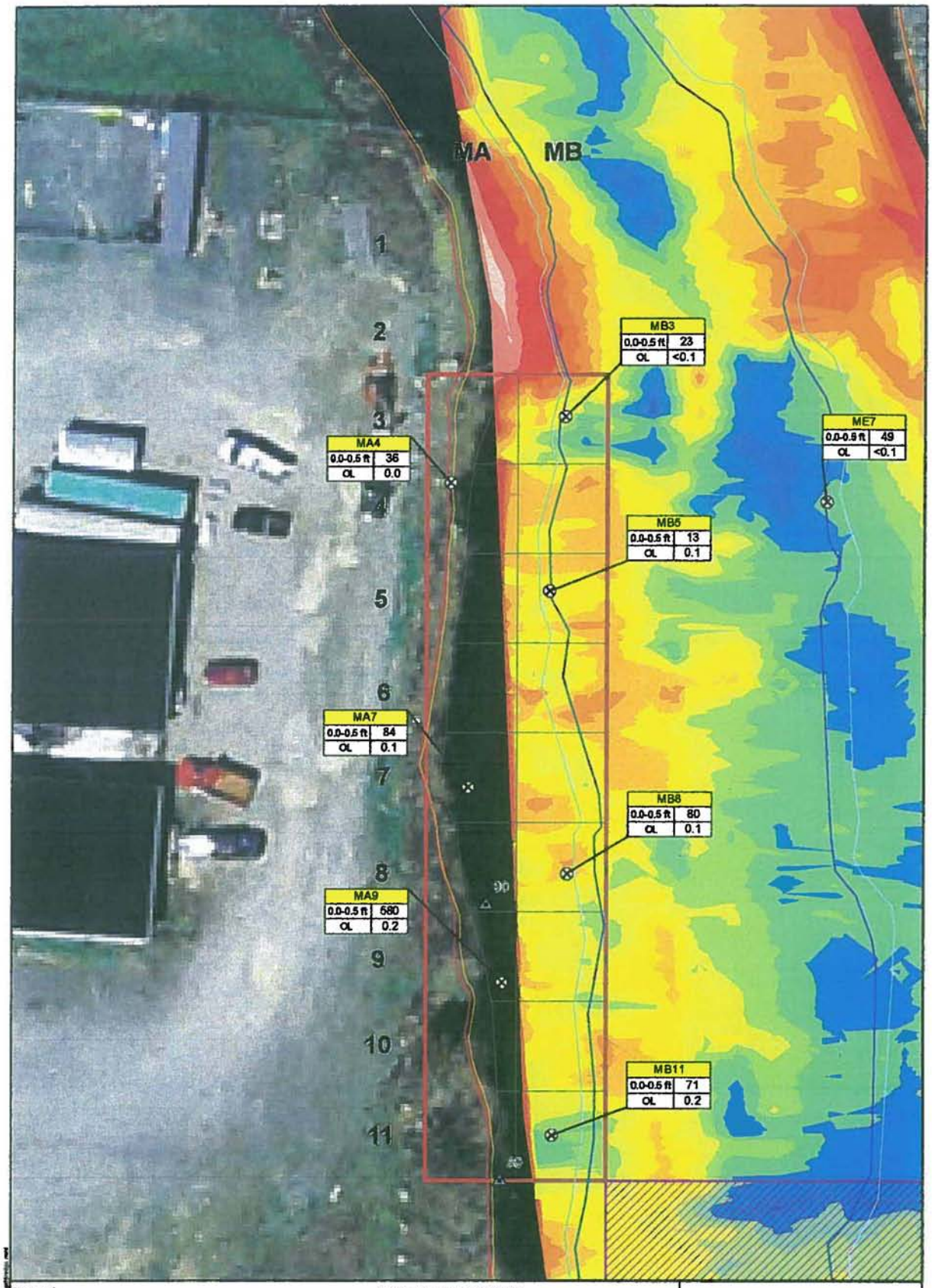
JACOBS

Boat House Core Locations

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 12/17/2010

Figure 1



Legend

- Post Dredge Core Locations
- 2010 Sheet Pile Locations
- Dredge Area M

Sample Data Key:

Location	
Sample Interval	PCB concentration
	OL Remaining

Bathymetry Survey 09/19/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-9 - -8.5
-9.2 - -9
-9.2

0 12.5 25
Feet 1:300

Displayed PCB concentrations are the sum of 18 congeners x the 2.6 NBH factor
All PCB concentrations are in mg/kg (ppm)
All linear measurements in feet.
feet = ft
milligrams per kilogram = mg/kg
parts per million = ppm

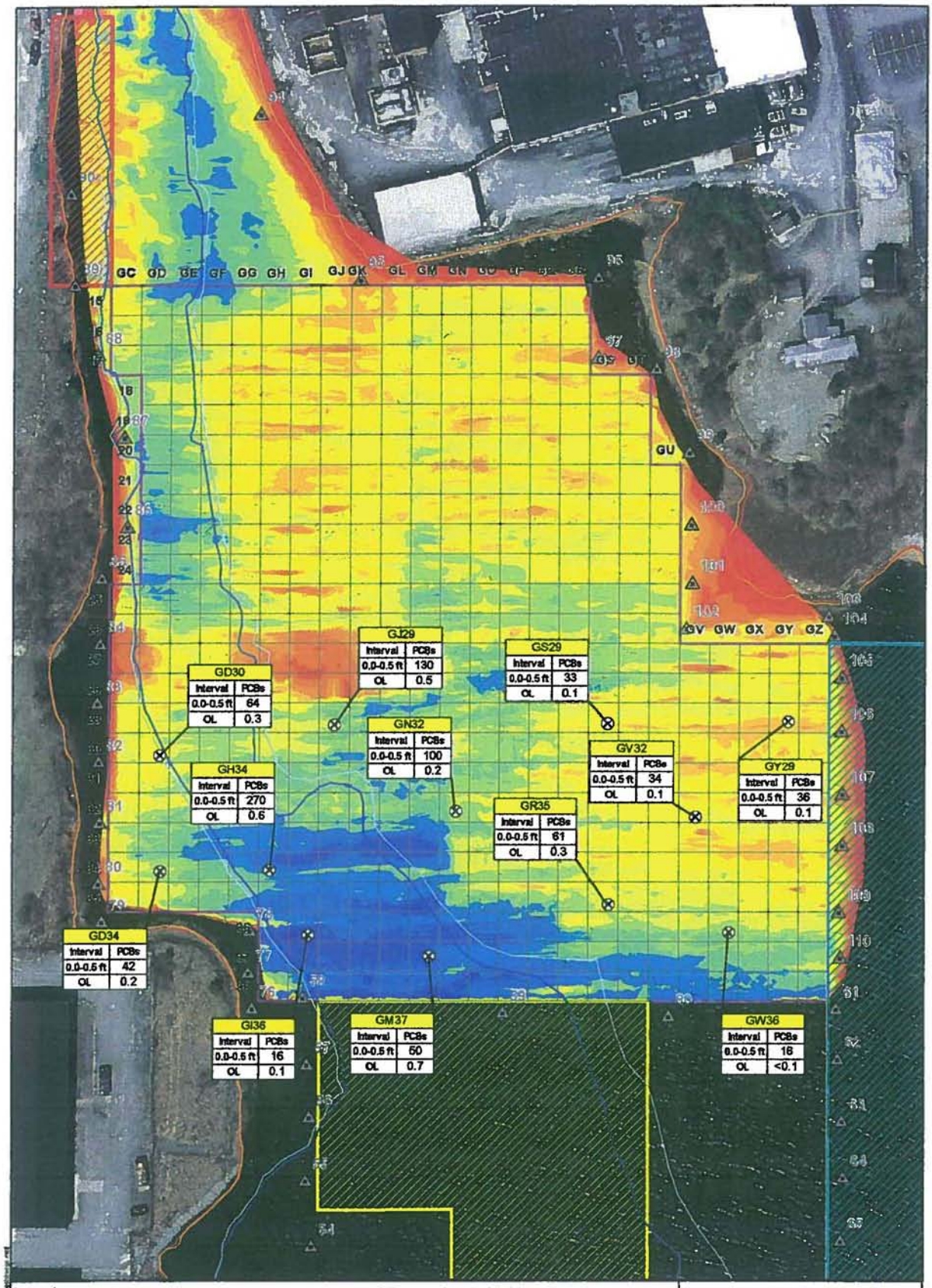
JACOBS

Dredge Area M
Post Dredge Cores

New Bedford Harbor Superfund Site

NAME: cristanta DATE: 01/25/2011

Figure 8-11



Legend

- Post Dredge Core Locations
- 2010 Sheet Pile Locations
- Dredge Area G

Sample Data Key:

Location	
Sample Interval	PCB concentration
	OL Remaining

Bathymetry Survey 08/19/10
NGVD, Feet

0-0.5 | -0.5-0 | -1-0.5 | -1.5-1 | -2-1.5 | -2.5-2 | -3-2.5 | -3.5-3 | -4-3.5 | -4.5-4 | -5-4.5 | -5.5-5 | -6-5.5 | -6.5-6 | -7-6.5 | -7.5-7 | -8-7.5 | -8.5-8 | -8.2-8 | -8.2

0 37.5 75 Feet 1:900

Displayed PCB concentrations are the sum of 16 congeners x the 2.6 NBH factor
All PCB concentrations are in mg/kg (ppm)
All linear measurements in feet.
feet = ft
milligrams per kilogram = mg/kg
parts per million = ppm

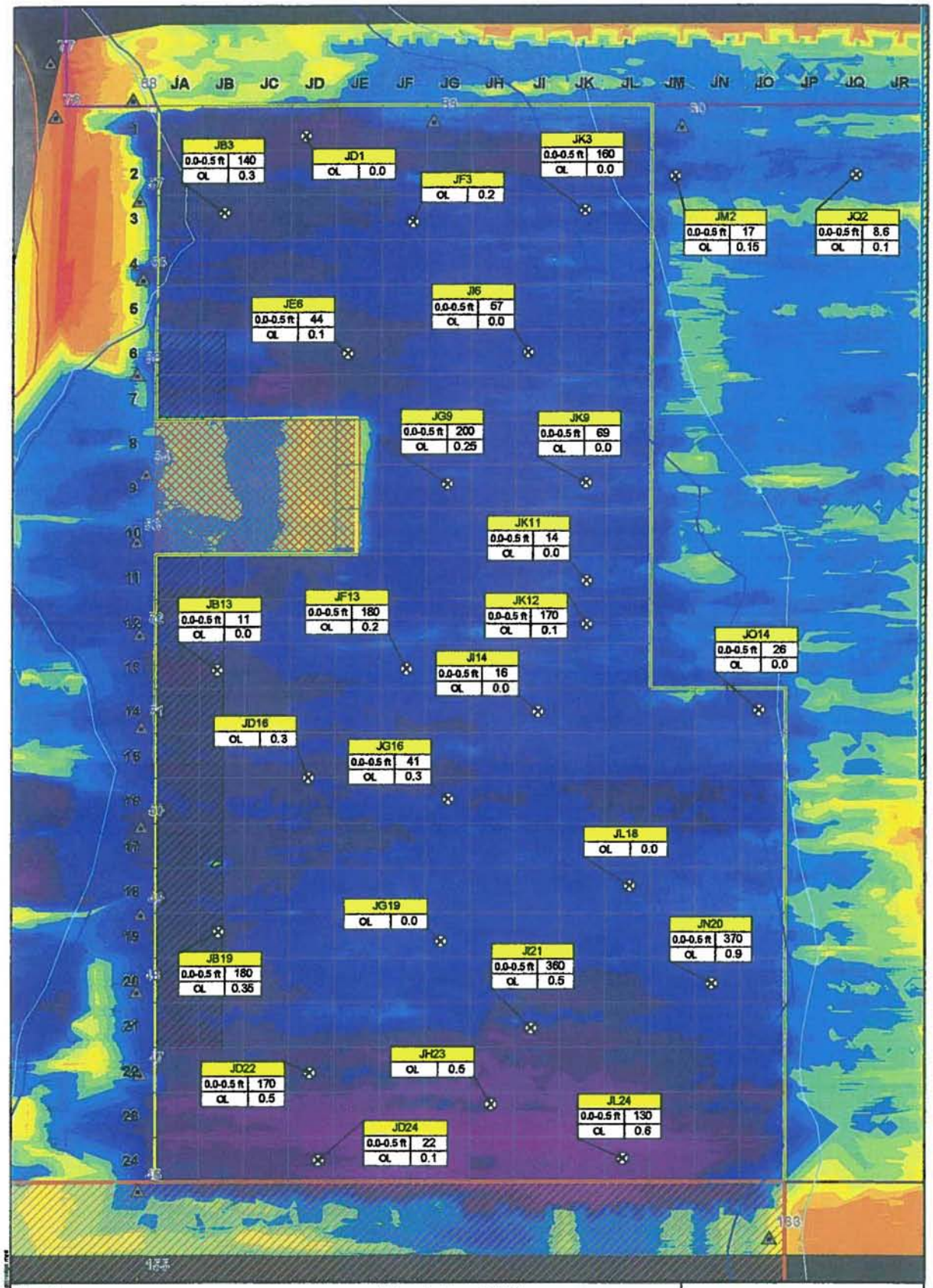
JACOBS

Dredge Area G
Post Dredge Cores

New Bedford Harbor Superfund Site

NAME: cmbarta DATE: 01/21/2011

Figure B-12



Legend

Post Dredge Core Locations

2010 Sheet Pile Locations

Dredge Area J

Sample Data Key:

Location	
Sample Interval	PCB concentration
	OL Remaining

Bathymetry Survey 09/19/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-8 - -8.5
-8.2 - -8
-8.2

0 25 50
Feet 1:600

Displayed PCB concentrations are the sum of 16 congeners x the 2.8 NBH factor
All PCB concentrations are in mg/kg (ppm)
All linear measurements in feet.
feet = ft
milligrams per kilogram = mg/kg
parts per million = ppm
Analytical performed on select cores only.

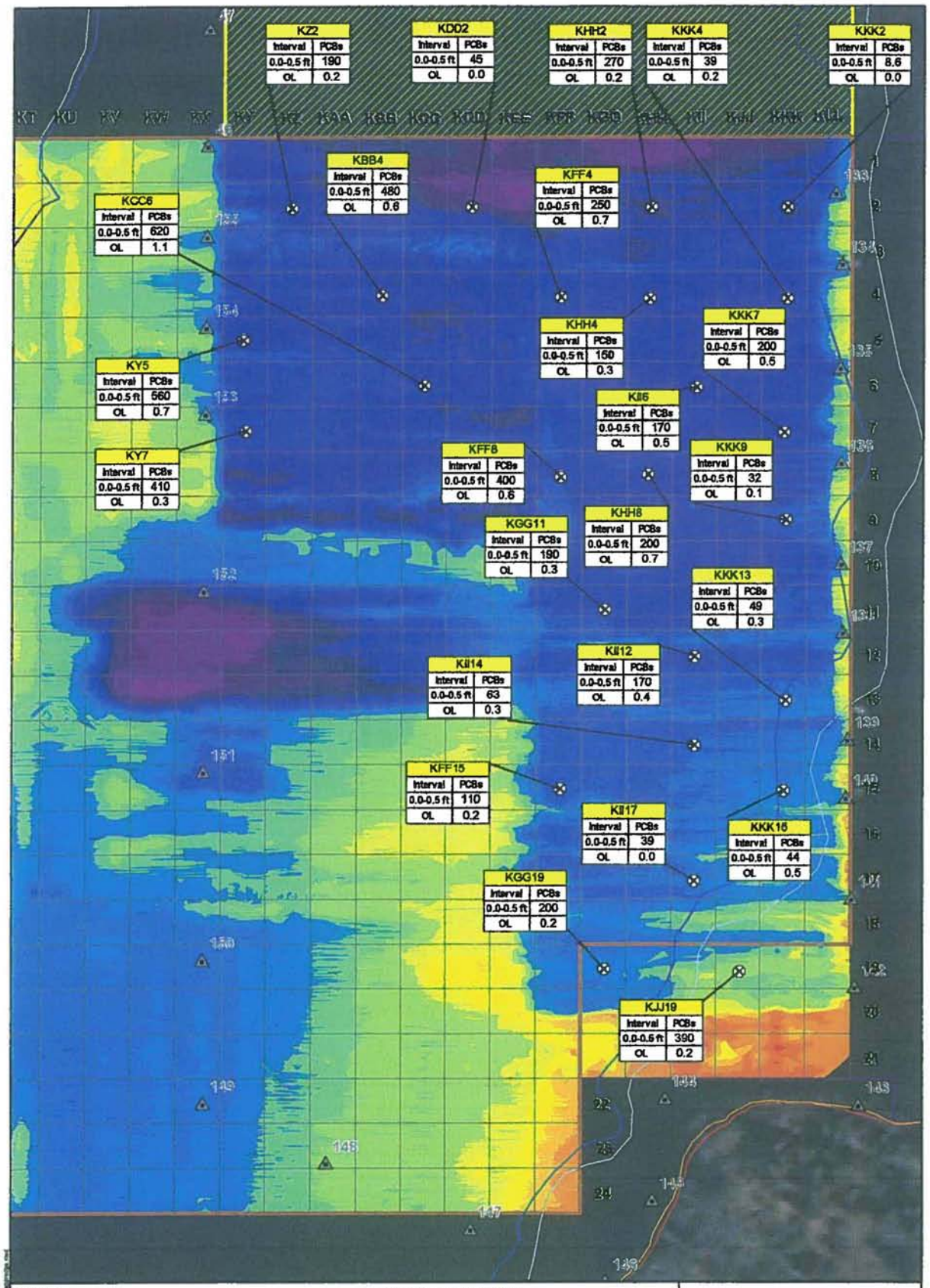
JACOBS

Dredge Area J
Post Dredge Cores

New Bedford Harbor Superfund Site

NAME: cruzada DATE: 01/21/2011

Figure B-13

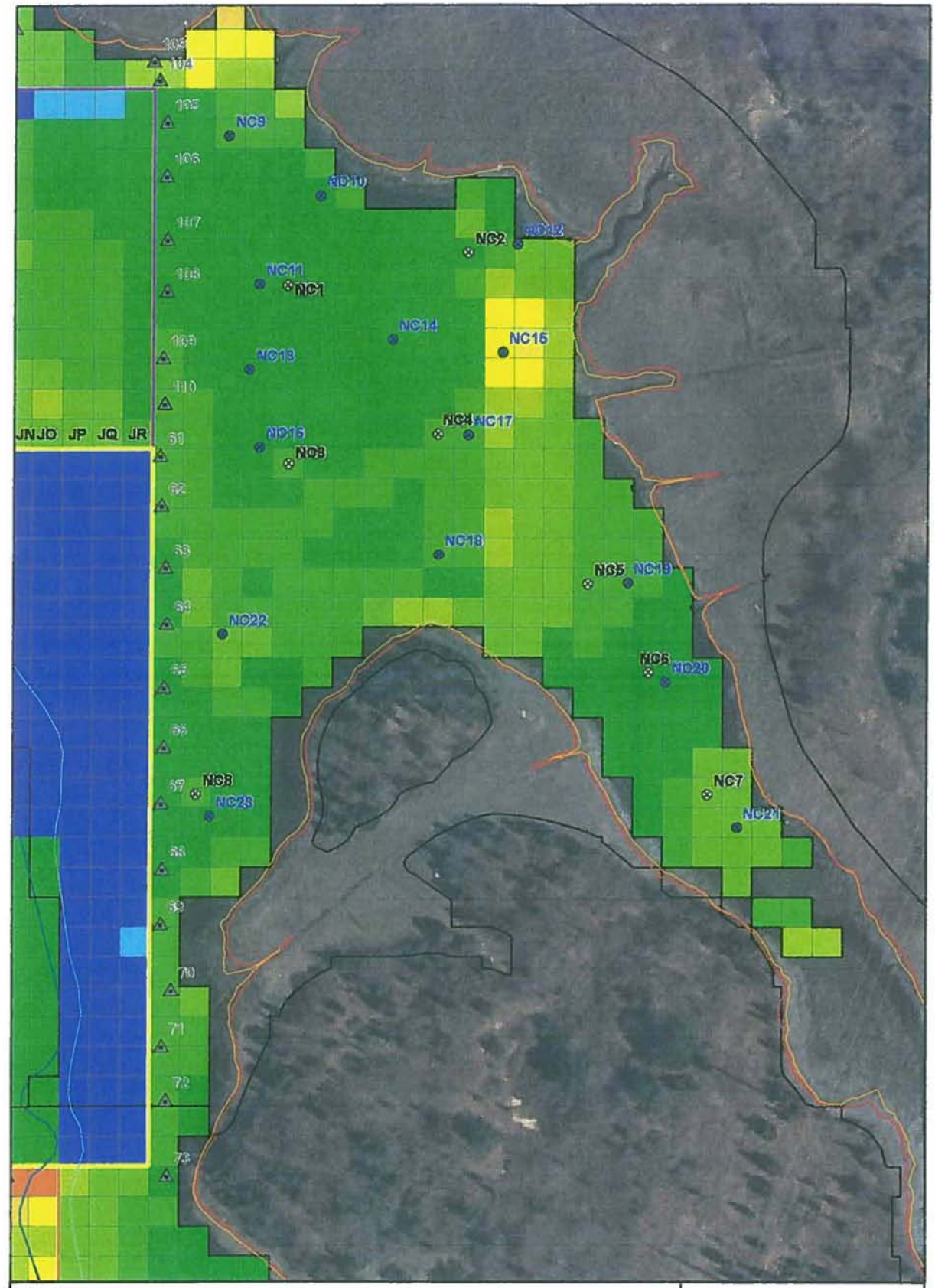


JACOBS

Dredge Area K
Post Dredge Cores

New Bedford Harbor Superfund Site

Figure B-14



Legend

- Woods Hole Group Cores
- Jacobs Cores

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

- Dredge Area J
- 2009 Sheet Pile Locations

0 37.5 75 Feet 1:900

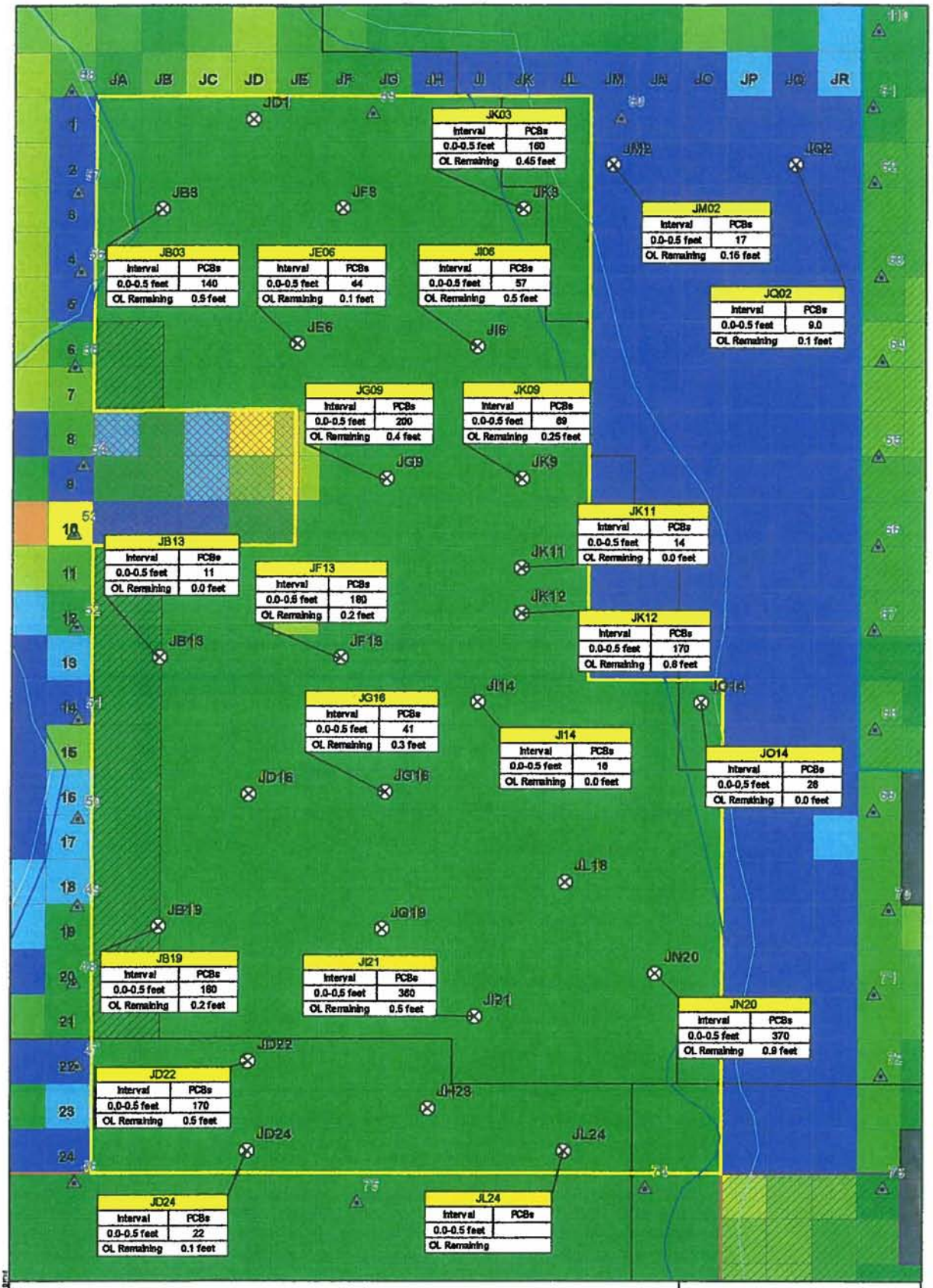
Aerial Photography MASSGIS 2003

JACOBS

Dredge Area N Core Locations

New Bedford Harbor Superfund Site

Figure 5



Legend

⊗ 2010 Dredge Area J Cores: Preliminary Unvalidated Data

Notes:
All PCB concentrations are the sum of 18 congeners * 2.6 to give total PCBs.
All concentrations are in mg/kg.
All measurements are in feet.

No Dredge Zone

Dredge with Extra Caution Zone

Dredge Area J

2009 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

MLLW
MLW
MHW
MHHW

N

0 25 50 Feet 1:600

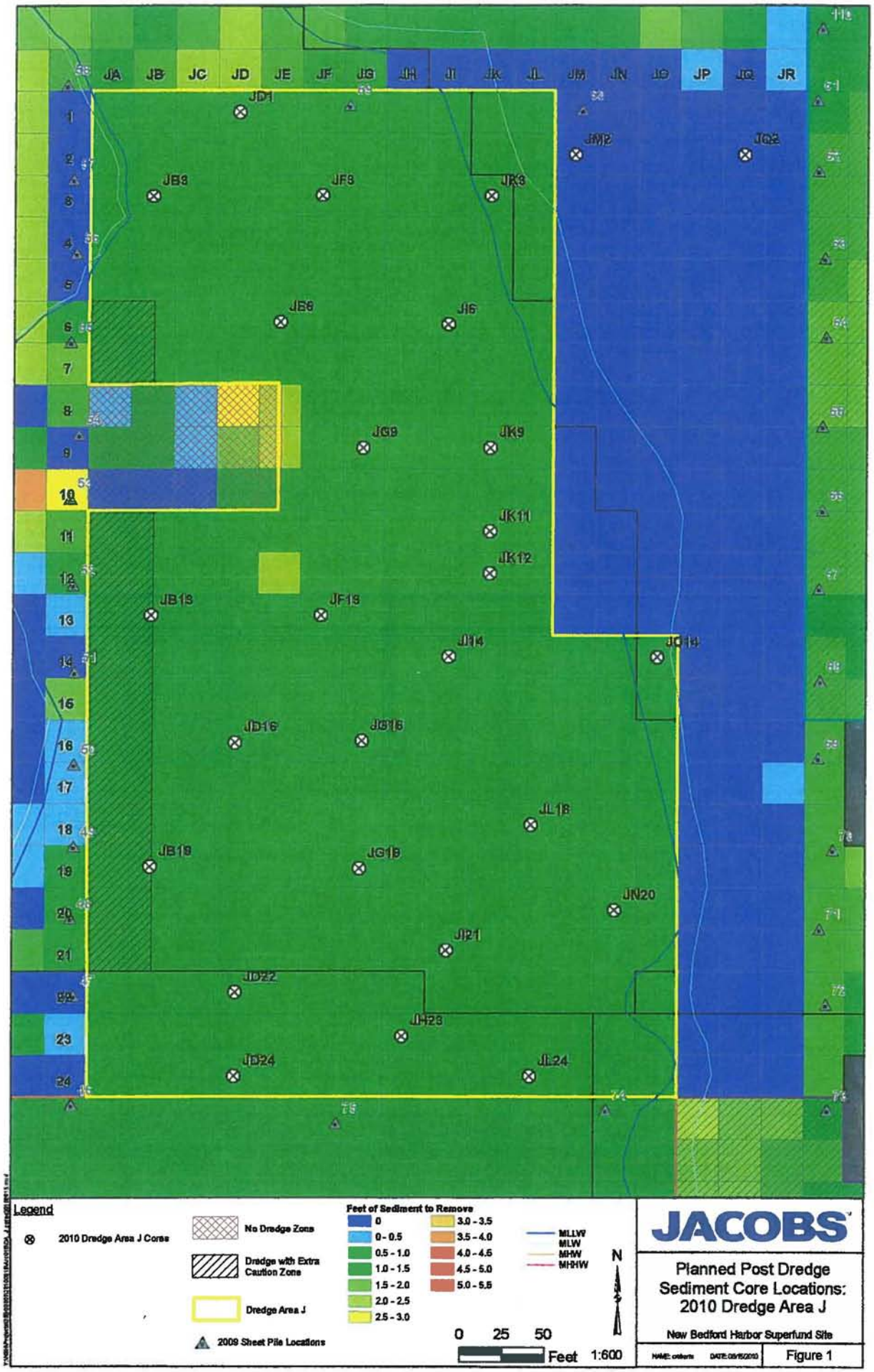
JACOBS

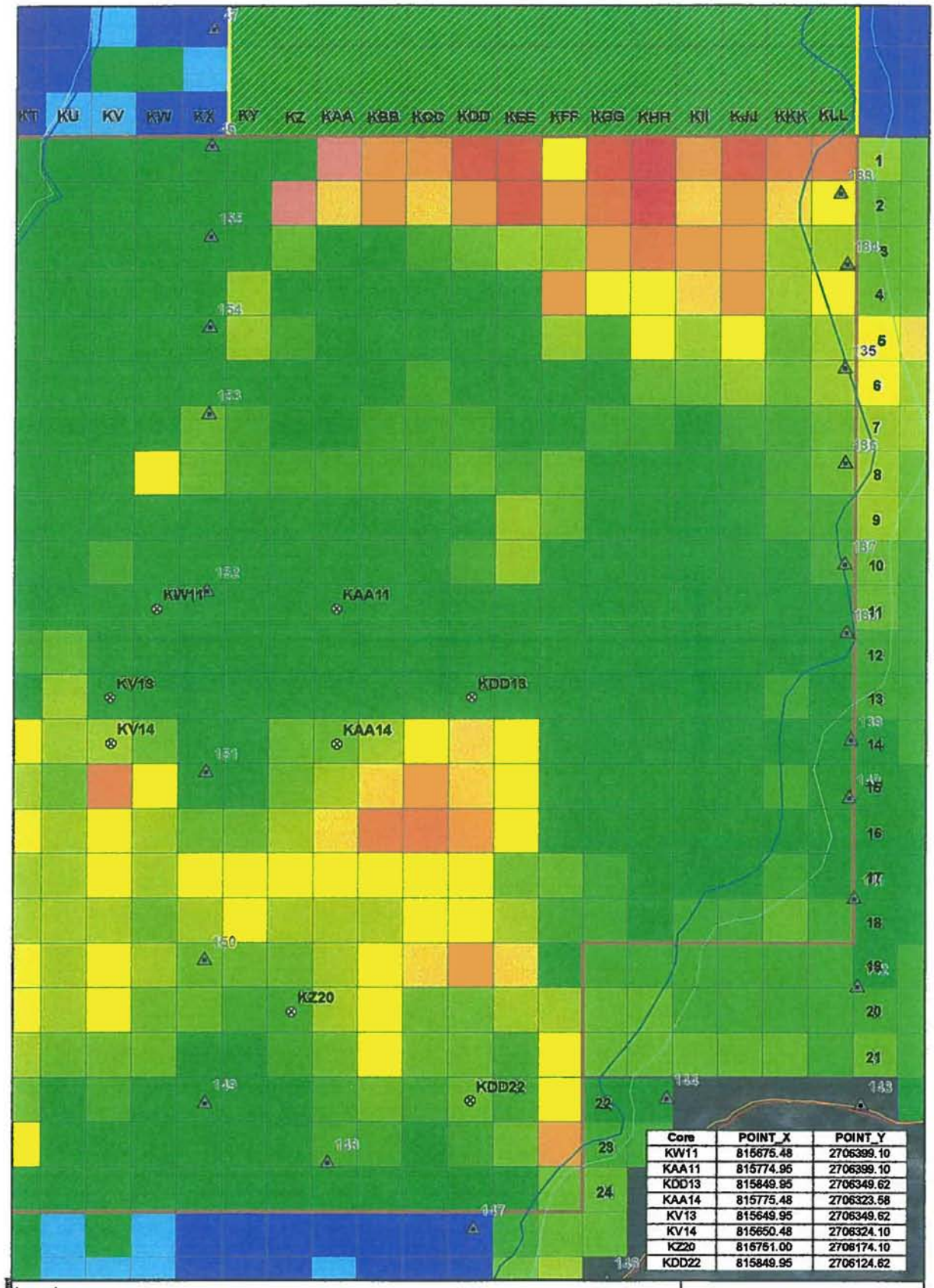
2010 Post Dredge Sediment Core Summary

New Bedford Harbor Superfund Site

NAME: mbertin DATE: 10/28/2010

Figure 1


JA
JB
JC
JD
JE
JF
JG
JH
JI
JK
JL
JM
JN
JO
JP
JQ
JR
JD1
JM2
JQ2
JB3
JF3
JK3
JB6
JI6
JG9
JK9
JK11
JK12
JB13
JF13
JI14
JO14
JD16
JG16
JL18
JB19
JG19
JN20
JI21
JD22
JH23
JB24
JL24
Legend
2010 Dredge Area J Cores
No Dredge Zone
Dredge with Extra Caution Zone
Dredge Area J
2009 Sheet Pile Locations
Feet of Sediment to Remove
0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
MLLW
MLW
MHW
MHHW
N
0 25 50
Feet
1:600
JACOBS
Planned Post Dredge Sediment Core Locations: 2010 Dredge Area J
New Bedford Harbor Superfund Site
Figure 1



Core	POINT_X	POINT_Y
KW11	815675.48	2706399.10
KAA11	815774.95	2706399.10
KDD13	815849.95	2706349.62
KAA14	815775.48	2706323.58
KV13	815649.95	2706349.62
KV14	815650.48	2706324.10
KZ20	815751.00	2706174.10
KDD22	815849.95	2706124.62

Legend

- Core Locations
- 2010 Sheet Pile Locations
- Dredge Area K

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

N

0 25 50 Feet 1:600

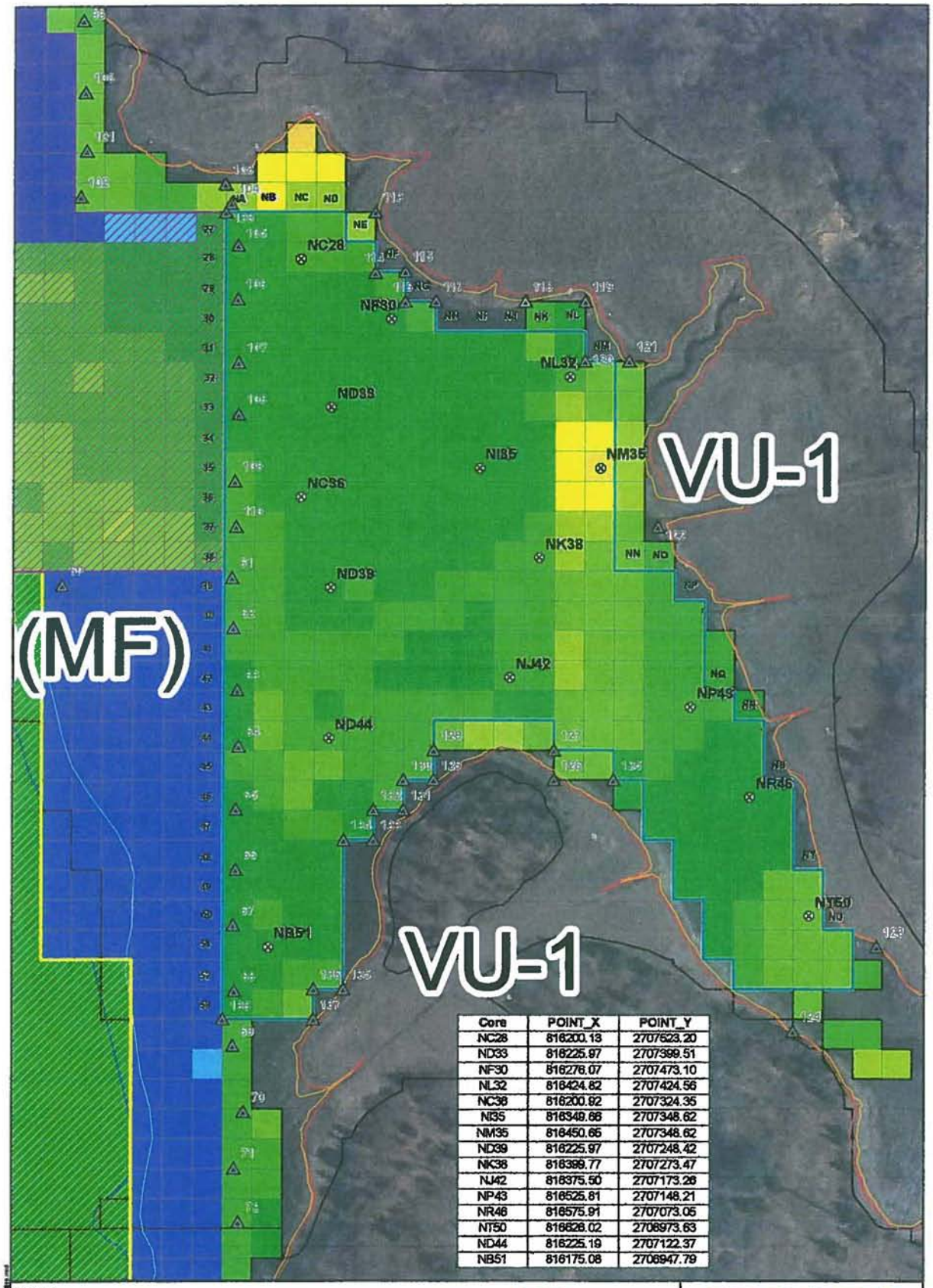
JACOBS

Dredge Area K Cores

New Bedford Harbor Superfund Site

NAME: jmbarta DATE: 10/29/2010

Figure 1



Core	POINT_X	POINT_Y
NC28	816200.13	2707523.20
ND33	816225.97	2707399.51
NF30	816276.07	2707473.10
NL32	816424.82	2707424.56
NC36	816200.92	2707324.35
NI35	816349.66	2707348.62
NM35	816450.65	2707348.62
ND39	816225.97	2707248.42
NK38	816399.77	2707273.47
NJ42	816375.50	2707173.26
NP43	816525.81	2707148.21
NR46	816575.91	2707073.05
NT50	816626.02	2706973.63
ND44	816225.19	2707122.37
NB51	816175.08	2706947.79

Legend

Sheet Pile Locations

Core Locations

ZBlocks

0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
5.5 - 6.0
6.0 - 6.2

MLLW
MLW
MHW
MHHW

2010 Dredge Area N
2010 Dredge Area G
2010 Dredge Area J

0 37.5 75 Feet 1:900

N

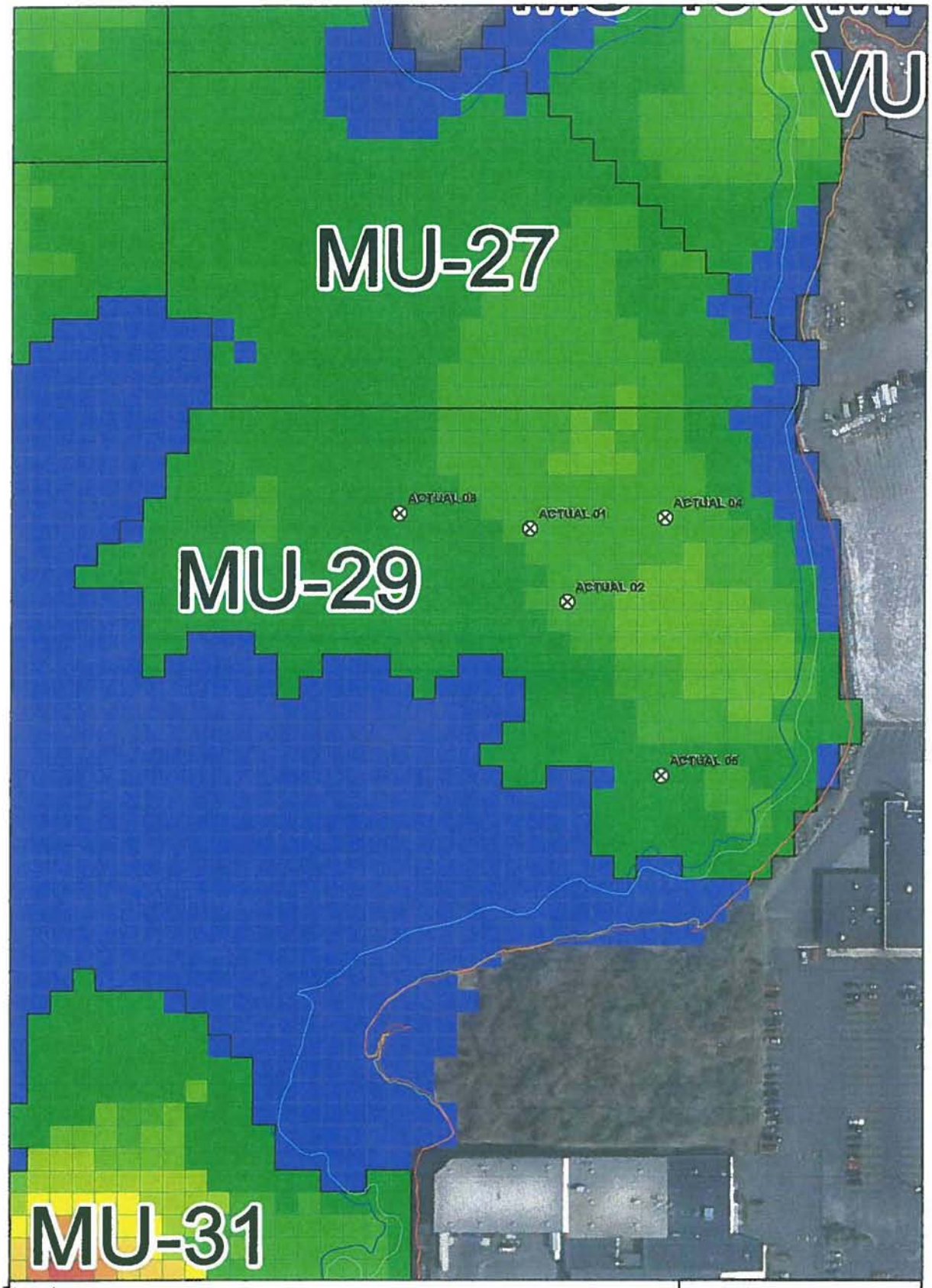
JACOBS

2010 Dredge Area N Cores

New Bedford Harbor Superfund Site

NAME: crobyes DATE: 10/28/2010

Figure 1



Legend

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

Aerial Photography MASSGIS 2003

0 50 100 Feet 1:1,200

N

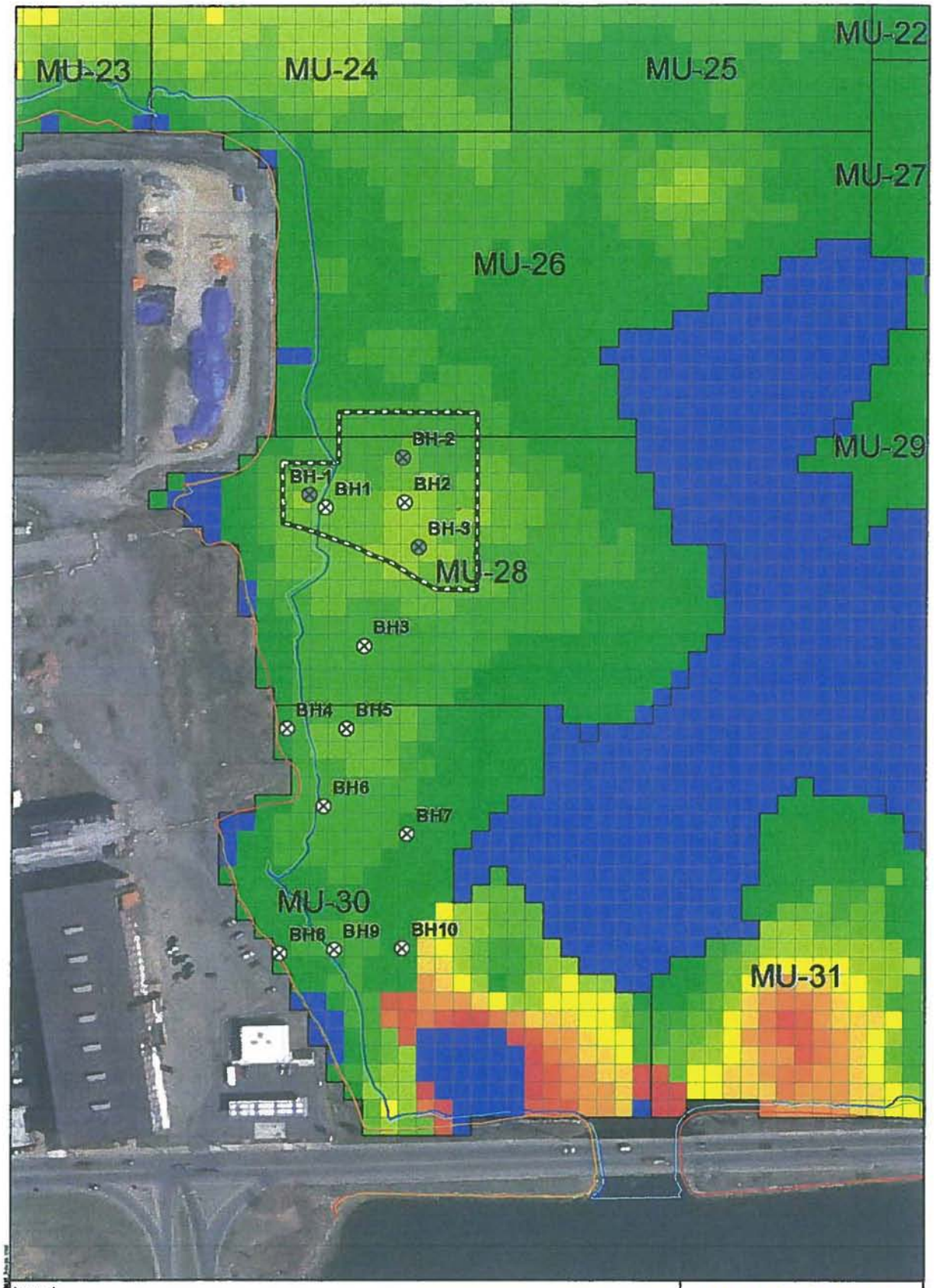
JACOBS

MU-29 Locations

New Bedford Harbor Superfund Site

NAME: croberts DATE: 09/22/2010

Figure 1



Legend

- Proposed Boat House Core Locations
- Actual Boat House Core Locations
- Proposed Dredge Area
- MLLW
- MLW
- MHW
- MHHW

0 62.5 125 Feet 1:1,500

N

Aerial Photography MASSGIS 2003

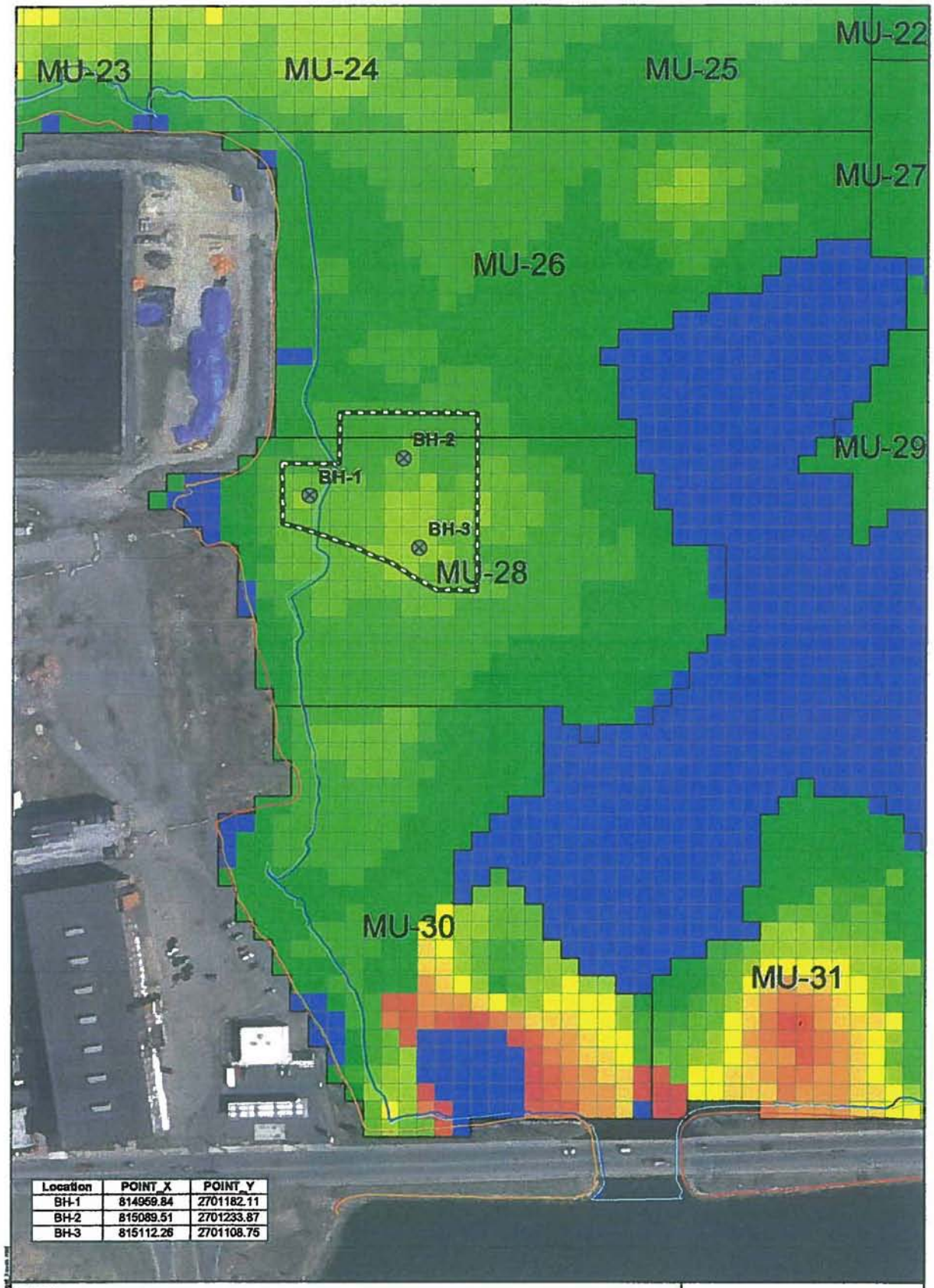
JACOBS

Boat House Core Locations and Proposed Dredge Area

New Bedford Harbor Superfund Site

NAME: crobeck DATE: 09/30/2010

Figure 1



Location	POINT_X	POINT_Y
BH-1	814959.84	2701182.11
BH-2	815089.51	2701233.87
BH-3	815112.26	2701108.75

Legend

Boat House Core Locations

Proposed Dredge Area

MLLW
MLW
MHW
MHHW

0 62.5 125 Feet 1:1,500

N

Aerial Photography MASSGIS 2003

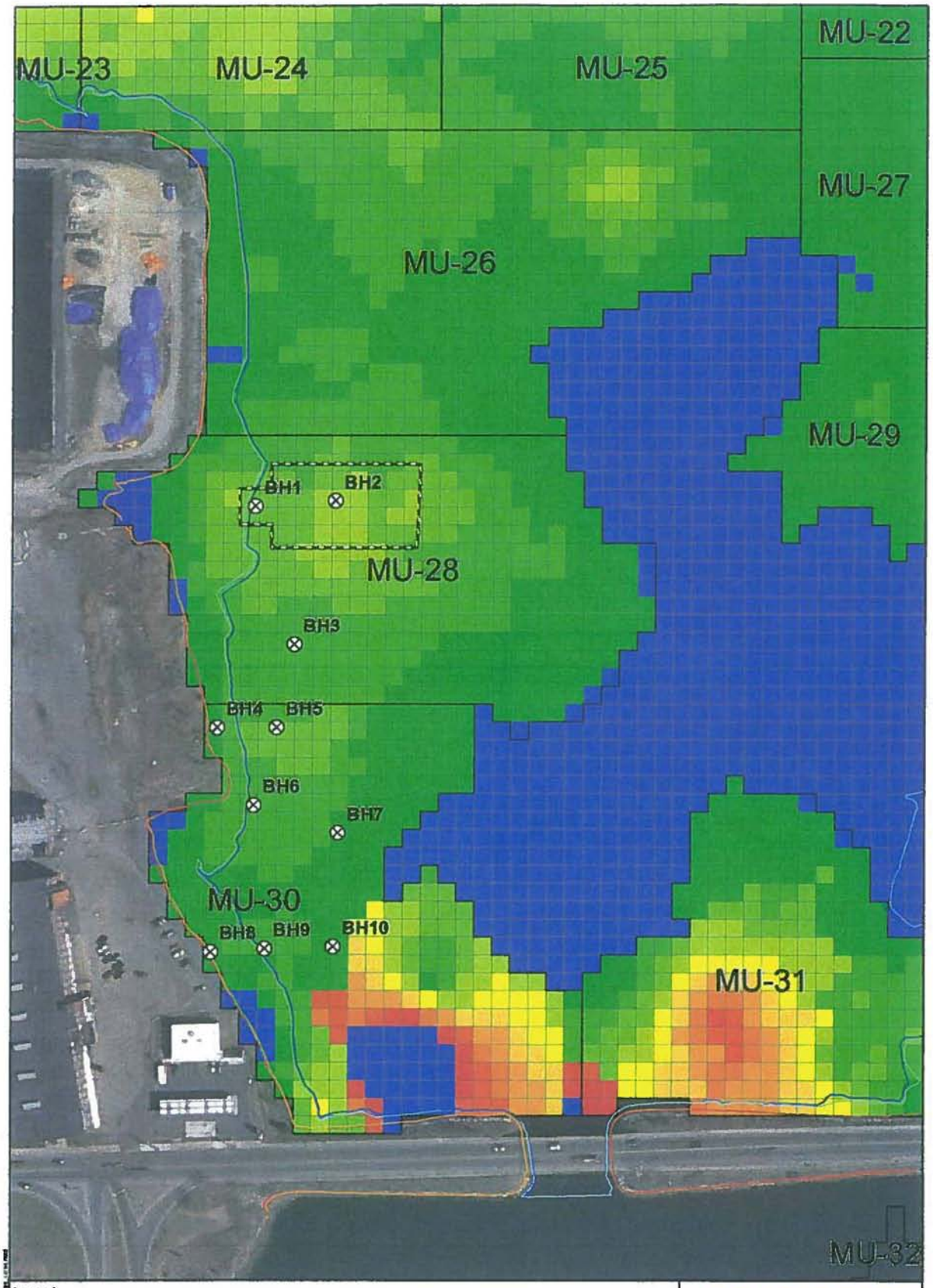
JACOBS

Boat House Core Locations and Proposed Dredge Area

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/30/2010

Figure 1



Legend

Actual Boat House Core Locations

Dredge Area

MLLW
MLW
MHW
MHHW

0 62.5 125 Feet 1:1,500

N

Aerial Photography MASSGIS 2003

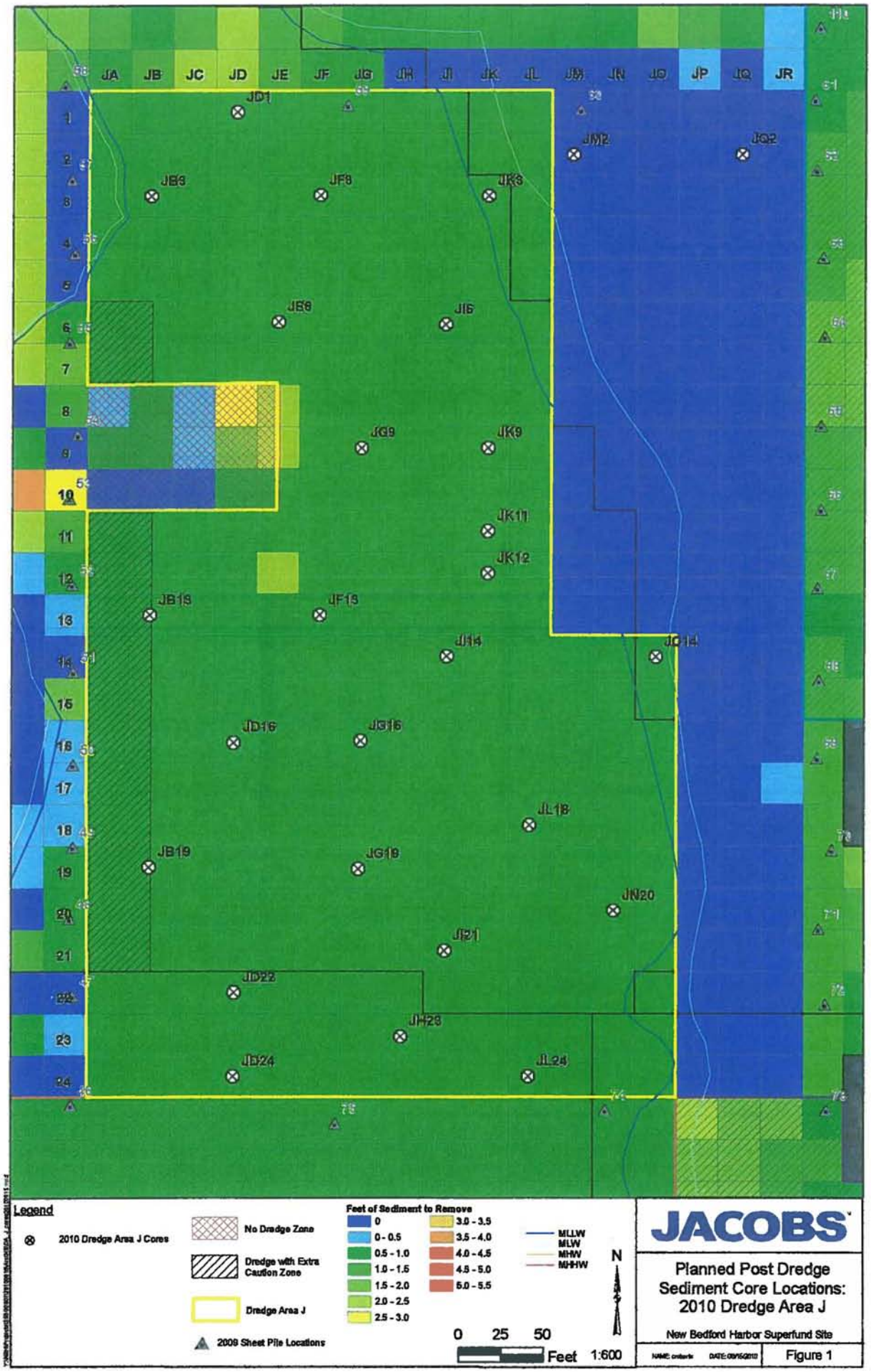
JACOBS

Boat House Core Locations and Dredge Area

New Bedford Harbor Superfund Site

NAME: crobents DATE: 10/08/2010

Figure 1



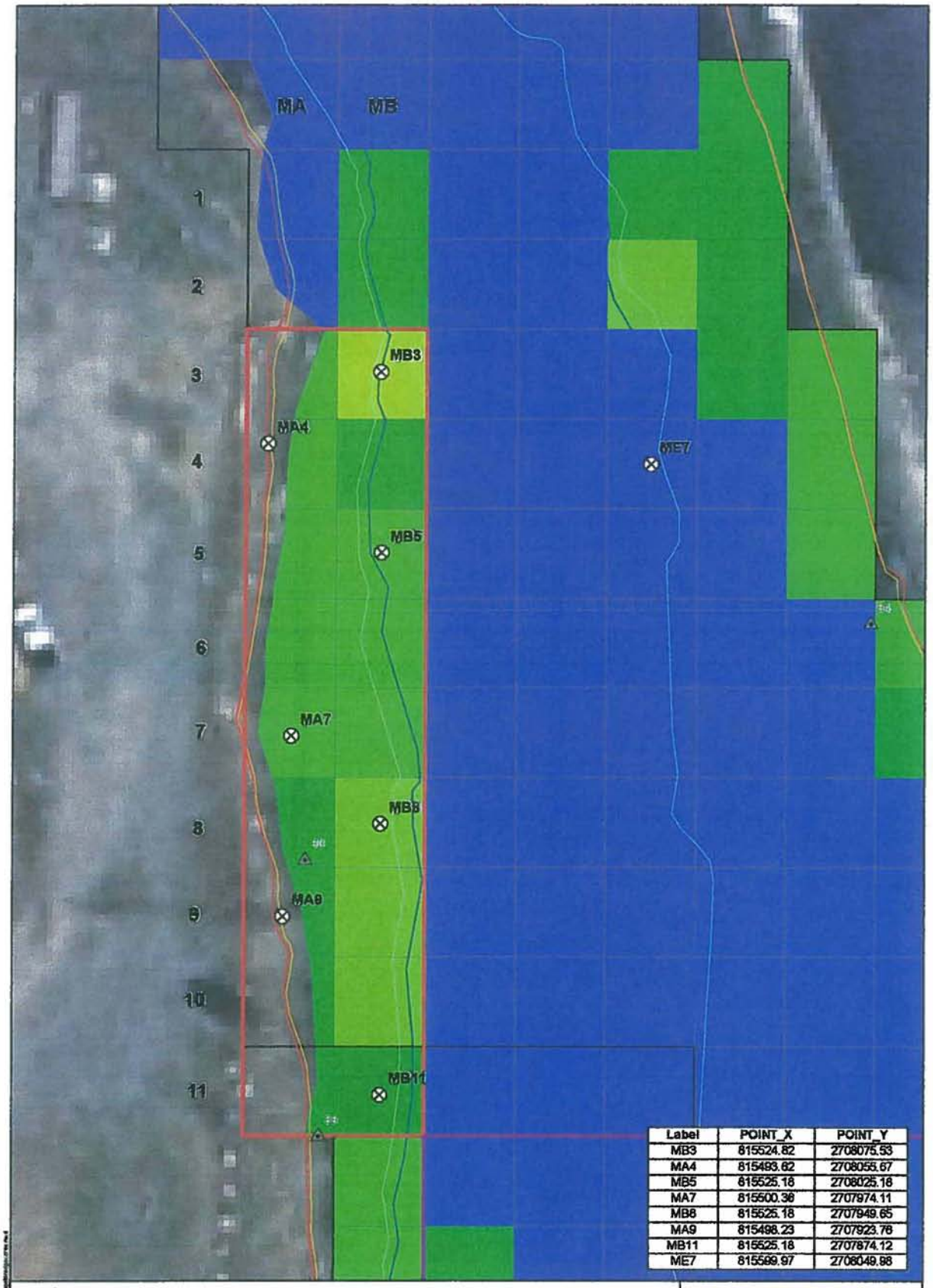
JACOBS

Planned Post Dredge Sediment Core Locations: 2010 Dredge Area J

New Bedford Harbor Superfund Site

NAME: cnilberte DATE: 09/15/2010

Figure 1



Label	POINT_X	POINT_Y
MB3	815524.82	2708075.53
MA4	815493.62	2708055.67
MB5	815525.18	2708025.18
MA7	815500.36	2707974.11
MB8	815525.18	2707949.65
MA9	815498.23	2707923.76
MB11	815525.18	2707874.12
ME7	815599.97	2708049.98

Legend

- 2010 Dredge Area M Volume = 459 cy
- Barge Location 07/27/10
- Post Dredge Cores

ZBlocks

0.0, 0.0 - 0.5, 0.5 - 1.0, 1.0 - 1.5, 1.5 - 2.0, 2.0 - 2.5, 2.5 - 3.0, 3.0 - 3.5, 3.5 - 4.0, 4.0 - 4.5, 4.5 - 5.0, 5.0 - 5.5, 5.5 - 6.0, 6.0 - 6.2

- MLLW
- MLW
- MHW
- MHHW

0 12.5 25 Feet 1:300

N

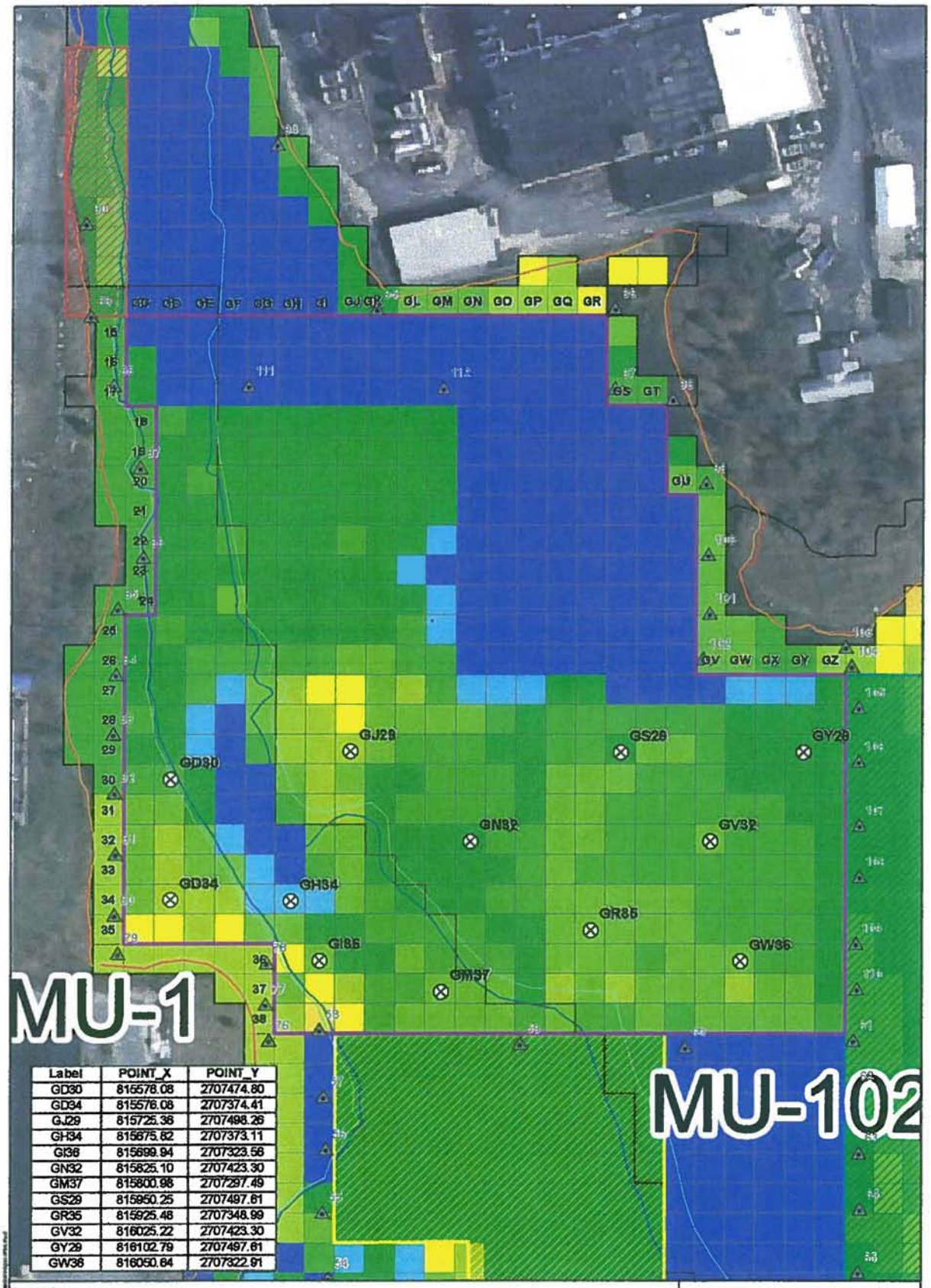
JACOBS

Area M Dredge Plan with SES Rod Readings and Post Dredge Core Locations

New Bedford Harbor Superfund Site

NAME: croberts DATE: 10/04/2010

Figure 1



Label	POINT_X	POINT_Y
GD30	815576.08	2707474.80
GD34	815576.08	2707374.41
GJ29	815725.36	2707498.26
GH34	815675.82	2707373.11
GI36	815699.94	2707323.58
GN32	815825.10	2707423.30
GM37	815800.98	2707297.49
GS29	815950.25	2707497.61
GR35	815925.48	2707348.99
GV32	816025.22	2707423.30
GY29	816102.79	2707497.61
GW36	816050.64	2707322.91

Legend

- Post Dredge Cores
- Sheet Pile Locations

ZBlocks: 0.0; 0.0 - 0.5; 0.5 - 1.0; 1.0 - 1.5; 1.5 - 2.0; 2.0 - 2.5; 2.5 - 3.0; 3.0 - 3.5; 3.5 - 4.0; 4.0 - 4.5; 4.5 - 5.0; 5.0 - 5.5; 5.5 - 6.0; 6.0 - 6.2

- 2010 Dredge Area G
- 2010 Dredge Area N
- 2010 Dredge Area M
- 2010 Dredge Area J

MLLW, MLW, MHW, MHHW

0 37.5 75 Feet 1:900

N

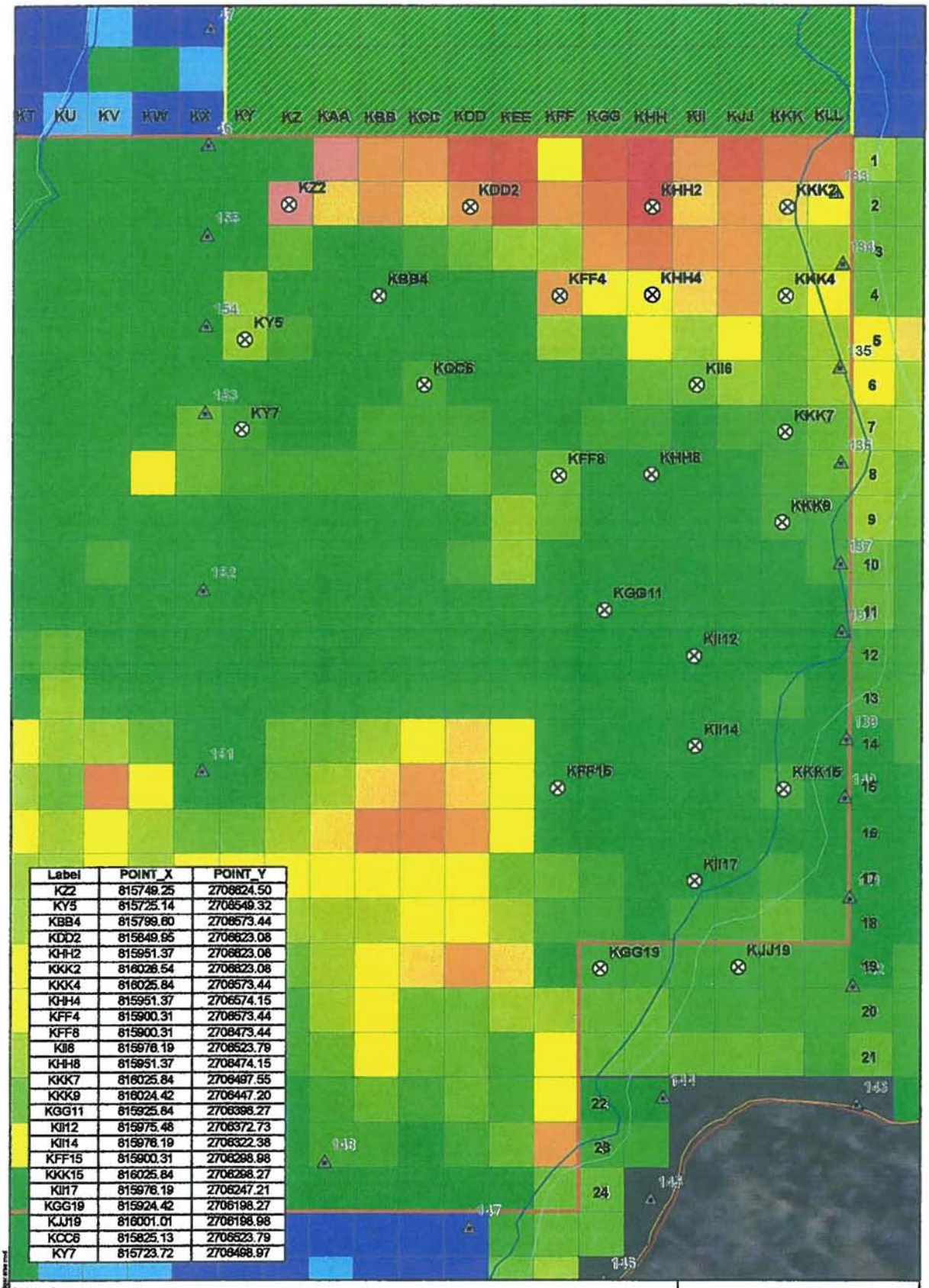
JACOBS

2010 Area G Dredge Area and Post Dredge Core Locations

New Bedford Harbor Superfund Site

NAME: croberts DATE: 10/04/2010

Figure 1



Label	POINT_X	POINT_Y
KZ2	815749.25	2706624.50
KY5	815725.14	2706549.32
KBB4	815799.60	2706573.44
KDD2	815849.95	2706623.08
KHH2	815951.37	2706623.08
KKK2	816026.54	2706623.08
KKK4	816025.84	2706573.44
KHH4	815951.37	2706574.15
KFF4	815900.31	2706573.44
KFF8	815900.31	2706473.44
KII6	815976.19	2706523.79
KHH8	815951.37	2706474.15
KKK7	816025.84	2706497.55
KKK9	816024.42	2706447.20
KGG11	815925.84	2706396.27
KII12	815975.48	2706372.73
KII14	815976.19	2706322.38
KFF15	815900.31	2706298.98
KKK15	816025.84	2706298.27
KII17	815976.19	2706247.21
KGG19	815924.42	2706198.27
KJJ19	816001.01	2706198.98
KCC6	815825.13	2706523.79
KY7	815723.72	2706498.97

Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- Post Dredge Cores

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

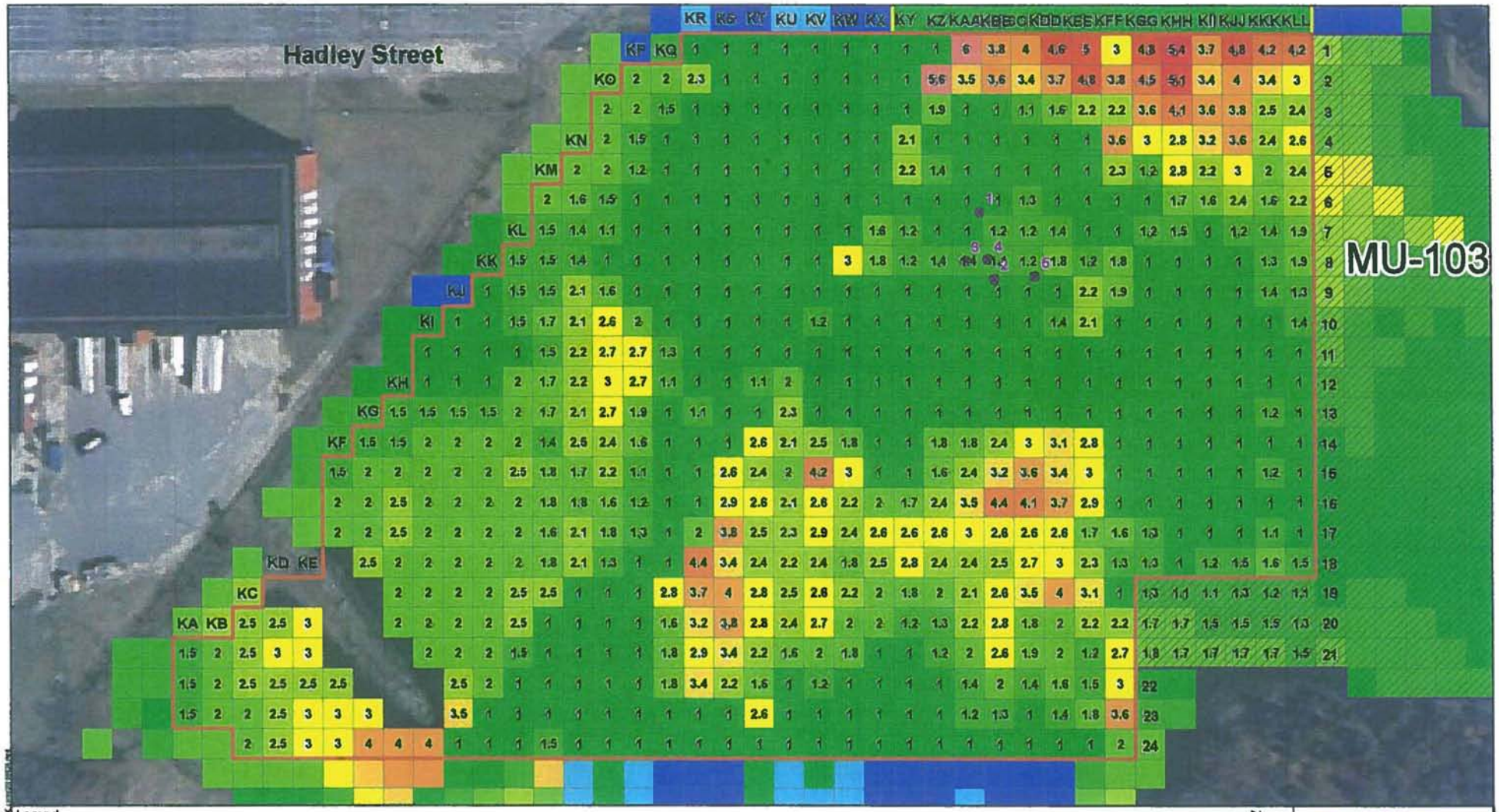
JACOBS

Area K Dredge Plan East and Post Dredge Core Locations

New Bedford Harbor Superfund Site

NAME: mdbeda DATE: 10/04/2016

Figure 1



Legend

Z Blocks: 0.0; 0.0 - 0.5; 0.5 - 1.0; 1.0 - 1.5; 1.5 - 2.0; 2.0 - 2.5; 2.5 - 3.0; 3.0 - 3.5; 3.5 - 4.0; 4.0 - 4.5; 4.5 - 5.0; 5.0 - 5.5; 5.5 - 6.0; 6.0 - 6.2

2010 Dredge Area K

2010 Dredge Area O

Sheet Pile Locations

MLLW

MLW

MHW

MHHW

Cores 08/26/2010

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

0 37.5 75 Feet 1:900

N

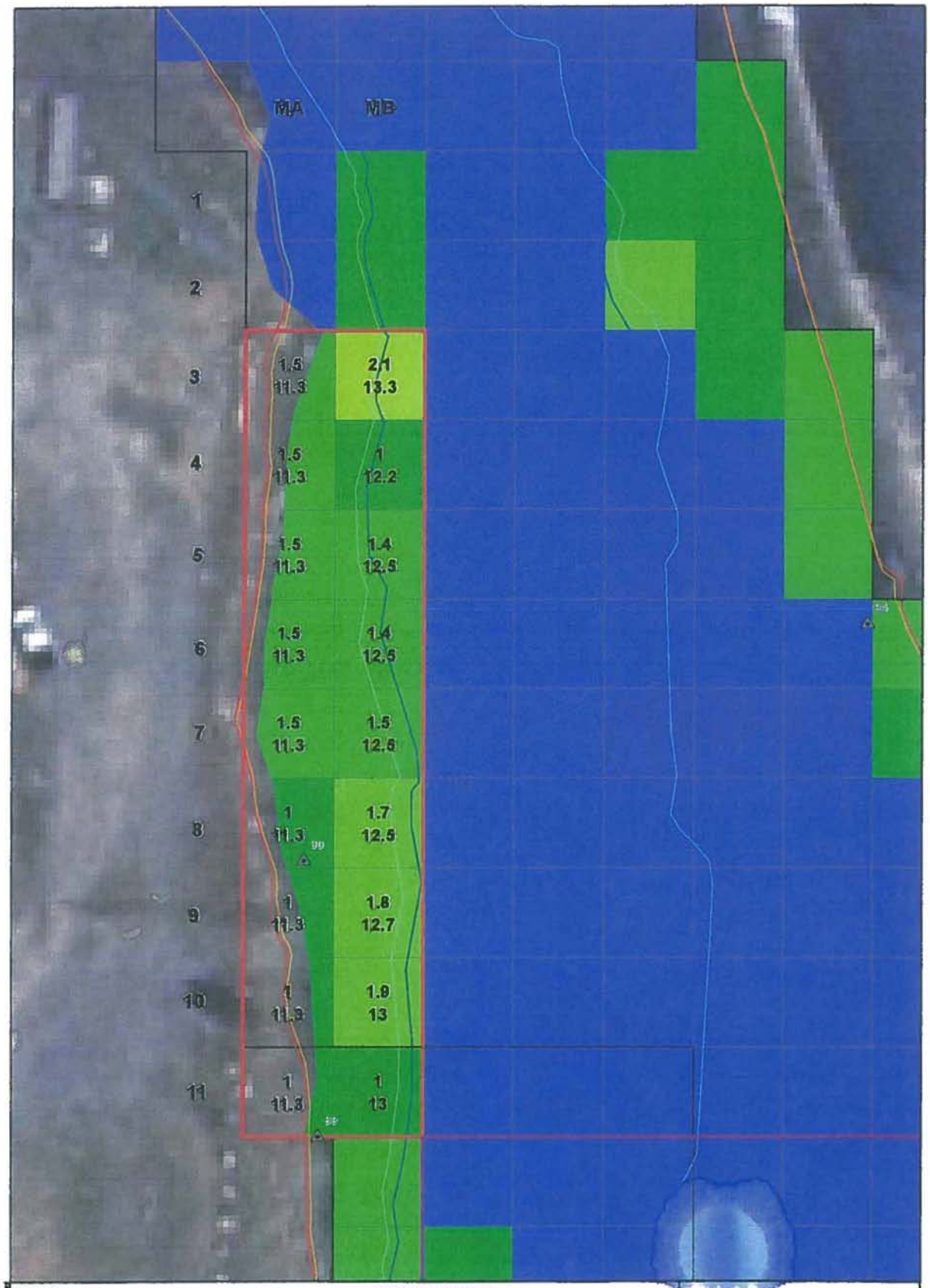
JACOBS

2010 Area K Dredge Plan and Cores

New Bedford Harbor Superfund Site

Figure 1

2010 DREDGE PLAN



Legend

2010 Dredge Area M
Volume = 459 cy

ZBlocks

0.0	3.0 - 3.5
0.0 - 0.5	3.5 - 4.0
0.5 - 1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	5.5 - 6.0
2.5 - 3.0	6.0 - 6.2

2010 Dredge Grid Blocks

1 — Feet of sediment to remove
15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3'; NGVD 29 - ft)

MLLW
MLW
MHW
MHHW

0 12.5 25 Feet 1:300

N

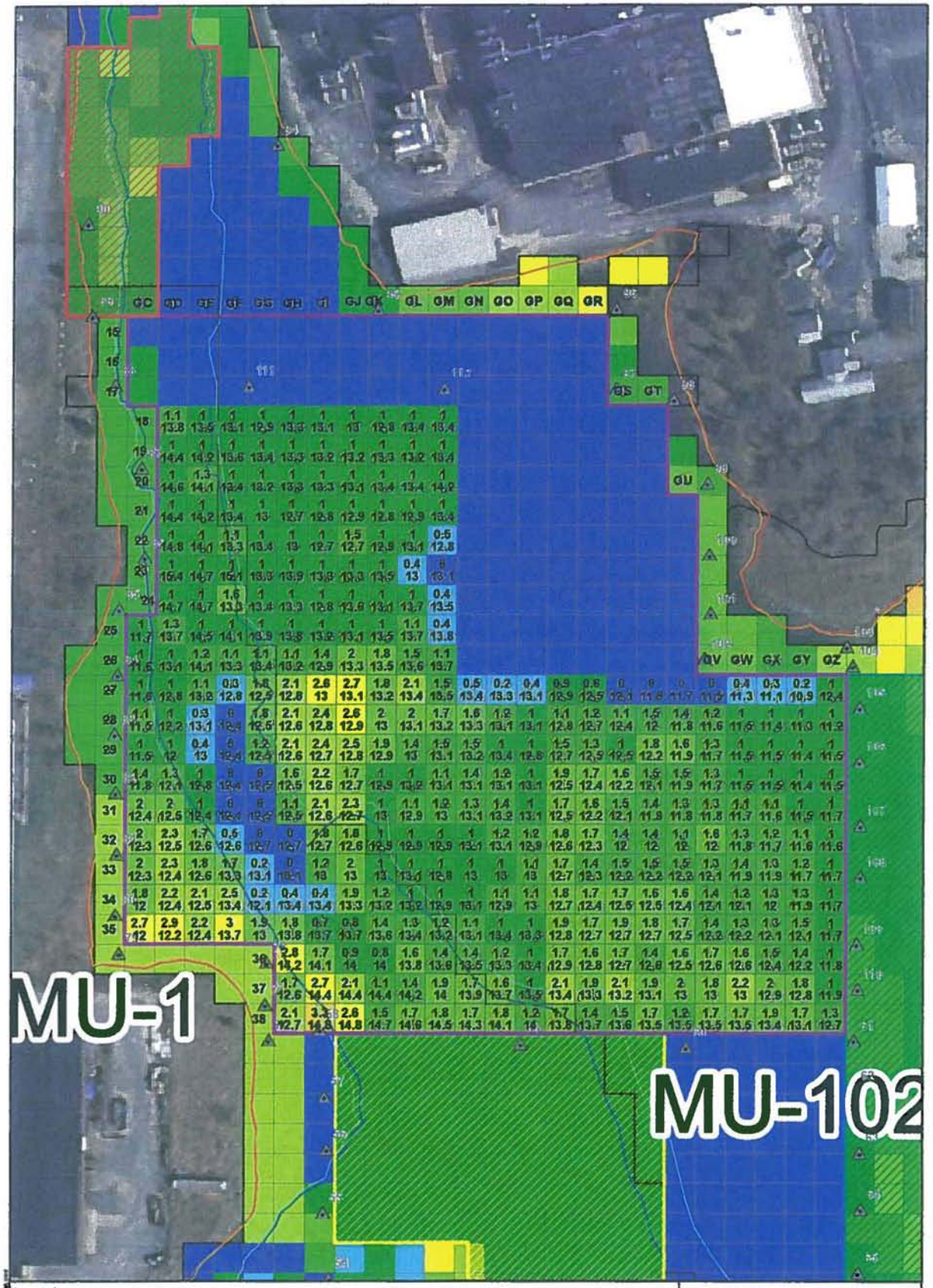
JACOBS

Area M Dredge Plan
with SES Rod Readings

New Bedford Harbor Superfund Site

NAME: croberts DATE: 07/21/2010

Figure B-1



Legend

- 2010 Dredge Area G
- 2010 Dredge Area N
- 2010 Dredge Area M
- 2010 Dredge Area J
- Sheet Pile Locations

ZBlocks

- 0.0
- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5
- 5.5 - 6.0
- 6.0 - 6.2

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3'; NGVD 29 - ft)

- MLLW
- MLW
- MHW
- MHHW

0 37.5 75 Feet 1:900

N

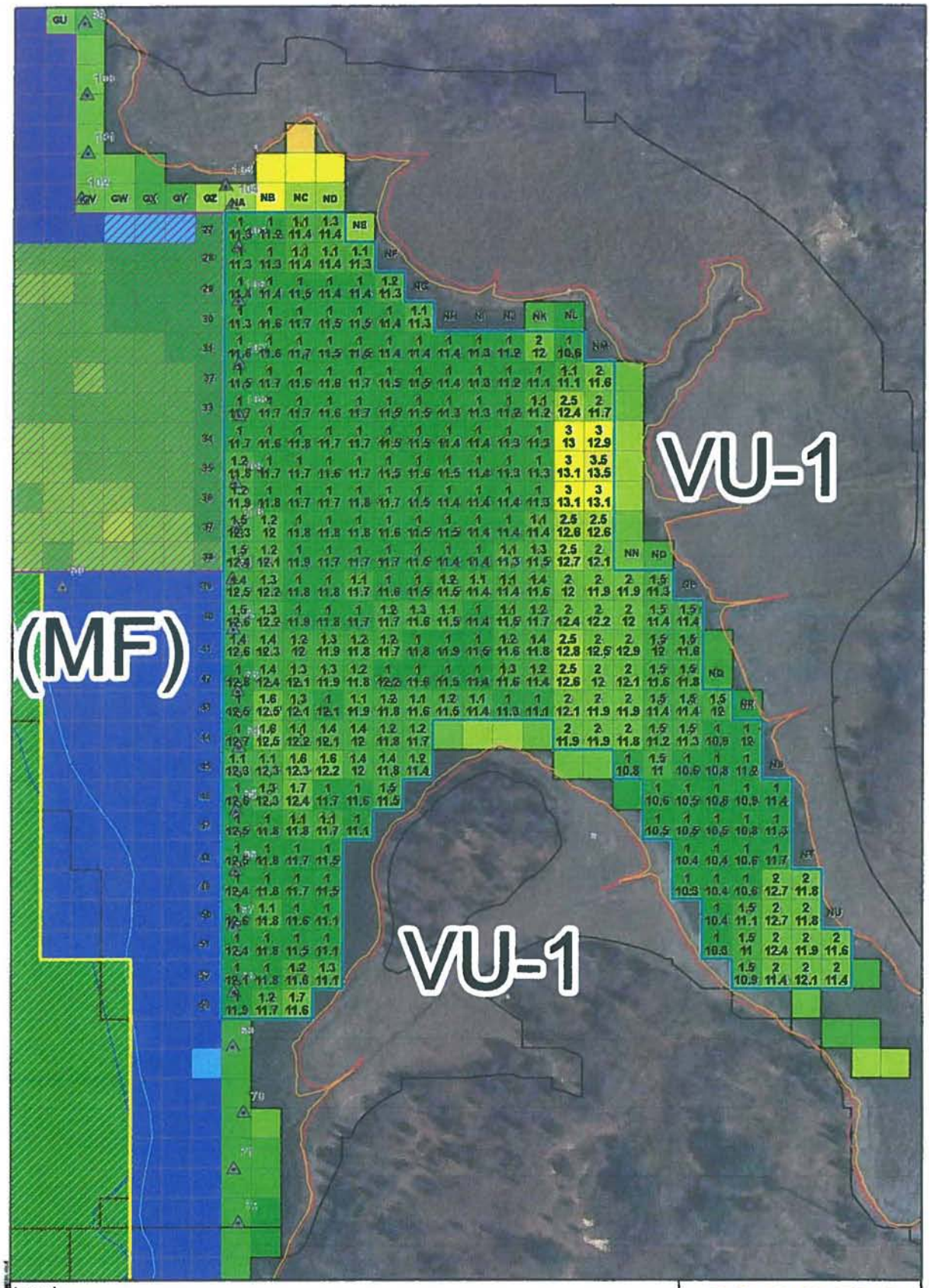
JACOBS

2010 Area G Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

NAME: croberts DATE: 05/11/2010

Figure 2-1



Legend

ZBlocks

0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
5.5 - 6.0
6.0 - 6.2

2010 Dredge Area N
2010 Dredge Area G
2010 Dredge Area J
Sheet Pile Locations

2010 Dredge Grid Blocks

1 — Feet of sediment to remove
15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

JACOBS

2010 Area N Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

NAME: crobertx DATE: 05/11/2010

Figure 2-2

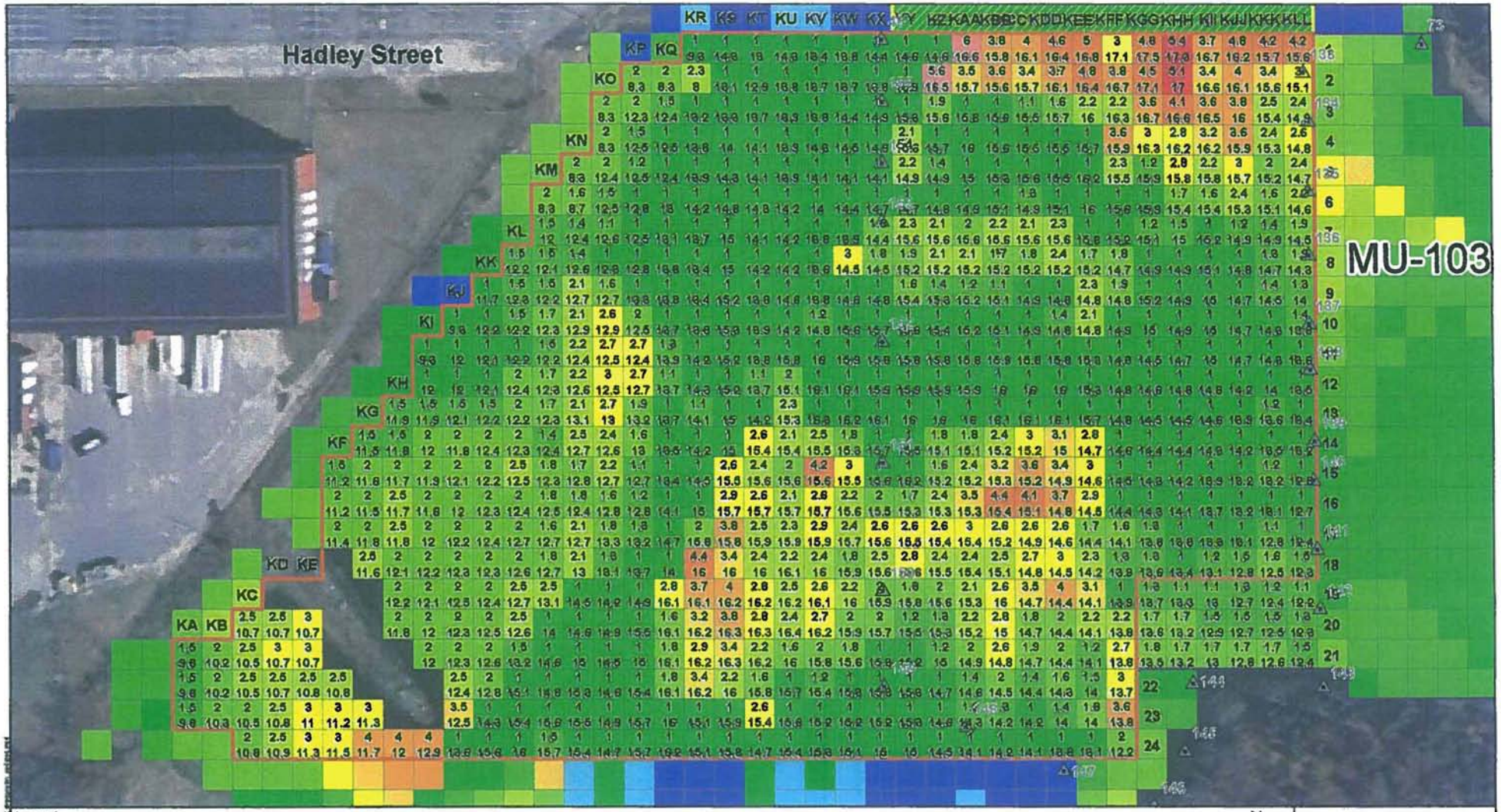
JACOBS

2010 Area J Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

NAME: cobeda DATE: 05/11/2010

Figure 2-3



Legend

Zblocks: 0.0; 0.0 - 0.5; 0.5 - 1.0; 1.0 - 1.5; 1.5 - 2.0; 2.0 - 2.5; 2.5 - 3.0; 3.0 - 3.5; 3.5 - 4.0; 4.0 - 4.5; 4.5 - 5.0; 5.0 - 5.5; 5.5 - 6.0; 6.0 - 6.2

2010 Dredge Area K

2010 Dredge Area O

Sheet Pile Locations

MLLW

MLW

MHW

MHHW

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

0 37.5 75 Feet 1:900

JACOBS

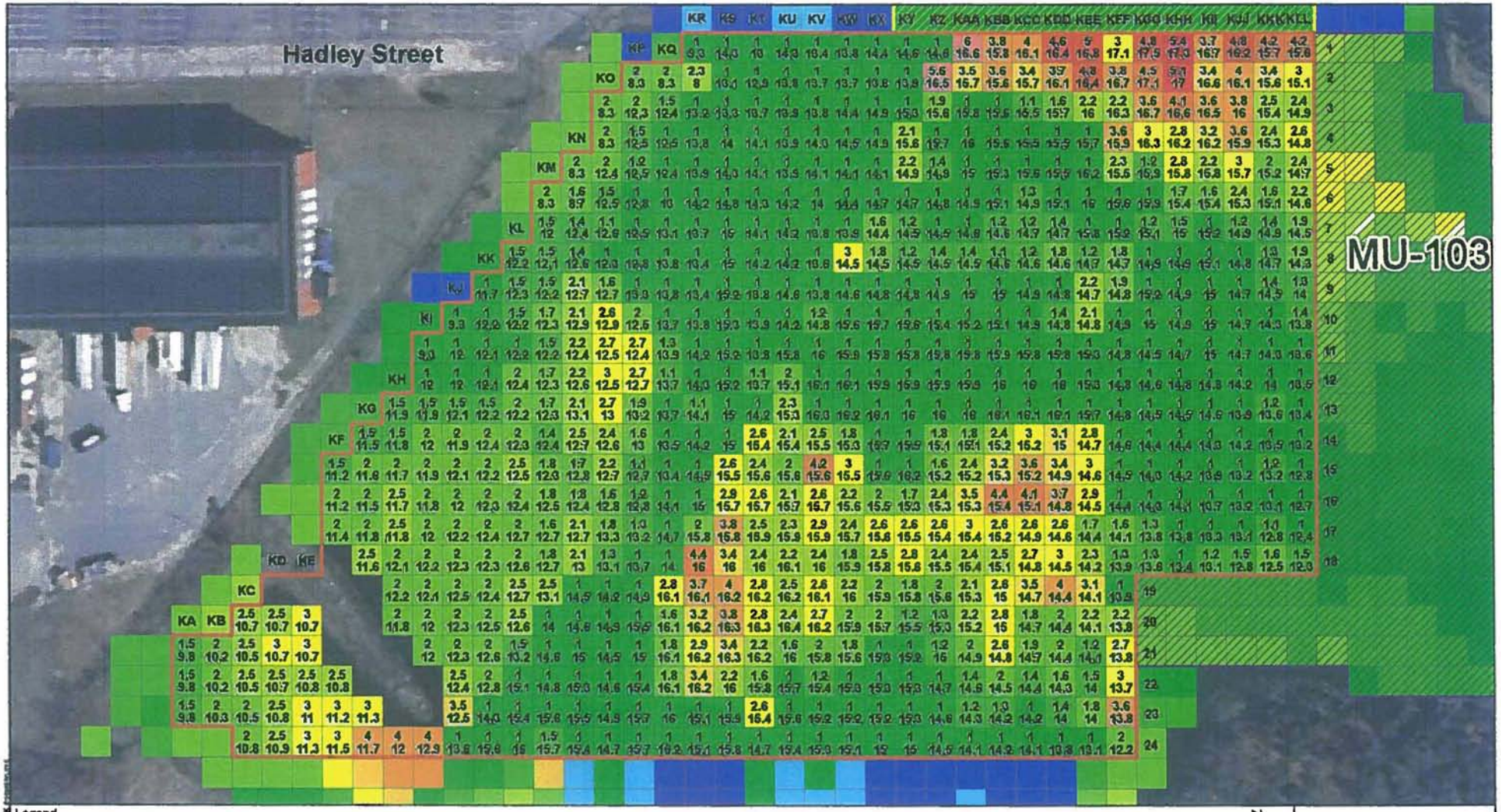
2010 Area K Dredge Plan with SES Rod Readings

UPDATED

New Bedford Harbor Superfund Site

DATE: 03/03/2011

Figure 1



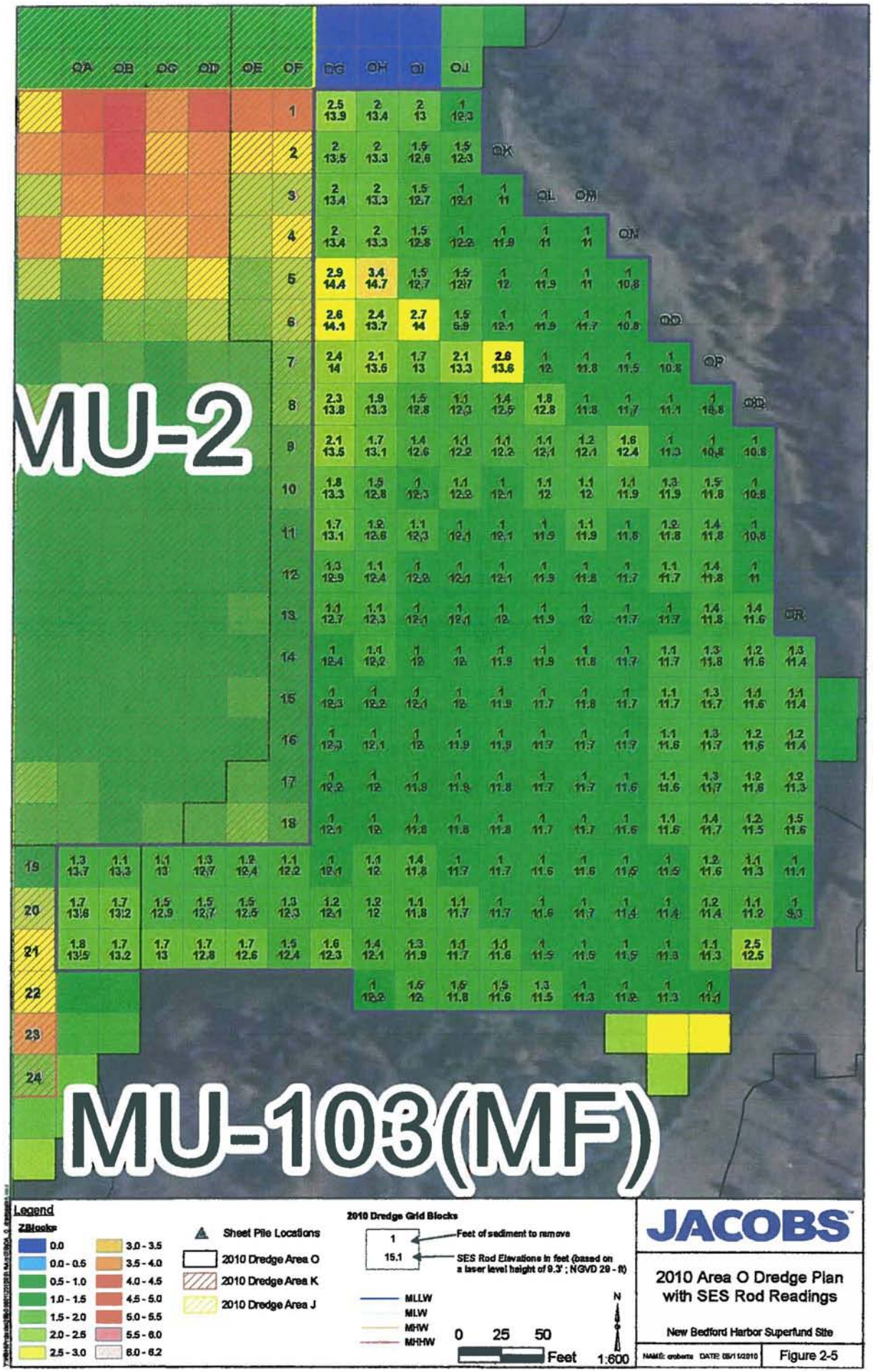
JACOBS

2010 Area K Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

DATE 05/11/2010

Figure 2-4



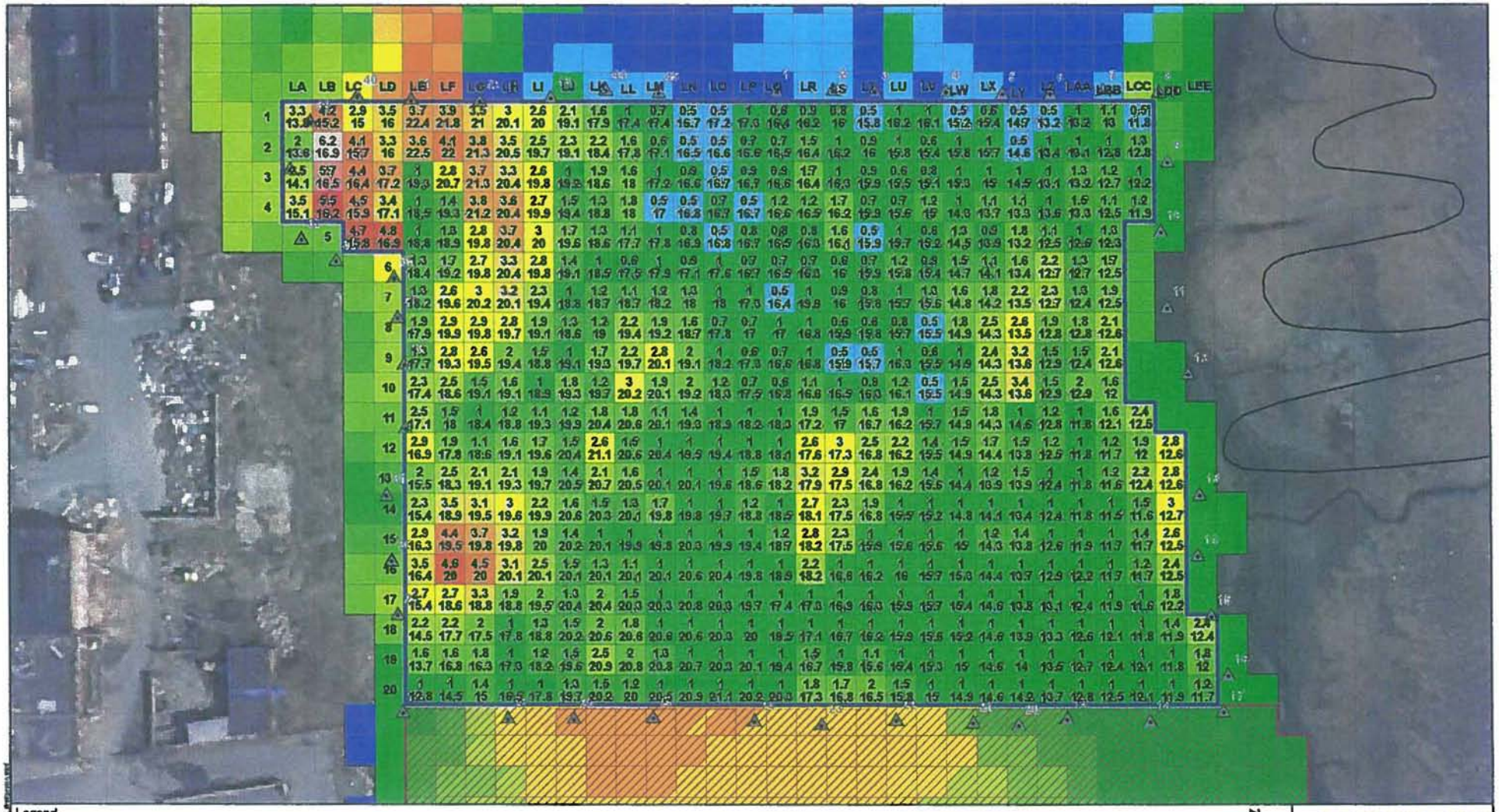
JACOBS

2010 Area O Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 05/11/2010

Figure 2-5



Legend

Z2Blocks

- 0.0
- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5
- 5.5 - 6.0
- 6.0 - 6.2

2010 Dredge Area L

2010 Dredge Area P

Sheet Pile Locations

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

MLLW

MLW

MHW

MHHW

N

0 37.5 75

Feet 1:900

JACOBS

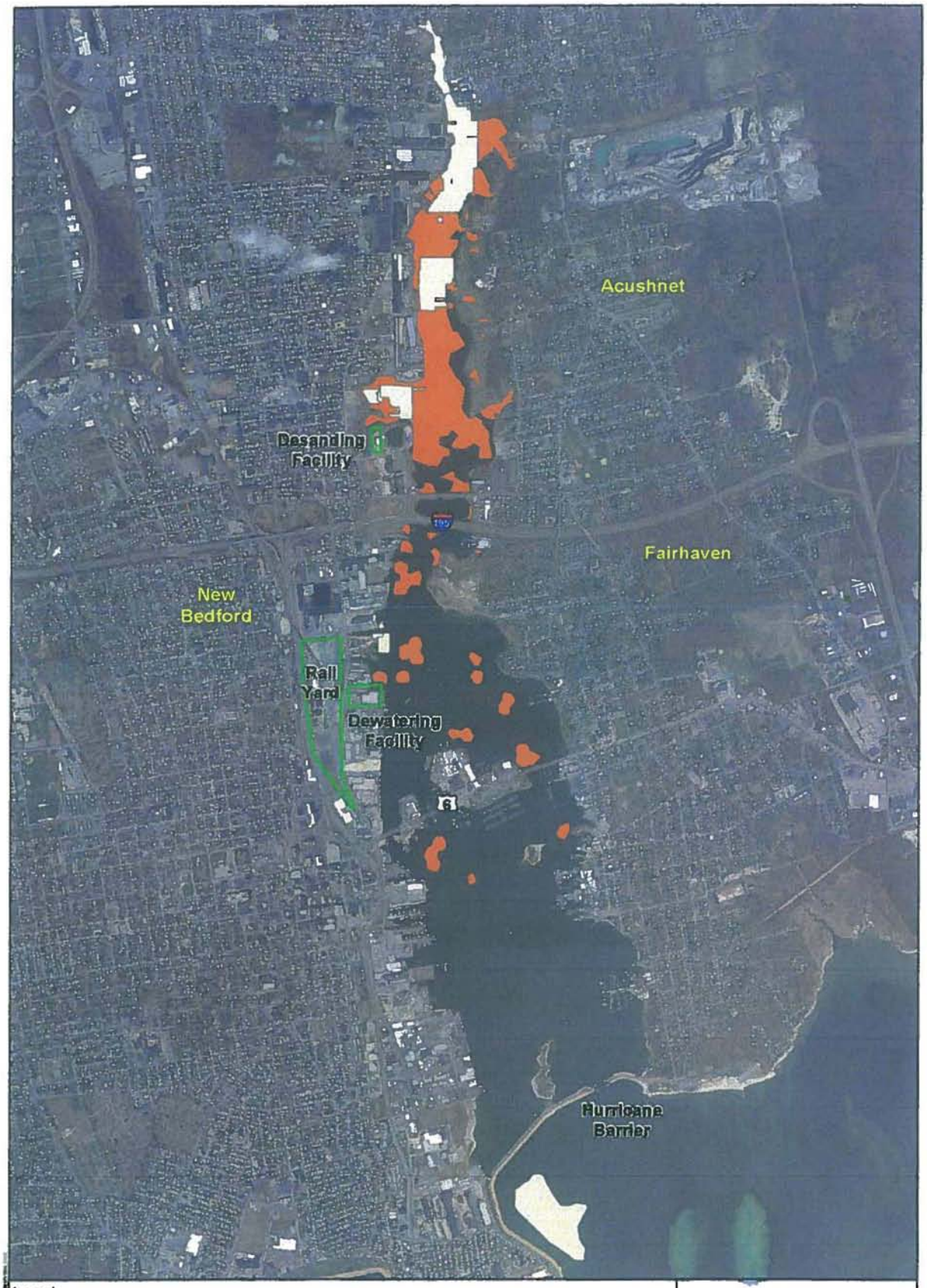
2010 Area L Dredge Plan with SES Rod Readings

New Bedford Harbor Superfund Site

DATE 05/13/2010

Figure 2-6

MISCELLANEOUS



Legend

Areas Partially or Fully Remediated as of 12/31/2010

Areas to be Dredged per 1998 Record of Decision (ROD)

0 875 1,750 Feet 1:21,000

N

Aerial Photography MASSGIS 2003

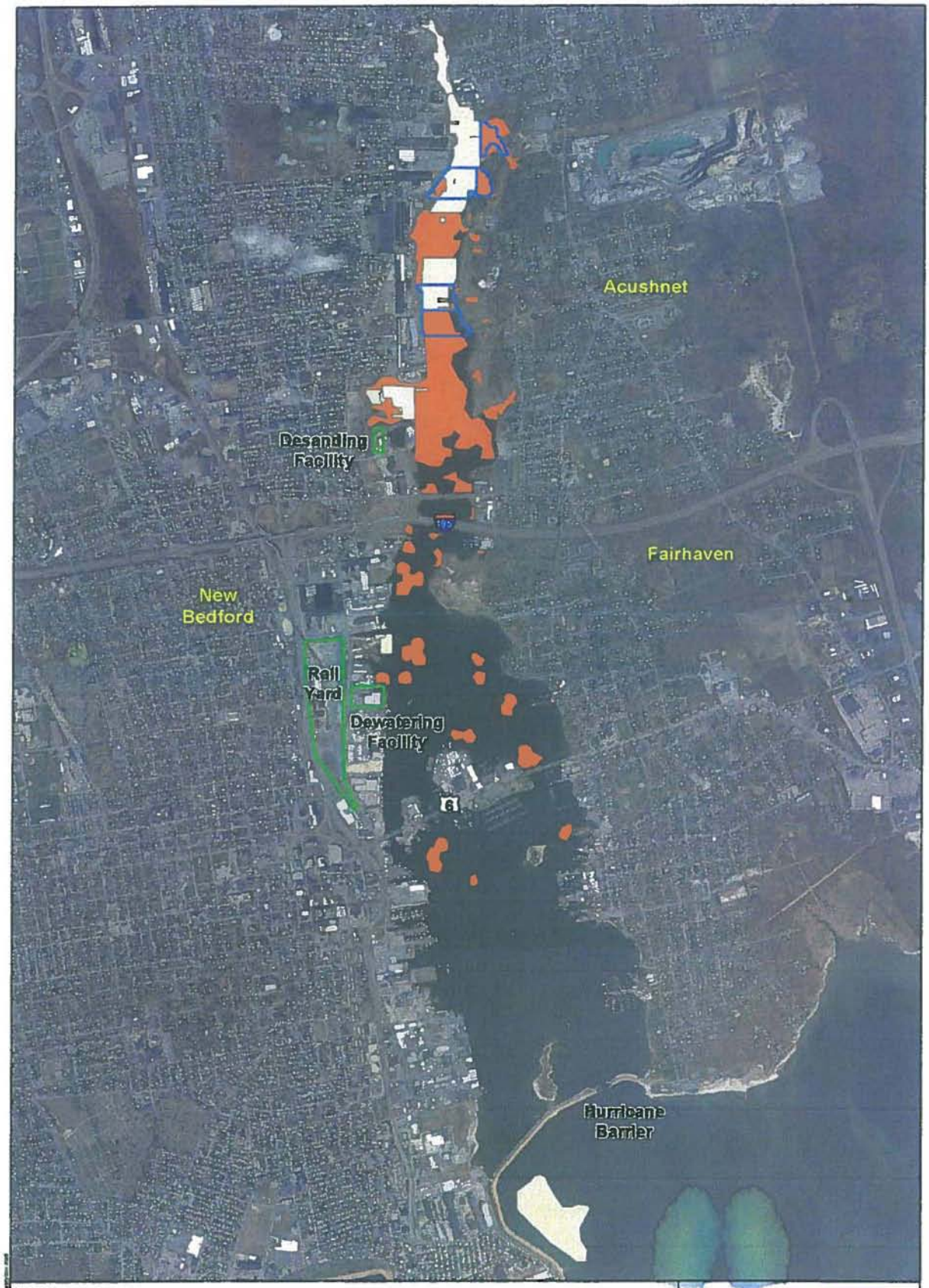
JACOBS

New Bedford Harbor Superfund Cleanup Areas Remediated through 2010 Per 1998 ROD

New Bedford Harbor Superfund Site

NAME: crabeats DATE: 12/21/2010

Figure 1



Legend

- 2011 Cleanup Areas
- Areas Partially or Fully Remediated as of 12/31/2010
- Areas to be Dredged per 1998 Record of Decision (ROD)

0 875 1,750 Feet 1:21,000

N

Aerial Photography MASSGIS 2003

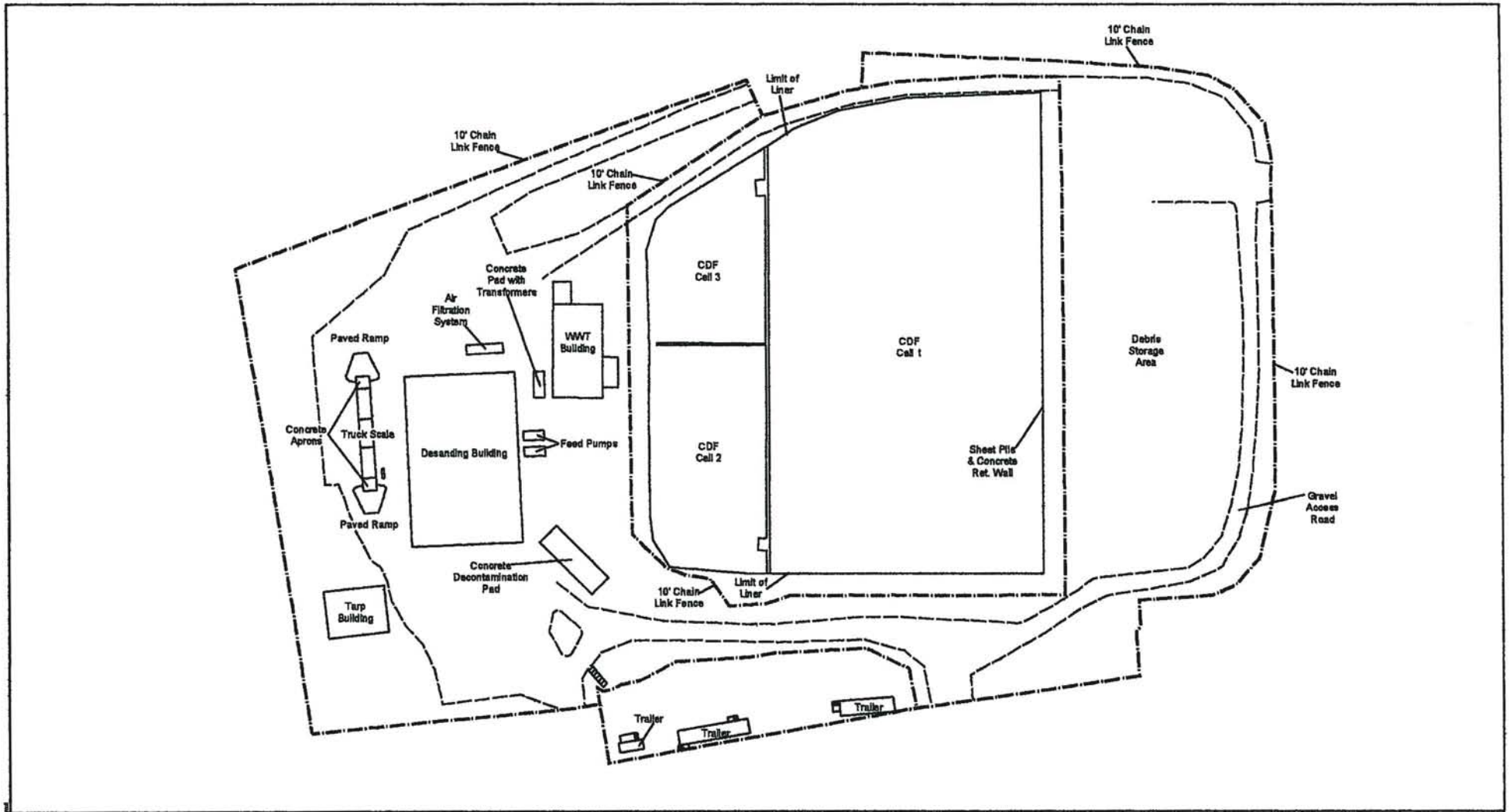
JACOBS

New Bedford Harbor Superfund Cleanup Areas Remediated through 2010 Per 1998 ROD

New Bedford Harbor Superfund Site

NAME: cobetts DATE: 12/21/2010

Figure 1



Legend

Fence

Road

0 75 Feet 1:900

N

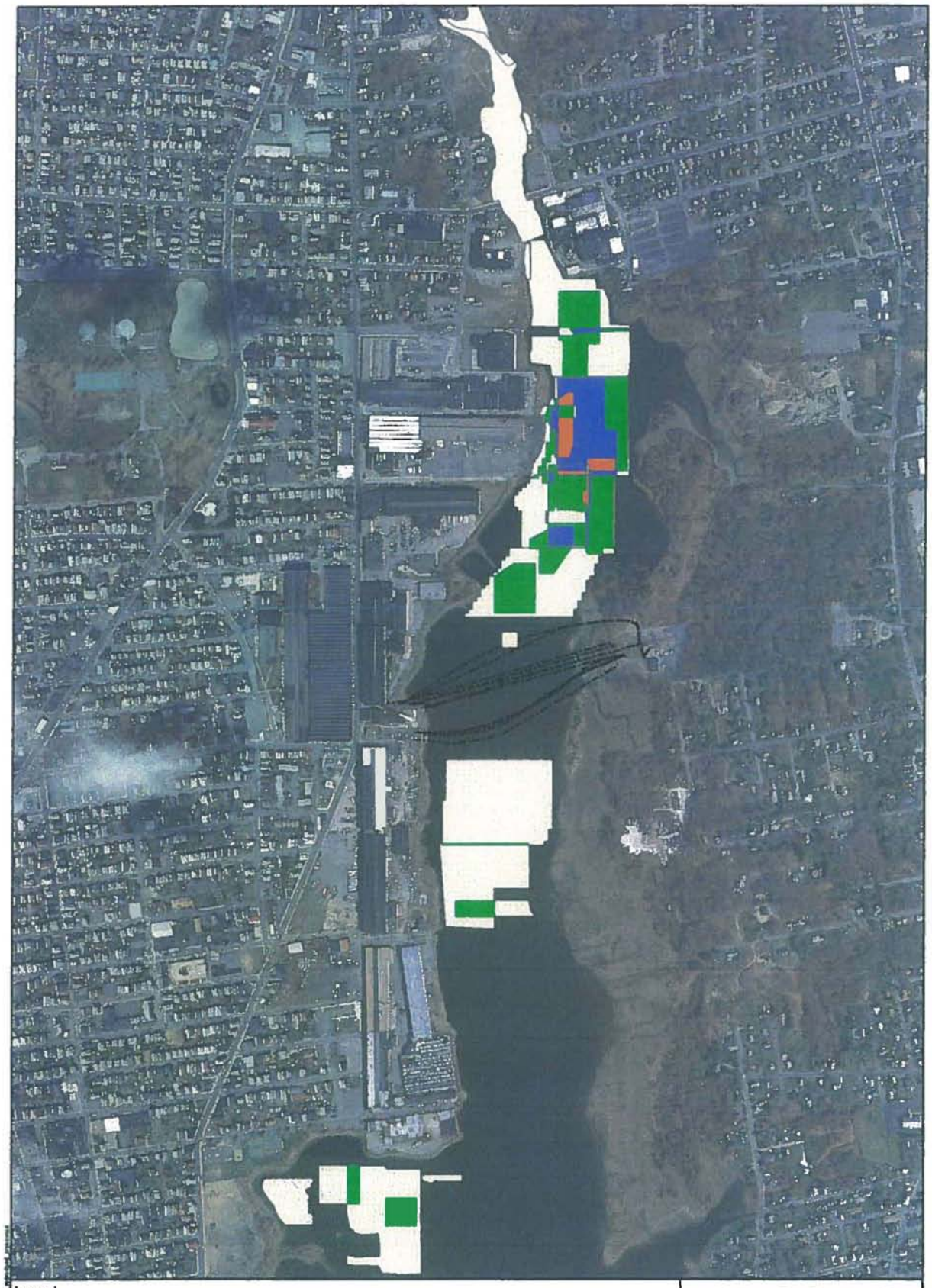
JACOBS

Area C

New Bedford Harbor Superfund Site

DATE: 11/17/2010

Figure 1



Legend

Number of Years Dredged

- 1
- 2
- 3
- 4
- 5

NSTAR Cable Crossing

N

0 550 1,100 Feet 1:6,600

JACOBS

Areas Dredged in New Bedford Harbor through 2010

New Bedford Harbor Superfund Site

NAME: [illegible] DATE: [illegible]

Figure 1

Legend

Number of Years Dredged

- 1
- 2
- 3
- 4

⊗ 2009 Post Dredge Cores

NSTAR Cable Crossing

0 175 350 Feet

1:4,200

N

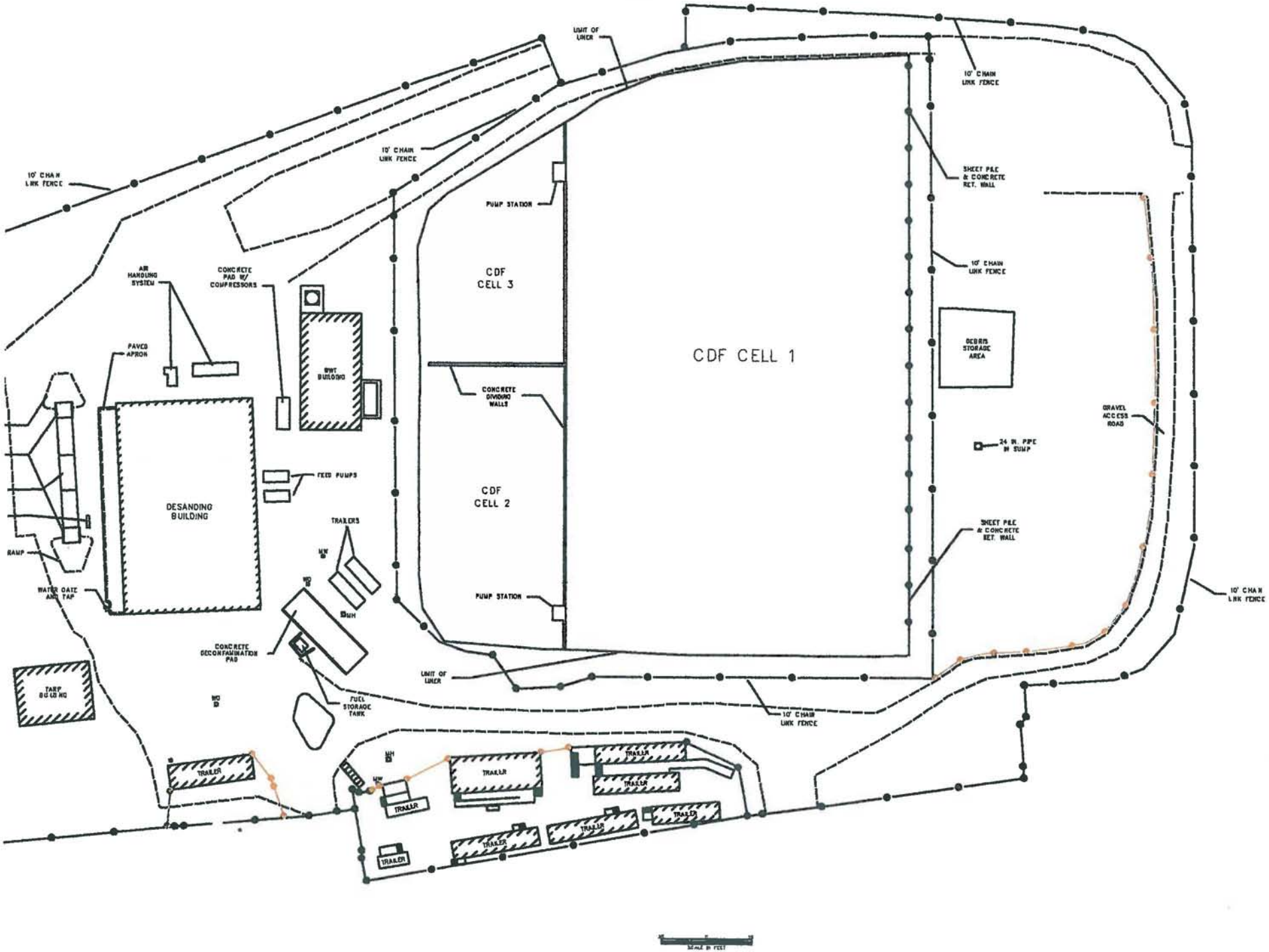
JACOBS

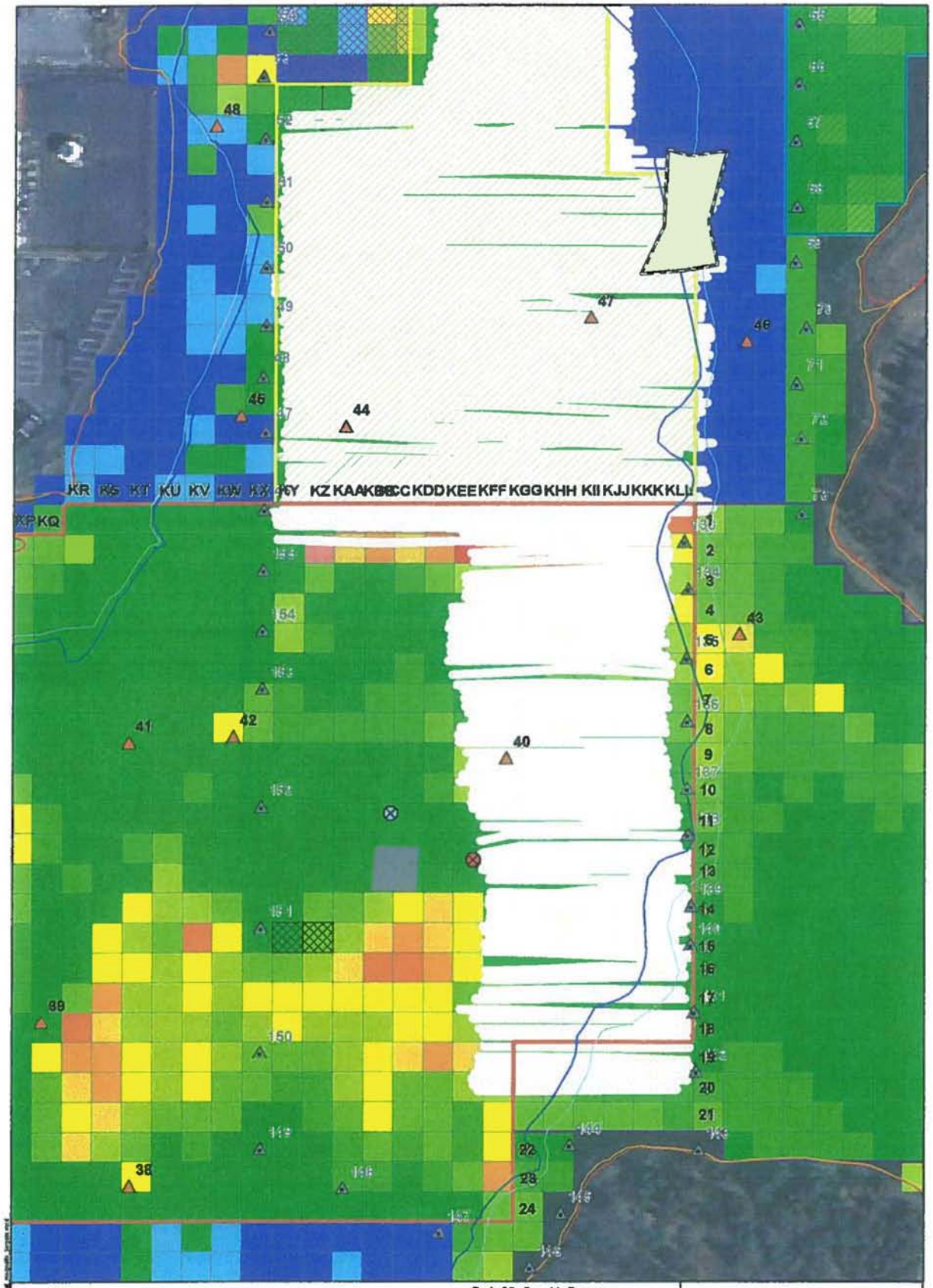
Areas Dredged in New Bedford Harbor through 2009

New Bedford Harbor Superfund Site

NAME: [illegible] DATE: [illegible]

Figure 1


10' CHAIN LINK FENCE
LIMIT OF LINER
10' CHAIN LINK FENCE
SHEET PILE & CONCRETE RET. WALL
PUMP STATION
CDF CELL 3
CDF CELL 1
10' CHAIN LINK FENCE
AIR HANDLING SYSTEM
CONCRETE PAD W/ COMPRESSORS
PAVED APRON
DEBRIS STORAGE AREA
CONCRETE DIVIDING WALLS
GRAVEL ACCESS ROAD
24 IN. PIPE IN SUMP
FEED PUMPS
CDF CELL 2
DESANDING BUILDING
TRAILERS
SHEET PILE & CONCRETE RET. WALL
RAMP
WATER GATE AND TAP
PUMP STATION
10' CHAIN LINK FENCE
CONCRETE DECONTAMINATION PAD
LIMIT OF LINER
TARP BUILDING
FUEL STORAGE TANK
10' CHAIN LINK FENCE
TRAILER
TRAILER
TRAILER
TRAILER
TRAILER
TRAILER
TRAILER
TRAILER
TRAILER
SCALE IN FEET



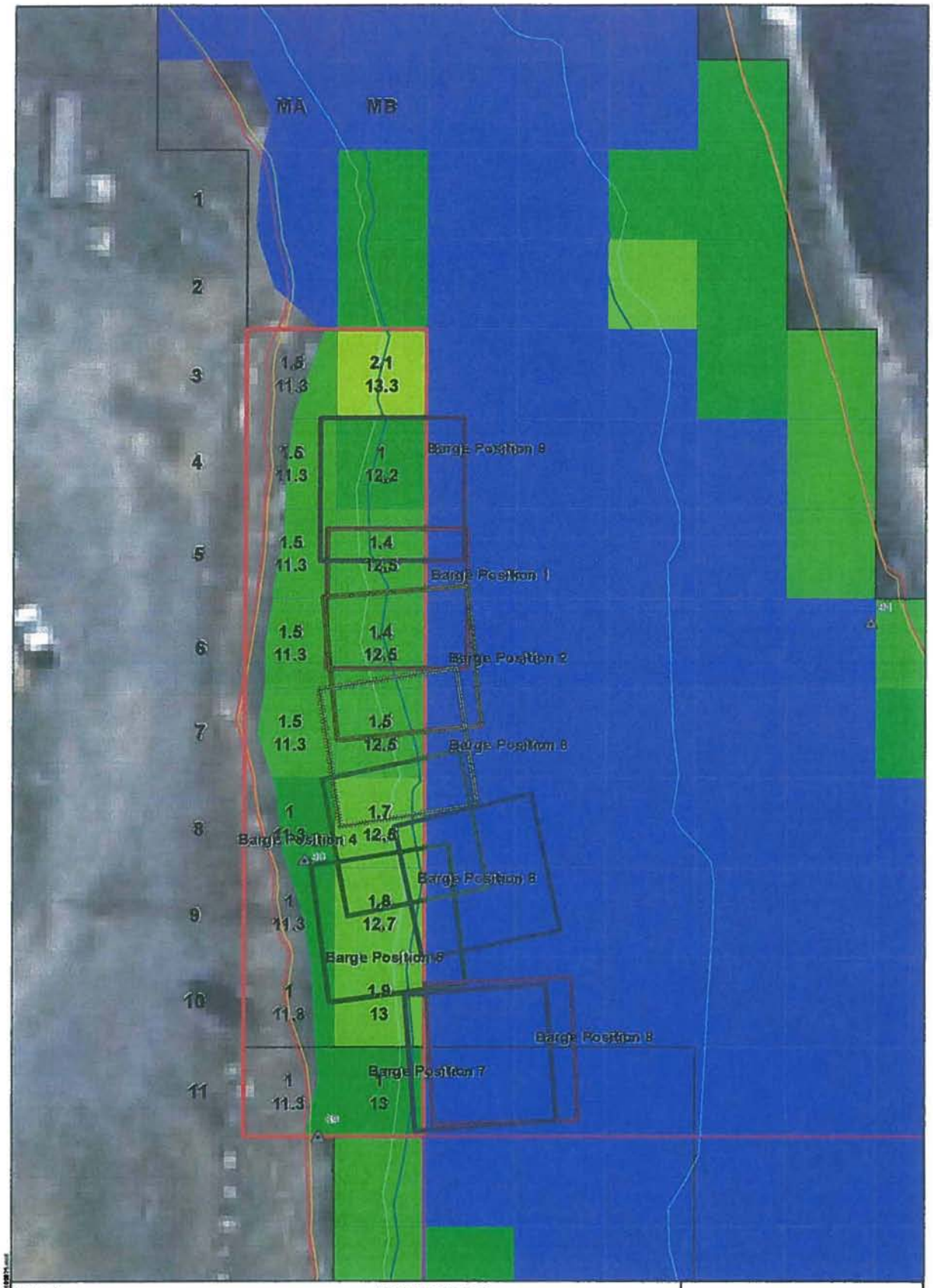
JACOBS

Area of Interest

New Bedford Harbor Superfund Site

NAME: cwberto DATE: 08/20/2010

Figure 1



Legend

2010 Dredge Area M

ZBlocks

0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
5.5 - 6.0
6.0 - 6.2

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

MLLW
MLW
MHW
MHHW

0 12.5 25 Feet

1:300

N

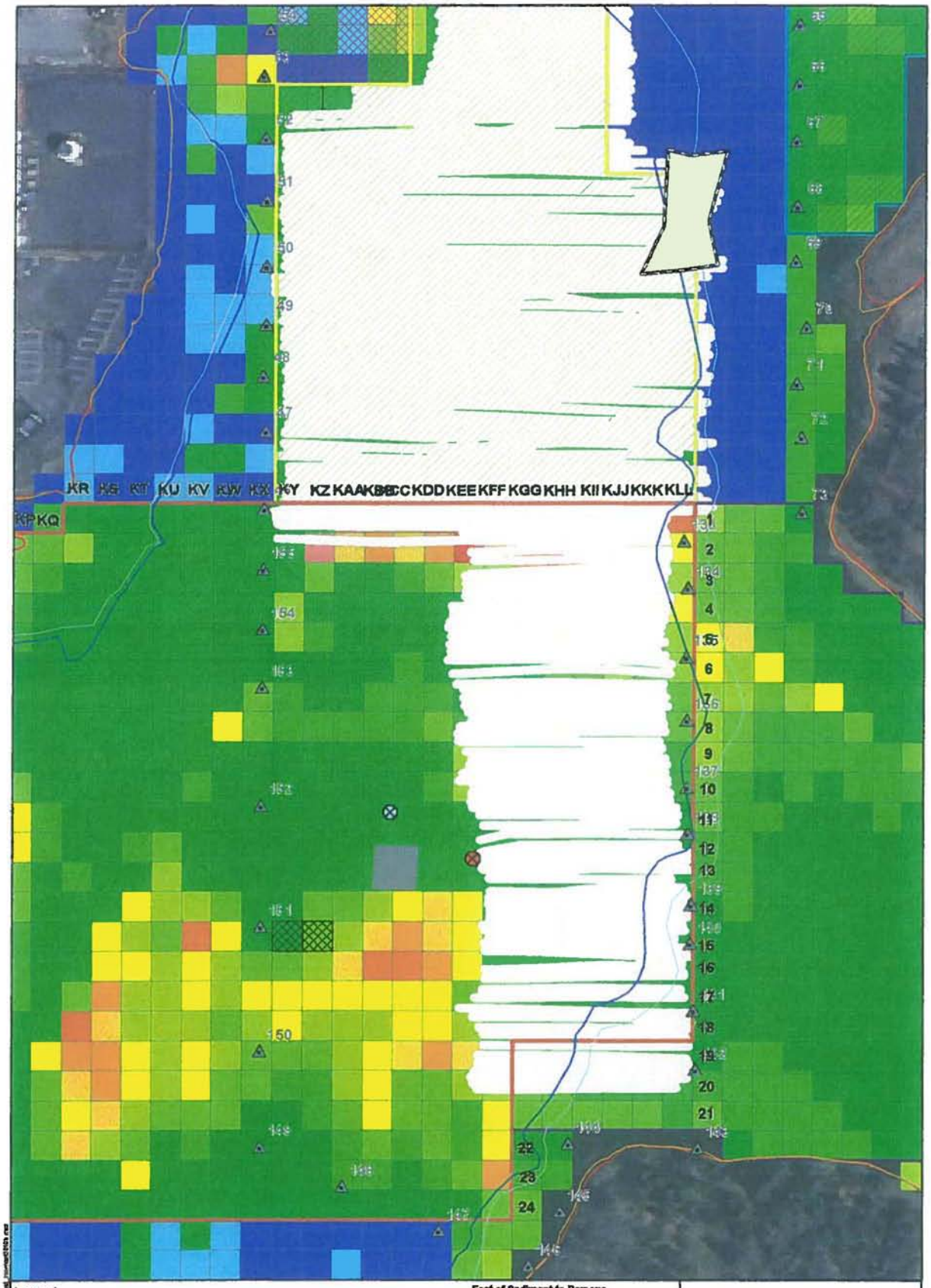
JACOBS

Area M Dredge Plan with SES Rod Readings and Barge Location

New Bedford Harbor Superfund Site

NAME: crobets DATE: 08/29/2010

Figure 1



Legend

- Area of Interest
- Dredge Area K
- Dredge Area J
- 2010 Sheet Pile Locations
- 8 foot buffer representing area of cut from previous 2010 dredging activities through 08/20/2010
- Anchor Location
- Recovered Wood Block
- Debris Barge
- Possible Ballast Stone

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 37.5 75 Feet 1:900

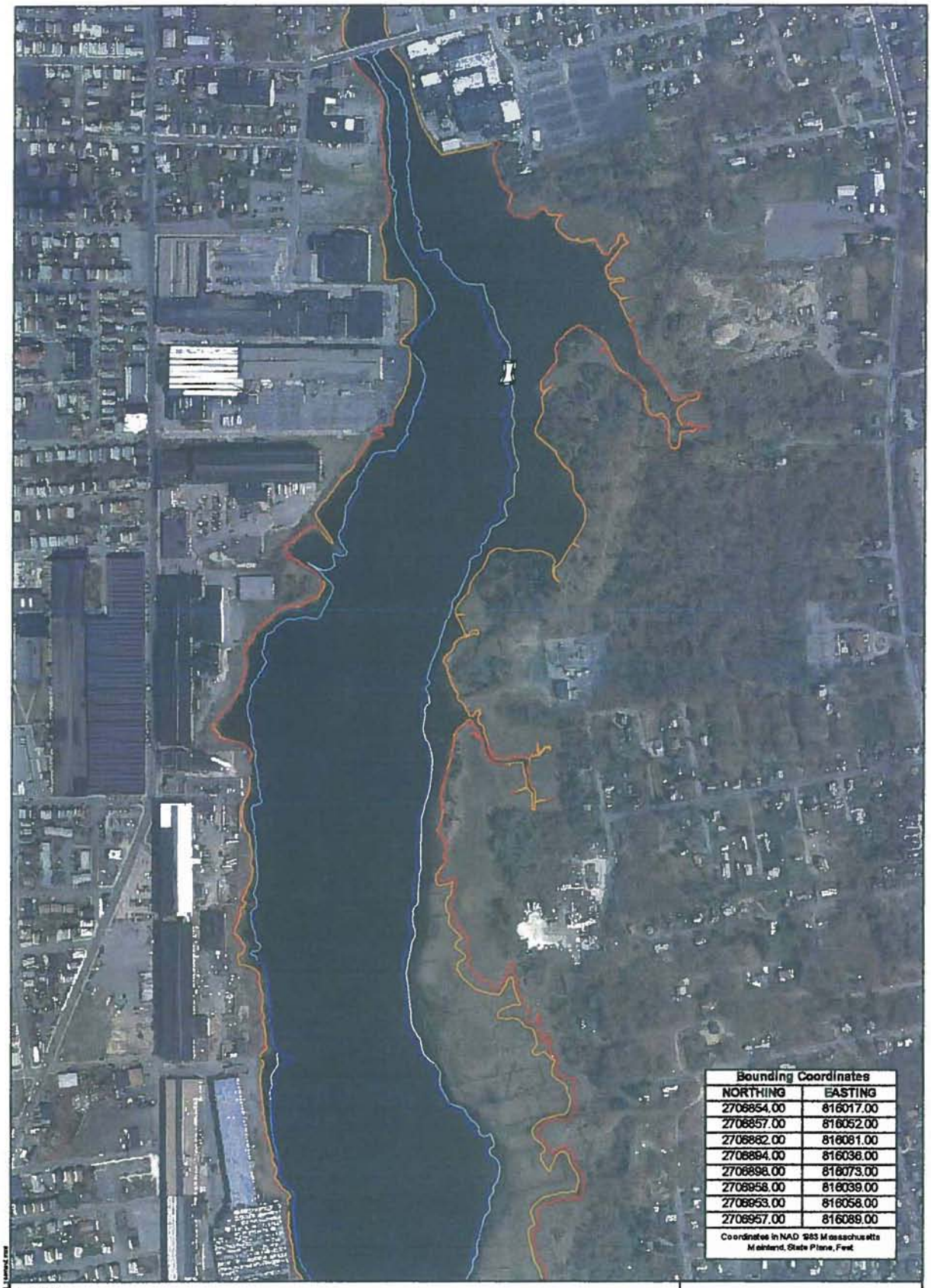
JACOBS

Area of Interest

New Bedford Harbor Superfund Site

NAME: cotterle DATE: 08/23/2010

Figure 1



Bounding Coordinates	
NORTHING	EASTING
2706854.00	816017.00
2706857.00	816052.00
2706882.00	816081.00
2706894.00	816036.00
2706898.00	816073.00
2706958.00	816039.00
2706953.00	816058.00
2706957.00	816089.00

Coordinates in NAD 1983 Massachusetts Mainland, State Plane, Feet

Legend

Area of Interest

MLLW

MLW

MHW

MHHW

Aerial Photography MASSGIS 2003

N

0 200 400

Feet 1:4,800

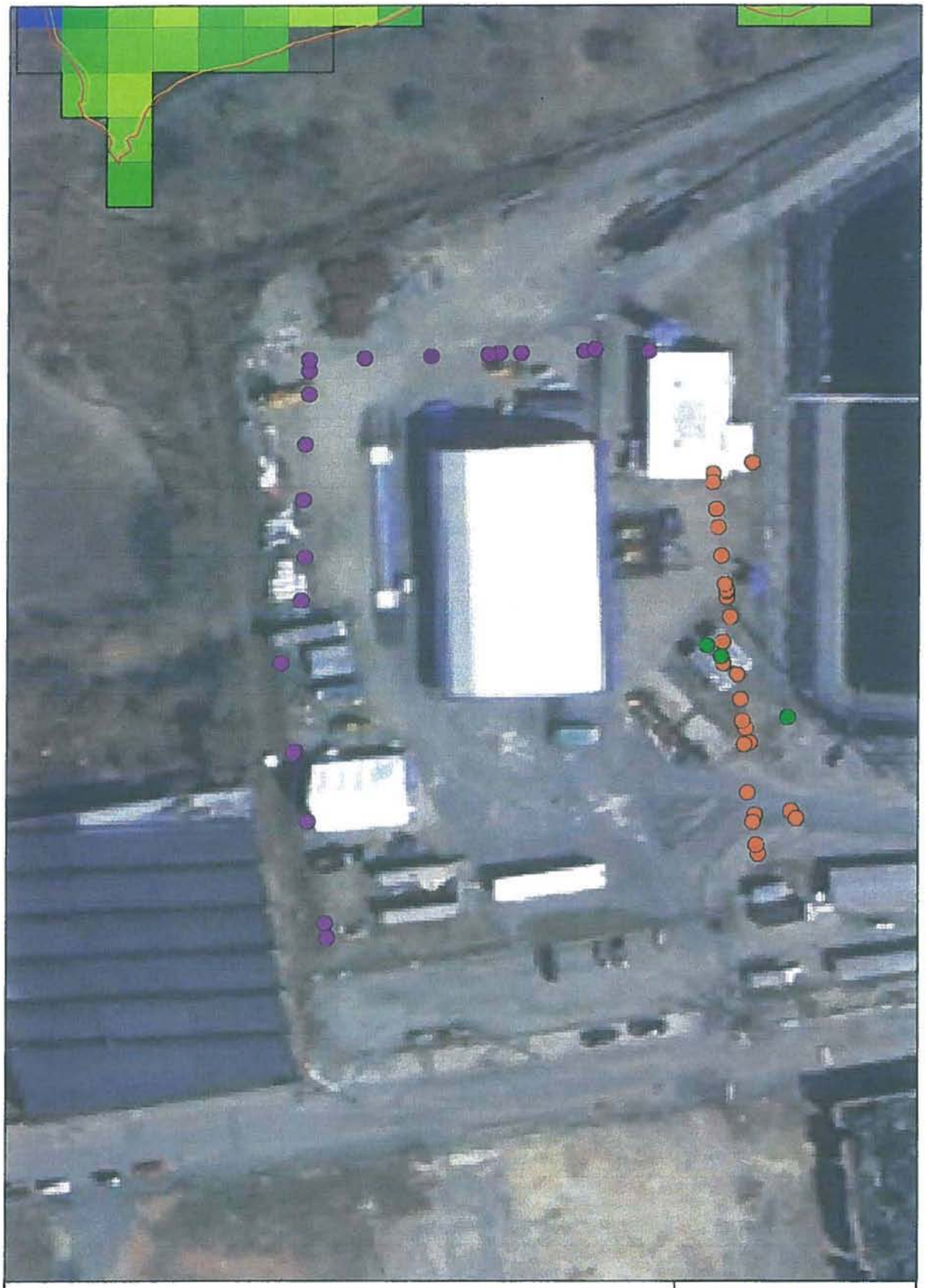
JACOBS

Area of Interest

New Bedford Harbor Superfund Site

NAME: cstevens DATE: 09/11/2009

Figure 1



Legend

- UTILITYPOL Events
- BREAKTRLR Events
- OFFICESEWER Events
- DATACOMM09 Events

Aerial Photography MASSGIS 2003

Z Blocks

0	3.1 - 3.5
0.1 - 1.0	3.6 - 4.0
1.1 - 1.5	4.1- 4.5
1.6 - 2.0	4.6- 5.0
2.1 - 2.5	5.1 - 5.5
2.6- 3.0	

N

0 37.5 75 Feet

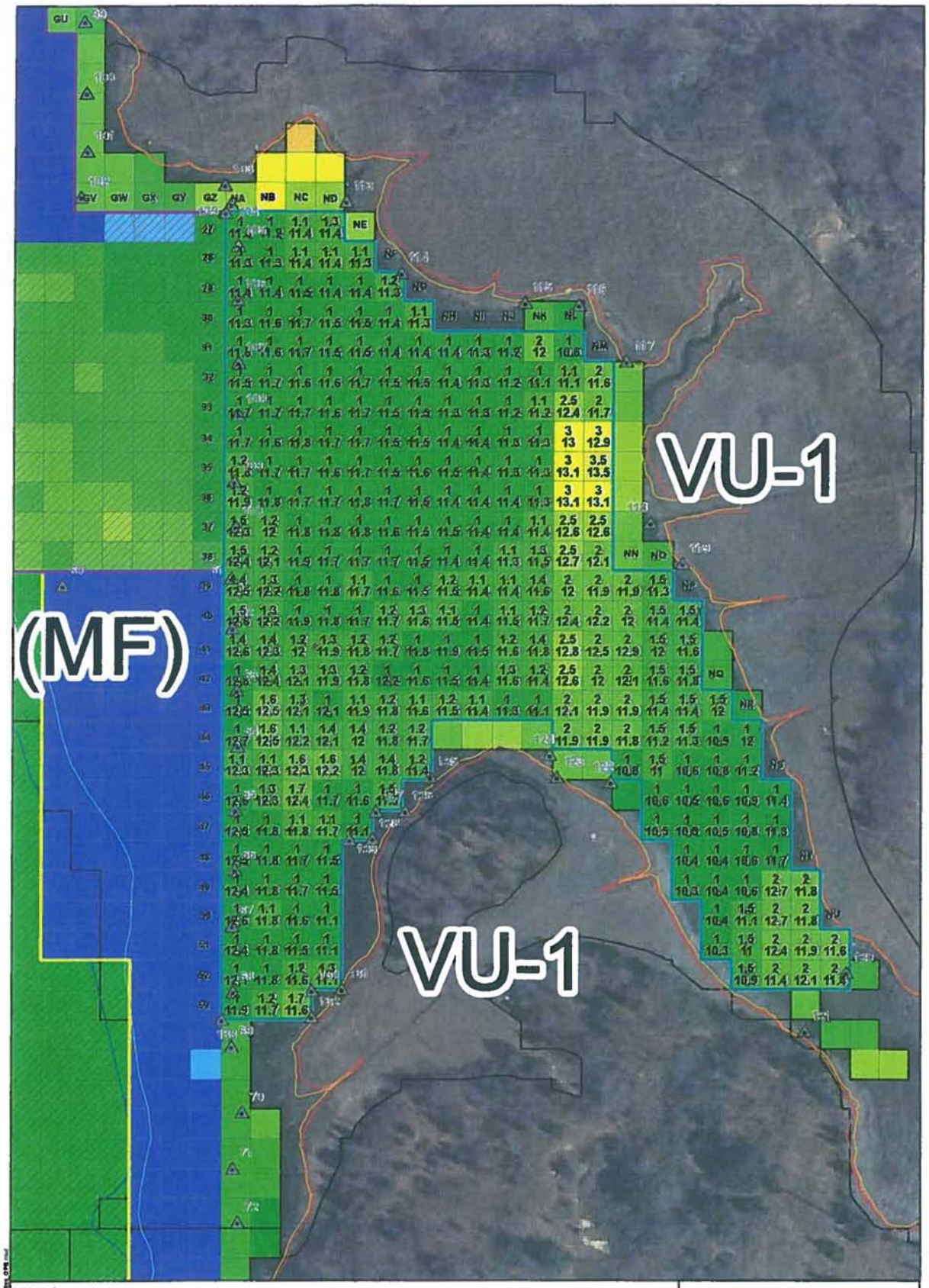
JACOBS

Project

New Bedford Harbor Superfund Site

NAME: crobeda DATE: 08/09/2010

Figure 1



Legend

ZBlocks

0.0		3.0 - 3.5	
0.0 - 0.5		3.5 - 4.0	
0.5 - 1.0		4.0 - 4.5	
1.0 - 1.5		4.5 - 5.0	
1.5 - 2.0		5.0 - 5.5	
2.0 - 2.5		5.5 - 6.0	
2.5 - 3.0		6.0 - 6.2	

2010 Dredge Area N

2010 Dredge Area G

2010 Dredge Area J

Sheet Pile Locations

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

MLLW

MLW

MHW

MHHW

0 37.5 75 Feet 1:900

N

JACOBS

2010 Area N Sheet Piles

New Bedford Harbor Superfund Site

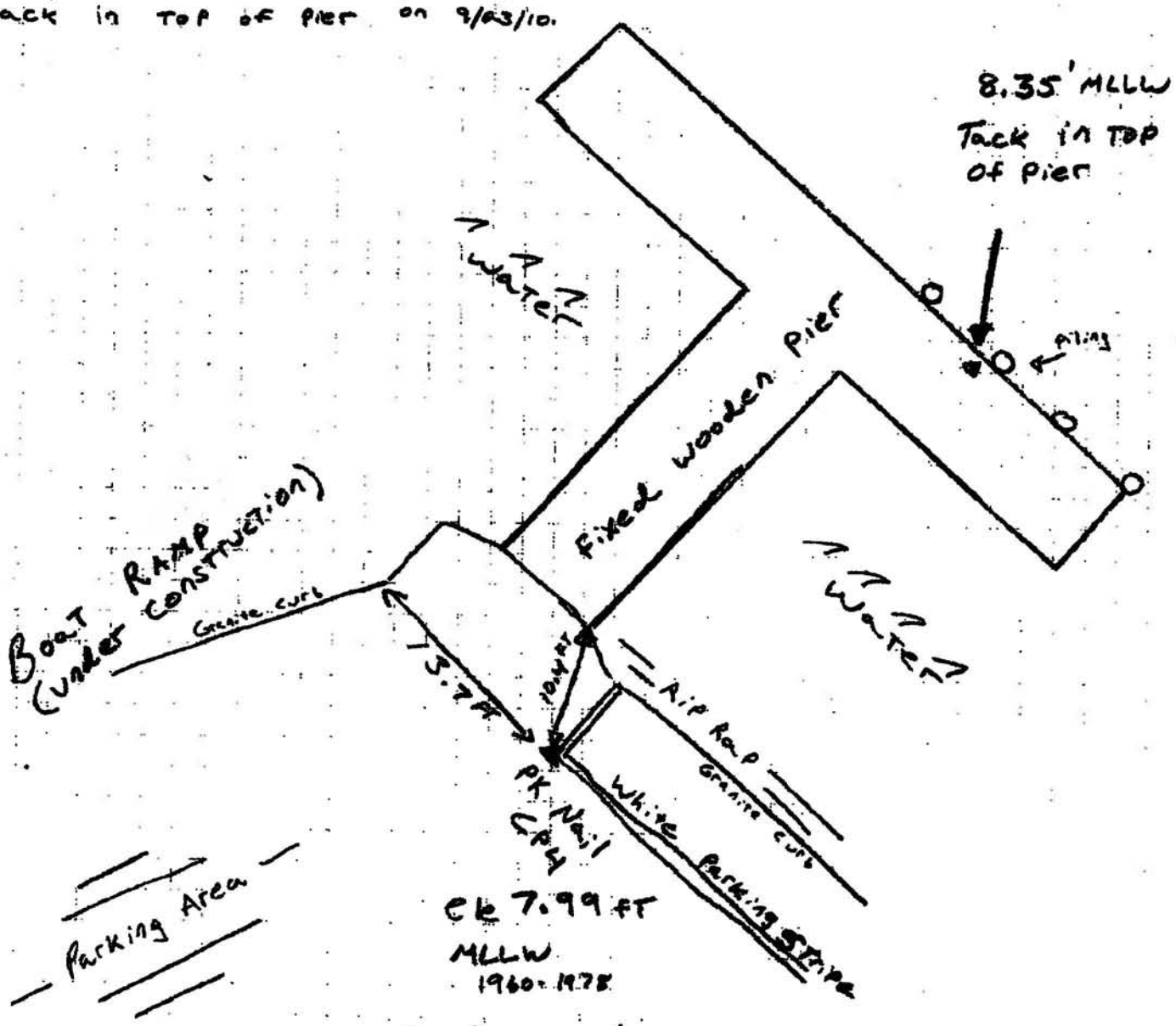
NAME: crobeck DATE: 07/07/2010

Figure 1

BATHYMETRIC SURVEY

TIDE Board Control Point for
OU #3 survey

NOTE:
elevation of CP4 used with laser level, rod, reciever + bubble level to carry and measure elevation of tack in top of pier on 9/23/10.



as Surveyed by
Coler + Colantonio

N
NOT TO Scale

10/12/10

COLER & COLANTONIO INC
ENGINEERS AND SCIENTISTS

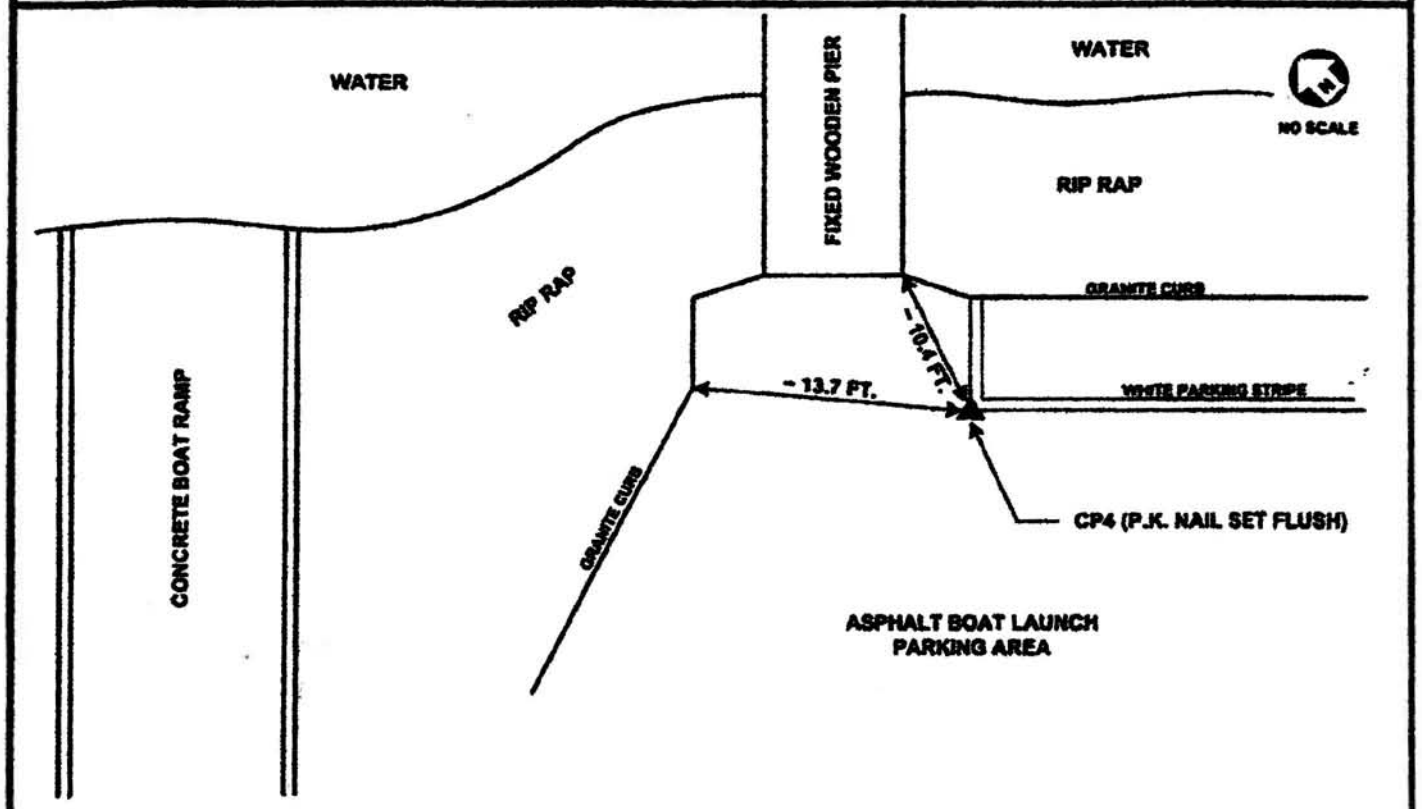
CONTROL POINT DATA SHEET

PROJECT INFORMATION

PROJECT NUMBER	PROJECT NAME	PROJECT LOCATION
2-00549.00	FAIRHAVEN DREDGE PROJECT	NEW BEDFORD, MA

DATE / DOY	STATION NAME	STATION LOCATION
2005 05 16 / 136	CP4	E. RODNEY FRENCH BOULEVARD PUBLIC BOAT RAMP

LOCATION SKETCH



NOTE: ALL DISTANCE TIES ARE APPROXIMATE AND PROVIDED FOR RECOVERY OF THE CONTROL POINT ONLY. LOCATION OF THE CONTROL POINT IS INDICATED BY THE ORANGE TRAFFIC CONE AS SHOWN IN THE PHOTOGRAPH BELOW.

STATION COORDINATES

NORTHING: 2,683,949.57 FT.

EASTING: 818,551.62 FT.

ELEVATION: 7.99 FT. MLLW = 6.55' NGVD29

HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE COORDINATE SYSTEM 1983 (MAINLAND ZONE - 2001)

VERTICAL DATUM: MEAN LOWER LOW WATER
TIDAL EPOCH: 1960 - 1978

COORDINATE SOURCE: STATIC GPS CONTROL SURVEY

OU#3 Cap Footprint	Area (Acres)
2010	20.31
2009	20.41
2007	20.76
2005	18.90

Legend

- 2010 Full Placement Area
- 2009 Full Placement Area
- 2007 Full Placement Area
- 2005 Full Placement Area
- OU#3 Intended Cap Area

0 75 150 Feet 1:1,800

N

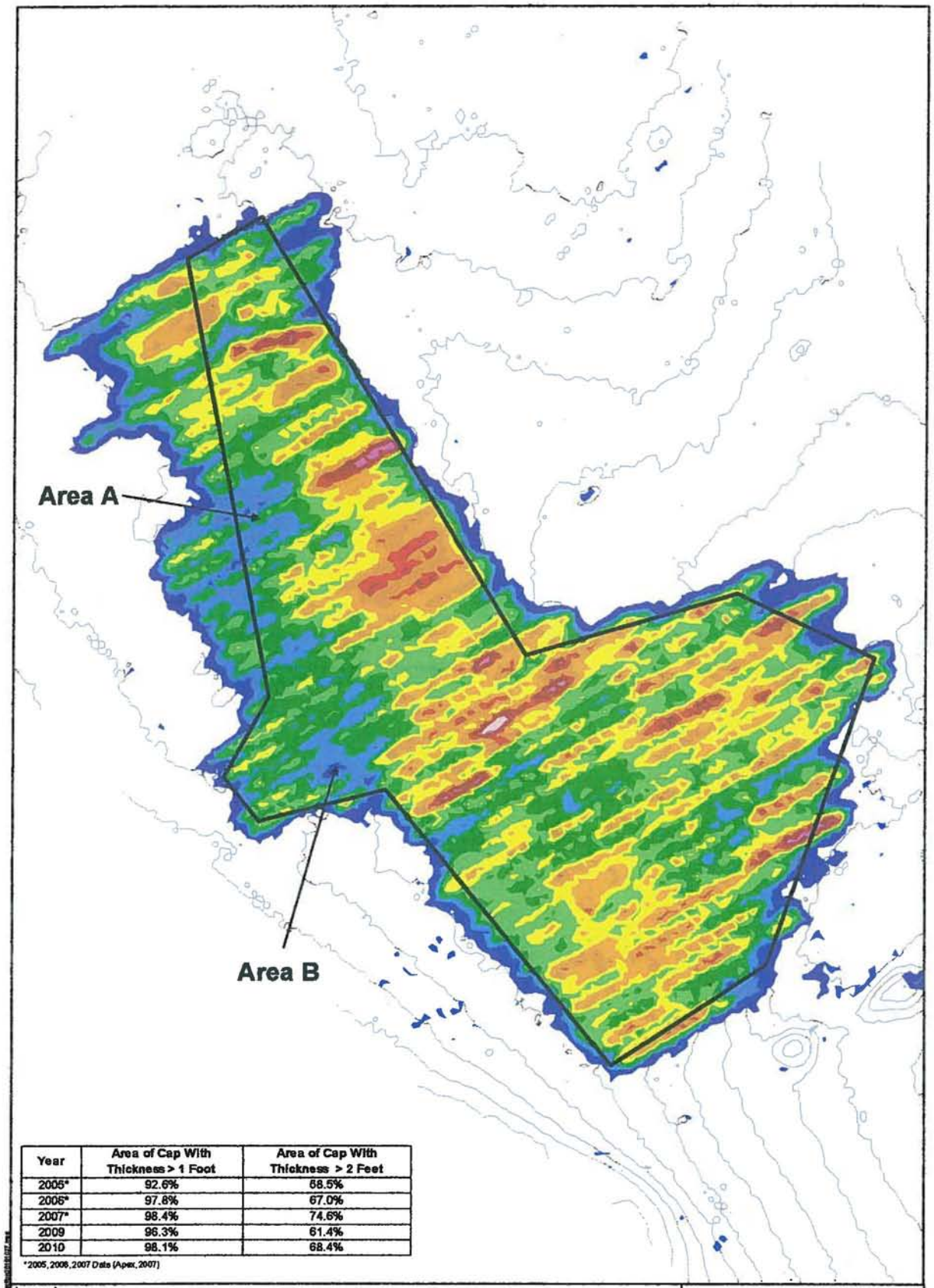
JACOBS

Cap Footprint Full Placement Area Comparisons

New Bedford Harbor Superfund Site

NAME: jpurdie DATE: 11/16/2010

Figure 2



Year	Area of Cap With Thickness > 1 Foot	Area of Cap With Thickness > 2 Feet
2005*	92.6%	68.5%
2006*	97.8%	67.0%
2007*	98.4%	74.6%
2009	96.3%	61.4%
2010	98.1%	68.4%

*2005, 2006, 2007 Data (Apex, 2007)

Legend

Pilot Underwater Cap Thickness, feet

- 5.5 - 6.4
- 5 - 5.5
- 4.5 - 5
- 4 - 4.5
- 3.5 - 4
- 3 - 3.5
- 2.5 - 3
- 2 - 2.5
- 1.5 - 2
- 1 - 1.5
- 0.5 - 1

Pilot Underwater Intended Cap Area

N

0 75 150 Feet 1:1,800

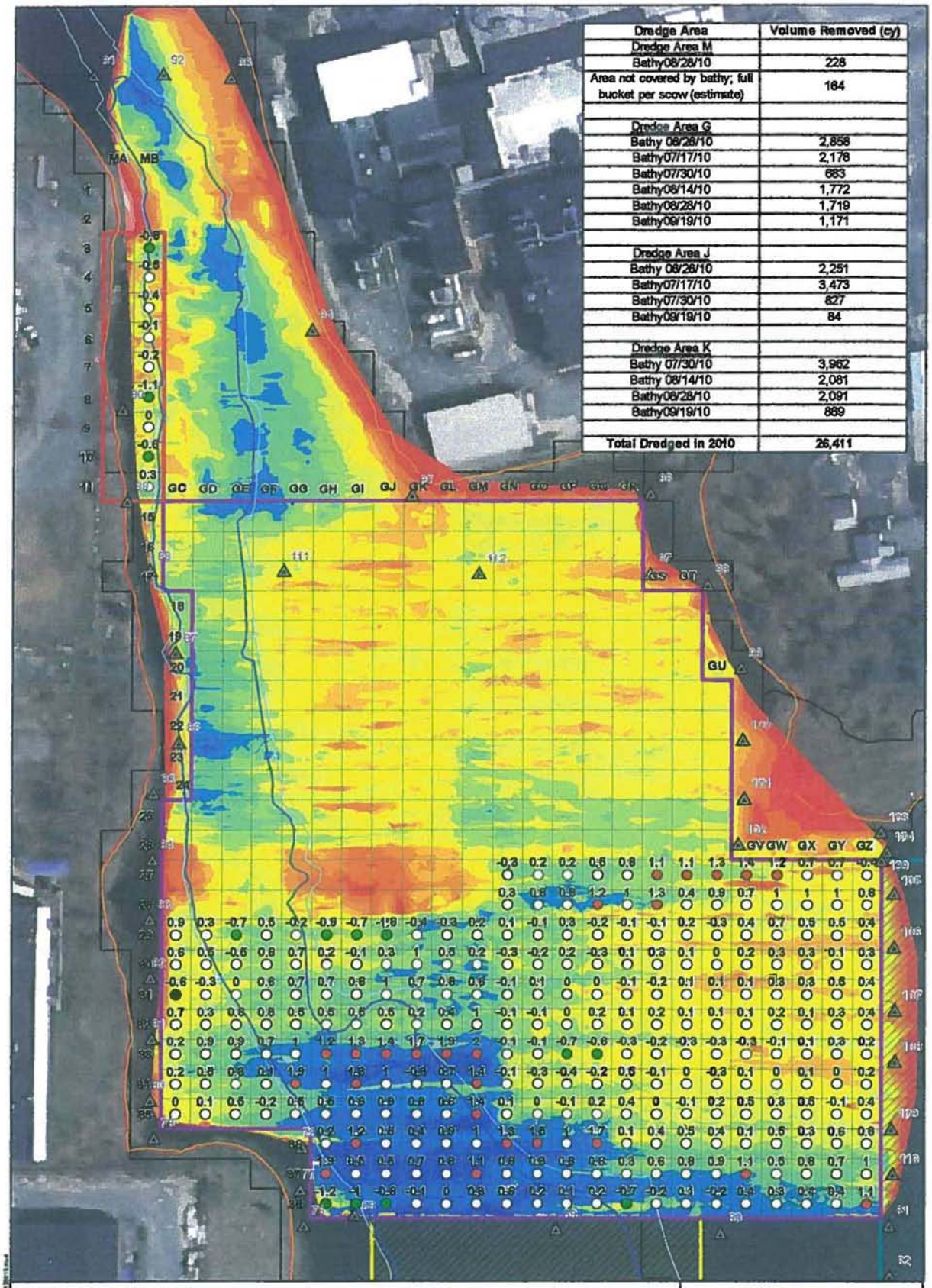
JACOBS

2010 OU#3 Cap Thickness

New Bedford Harbor Superfund Site

NAME: [illegible] DATE: [illegible]

Figure 3



Dredge Area	Volume Removed (cy)
Dredge Area M	
Bathy08/26/10	228
Area not covered by bathy; full bucket per scow (estimate)	164
Dredge Area G	
Bathy 08/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	663
Bathy08/14/10	1,772
Bathy08/28/10	1,719
Bathy09/19/10	1,171
Dredge Area J	
Bathy 08/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Bathy09/19/10	84
Dredge Area K	
Bathy 07/30/10	3,962
Bathy 08/14/10	2,081
Bathy08/28/10	2,091
Bathy09/19/10	869
Total Dredged in 2010	26,411

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 09/19/10
NGVD, Feet

-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.7 - -5

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

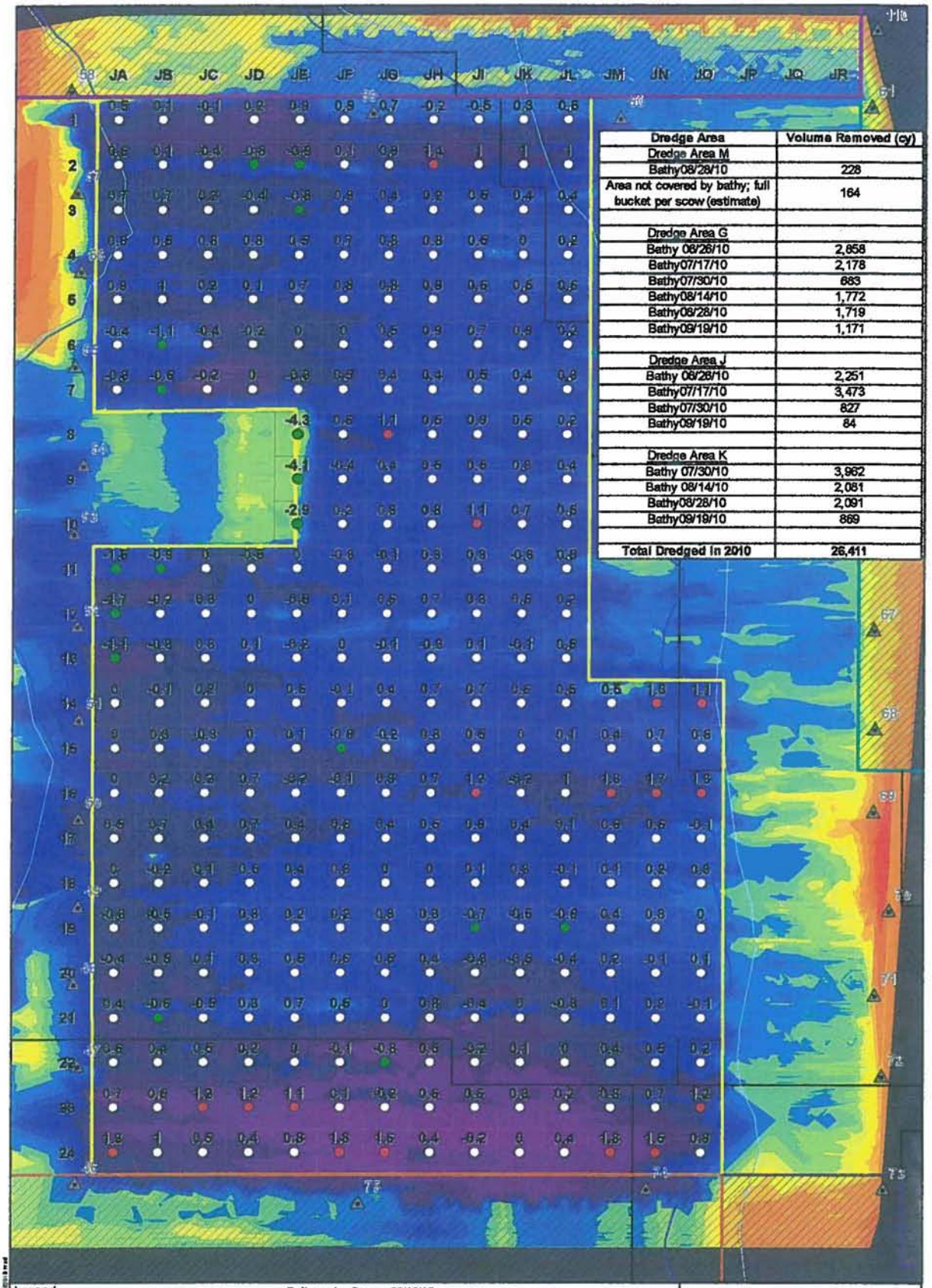
JACOBS

Dredge Tolerances Based on 09/19/10 Bathymetry Survey: Dredge Areas G & Dredge Area M

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 10/07/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area M	
Bathy08/28/10	228
Area not covered by bathy; full bucket per scow (estimate)	164
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Bathy08/14/10	1,772
Bathy08/28/10	1,719
Bathy09/19/10	1,171
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Bathy09/19/10	84
Dredge Area K	
Bathy 07/30/10	3,962
Bathy 08/14/10	2,081
Bathy08/28/10	2,091
Bathy09/19/10	869
Total Dredged in 2010	26,411

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 09/19/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-9 - -8.5
-9.2 - -9
-9.2

MLLW
MLW
MHW
MHHW

Dredge Area J

0 25 50
Feet 1:600

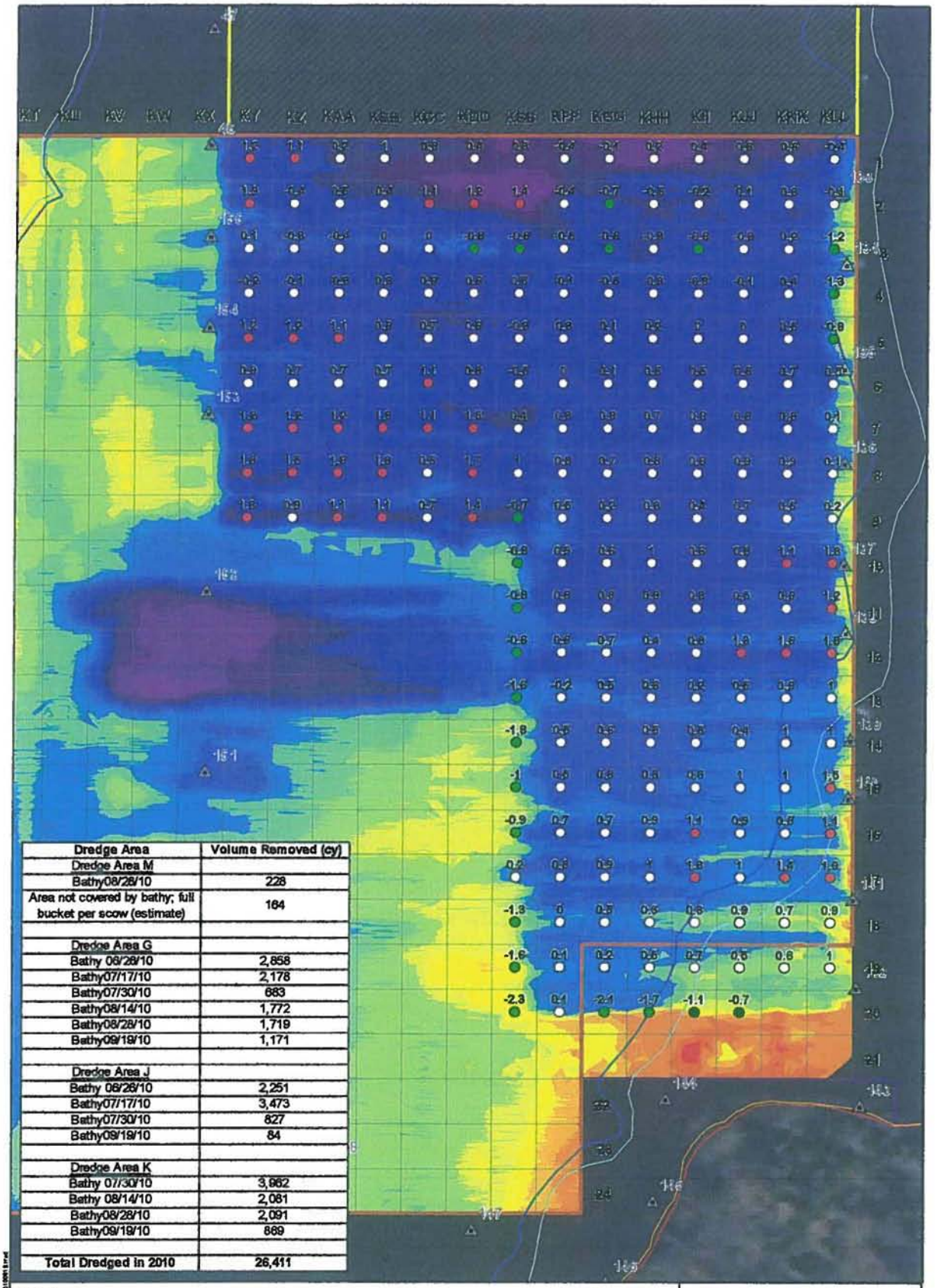
N

JACOBS

Dredge Tolerances Based on 09/19/10 Bathymetry Survey: Dredge Area J

New Bedford Harbor Superfund Site

Figure 2



Dredge Area	Volume Removed (cy)
Dredge Area M	
Bathy08/28/10	228
Area not covered by bathy; full bucket per scow (estimate)	164
Dredge Area G	
Bathy 06/28/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Bathy08/14/10	1,772
Bathy08/28/10	1,719
Bathy09/19/10	1,171
Dredge Area J	
Bathy 06/28/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Bathy09/19/10	84
Dredge Area K	
Bathy 07/30/10	3,862
Bathy 08/14/10	2,061
Bathy08/28/10	2,091
Bathy09/19/10	869
Total Dredged in 2010	26,411

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 09/19/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-9 - -8.5
-9.2 - -9
-9.2

Dredge Area K

N

0 25 50 Feet 1:600

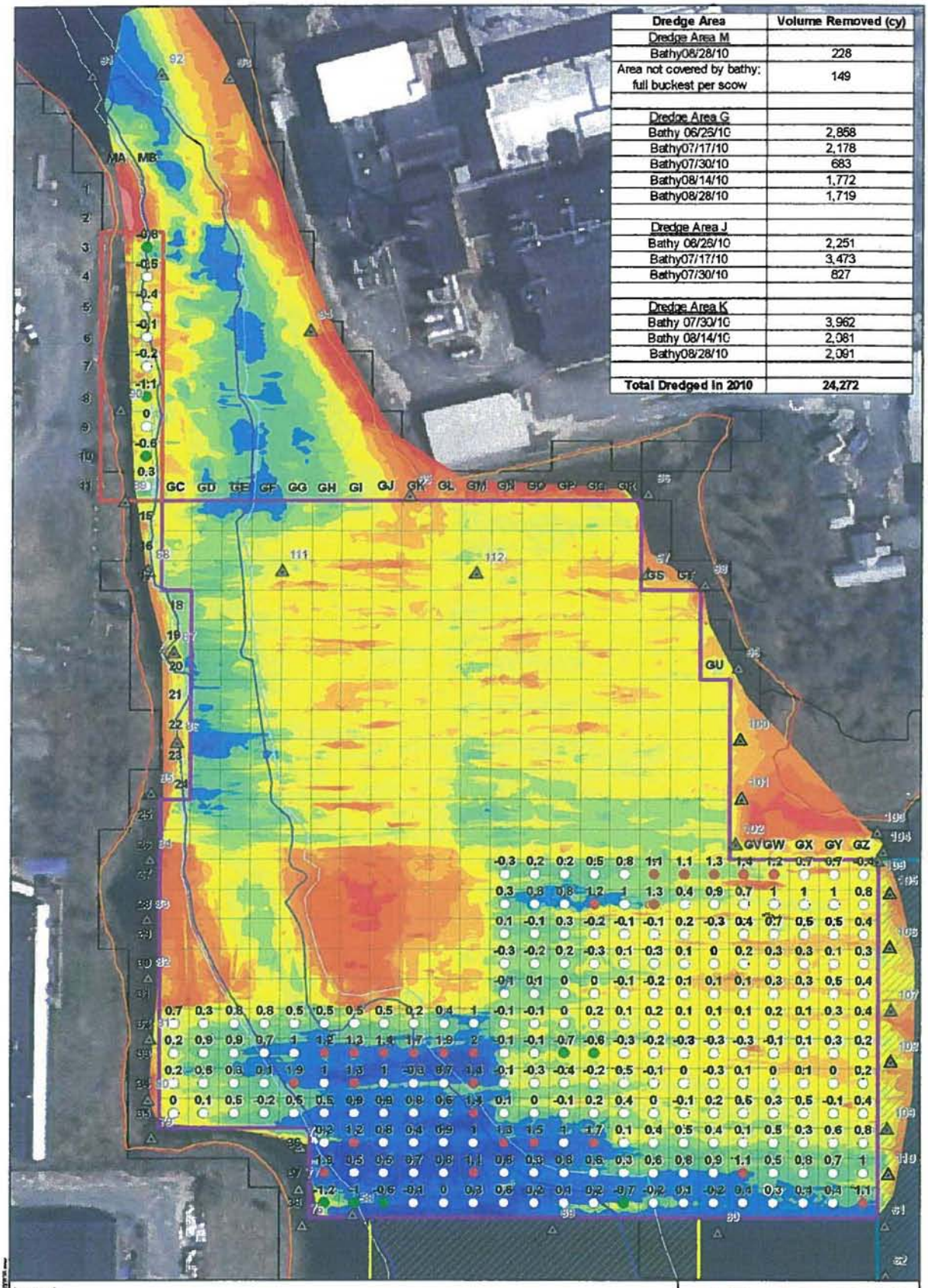
JACOBS

Dredge Tolerances Based on 09/19/10 Bathymetry Survey: Dredge Areas K

New Bedford Harbor Superfund Site

NAME: crobertn DATE: 10/07/2010

Figure 3



Dredge Area	Volume Removed (cy)
Dredge Area M	
Bathy08/28/10	228
Area not covered by bathy; full buckest per scow	149
Dredge Area G	
Bathy 06/25/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Bathy08/14/10	1,772
Bathy08/28/10	1,719
Dredge Area J	
Bathy 06/25/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Bathy 08/14/10	2,081
Bathy08/28/10	2,091
Total Dredged in 2010	**24,272**

Legend

Z Block Tolerance:
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 08/28/10
NGVD, Feet

-0.5 - 0	-3.5 - -3
-1 - -0.5	-4 - -3.5
-1.5 - -1	-4.5 - -4
-2 - -1.5	-5 - -4.5
-2.5 - -2	-5.7 - -5
-3 - -2.5	

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

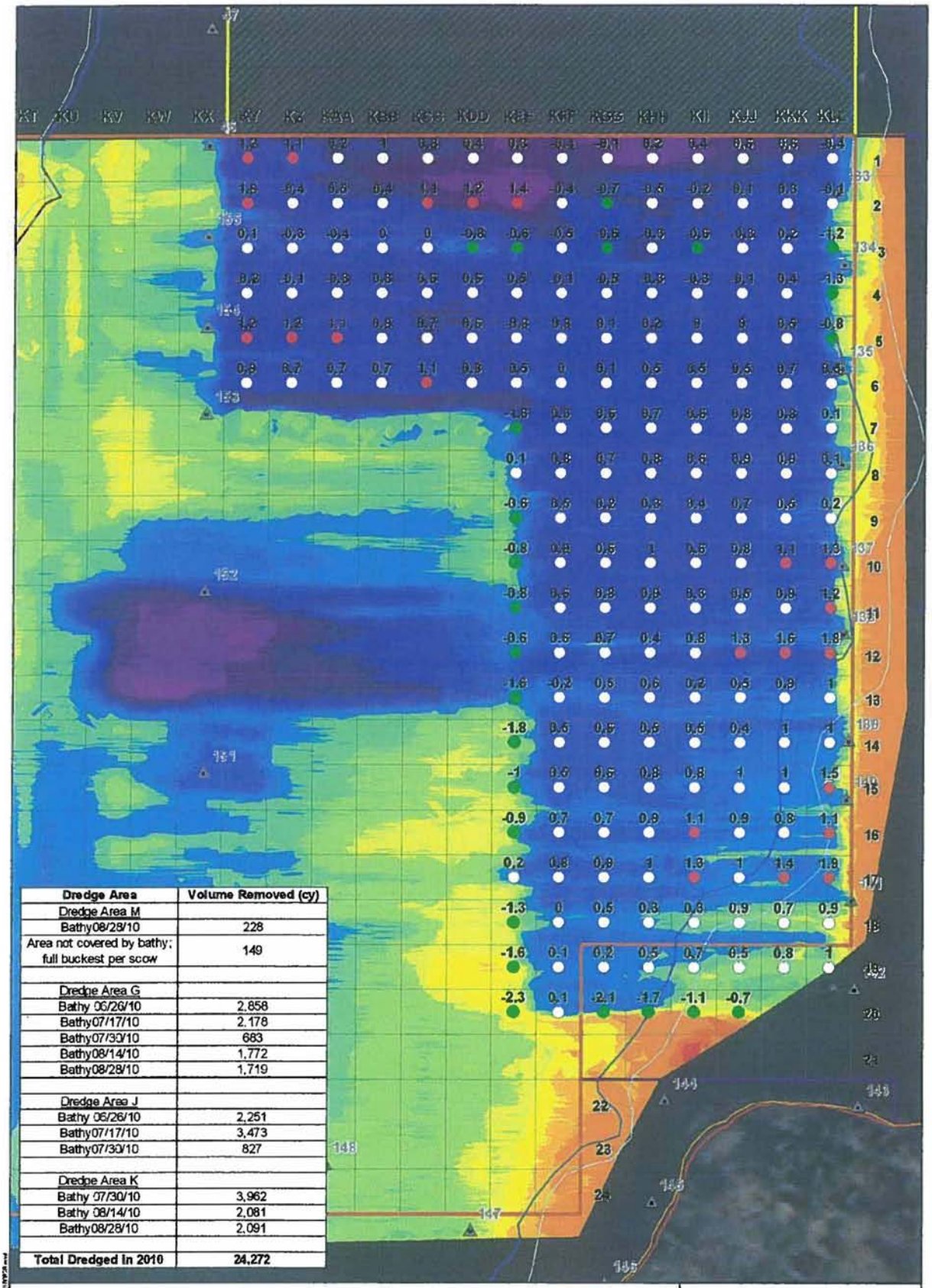
JACOBS

Dredge Tolerances Based on 08/28/10 Bathymetry Survey: Dredge Areas G & Dredge Area M

New Bedford Harbor Superfund Site

NAME: crobeds DATE: 08/30/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area M	
Bathy08/28/10	228
Area not covered by bathy; full buckest per scow	149
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Bathy08/14/10	1,772
Bathy08/28/10	1,719
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Bathy 08/14/10	2,081
Bathy08/28/10	2,091
Total Dredged in 2010	**24,272**

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 08/28/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-9 - -8.5
-9.2 - -9
-9.2

Dredge Area K

N

0 25 50 Feet 1:600

JACOBS

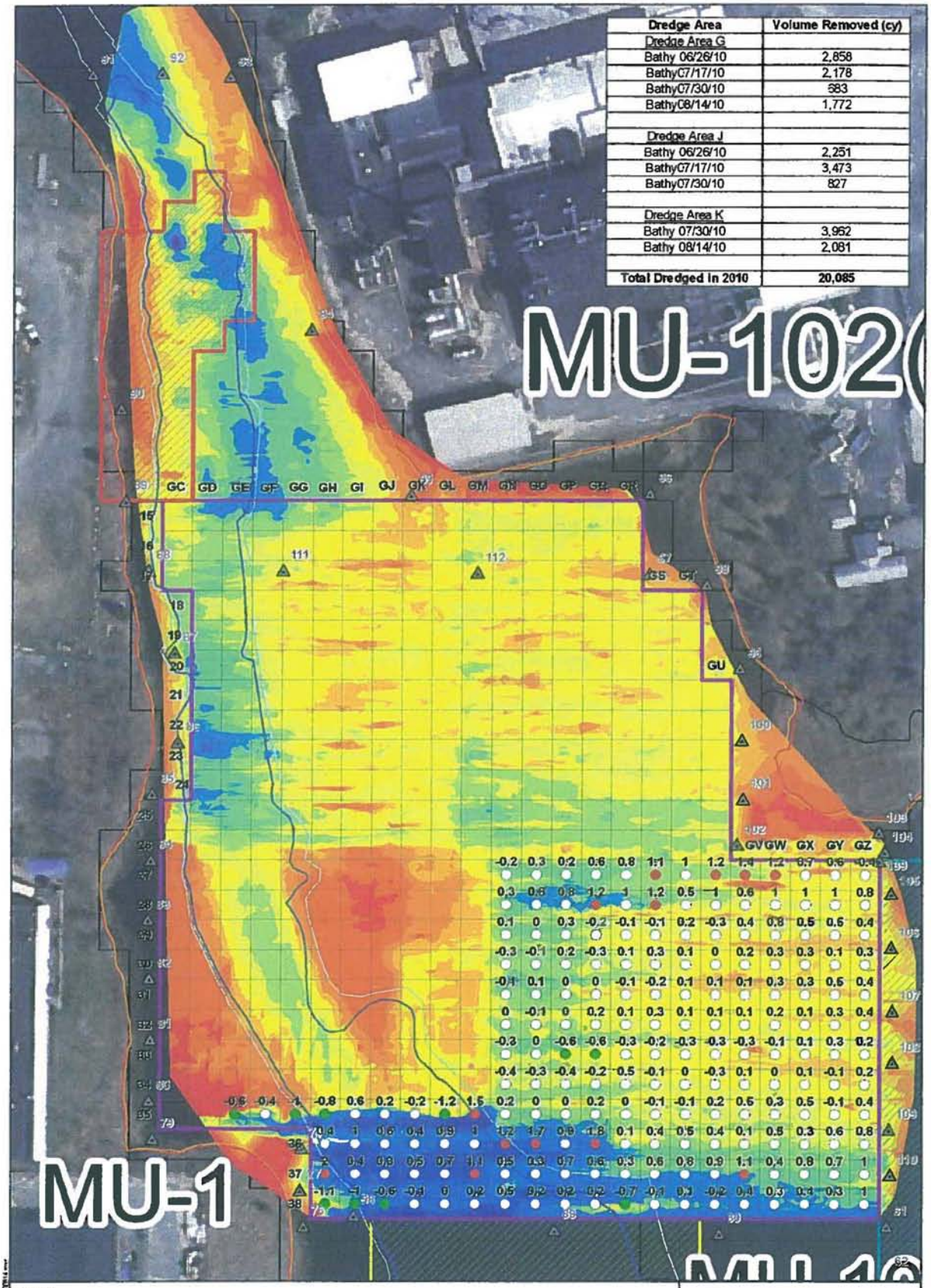
Dredge Tolerances Based on 08/28/10 Bathymetry Survey: Dredge Areas K

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/30/2010

Figure 2

Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
BathyC7/17/10	2,178
BathyC7/30/10	583
BathyC8/14/10	1,772
Dredge Area J	
Bathy 06/26/10	2,251
BathyC7/17/10	3,473
BathyC7/30/10	827
Dredge Area K	
Bathy 07/30/10	3,952
Bathy 08/14/10	2,081
Total Dredged in 2010	**20,085**



Legend

Z Block Tolerance:
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 08/14/10
NGVD, Feet

-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.7 - -5

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

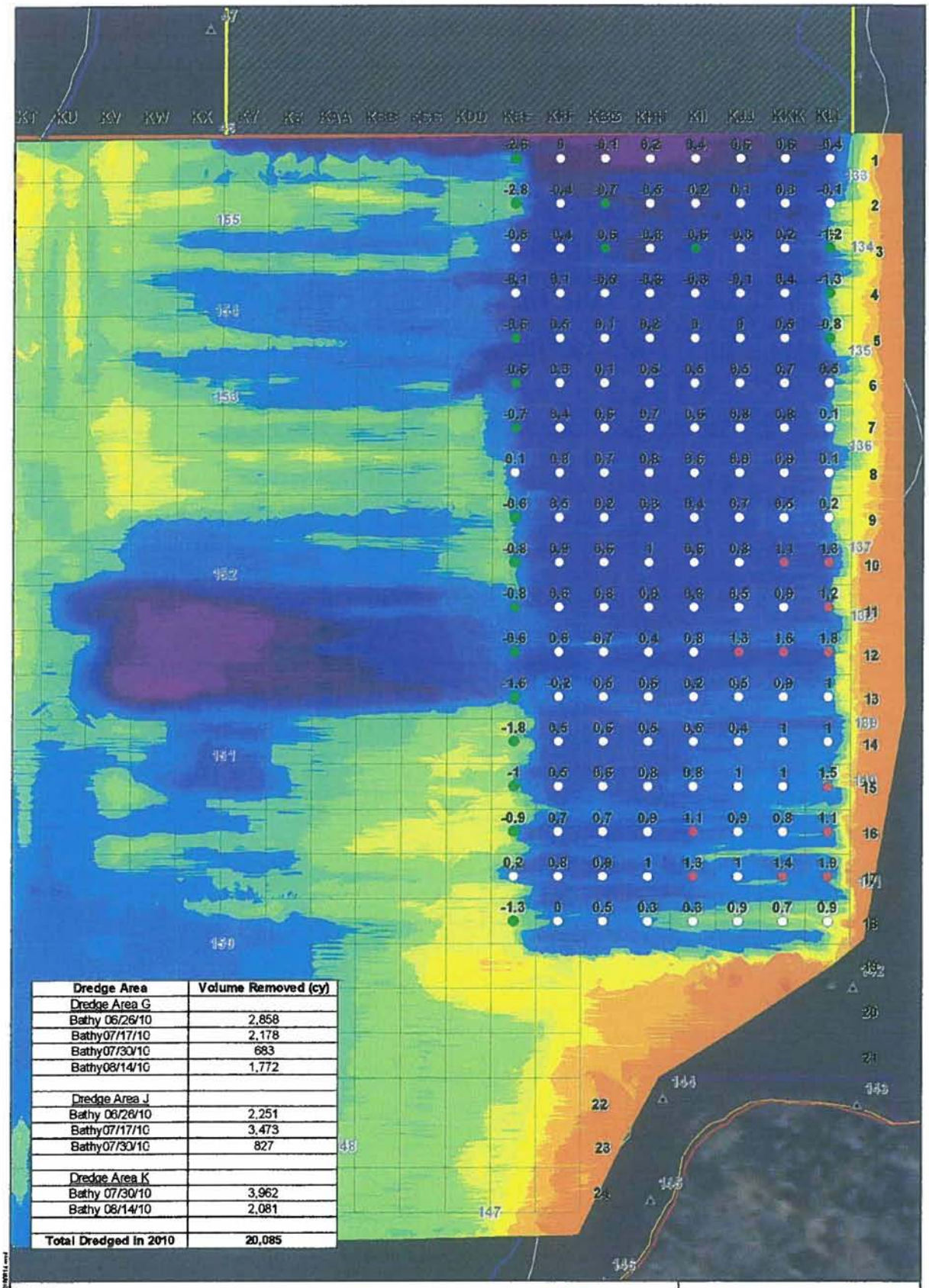
JACOBS

Dredge Tolerances Based on 08/14/10 Bathymetry Survey: Dredge Areas G

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/18/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Bathy08/14/10	1,772
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Bathy 08/14/10	2,081
Total Dredged in 2010	**20,085**

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 08/14/10
NGVD, Feet

0 - 0.5 | -0.5 - 0 | -1 - -0.5 | -1.5 - -1 | -2 - -1.5 | -2.5 - -2 | -3 - -2.5 | -3.5 - -3 | -4 - -3.5 | -4.5 - -4 | -5 - -4.5 | -5.5 - -5 | -6 - -5.5 | -6.5 - -6 | -7 - -6.5 | -7.5 - -7 | -8 - -7.5 | -8.5 - -8 | -9 - -8.5 | -9.5 - -9 | -9.5

Dredge Area K

N

0 25 50 Feet 1:600

JACOBS

Dredge Tolerances Based on 08/14/10 Bathymetry Survey: Dredge Areas K

New Bedford Harbor Superfund Site

NAME: cobarb DATE: 09/16/2010

Figure 3

Legend

2010 Dredge Area M Volume = 459 cy

Barge Location 07/27/10

ZBlocks

0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
5.5 - 6.0
6.0 - 6.2

2010 Dredge Grid Blocks

1 — Feet of sediment to remove

15.1 — SES Rod Elevations in feet (based on a laser level height of 9.3' ; NGVD 29 - ft)

MLLW
MLW
MHW
MHHW

0 12.5 25 Feet 1:300

N

JACOBS

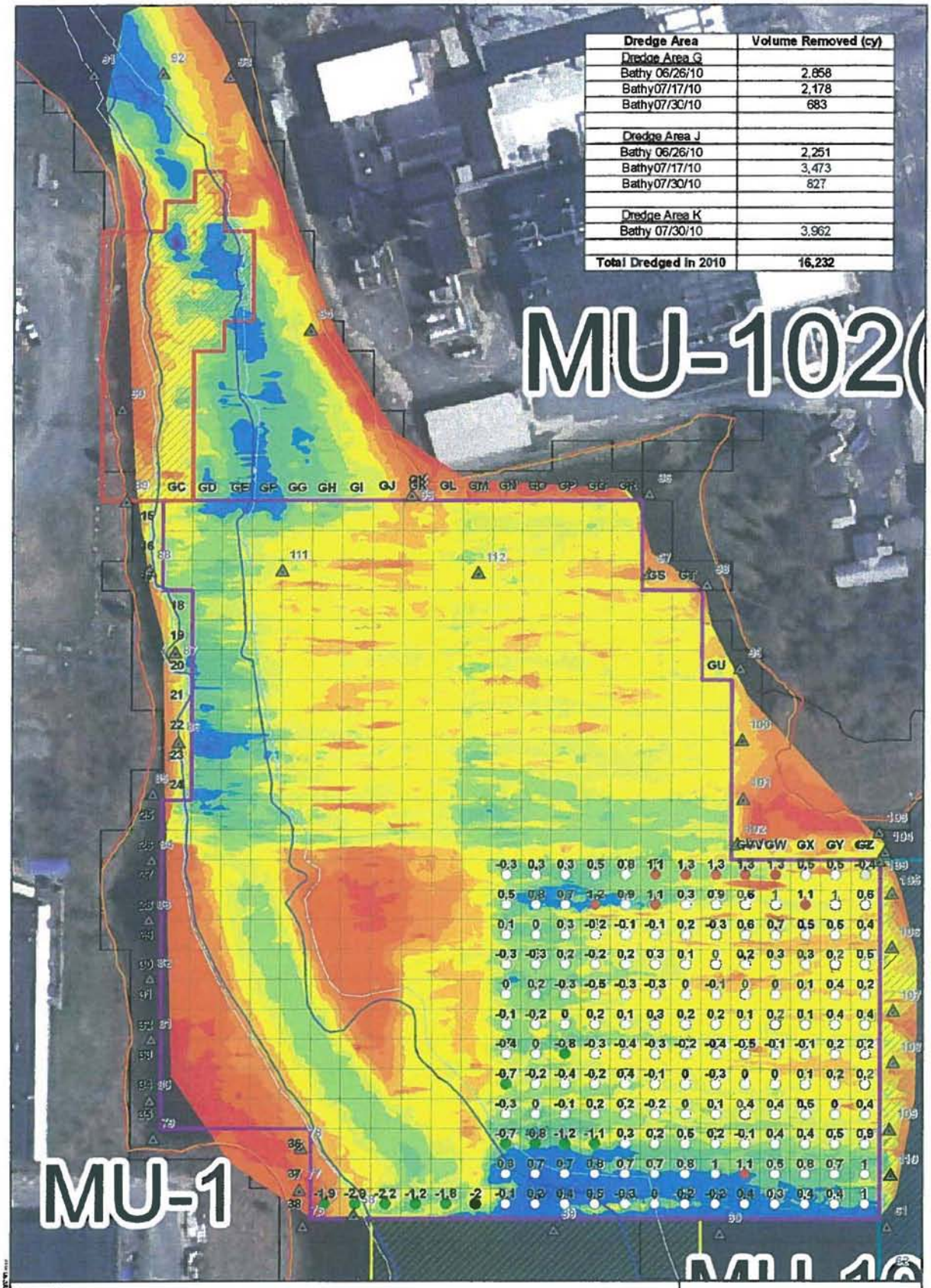
Area M Dredge Plan with SES Rod Readings and Barge Location

New Bedford Harbor Superfund Site

NAME: crobeck DATE: 07/27/2010

Figure 1

Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Total Dredged in 2010	**16,232**



Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 07/30/10
NGVD, Feet

-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.7 - -5

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

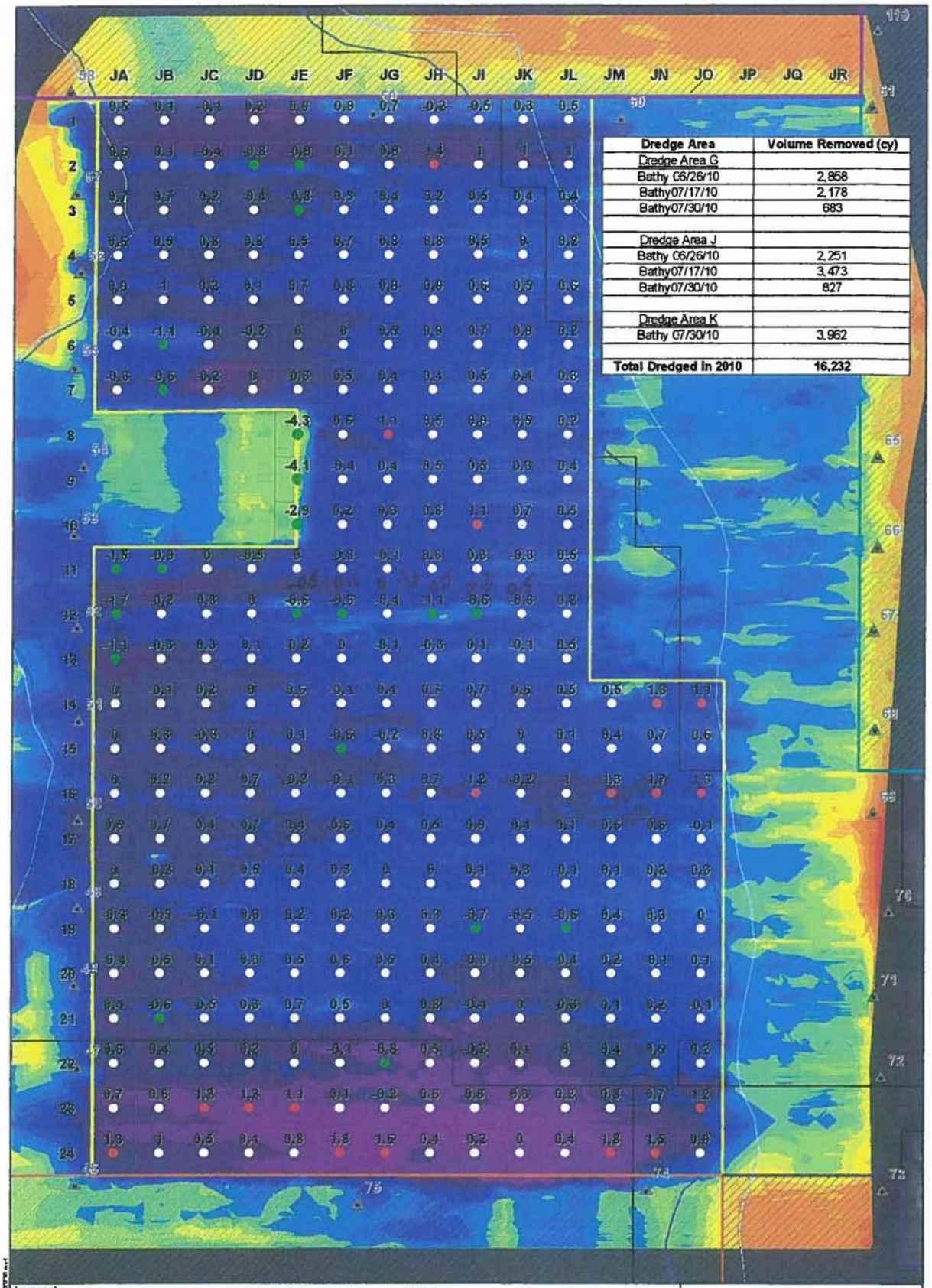
JACOBS

Dredge Tolerances Based on 07/30/10 Bathymetry Survey: Dredge Areas G

New Bedford Harbor Superfund Site

NAME: crobeck DATE: 08/02/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Total Dredged in 2010	**16,232**

Legend

Z Block Tolerance:
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')

2010 Sheet Pile Locations

Bathymetry Survey 07/30/10
NGVD, Feet

0-0.5 | -0.5-0 | -1-0.5 | -1.5-1 | -2-1.5 | 2.5-2 | -3-2.5 | -3.5-3 | -4-3.5 | -4.5-4 | -5-4.5 | -5.5-5 | -6-5.5 | -6.5-6 | -7-6.5 | -7.5-7 | -8-7.5 | -8.5-8 | -9-8.5 | -9.2-9 | -9.2

MLLW
MLW
MHW
MHHW

Dredge Area J

0 25 50 Feet 1:600

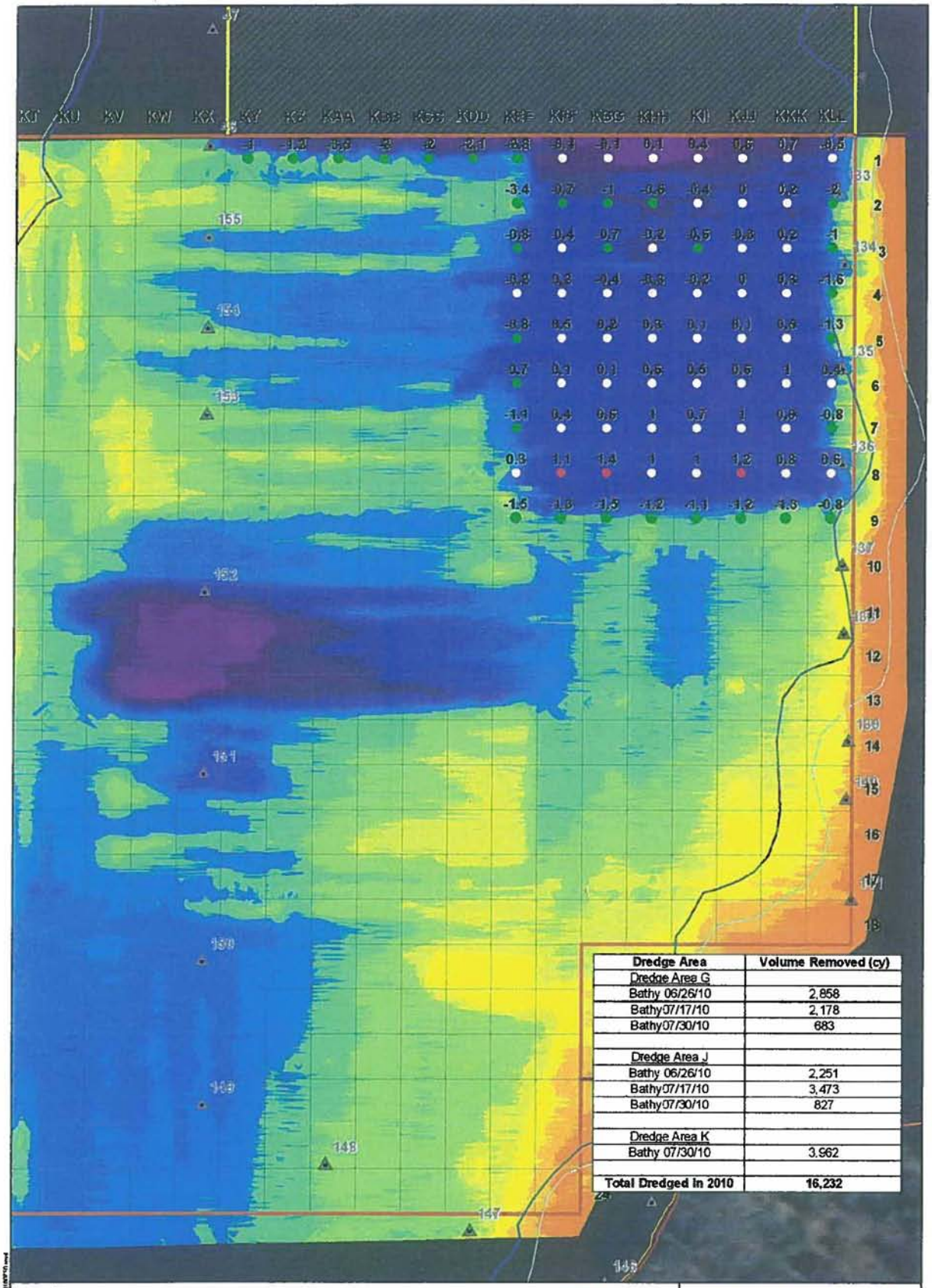
JACOBS

Dredge Tolerances Based on 07/30/10 Bathymetry Survey: Dredge Area J

New Bedford Harbor Superfund Site

NAME: cobbs DATE: 07/00/2010

Figure 2



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Bathy07/30/10	683
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Bathy07/30/10	827
Dredge Area K	
Bathy 07/30/10	3,962
Total Dredged in 2010	**16,232**

Legend

Z Block Tolerance:
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 07/30/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-9 - -8.5
-9.5 - -9
-9.5

Dredge Area K

N

0 25 50 Feet 1:600

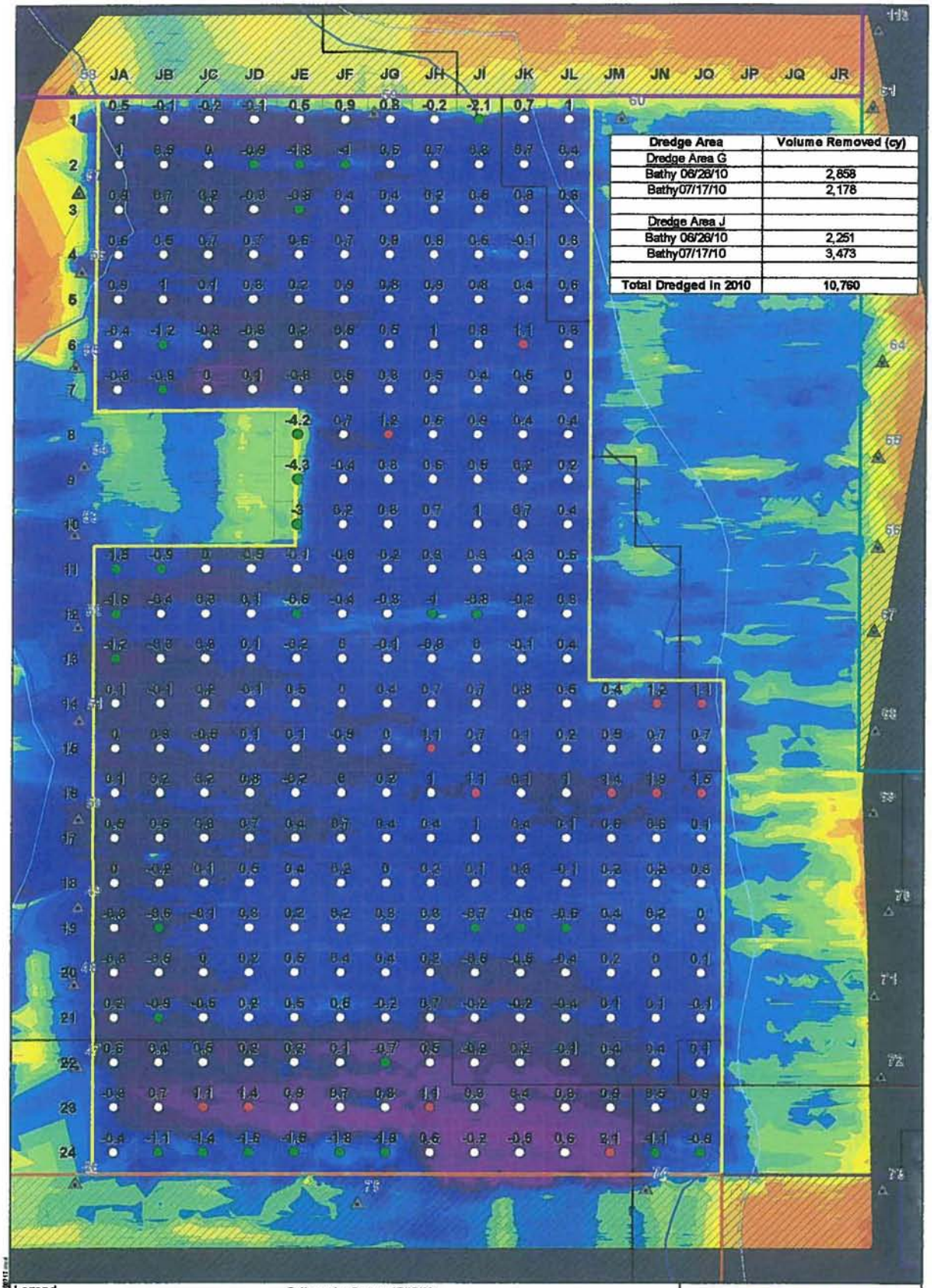
JACOBS

Dredge Tolerances Based on 07/30/10 Bathymetry Survey: Dredge Areas K

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/03/2010

Figure 3



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Total Dredged in 2010	10,760

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 07/17/10
NGVD, Feet

0 - 0.5; -0.5 - 0; -1 - -0.5; -1.5 - -1; -2 - -1.5; -2.5 - -2; -3 - -2.5; -3.5 - -3; -4 - -3.5; -4.5 - -4; -5 - -4.5; -5.5 - -5; -6 - -5.5; -6.5 - -6; -7 - -6.5; -7.5 - -7; -8 - -7.5; -8.5 - -8; -9 - -8.5; -9.2 - -9; -9.2

MLLW
MLW
MHW
MHHW

Dredge Area J

N

0 25 50 Feet 1:600

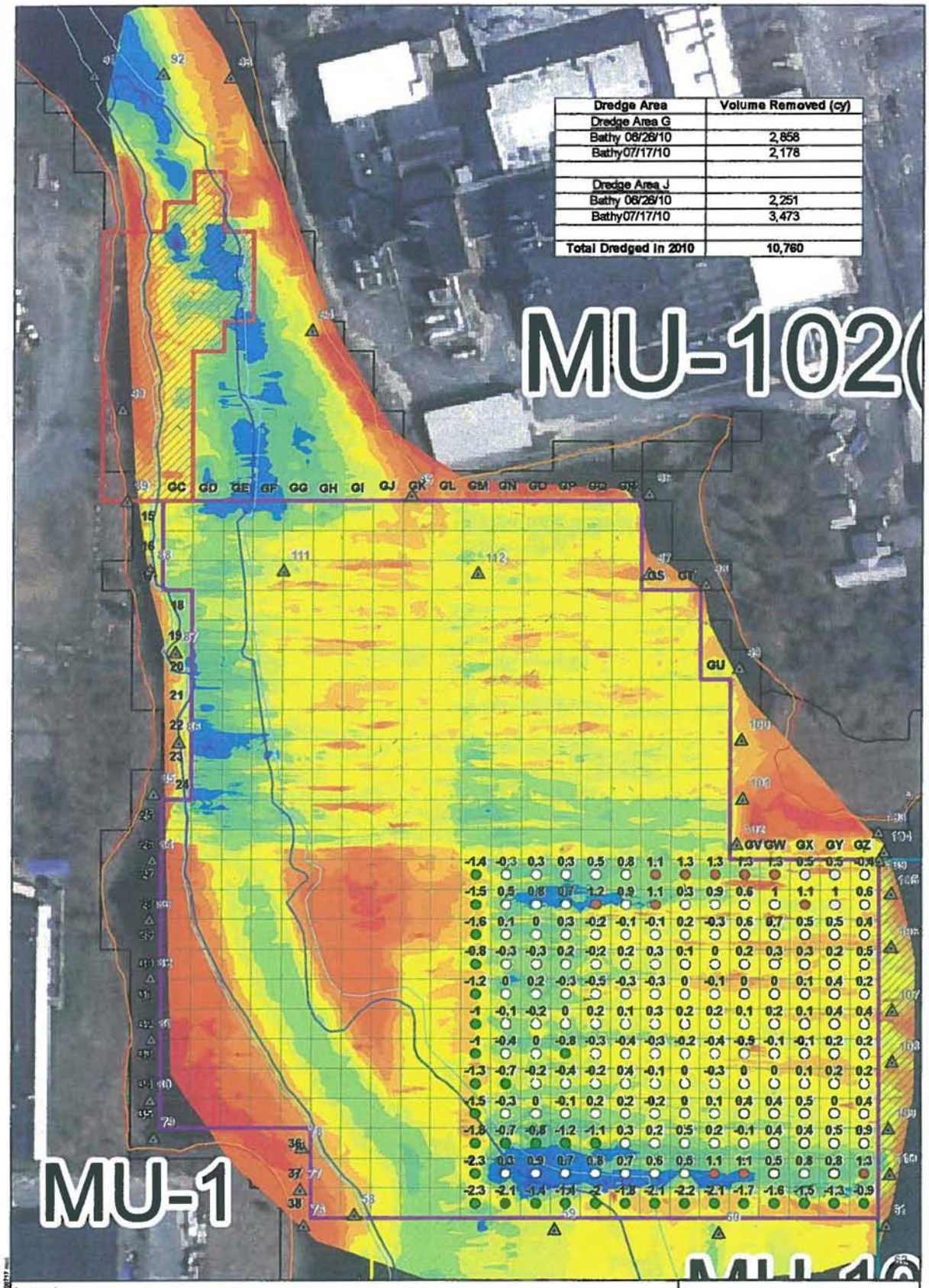
JACOBS

Dredge Tolerances Based on 07/17/10 Bathymetry Survey: Dredge Area J

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 07/19/2010

Figure 2



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Bathy07/17/10	2,178
Dredge Area J	
Bathy 06/26/10	2,251
Bathy07/17/10	3,473
Total Dredged in 2010	10,760

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 07/17/10
NGVD, Feet

-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.7 - -5

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

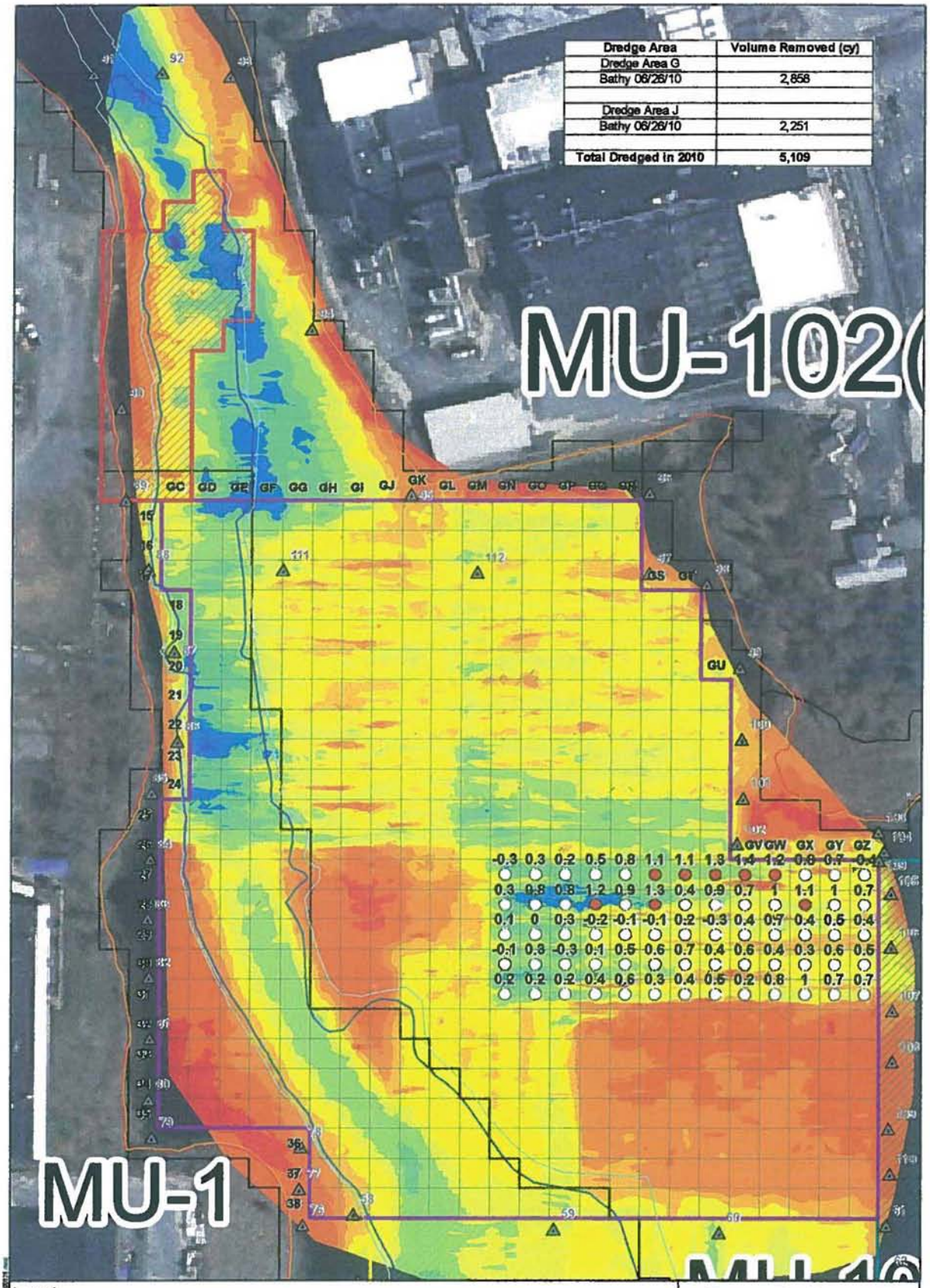
JACOBS

Dredge Tolerances Based on 07/17/10 Bathymetry Survey: Dredge Areas G

New Bedford Harbor Superfund Site

NAME: crobarts DATE: 07/19/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Dredge Area J	
Bathy 06/26/10	2,251
Total Dredged in 2010	5,109

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')
- 2010 Sheet Pile Locations

Bathymetry Survey 06/26/10
NGVD, Feet

-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.7 - -5

MLLW
MLW
MHW
MHHW

0 37.5 75 Feet 1:900

N

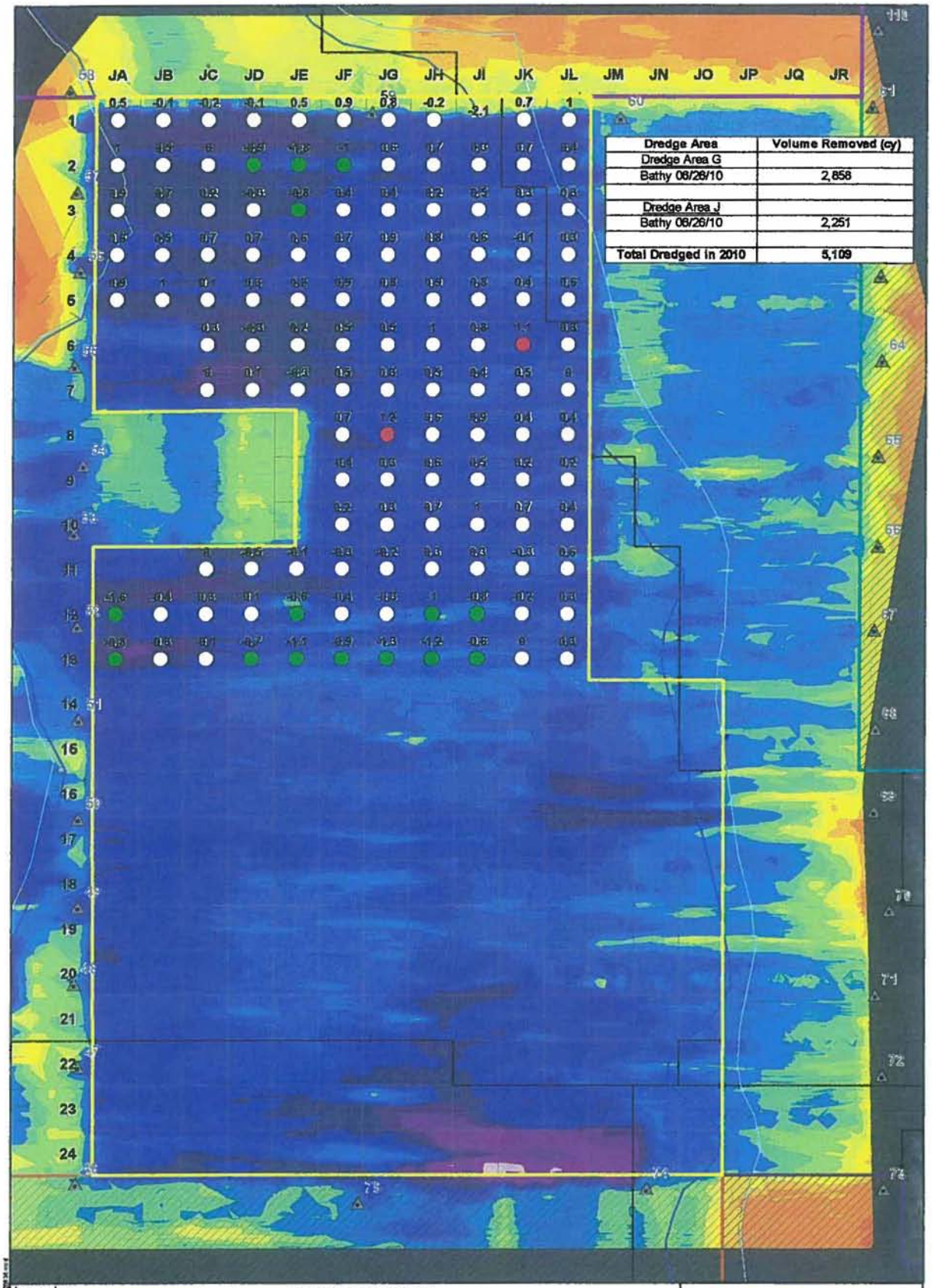
JACOBS

Dredge Tolerances Based on 06/26/10 Bathymetry Survey: Dredge Areas G

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 09/28/2010

Figure 1



Dredge Area	Volume Removed (cy)
Dredge Area G	
Bathy 06/26/10	2,858
Dredge Area J	
Bathy 06/26/10	2,251
Total Dredged in 2010	5,109

Legend

Z Block Tolerance;
Labeled with feet from target elevation
(Target Elevation - Bathy Elevation)

- Under Dredged (target depth plus 0.5')
- Dredged Area that is Compliant with Dredge Plan
- Over Dredged (target depth minus 1.0')

2010 Sheet Pile Locations

Bathymetry Survey 06/26/10
NGVD, Feet

0 - 0.5
-0.5 - 0
-1 - -0.5
-1.5 - -1
-2 - -1.5
-2.5 - -2
-3 - -2.5
-3.5 - -3
-4 - -3.5
-4.5 - -4
-5 - -4.5
-5.5 - -5
-6 - -5.5
-6.5 - -6
-7 - -6.5
-7.5 - -7
-8 - -7.5
-8.5 - -8
-8 - -8.5
-8.2 - -8
-9.2

MLLW
MLW
MHW
MHHW

Dredge Area J

0 25 50 Feet 1:600

N

JACOBS

Dredge Tolerances Based on 06/26/10 Bathymetry Survey: Dredge Area J

New Bedford Harbor Superfund Site

NAME: crobers DATE: 06/28/2010

Figure 2

DAILY DREDGE

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 9/9/10
DREDGE ENGINEER(S): Max Friedman

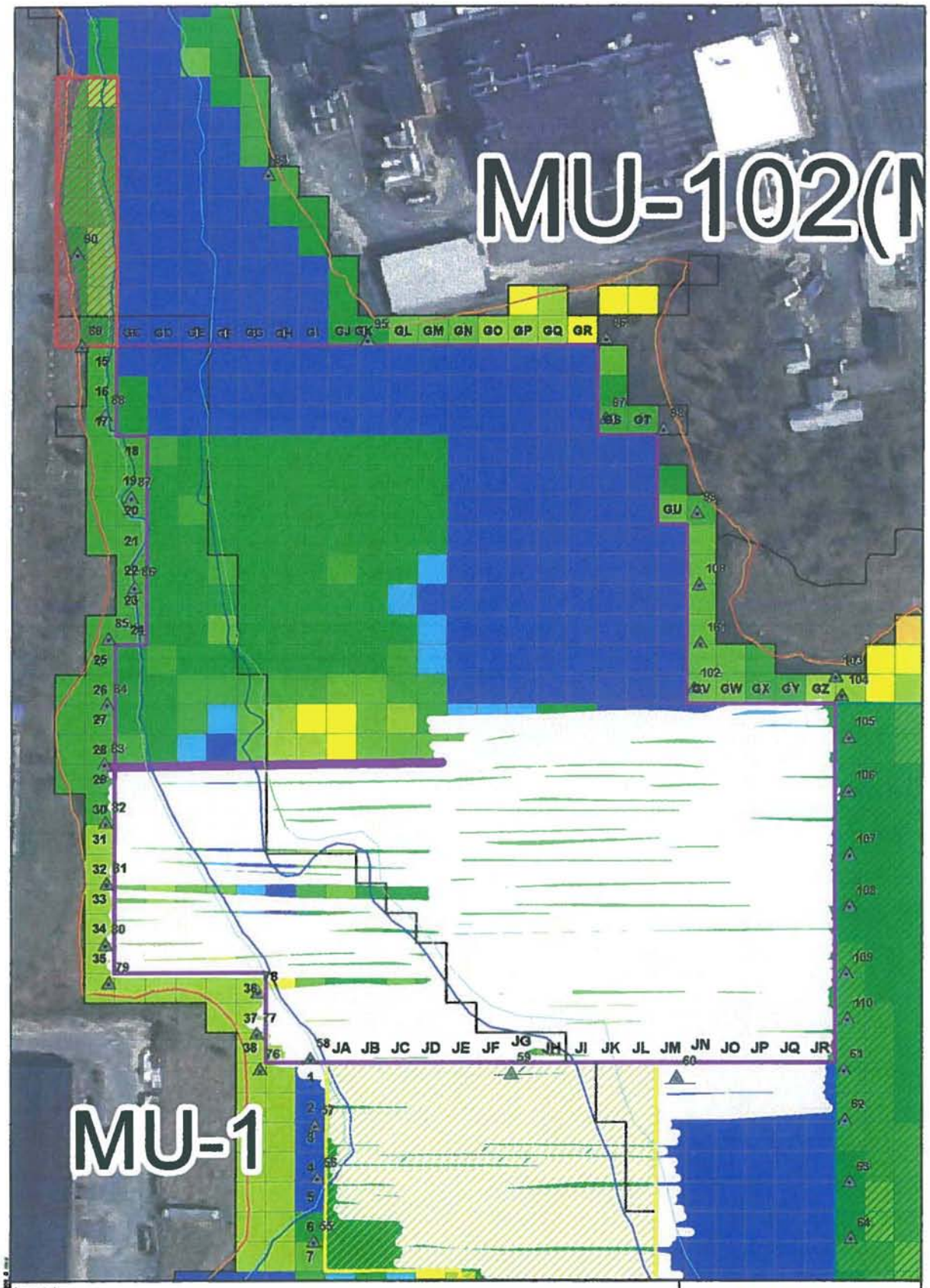
	PASSES; 0 COLUMN; 0 GM28S GC28S	PASSES; 0 COLUMN; 0 GM28SC GC28SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.9					
GL	2.3					
GK	2.2					
GJ	2.6	N/C				
GI	2.6					
GH	2.3					
GG	2.0					
GF	0.5					
GE	0.5					
GD	1.0					
GC	1.2					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 9/9/10
DREDGE ENGINEER(S): Marc Friedman

	PASSES; COLUMN; 0 KEE9N KY9N	PASSES; COLUMN; 0 KEE9NC KY9NC	PASSES; COLUMN; 0 KEE9SC KY9SC	PASSES; 0 COLUMN; 0 KEE9S KY9S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	2.2	2.2	2.2			
KDD	1.0	1.0	1.0	N/C		
KCC	1.0	1.0	1.0			
KBB	1.0	1.0	1.0			
KAA	1.0	1.0	1.0			
KZ	1.0	1.0	1.0			
KY	1.0	1.0	1.0			

NOTES:



Legend

8 foot buffer represending area of cut for 09/09/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

09/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 09/09/2010

09/09/10-G

Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 09/09/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

09/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cnobels DATE: 09/09/2010

09/09/10-K

9/9/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM28S	GC28S	276	6	1.7	2815.2	240
KEE9N	KY9N	169	6	1.2	1216.8	
KEE9NC	KY9NC	169	6	1.2	1216.8	
KEE9SC	KY9SC	171	6	1.2	1231.2	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	26,188
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/15/10-8/28/10	Bathy Survey 08/28/10	3,810	
8/30/2010	GPS Estimate	176	
8/31/2010	GPS Estimate	480	
9/1/2010	GPS Estimate	319	
9/2/2010	GPS Estimate	359	
9/8/2010	GPS Estimate	327	
9/9/2010	GPS Estimate	240	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 9/8/10
DREDGE ENGINEER(S): Marc Friedman

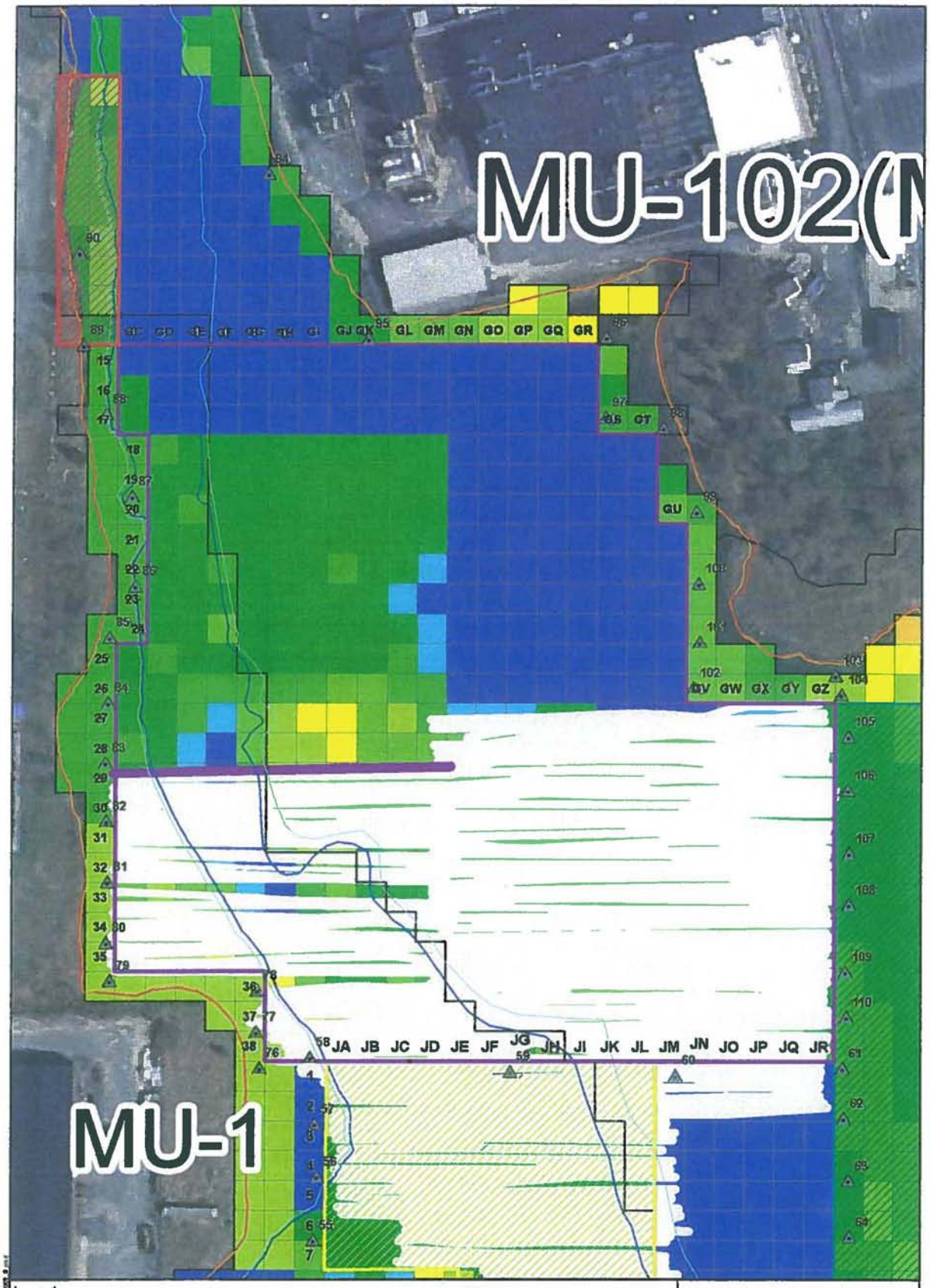
	PASSES; 0 COLUMN; 0 GM29N GC29N	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5					
GL	1.8					
GK	2.2					
GJ	2.8					
GI	2.6					
GH	2.1					
GG	1.2					
GF	0.5					
GE	0.9					
GD	1.0					
GC	1.0					
	COMP.					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 9/8/10
DREDGE ENGINEER(S): Marc Friedman

ROW WEST TO EAST	PASSES; COLUMN; 0 KEE8N KY8N MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KEE8NC KY8NC MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KEE8SC KY8SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE8S KY8S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KEE9N KY9N MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KEE	1.4	1.4	1.4	1.4		
KDD	1.8	1.8	1.8	1.8		
KCC	1.5	1.5	1.5	1.5		
KBB	1.3	1.3	1.3	1.3	N/C	
KAA	1.6	1.6	1.6	1.6		
KZ	1.6	1.6	1.6	1.6		
KY	1.5	1.5	1.5	1.5		

NOTES:



Legend

8 foot buffer representing area of cut for 09/08/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6 - 3.0
3.1 - 3.5
3.6 - 4.0
4.1 - 4.5
4.6 - 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

09/08/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crdberts DATE: 09/09/2010

09/08/10-G

Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 09/08/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

09/08/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cruiseta DATE: 09/30/2010

09/08/10-K

9/8/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM29N	GC29N	280	6	1.6	2688	327
KEE8N	KY8N	169	6	1.5	1521	
KEE8NC	KY8NC	176	6	1.5	1584	
KEE8SC	KY8SC	167	6	1.5	1503	
KEE8S	KY8S	170	6	1.5	1530	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	25,948
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/15/10-8/28/10	Bathy Survey 08/28/10	3,810	
8/30/2010	GPS Estimate	176	
8/31/2010	GPS Estimate	480	
9/1/2010	GPS Estimate	319	
9/2/2010	GPS Estimate	359	
9/8/2010	GPS Estimate	327	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 9/2/10
DREDGE ENGINEER(S): M Friedman / Z. Zito

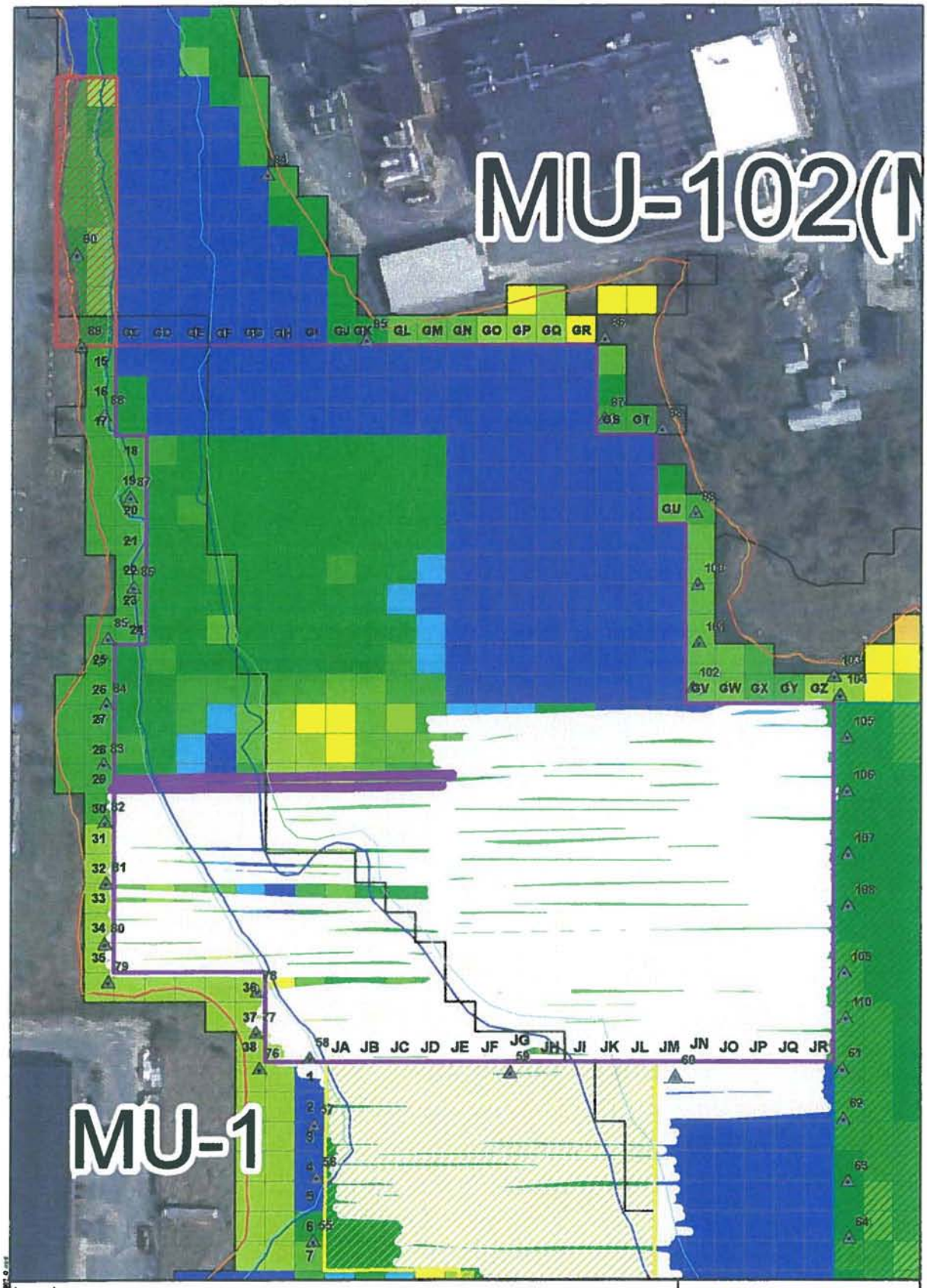
	PASSES; 0 COLUMN; 0 GM 29 SC GC 29 SC	PASSES; 0 COLUMN; 0 GM 29 NC GC 29 NC	PASSES; 0 COLUMN; 0 GM 29 N GC 29 N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.0	2.0				
GL	1.9	1.9				
GK	2.4	2.4				
GJ	3.0	3.0				
GI	2.9	2.9	N/C			
GH	2.6	2.6				
GG	1.7	1.7				
GF	0.5	0.5				
GE	0.9	0.9				
GD	1.5	1.5				
GC	1.5	1.5				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 9/2/10
DREDGE ENGINEER(S): M. Friedman / 2.2110

	PASSES; 0 COLUMN; 0 KEE 7S KY 7S	PASSES; 0 COLUMN; 0 KEE 8N KY 8N	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	1.5	1.7				
KDD	1.9	2.3				
KCC	1.7	1.7				
KBB	1.7	1.6				
KAA	1.5	1.9				
KZ	1.5	1.9				
KY	1.7	1.7				

NOTES:



Legend

8 foot buffer representing area of cut for 09/02/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6 - 3.0

3.1 - 3.5

3.6 - 4.0

4.1 - 4.5

4.6 - 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

09/02/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: osberts DATE: 09/03/2010

09/02/10-G

Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 09/02/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

09/02/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cadbelle DATE: 09/02/2010

09/02/10-K

9/2/2010

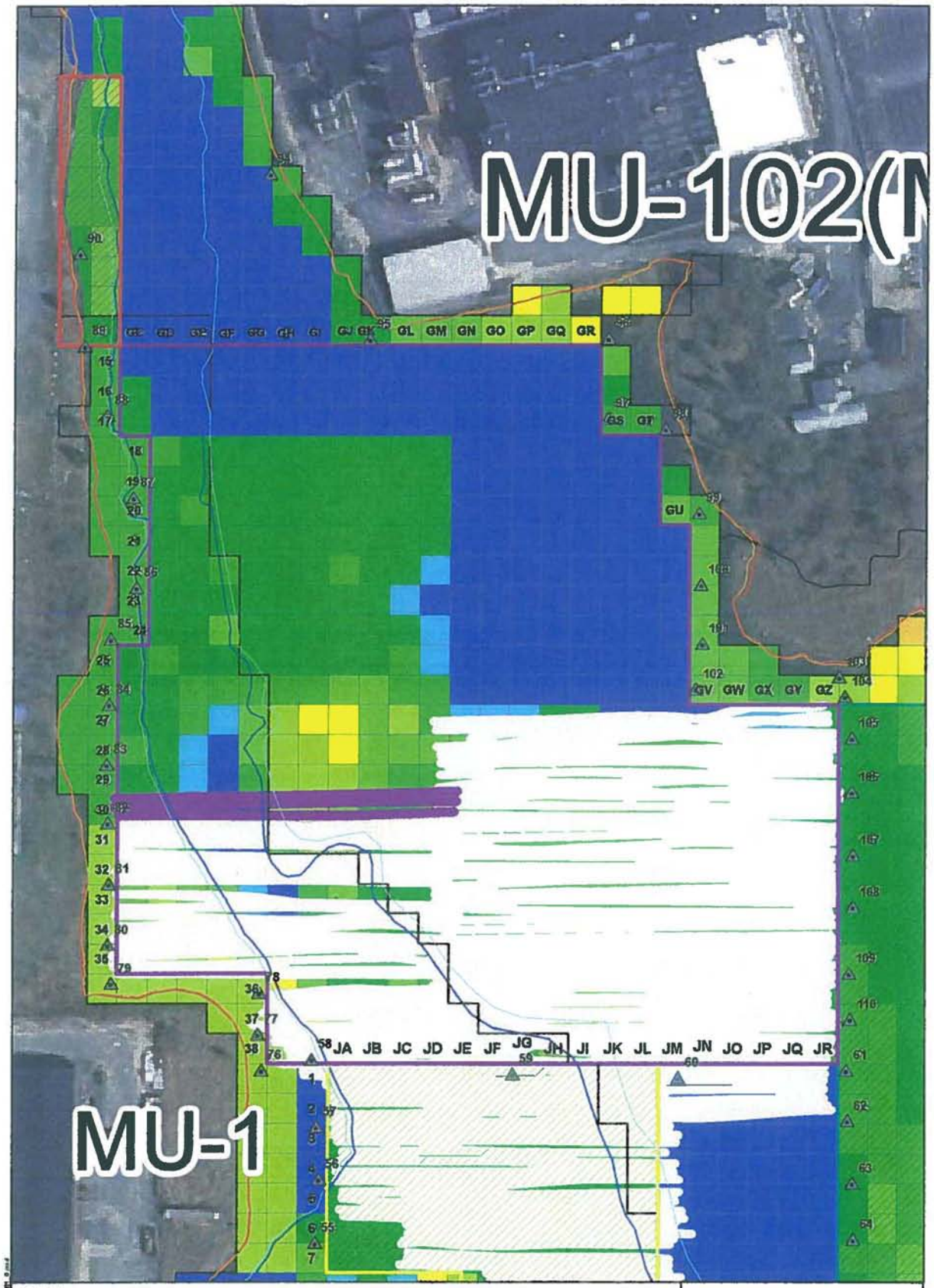
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM29SC	GC29SC	273	6	1.9	3112.2	359
GM29NC	GC29NC	278	6	1.9	3169.2	
KEE7S	KY7S	165	6	1.6	1584	
KEE8N	KY8N	170	6	1.8	1836	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	25,621
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/15/10-8/28/10	Bathy Survey 08/28/10	3,810	
8/30/2010	GPS Estimate	176	
8/31/2010	GPS Estimate	480	
9/1/2010	GPS Estimate	319	
9/2/2010	GPS Estimate	359	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 9/1/10
DREDGE ENGINEER(S): M. Friedman / Z. Zito

	PASSES; 0 COLUMN; 0 GM 30 NC GC 30 NC	PASSES; 0 COLUMN; 0 GM 30 N GC 30 N	PASSES; 0 COLUMN; 0 GM 29 S GC 29 S	PASSES; 0 COLUMN; 0 GM 29 SC GC 29 SC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.6	1.6	2.0			
GL	1.5	1.5	1.9			
GK	1.5	1.5	2.4			
GJ	2.2	2.2	3.0			
GI	2.7	2.7	2.9	N/C		
GH	2.1	2.1	2.6			
GG	0.5	0.5	1.7			
GF	0.5	0.5	0.5			
GE	1.5	1.5	0.9			
GD	1.8	1.8	1.5			
GC	1.9	1.9	1.5			

NOTES:



Legend

6 foot buffer represending area of cut for 09/01/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6 - 3.0

3.1 - 3.5

3.6 - 4.0

4.1 - 4.5

4.6 - 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS™

09/01/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 09/01/2010

09/01/10-G

9/1/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM30NC	GC30NC	1.6	6	278	2668.8	319
GM30N	GC30N	1.6	6	283	2716.8	
GM29S	GC29S	1.9	6	284	3237.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	25,262
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/15/10-8/28/10	Bathy Survey 08/28/10	3,810	
8/30/2010	GPS Estimate	176	
8/31/2010	GPS Estimate	480	
9/1/2010	GPS Estimate	319	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/31/10
DREDGE ENGINEER(S): Z. ZITO, M. Friedman

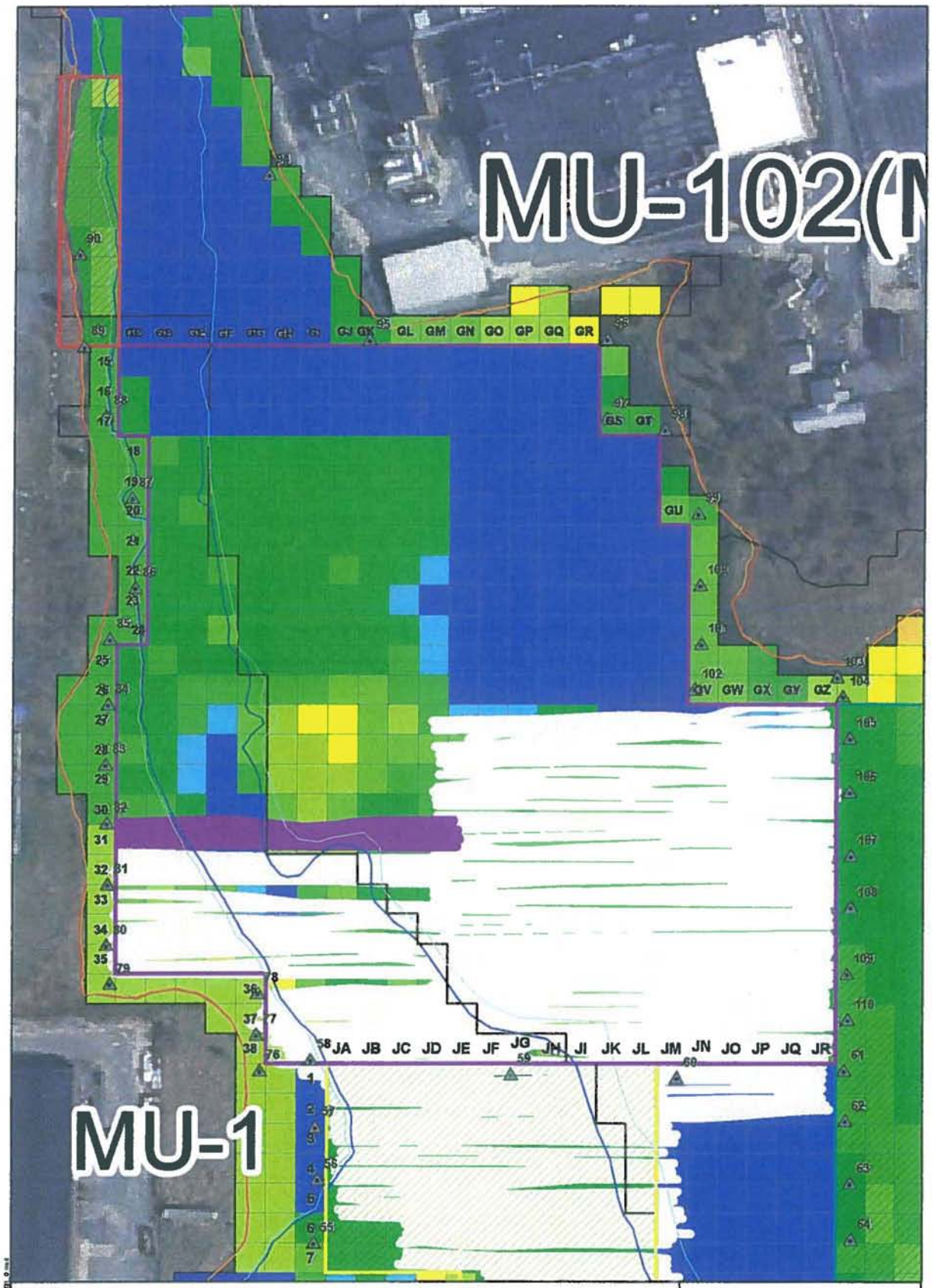
	PASSES; 0 COLUMN; 0 G-M 31 NC GC 31NC	PASSES; 0 COLUMN; 0 GM 31 N GC 31 N	PASSES; 0 COLUMN; 0 GM 30 S GC 30 S	PASSES; 0 COLUMN; 0 GM 30SC GC 30SC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7	1.7	1.6	1.6		
GL	1.6	1.6	1.5	1.5		
GK	1.5	1.5	1.5	15		
GJ	2.8	2.8	2.2	2.2		
GI	2.6	2.6	2.7	2.7		
GH	1.6	1.6	2.1	2.1		
GG	0.5	0.5	0.5	.0.5		
GF	0.5	0.5	0.5	0.5		
GE	1.5	1.5	1.5	1.5		
GD	2.5	2.5	1.8	1.8		
GC	2.5	2.5	1.7	1.7		

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA ~~G~~ K / ZONE ~~2~~ 6)
DATE: 3/31/10
DREDGE ENGINEER(S): M. Friedman / Z. Zito

	PASSES; 0 COLUMN; 0 KEE 7SC KY 7SC	PASSES; 0 COLUMN; 0 KEE 7S KY 7S	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	1.5					
KDD	1.9					
KCC	1.7	N/C				
KBB	1.7					
KAA	1.5					
KZ	1.5					
KY	1.7					

NOTES:



Legend

8 foot buffer represending area of cut for 08/31/10

8 foot buffer representing area of cut from previous 2010 dredging activies

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

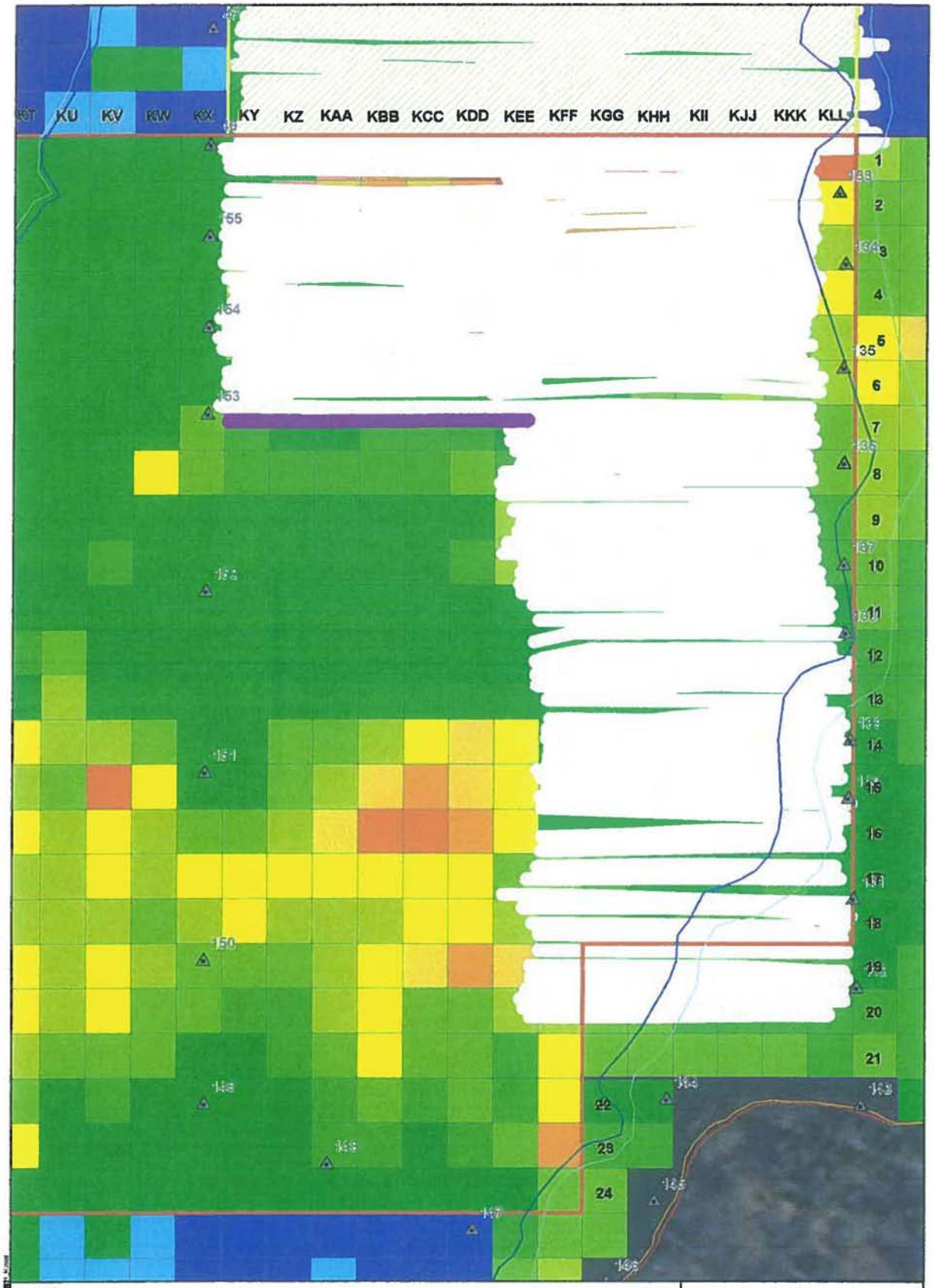
JACOBS

08/31/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/31/2010

08/31/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer representing area of cut for 08/31/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/31/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: roberts DATE: 09/30/2010 08/31/10-K

8/31/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM31NC	GC31NC	280	6	1.8	3024	480
GM31N	GC31N	281	6	1.8	3034.8	
GM30S	GC30S	278	6	1.6	2668.8	
GM31SC	GC30SC	275	6	1.6	2640	
KEE7SC	KY7SC	166	6	1.6	1593.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	24,943
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/15/10-8/28/10	Bathy Survey 08/28/10	3,810	
8/30/2010	GPS Estimate	176	
8/31/2010	GPS Estimate	480	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA ~~G~~ K / ZONE ~~2~~ 6)
DATE: 8/30/10
DREDGE ENGINEER(S): M. Friedman, Z. Zito

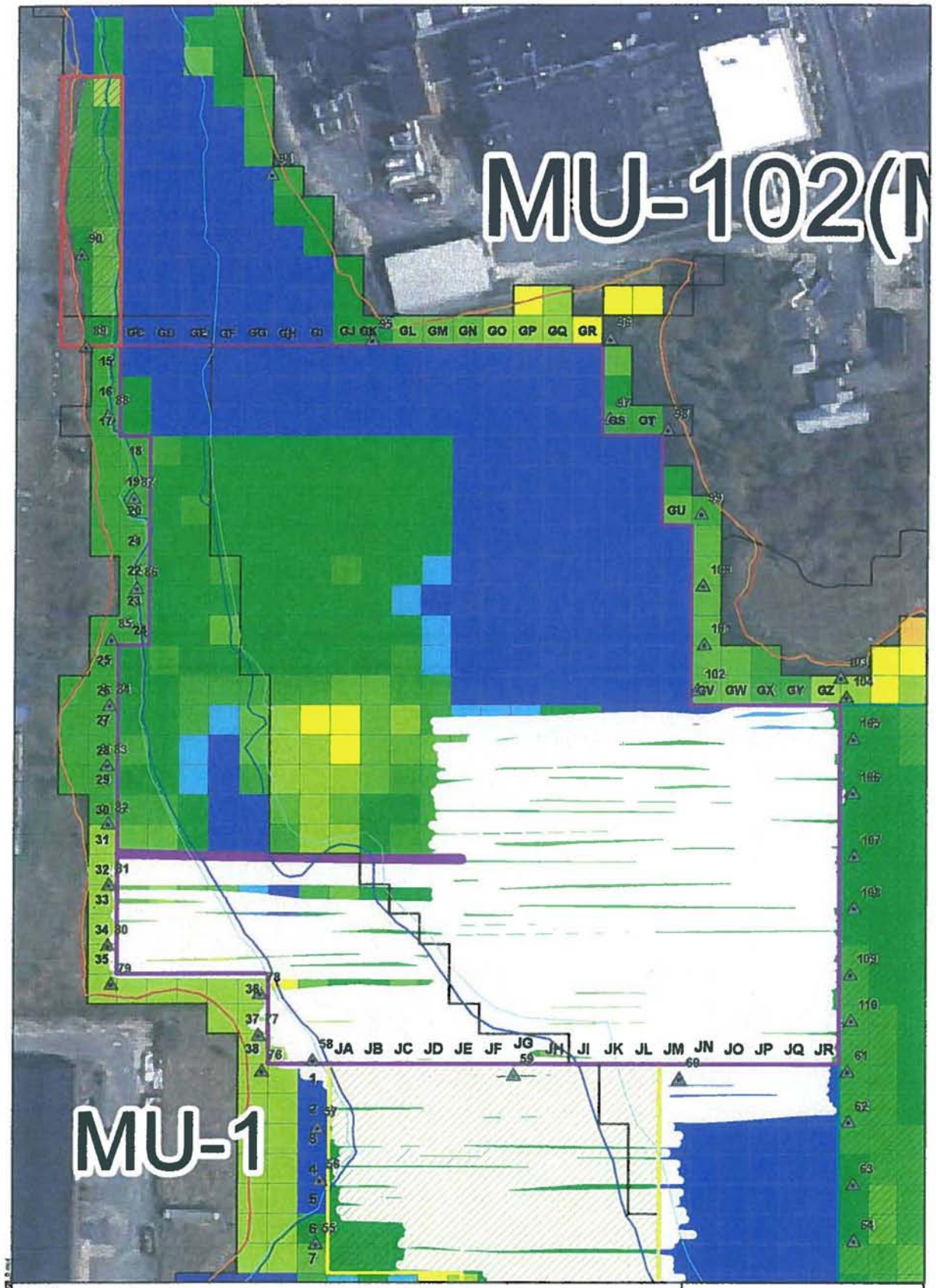
	PASSES; 0 COLUMN; 0 KEE 7NC KY 7NC	PASSES; 0 COLUMN; 0 KEE 7SC KY 7SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	1.5					
KDD	1.9					
KCC	1.7	N/C				
KBB	1.7					
KAA	1.5					
KZ	1.5					
KY	1.7					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE:
DREDGE ENGINEER(S):

	PASSES; 0 COLUMN; 0 GM 31 SC GC 31 SC	PASSES; 0 COLUMN; 0 GM 31 NC GC 31 NC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7					
GL	1.6					
GK	1.5					
GJ	2.8					
GI	2.6	N/C				
GH	1.6					
GG	.5					
GF	.5					
GE	1.5					
GD	2.5					
GC	2.5					

NOTES:



Legend

8 foot buffer represending area of cut for 08/30/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

Aerial Photography MASSGIS 2003

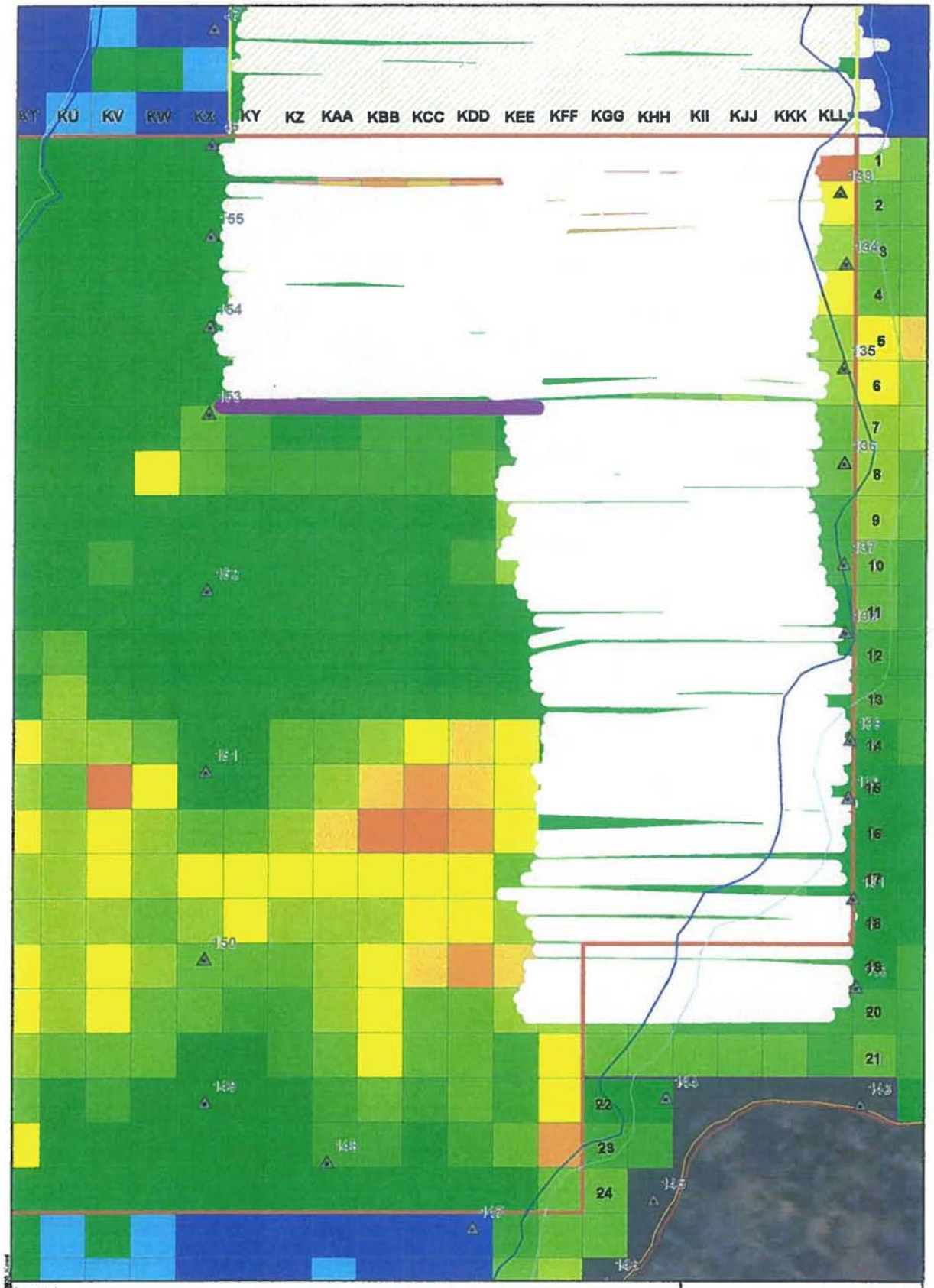
JACOBS

08/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crebetts DATE: 08/30/2010

08/30/10-G



Legend

Dredge Area K

2010 Sheet Pile Locations

8 foot buffer represending area of cut for 08/30/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertw DATE: 08/30/2010

08/30/10-K

8/30/2010

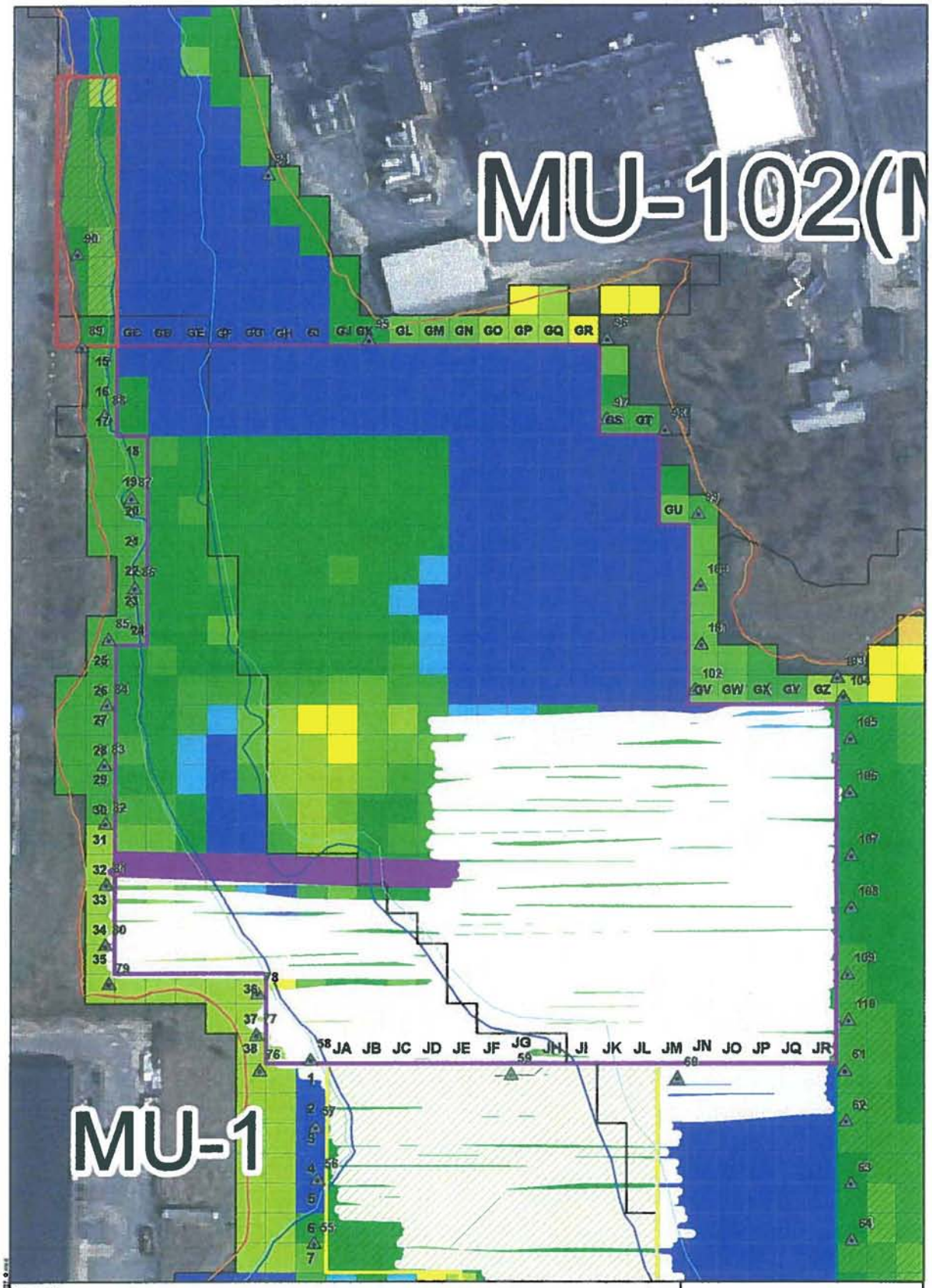
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM31SC	GC31SC	283	6	1.8	3056.4	176
KEE7NC	KY7NC	176	6	1.6	1689.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	24,677
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	
8/24/2010	GPS Estimate	388	
8/25/2010	GPS Estimate	359	
8/26/2010	GPS Estimate	325	
8/27/2010	GPS Estimate	315	
8/30/2010	GPS Estimate	176	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/27/10
DREDGE ENGINEER(S): Marc Friedman / Zak Zite

	PASSES; 0 COLUMN; 0 GM 32 SC GC 32SC	PASSES; 0 COLUMN; 0 GM 32 NC GC 32NC	PASSES; 0 COLUMN; 0 GM 32 N GC 32 N	PASSES; 0 COLUMN; 0 GM 31 S GC 31 S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5	1.5	1.5			
GL	1.5	1.5	1.5			
GK	1.5	1.5	1.5			
GJ	2.3	2.3	2.3			
GI	2.3	2.3	2.3	N/C		
GH	0.5	0.5	0.5			
GG	0.5	0.5	0.5			
GF	1.0	1.0	1.0			
GE	2.2	2.2	2.2			
GD	2.8	2.8	2.8			
GC	2.5	2.5	2.5			

NOTES:



Legend

8 foot buffer represending area of cut for 08/27/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

Aerial Photography MASSGIS 2003

JACOBS

08/27/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobarts DATE: 08/27/2010

08/27/10-G

8/27/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM32SC	GC32SC	277	6	1.7	2825.4	315
GM32NC	GC32NC	279	6	1.7	2845.8	
GM32N	GC32N	278	6	1.7	2835.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	24,501
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	
8/24/2010	GPS Estimate	388	
8/25/2010	GPS Estimate	359	
8/26/2010	GPS Estimate	325	
8/27/2010	GPS Estimate	315	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE:
DREDGE ENGINEER(S):

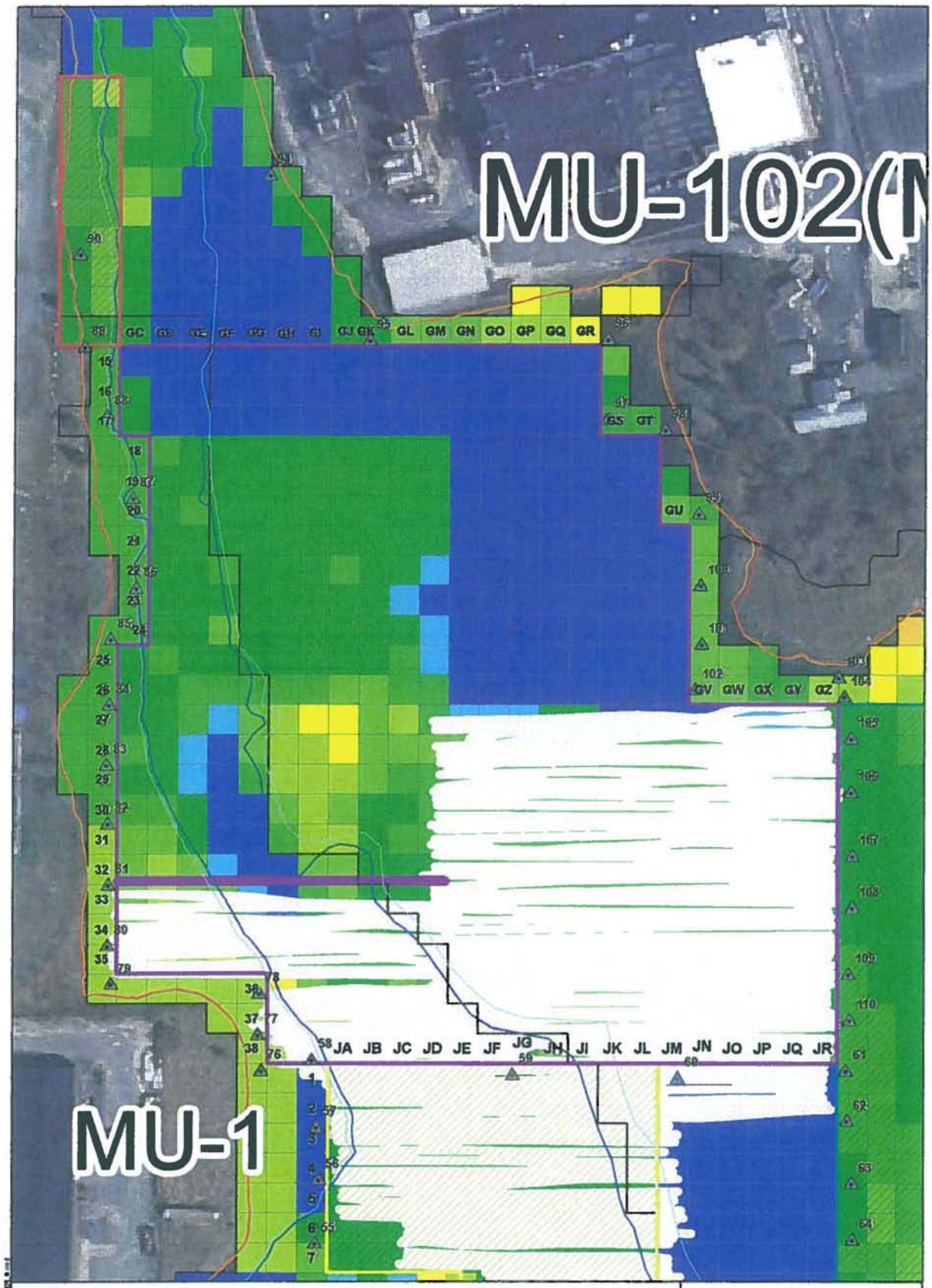
	PASSES; 0 COLUMN; 0 GM 32 S GC 32 S	PASSES; 0 COLUMN; 0 GM 32 SC GC 32 SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5					
GL	1.5					
GK	1.5					
GJ	2.3					
GI	2.3	N/C				
GH	.5					
GG	.5					
GF	1.0					
GE	2.2					
GD	2.8					
GC	2.5					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA ~~G~~ K / ZONE ~~2~~ 6)
DATE:
DREDGE ENGINEER(S):

ROW EAST TO WEST	PASSES; 0 COLUMN; 0 KEE 6N KY 6N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE 6NC KY 6NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE 6SC KY 6SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE 6S KY 6S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KEE 7N KY 7N MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KEE	1.5	1.5	1.5	1.5		
KDD	1.5	1.5	1.5	1.5		
KCC	1.8	1.8	1.8	1.8	N/C	
KBB	1.5	1.5	1.5	1.5		
KAA	1.5	1.5	1.5	1.5		
KZ	1.5	1.5	1.5	1.5		
KY	1.5	1.5	1.5	1.5		

NOTES:



Legend

8 foot buffer representing area of cut for 08/26/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2005

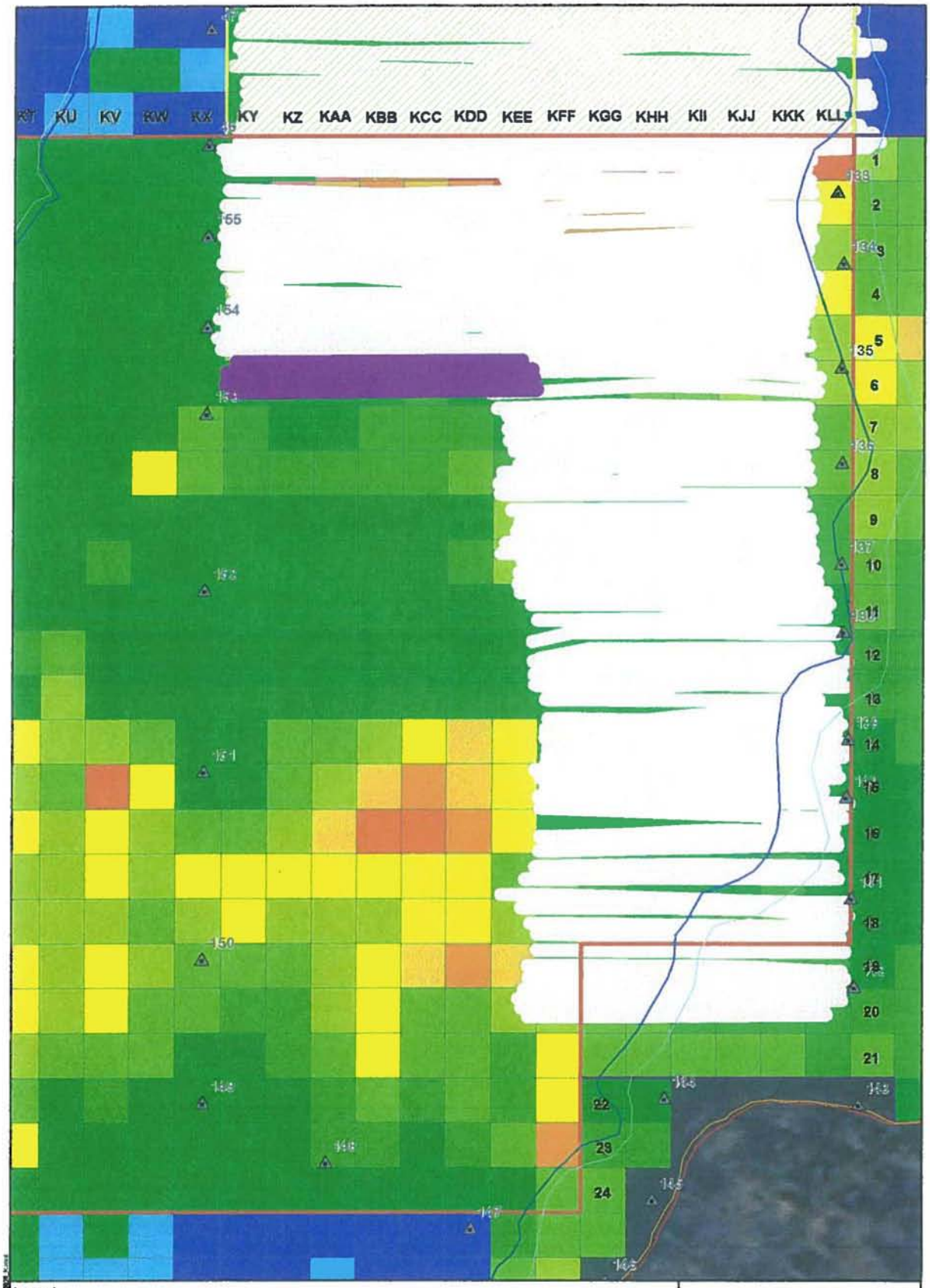
JACOBS

08/26/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/26/2010

08/26/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer representing area of cut for 08/26/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/26/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cnoberts DATE: 09/26/2010

08/26/10-K

8/26/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM32S	GC32S	271	6	1.7	2764.2	325
KEE6N	KY6N	158	6	1.5	1422	
KEE6NC	KY6NC	169	6	1.5	1521	
KEE6SC	KY6SC	171	6	1.5	1539	
KEE6S	KY6S	169	6	1.5	1521	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	24,186
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	
8/24/2010	GPS Estimate	388	
8/25/2010	GPS Estimate	359	
8/26/2010	GPS Estimate	325	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/25/10
DREDGE ENGINEER(S): Marc Friedman

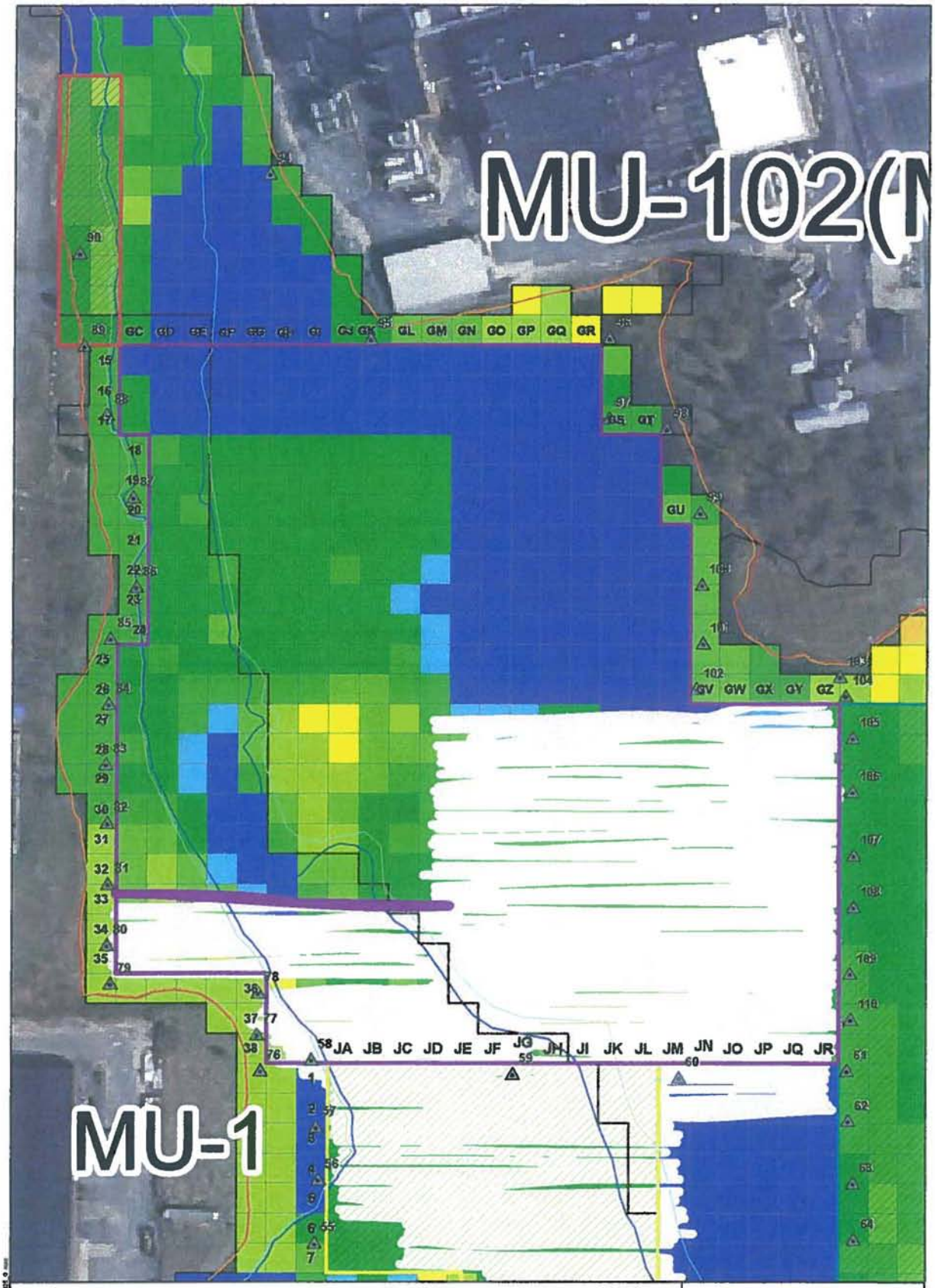
	PASSES; 0 COLUMN; 0 GM 33N GC 33N	PASSES; 0 COLUMN; 0 GM 32.5 GC 32.5	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5					
GL	1.5					
GK	1.5					
GJ	2.5	N/C				
GI	1.7					
GH	0.5					
GG	0.7					
GF	2.2					
GE	2.3					
GD	2.8					
GC	2.5					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA ~~G~~ K / ZONE ~~2~~ 6)
DATE: 8/25/10
DREDGE ENGINEER(S): Marc Friedman

	PASSES; 0 COLUMN; 0 KEE 5 N KY 5 N	PASSES; 0 COLUMN; 0 KEE 5 NC KY 5 NC	PASSES; 0 COLUMN; 0 KEE 5 SC KY 5 SC	PASSES; 0 COLUMN; 0 KEE 5 S KY 5 S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	1.5	1.5	1.5	1.5		
KDD	1.5	1.5	1.5	1.5		
KCC	1.5	1.5	1.5	1.5		
KBB	1.5	1.5	1.5	1.5		
KAA	1.5	1.5	1.5	1.5		
KZ	1.9	1.9	1.9	1.9		
KY	2.7	2.7	2.7	2.7		

NOTES:



Legend

8 foot buffer representing area of cut for 08/25/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

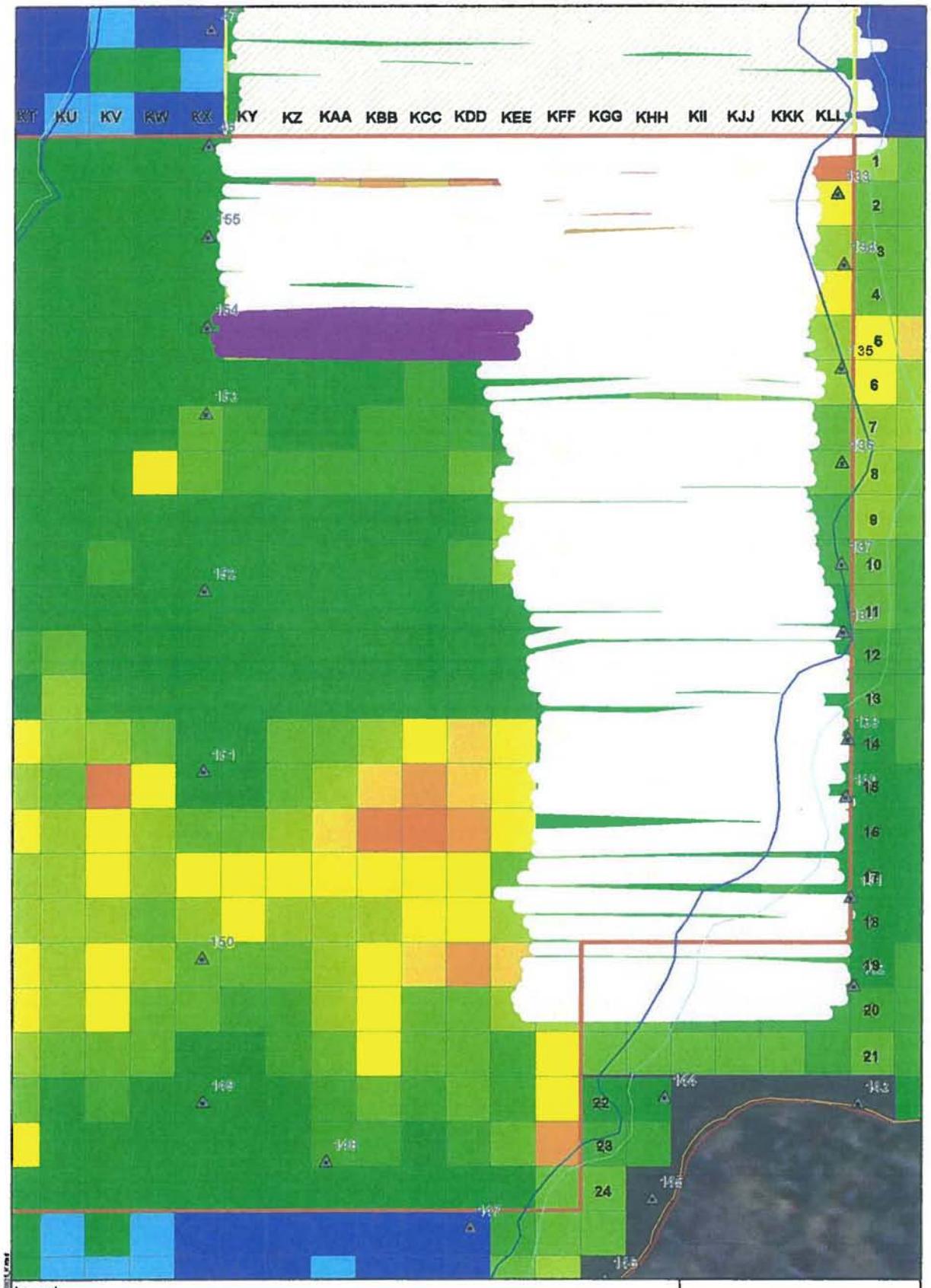
JACOBS

08/25/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/25/2010

08/25/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer representing area of cut for 08/25/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/25/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cmiberts DATE: 09/25/2010

08/25/10-K

8/25/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM33N	GC33N	276	6	1.8	2980.8	359
KEE5N	KY5N	170	6	1.7	1734	
KEE5NC	KY5NC	161	6	1.7	1642.2	
KEE5SC	KY5SC	164	6	1.7	1672.8	
KEE5S	KY5S	162	6	1.7	1652.4	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	23,861
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/25	392	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	
8/24/2010	GPS Estimate	388	
8/25/2010	GPS Estimate	359	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/24/10
DREDGE ENGINEER(S): Marc Friedman / Bach Ito

	PASSES: 0 COLUMN: 0 GM33SC GC33SC	PASSES: 0 COLUMN: 0 GM33NC GC33SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5					
GL	1.5					
GK	1.5					
GJ	2.0					
GI	1.2					
GH	0.5					
GG	0.7	N/C				
GF	1.7					
GE	2.0					
GD	2.3					
GC	2.5					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/24/10
DREDGE ENGINEER(S): Mure Friedman / Zack Zito

ROW WEST TO EAST	PASSES; COLUMN: 0 KEE 3S KY 3S MATERIAL REMOVED (FT)	PASSES: COLUMN: 0 KEE 4N KY 4N MATERIAL REMOVED (FT)	PASSES; COLUMN: 0 KEE4NC KY4NC MATERIAL REMOVED (FT)	PASSES: 0 COLUMN: 0 KEE4SC KY4SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KEE4S KY 4S MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KEE	2.2	1.2	1.2	1.2	1.2	
KDD	1.6	1.2	1.2	1.2	1.2	
KCC	1.6	1.3	1.3	1.3	1.3	
KBB	1.5	1.2	1.2	1.2	1.2	
KAA	1.5	1.2	1.2	1.2	1.2	
KZ	2.0	1.4	1.4	1.4	1.4	
KY	1.5	2.1	2.1	2.1	2.1	
					complete	

NOTES:

Legend

Dredge Area K

2010 Sheet Pile Locations

8 foot buffer representing area of cut for 08/24/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

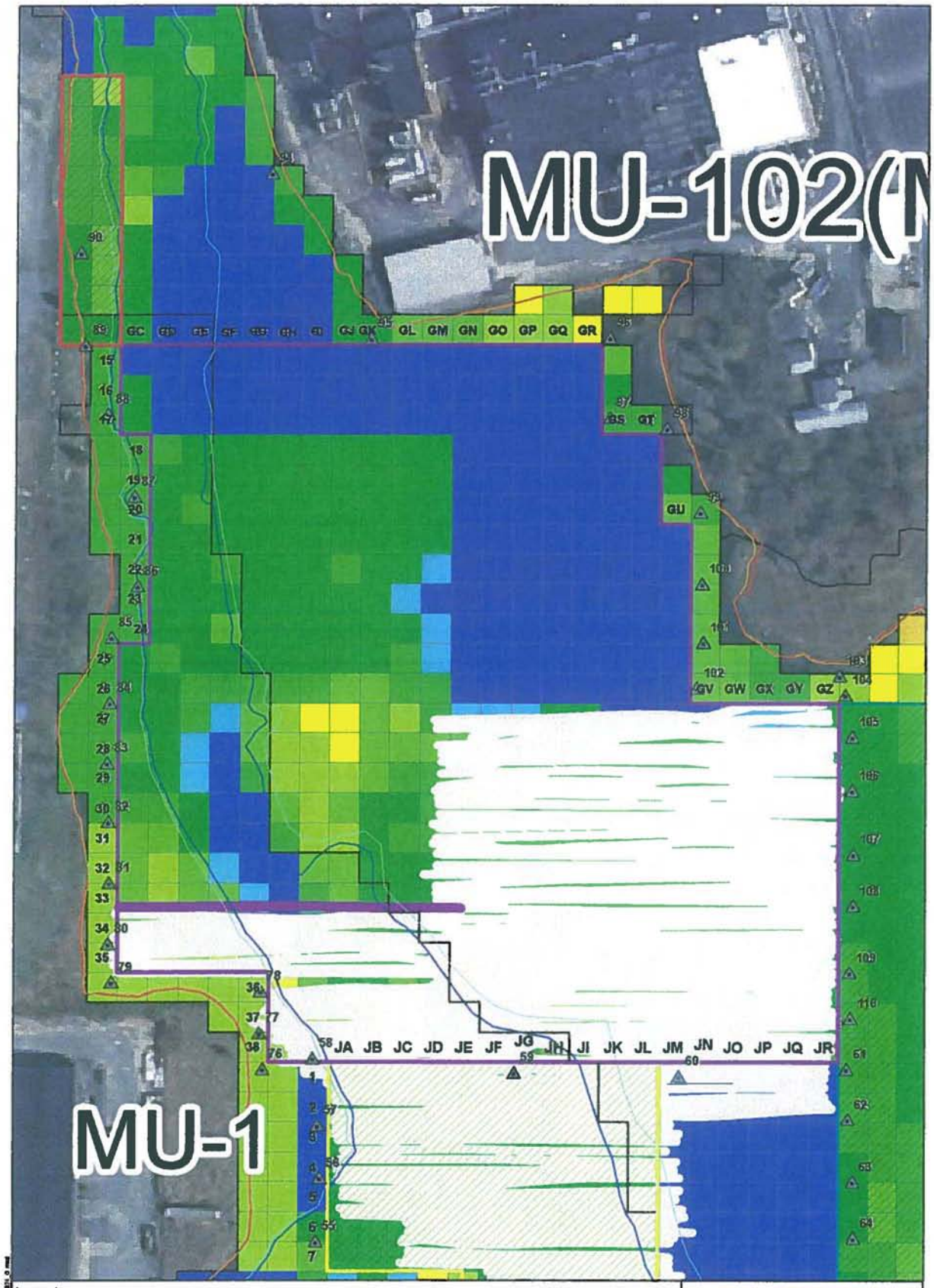
JACOBS

08/24/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: [illegible] DATE: [illegible]

08/24/10-K



Legend

8 foot buffer represending area of cut for 08/24/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS

08/24/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeks DATE: 08/24/2010

08/24/10-G

8/24/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM33SC	GC33SC	282	6	1.6	2707.2	388
KEE3S	KY3S	179	6	1.7	1825.8	
KEE4N	KY4N	181	6	1.4	1520.4	
KEE4NC	KY4NC	180	6	1.4	1512	
KEE4SC	KY4SC	174	6	1.4	1461.6	
KEE4S	KY4S	173	6	1.4	1453.2	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	23,487
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/24	377	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	
8/24/2010	GPS Estimate	388	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/23/10
DREDGE ENGINEER(S): Marc Friedman / Zack Zito

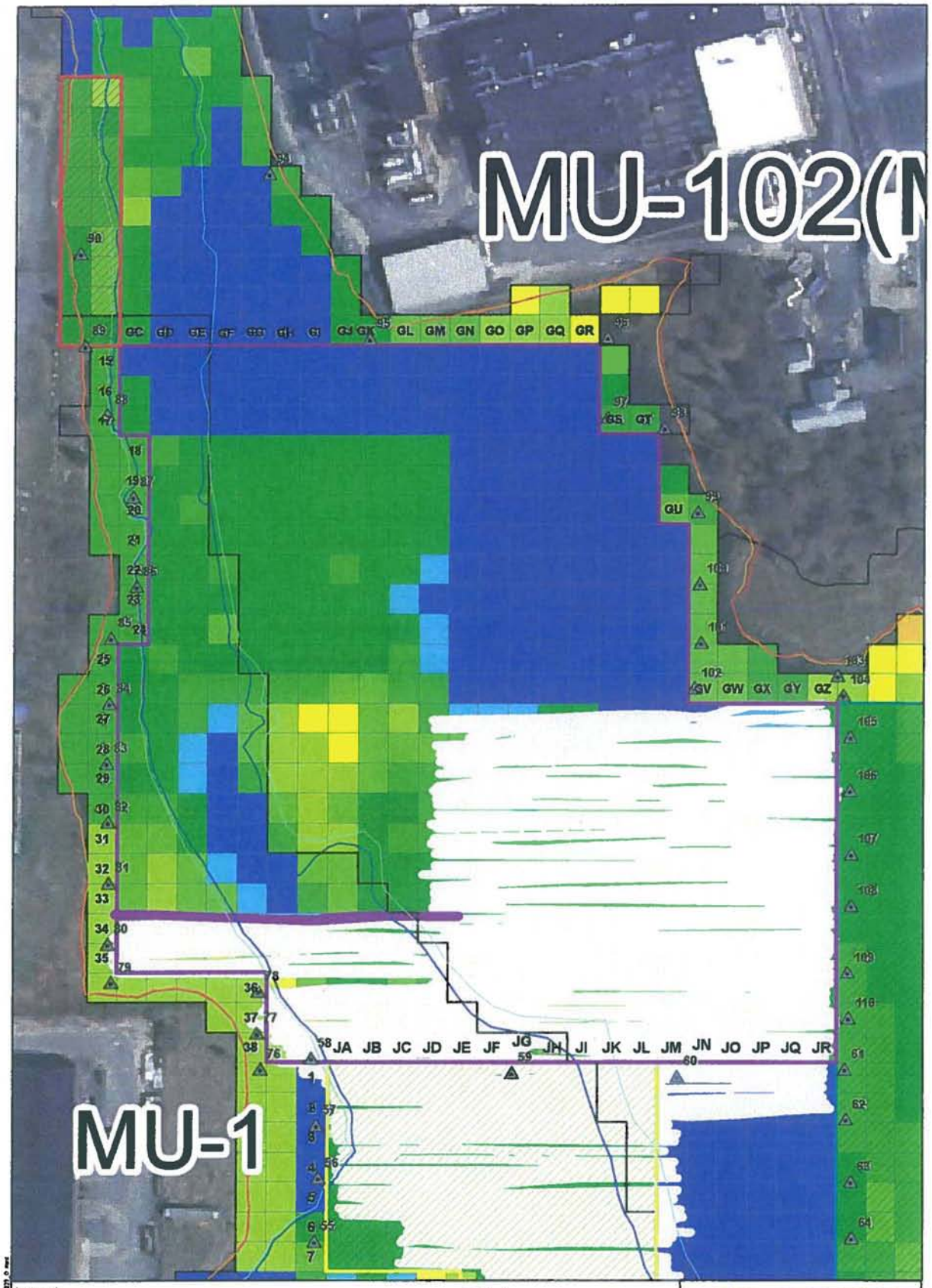
	PASSES; COLUMN; 0 GM33S GC33S	PASSES; COLUMN; 0 GM33SC GC33SC	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.5					
GL	1.5					
GK	1.5					
GJ	2.0					
GI	1.2	N/C				
GH	0.5					
GG	0.7					
GF	1.7					
GE	2.0					
GD	2.3					
GC	2.5					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/23/10
DREDGE ENGINEER(S): Marc Friedman / Zach Zito

ROW EAST TO WEST	PASSES; 0 COLUMN; 0 KEE2SC KY2SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE2S KY2S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE3N KY3N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KEE3NC KY3NC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KEE3SC KY3SC MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KEE	4.8	4.8	2.2	2.2	2.2	
KDD	3.9	3.9	1.6	1.6	1.6	
KCC	3.7	3.7	1.6	1.6	1.6	
KBB	3.8	3.8	1.5	1.5	1.5	
KAA	3.6	3.6	1.5	1.5	1.5	
KZ	5.6	5.6	2.0	2.0	2.0	
KY	1.5	1.5	1.5	1.5	1.5	

NOTES:



Legend

8 foot buffer represending area of cut for 08/23/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.8 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

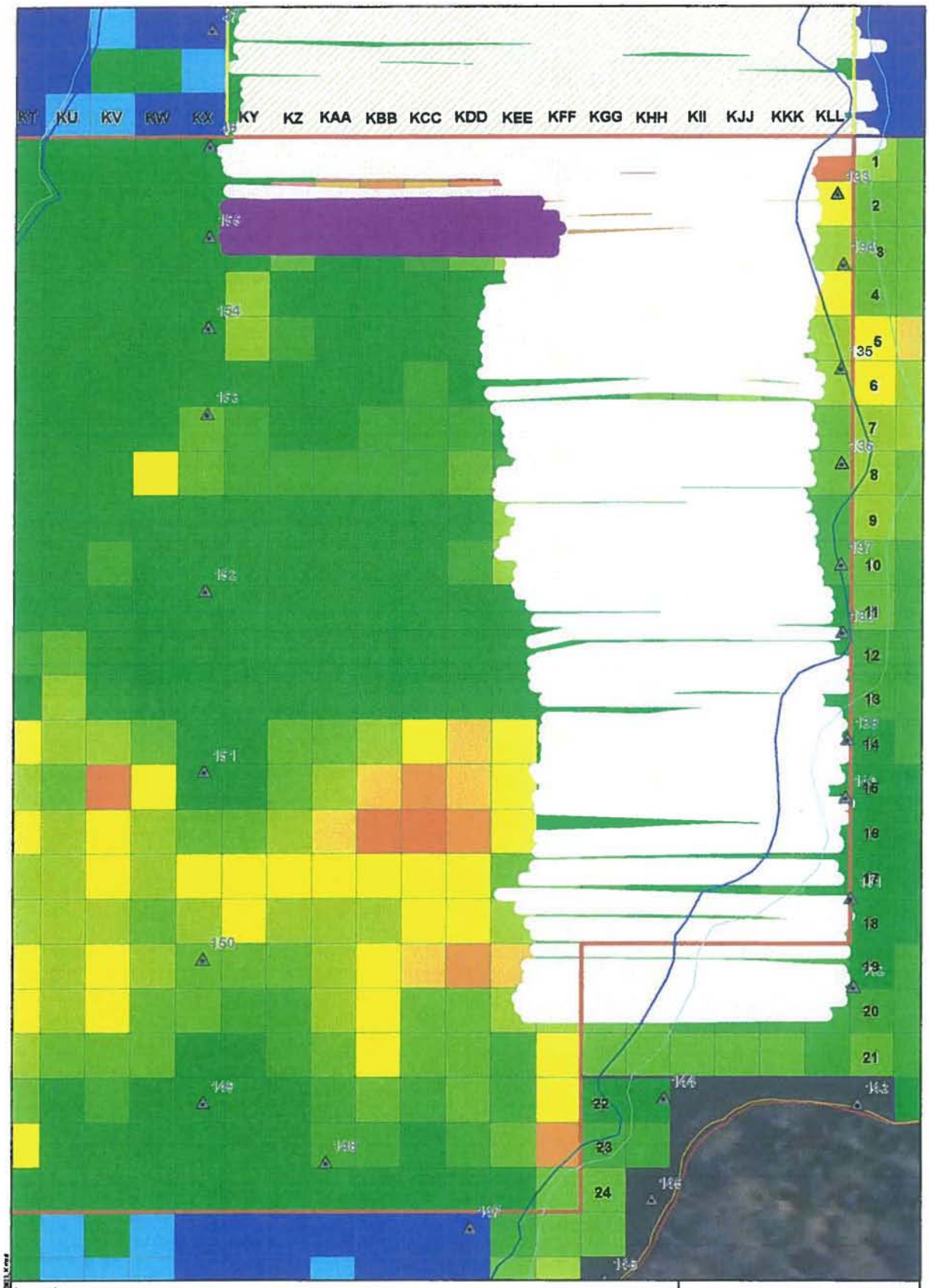
JACOBS

08/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/23/2010

08/23/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/23/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 09/29/2010 08/23/10-K

8/23/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM33S	GC33S	285	6	1.6	2736	605
KEE2SC	KY2SC	173	6	3.8	3944.4	
KEE2S	KY2S	179	6	3.8	4081.2	
KEE3N	KY3N	185	6	1.7	1887	
KEE3NC	KY3NC	182	6	1.7	1856.4	
KEE3SC	KY3SC	180	6	1.7	1836	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	23,031
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/17	309	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	
8/23/2010	GPS Estimate	605	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/20/10
DREDGE ENGINEER(S): Mike Tarb / Marc Friedman / Zach Bto

	PASSES: 0 (1.5) COLUMN; 0 GM34N GC34N	PASSES; 0 2 COLUMN; 0 GM33S GC33S	PASSES; 0 COLUMN: 0	PASSES; 0 COLUMN: 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7					
GL	1.8					
GK	1.9					
GJ	1.3					
GI	1.1	N/C				
GH	1.8					
GG	2.2					
GF	3.0					
GE	2.7					
GD	3.1					
GC	2.9					

NOTES:

inbetween GM34N - GC34N & GM33S - GC33S

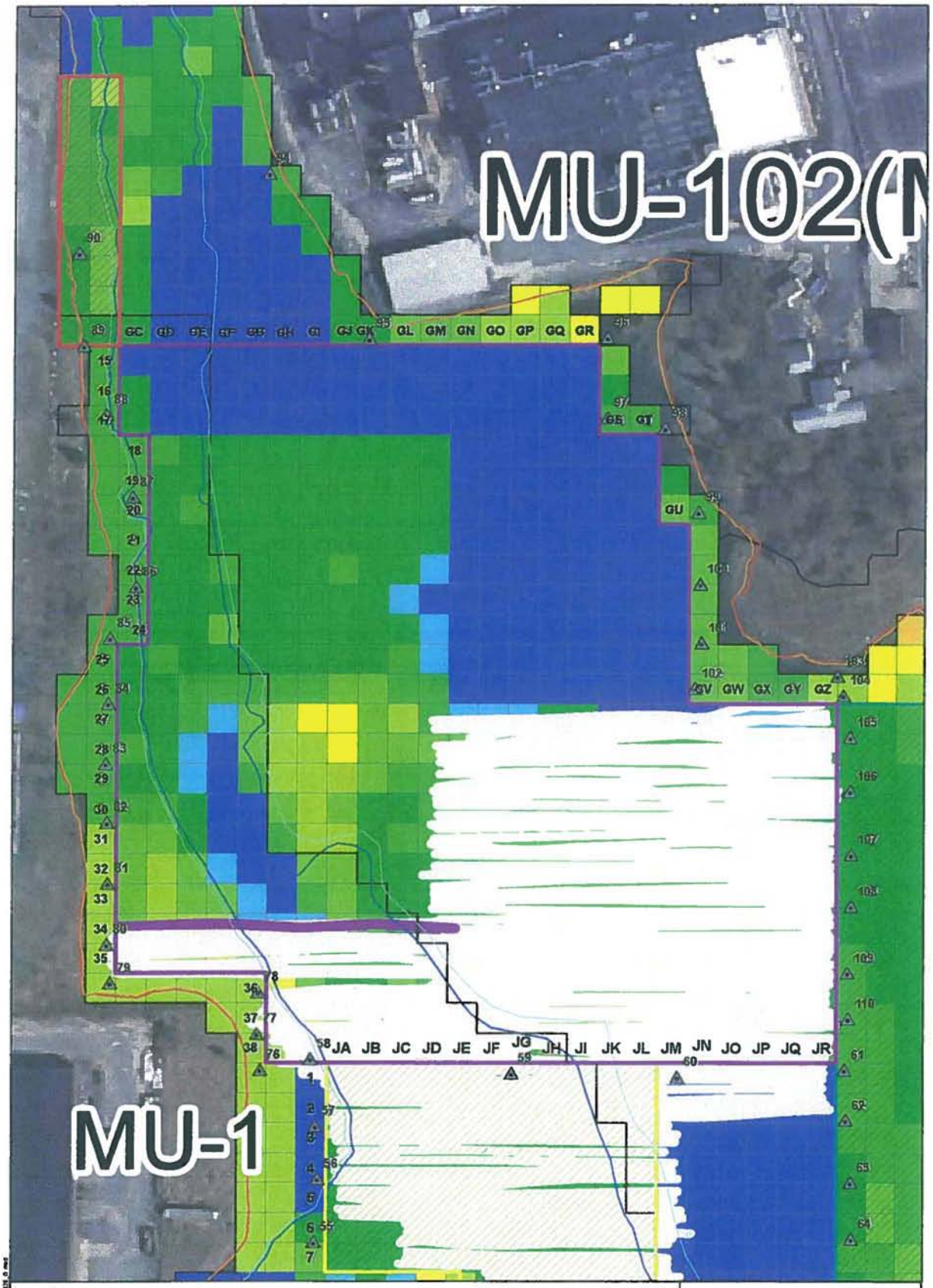
* moved dredge crossing cable 15' South to dredge a missed spot on 8/19/10.

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/20/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zach Z.

	PASSES; 2 COLUMN; 0 KEE2NC KY2NC	PASSES; 3 COLUMN; 0 KEE2SC KY2SC	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	4.8					
KDD	3.9					
KCC	3.7					
KBB	3.8	N/C				
KAA	3.6					
KZ	5.6					
KY	1.5					

NOTES:

KEE2NC - KY2NC was 2'-3' deep at first 20' of cut.



Legend

8 foot buffer represending area of cut for 08/20/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

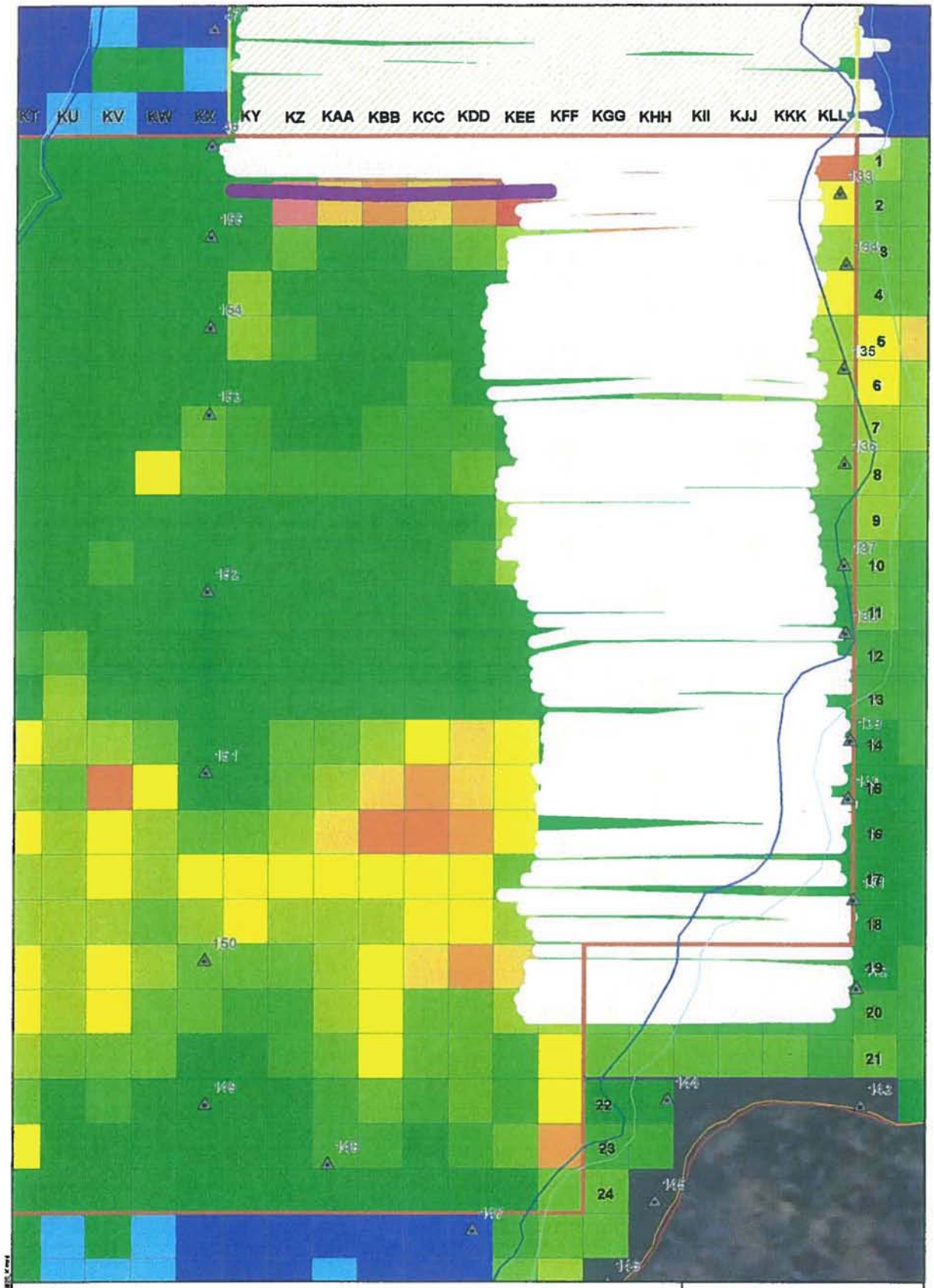
JACOBS

08/20/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/20/2010

08/20/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/20/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/20/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/20/2010 08/20/10-K

8/20/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM34N	GC34N	279	6	2.1	3515.4	279
KEE2NC	KY2NC	176	6	3.8	4012.8	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	22,426
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/17	309	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	
8/20/2010	GPS Estimate	279	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/19/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zack Zito

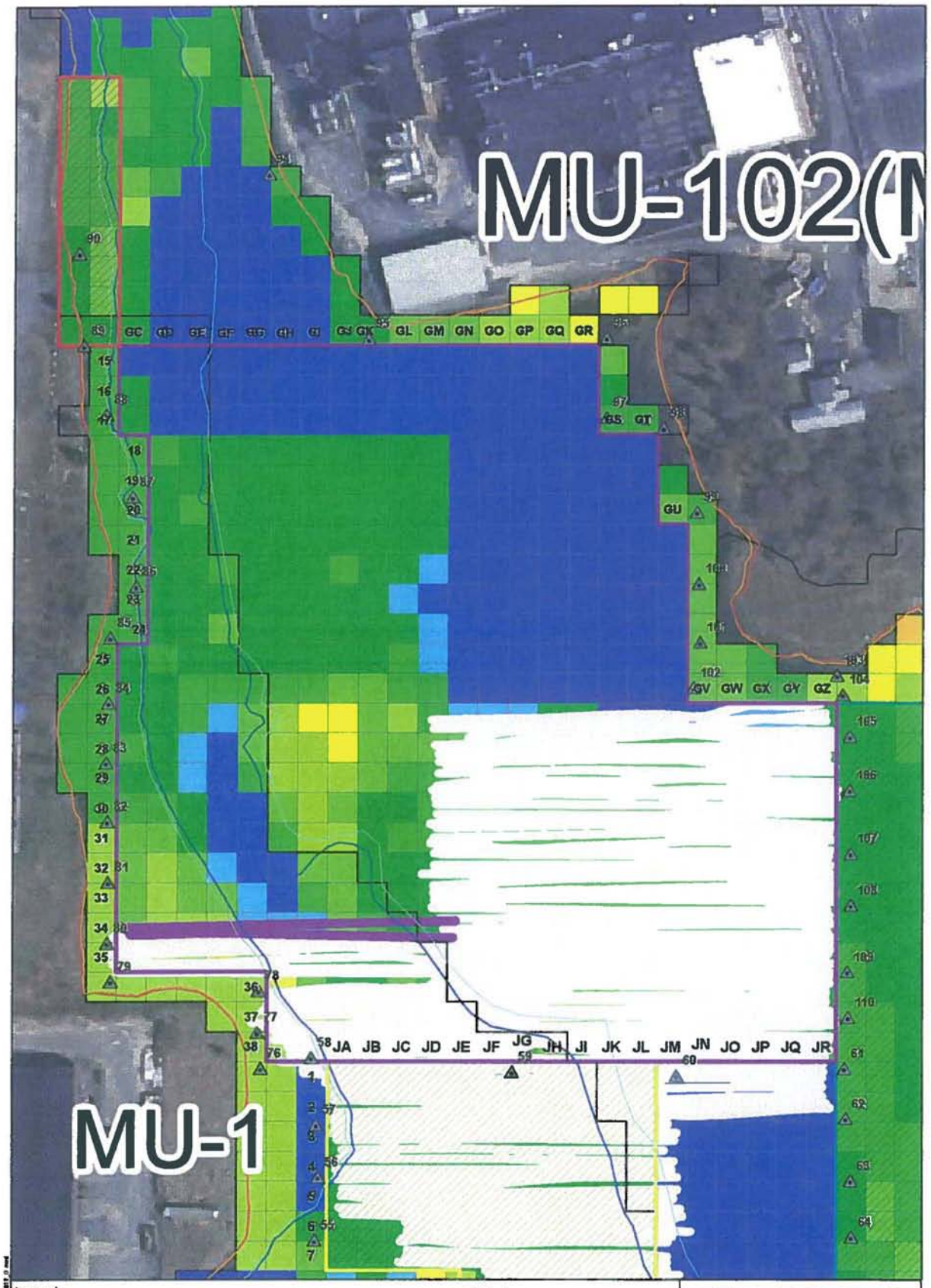
	PASSES; 0 ① COLUMN; 0 GM34SC GC34SC	PASSES; 0 ② COLUMN; 0 GM34NC GC34NC	PASSES; 0 ③ COLUMN; 0 GM34N GC34N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7	1.7				
GL	1.8	1.8				
GK	1.9	1.9				
GJ	1.3	1.3				
GI	1.1	1.1	N/C			
GH	1.8	1.8				
GG	2.2	2.2				
GF	3.0	3.0				
GE	2.7	2.7				
GD	3.1	3.1				
GC	2.9	2.9				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/19/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman / Zack Zito

	PASSES; (1) COLUMN; 0 KEEZN KYZN	PASSES; (2) COLUMN; 0 KEEZNC KYZNC	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	4.8					
KDD	3.9					
KCC	3.7					
KBB	3.8	NC				
KAA	3.6					
KZ	5.6					
KY	1.5					

NOTES:



Legend

8 foot buffer represending area of cut for 08/19/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2005

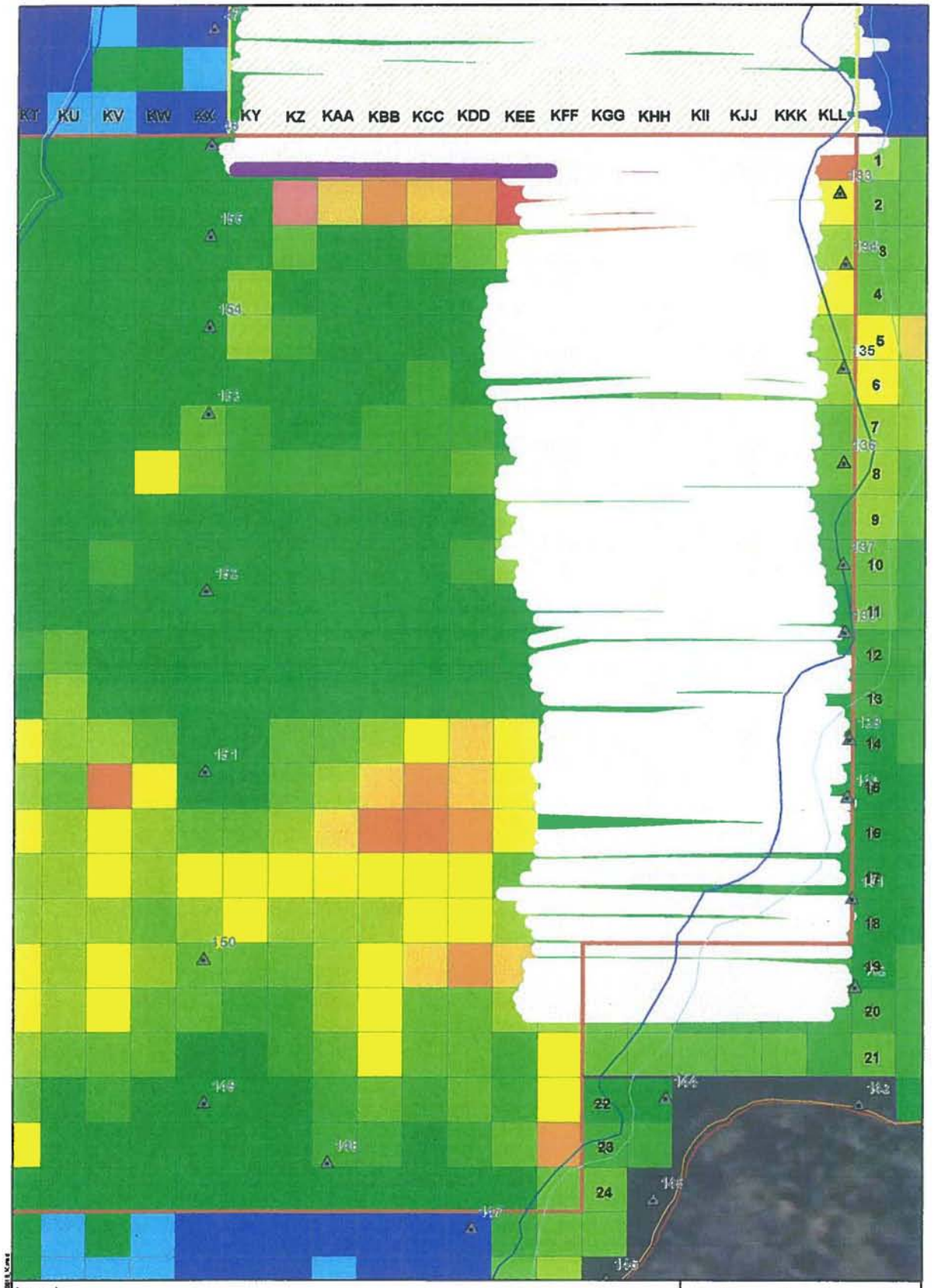
JACOBS

08/19/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 08/19/2010

08/19/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/19/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/19/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cmberts DATE: 08/19/2010

08/19/10-K

8/19/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM35SC	GC34SC	267	6	2.1	3364.2	402
GM34NC	GC34NC	275	6	2.1	3465	
KEE2N	KY2N	176	6	3.8	4012.8	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	21,745
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/17	309	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	
8/19/2010	GPS Estimate	402	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/18/10
DREDGE ENGINEER(S): Mike Tiebi. / Marc Friedman / Zach Bito

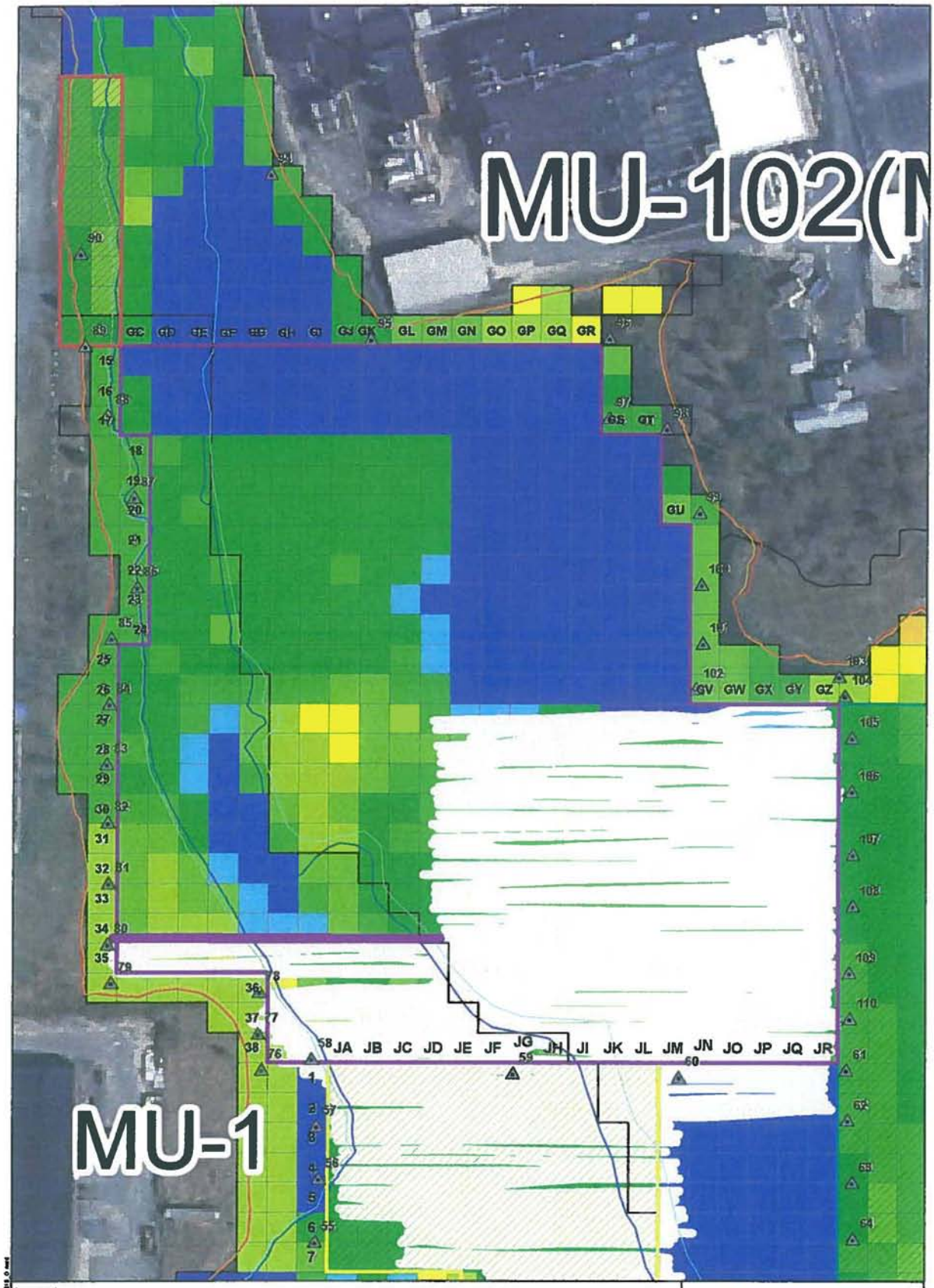
	PASSES; 0 COLUMN; 0 GM34S GC34S	PASSES; 0 COLUMN; 0 GM34SC GC34SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7					
GL	1.8					
GK	1.9					
GJ	1.3	N/C				
GI	1.1					
GH	1.8					
GG	2.2					
GF	3.0					
GE	2.7					
GD	3.1					
GC	2.9					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/18/10
DREDGE ENGINEER(S): Mike Tait / Marc Friedman / Zack Zite

	PASSES; COLUMN; 0 KEE1SC KY1SC	PASSES; COLUMN; 0 KEE1S KY1S	PASSES; COLUMN; 0 KEE 2N KY 2N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	5.0	5.0				
KDD	4.6	4.6				
KCC	4.0	4.0	N/C			
KBB	3.8	3.8				
KAA	6.0	6.0				
KZ	1.5	1.5				
KY	1.5	1.5				

NOTES:



Legend

8 foot buffer representing area of cut for 08/18/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

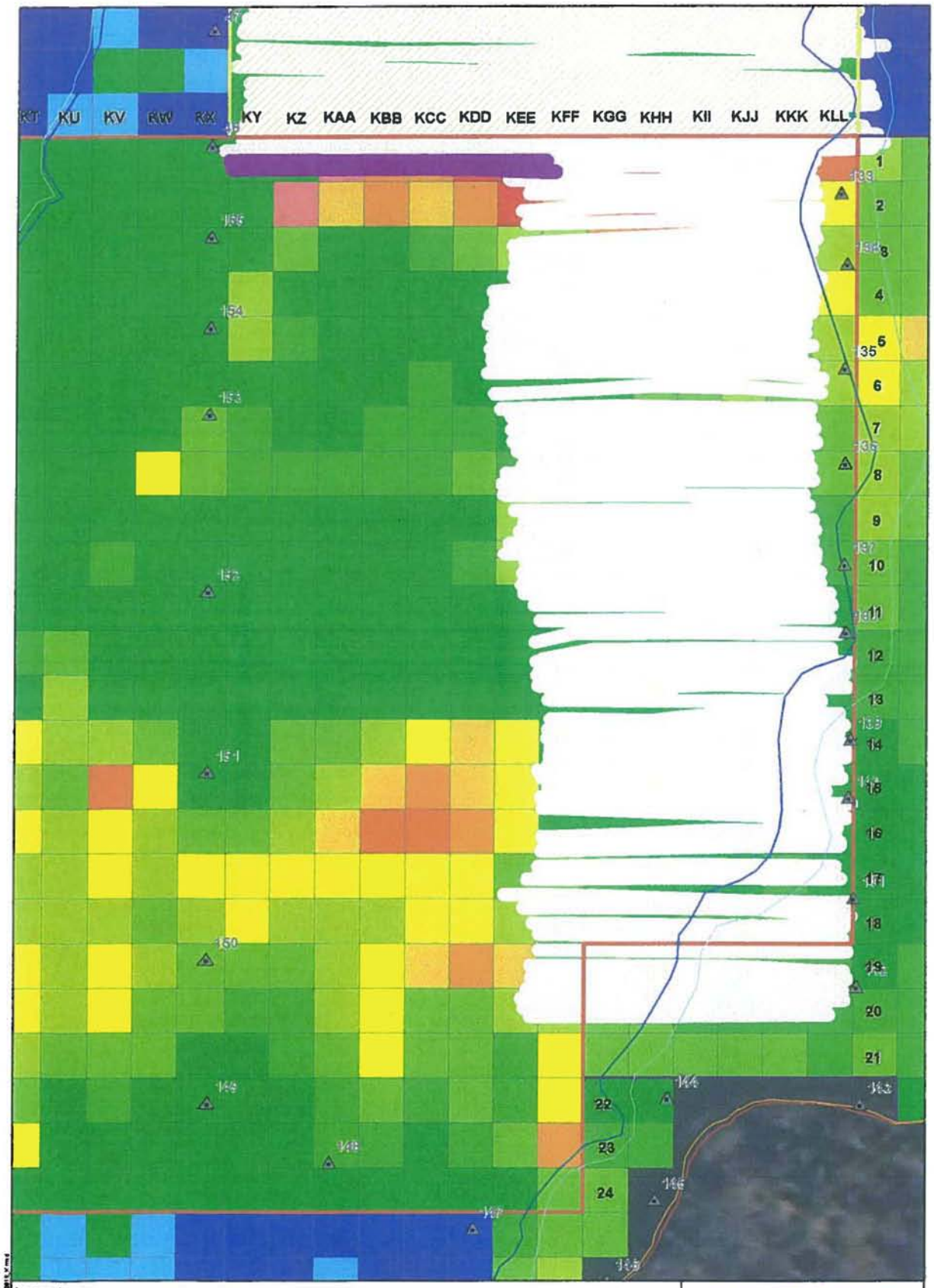
JACOBS

08/18/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/19/2010

08/18/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/18/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/18/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crotherts DATE: 09/08/2010 | 08/18/10-K

8/18/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM34S	GC34S	270	6	2.1	3402	426
KEE1SC	KY1SC	176	6	3.8	4012.8	
KEE1S	KY1S	179	6	3.8	4081.2	
					11496	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	21,745
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/17	309	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	
8/18/2010	GPS Estimate	426	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/17/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman / Zack Zito

	PASSES: ~~0~~ 35 COLUMN; 0 GM35N GC35N	PASSES; 0 COLUMN; 0 GM35S GC35S	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7					
GL	1.8					
GK	1.9					
GJ	1.3					
GI	1.1					
GH	1.8					
GG	2.2					
GF	3.0					
GE	2.7					
GD	3.1					
GC	2.9					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/17/10
DREDGE ENGINEER(S): Mike Trib. / Marc Friedman / Zack Tito

	PASSES; COLUMN; 0 KFF20N KLL20N	PASSES; COLUMN; 0 KFF20NC KLL20NC	PASSES; COLUMN; 0 KFF20SC KLL20SC	PASSES; 0 COLUMN; 0 KFF20S KLL20S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	2.2	2.2	2.2	2.2		
KGG	2.0	2.0	2.0	2.0		
KHH	2.0	2.0	2.0	2.0		
KII	1.8	1.8	1.8	1.8		
KJJ	1.7	1.7	1.7	1.7		
KKK	1.7	1.7	1.7	1.7		
KLL	1.4	1.4	1.4	1.4		

NOTES:

Stopped at KFF 20SC - KLL20SC
↳ was unable to get cutter head to grade due to rocks

Refer to page 2 of 2

turned dredge around and to new location

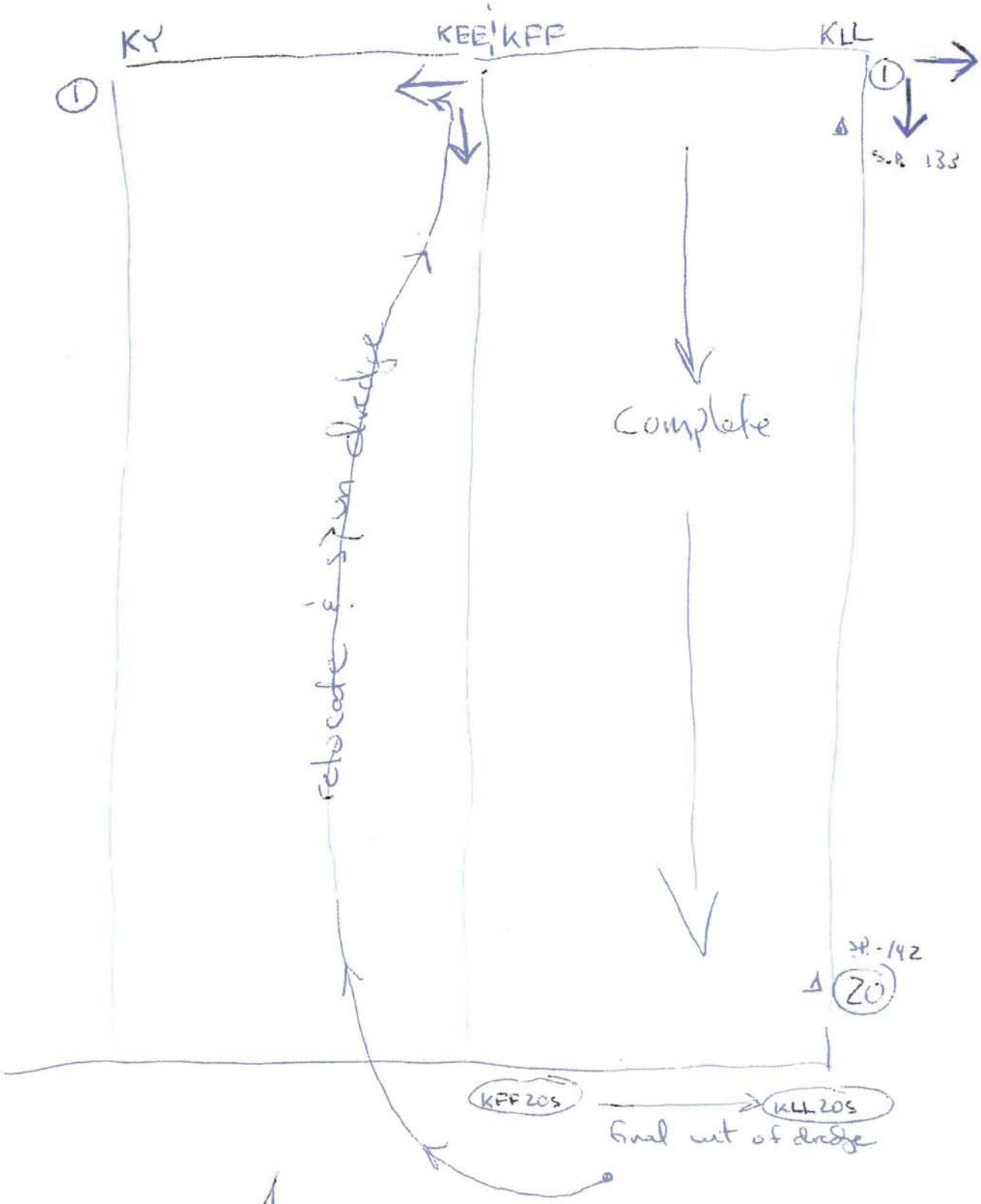
page 1 of 2

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/17/10
DREDGE ENGINEER(S): Mike Tash / Marc Friedman / Zach Zito

	PASSES; COLUMN; 0 KEE1NC KY1NC	PASSES; COLUMN; 0 KEE1SC KY1SC	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KEE	5					
KDD	4.6					
KCC	4.0	N/C				
KBB	3.8					
KAA	6					
KZ	1.5					
KY	1.5					

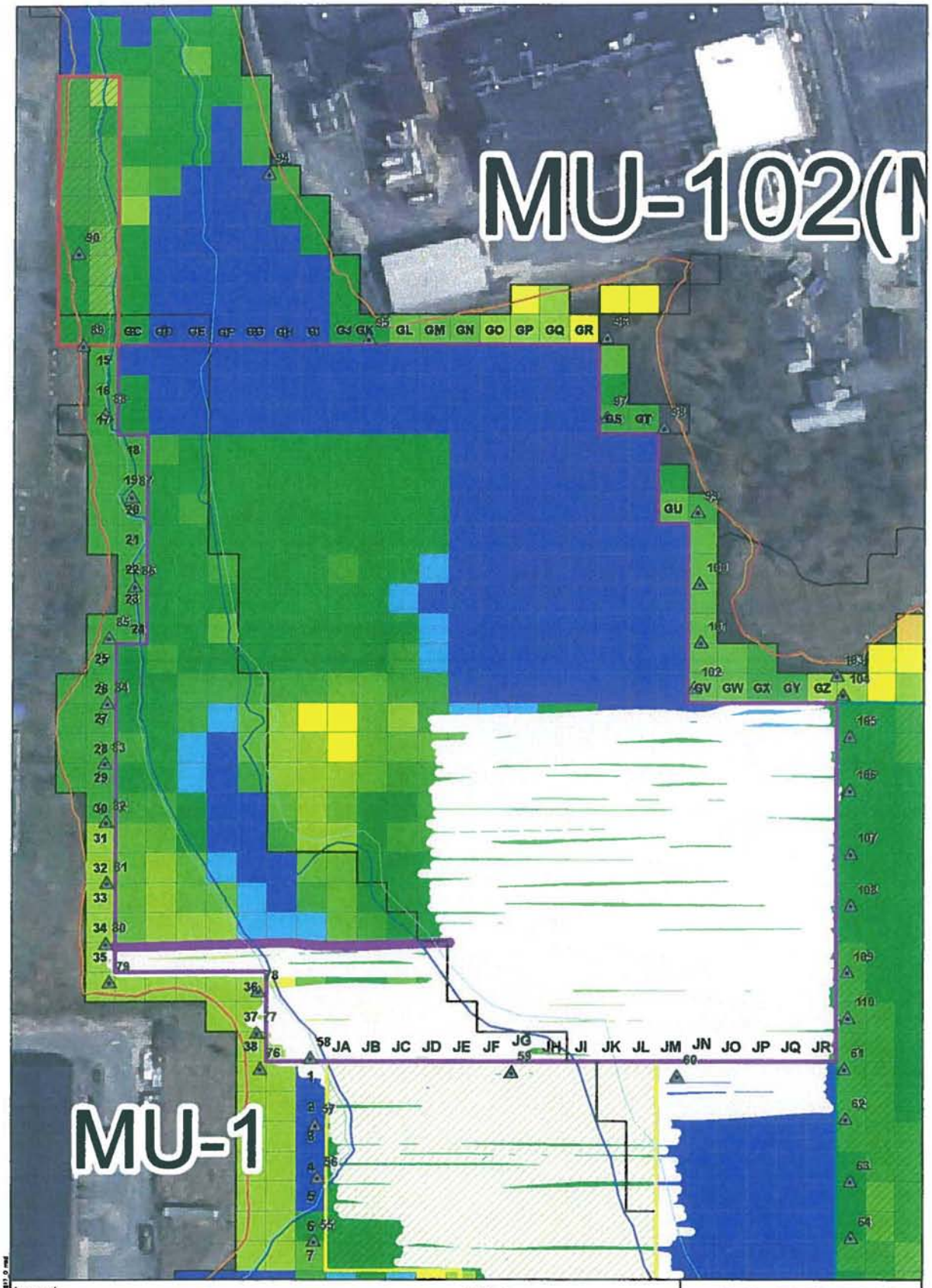
NOTES:

KEE 1 NC - KY1NC
x due to high winds & current kept dredge out of straight line. (may reflect on tomorrow's sheet.



ZONE 6
AREA K
8/17/10

Not to scale



Legend

8 foot buffer representing area of cut for 08/17/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

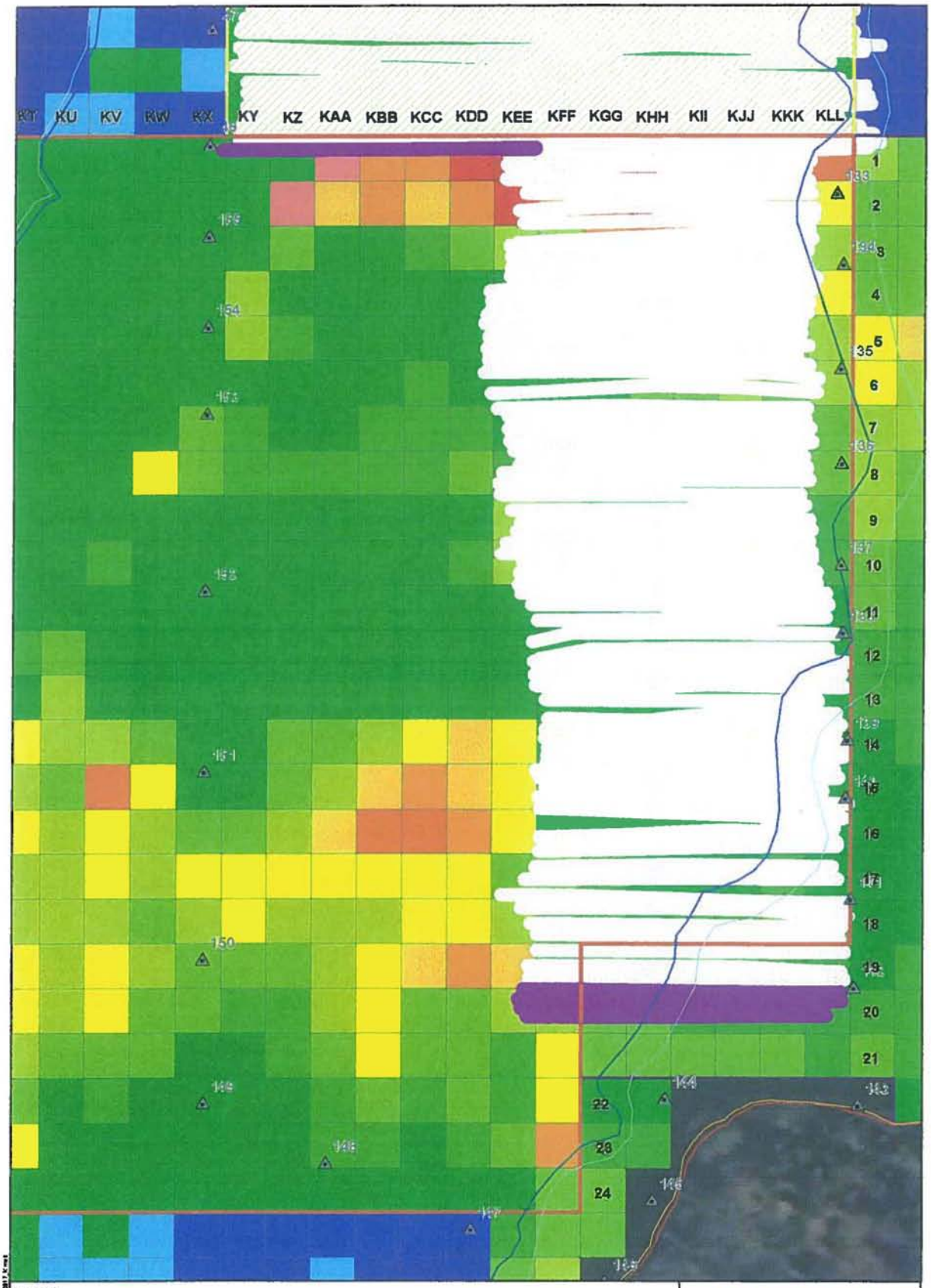
JACOBS

08/17/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/17/2010

08/17/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/17/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/17/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolberts DATE: 08/17/2010 08/17/10-K

8/17/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM35N	GC35N	277	6	1.9	3157.8	540
KFF20N	KLL20N	176	6	1.8	1900.8	
KFF20NC	KLL20NC	180	6	1.8	1944	
KFF20SC	KLL20SC	168	6	1.8	1814.4	
KFF20S	KLL20S	166	6	1.8	1792.8	
KEE1NC	KY1NC	174	6	3.8	3967.2	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	21,319
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
7/31/10-8/14/10	Bathy Survey 08/14/10	3,853	
DA M - Mechanical	Estimate 7/23-8/16	309	
8/16/2010	GPS Estimate	385	
8/17/2010	GPS Estimate	540	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/16/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman / Zack Zito

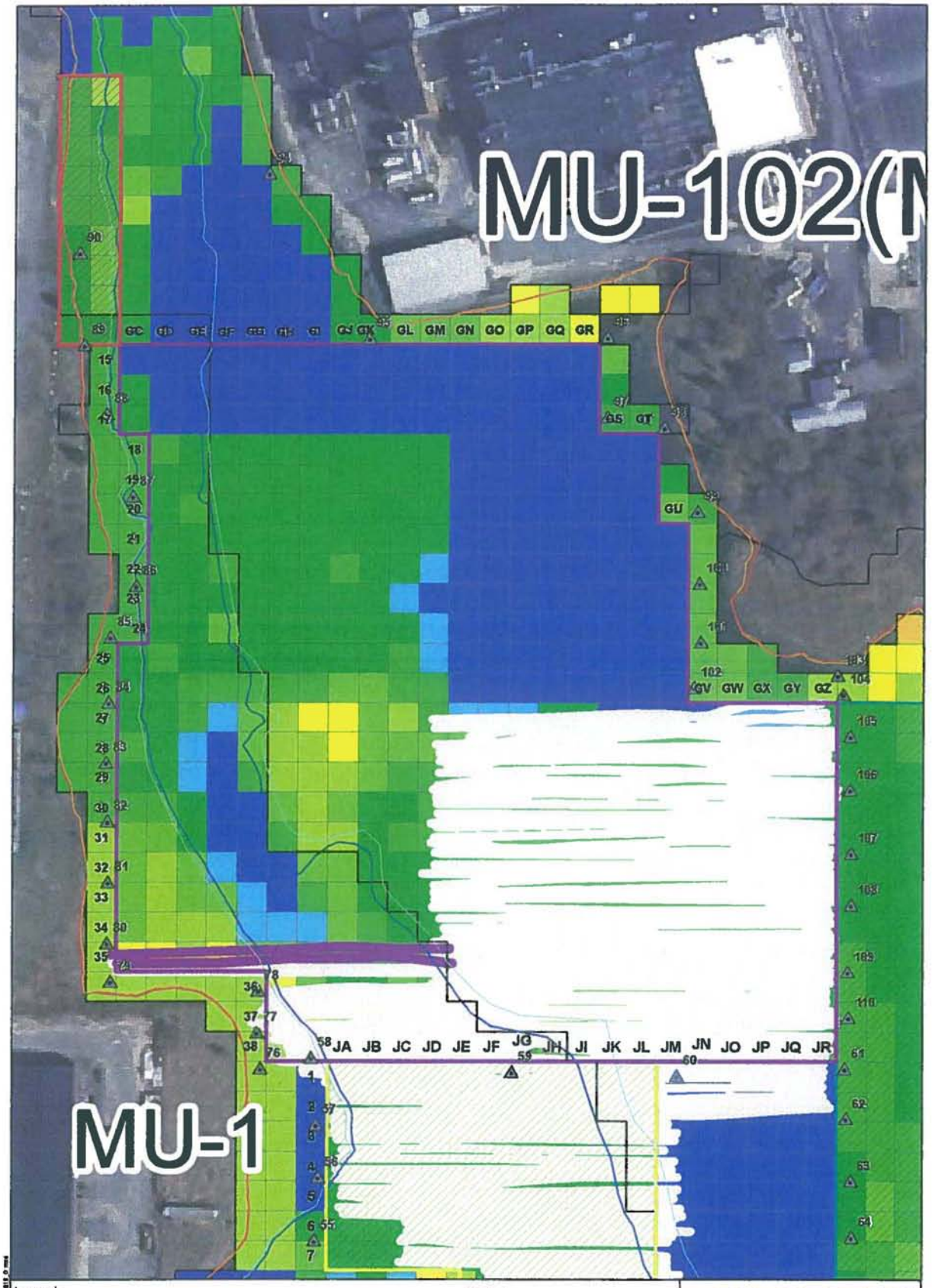
	PASSES; 0 COLUMN; 0 GM35SC GC35SC	PASSES; 0 COLUMN; 0 GM35NC GC35NC	PASSES; 0 COLUMN; 0 GM35N GC35N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7	1.7				
GL	1.8	1.8				
GK	1.9	1.9				
GJ	1.3	1.3	N/C			
GI	1.1	1.1				
GH	1.8	1.8				
GG	2.2	2.2				
GF	3.0	3.0				
GE	2.7	2.7				
GD	3.1	3.1				
GC	2.9	2.9				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/16/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

	PASSES; COLUMN; 0 KFF19SC KLL19SC	PASSES; COLUMN; 0 KFF19S KLL19S	PASSES; COLUMN; 0 KFF20N KLL20N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5				
KGG	1.8	1.8				
KHH	1.5	1.5	N/C			
KII	1.5	1.5				
KJJ	1.8	1.8				
KKK	1.7	1.7				
KLL	1.6	1.6				

NOTES:



Legend

8 foot buffer representing area of cut for 08/16/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

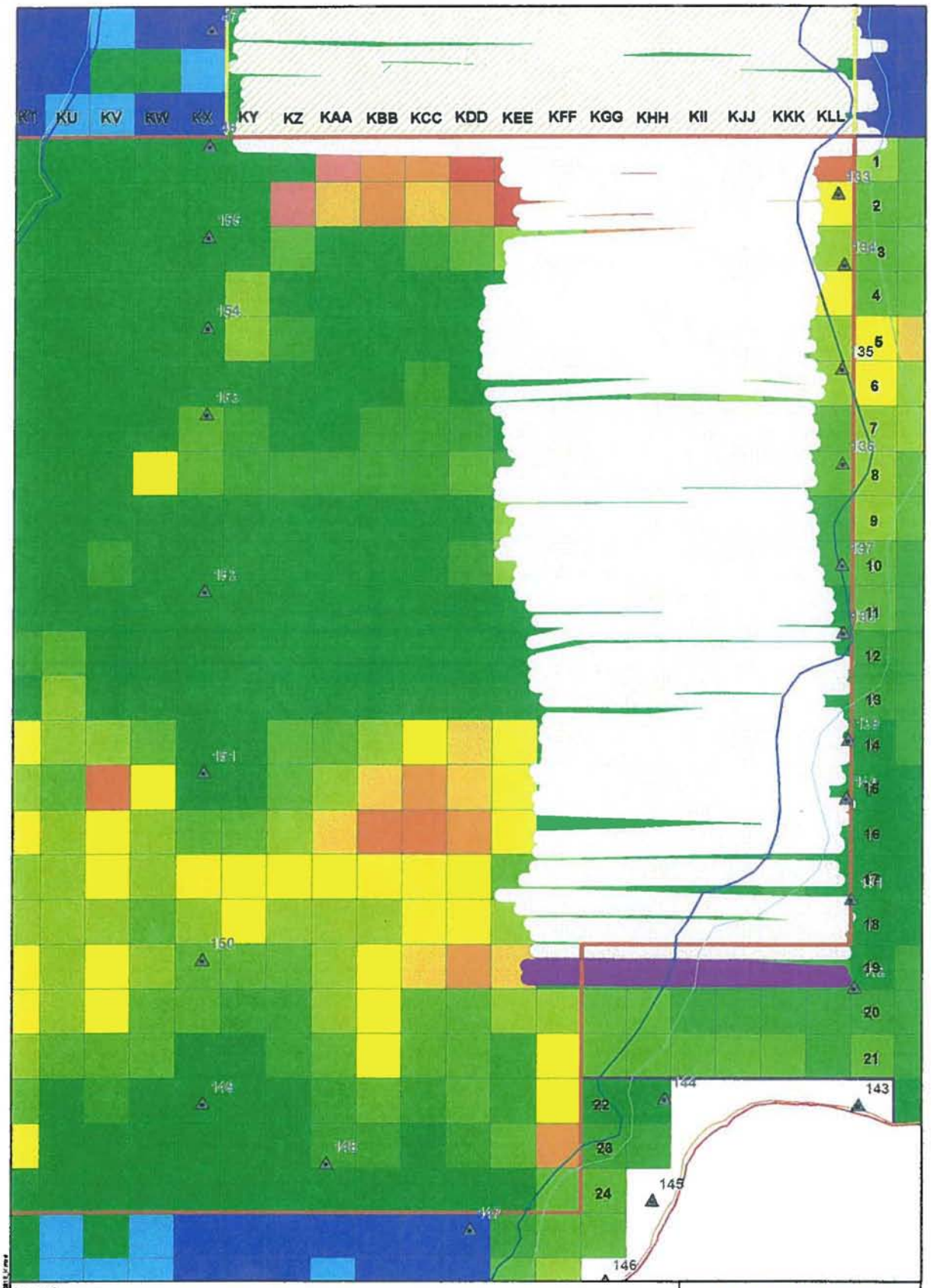
JACOBS

08/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/16/2010

08/16/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/16/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/16/2010 | 08/16/10-K

8/16/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM35SC	GC35SC	278	6	2.1	3502.8	385
GM35NC	GC35NC	281	6	2.1	3540.6	
KFF19SC	KLL19SC	174	6	1.6	1670.4	
KFF19S	KLL19S	176	6	1.6	1689.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	20,786
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
DA M - Mechanical	Estimate 7/23-8/16	309	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	
8/10/2010	GPS Estimate	299	
8/11/2010	GPS Estimate	439	
8/12/2010	GPS Estimate	348	
8/13/2010	GPS Estimate	258	
8/16/2010	GPS Estimate	385	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/13/10
DREDGE ENGINEER(S): Mike Taib / Marc Friedman

	PASSES; 0 COLUMN; 0 GM35S GC35S	PASSES; 0 COLUMN; 0 GM35SC GC35SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.7					
GL	1.8					
GK	1.9					
GJ	1.3					
GI	1.1	N/C				
GH	1.8					
GG	2.2					
GF	3.0					
GE	2.7					
GD	3.1					
GC	2.9					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/12/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

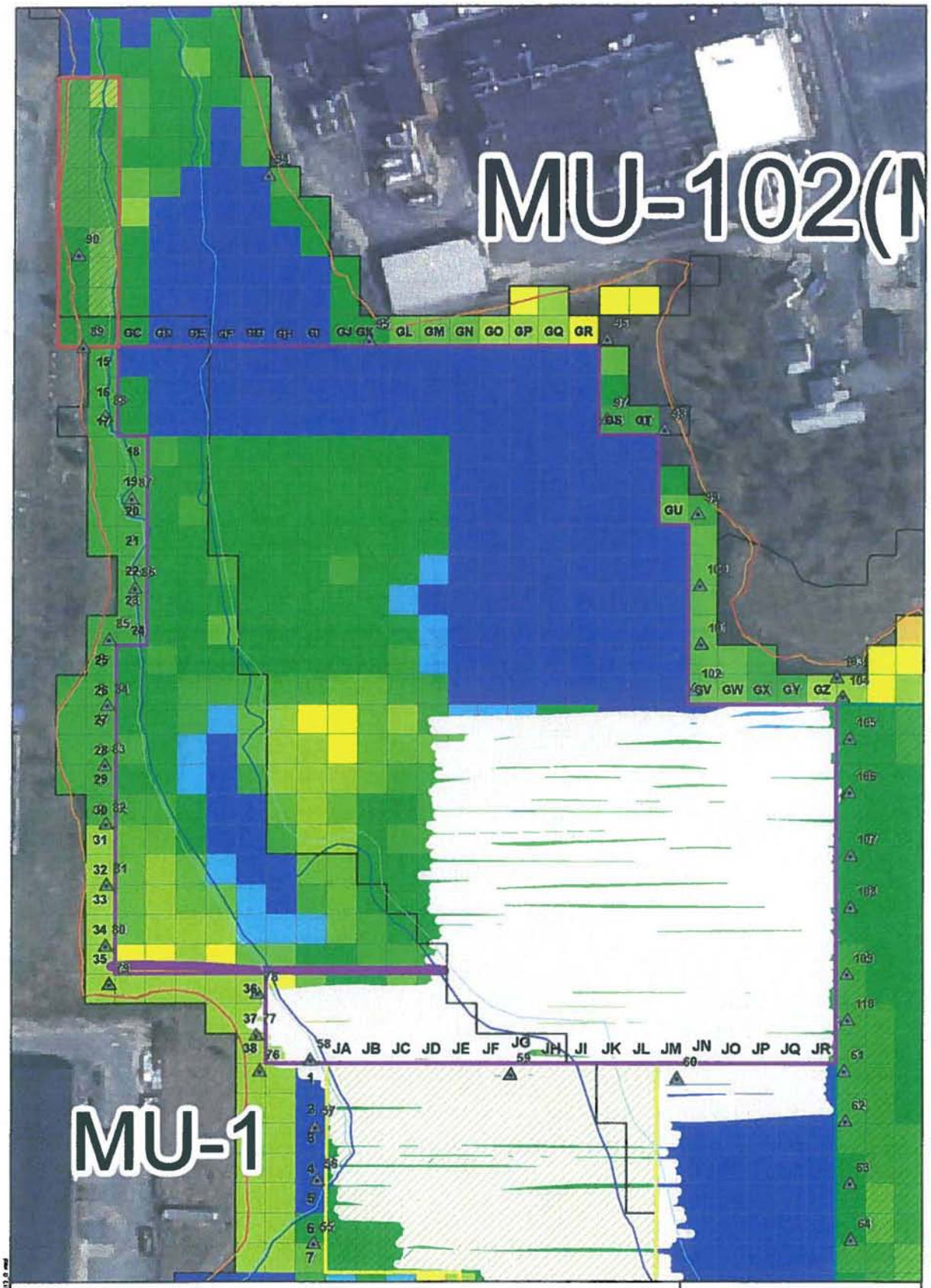
	PASSES; COLUMN; 0 KFF18N KLL18N	PASSES; COLUMN; 0 KFF18NC KLL18NC	PASSES: COLUMN; 0 KFF18SC KLL18SC	PASSES; 0 COLUMN; 0 KFF18S KLL18S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.8	1.8	1.8			
KGG	1.7	1.7	1.7			
KHH	1.5	1.5	1.5			
KII	1.7	1.7	1.7			
KJJ	1.9	1.9	1.9			
KKK	2.1	2.1	2.1			
KLL	2.0	2.0	2.0			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE ~~2~~ 6)
DATE: 8/13/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman

	PASSES; 0 COLUMN; 0 KFF 18S KLL18S	PASSES; 0 COLUMN; 0 KFF19N KLL19N	PASSES; 0 COLUMN; 0 KFF19NC KLL19NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.8	1.5	1.-			
KGG	1.7	1.8	.			
KHH	1.5	1.5	N/C			
KII	1.7	1.5				
KJJ	1.9	1.8	1			
KKK	2.1	1.7	1.			
KLL	2.0	1.6	1			

NOTES:



Legend

8 foot buffer representing area of cut for 08/12/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

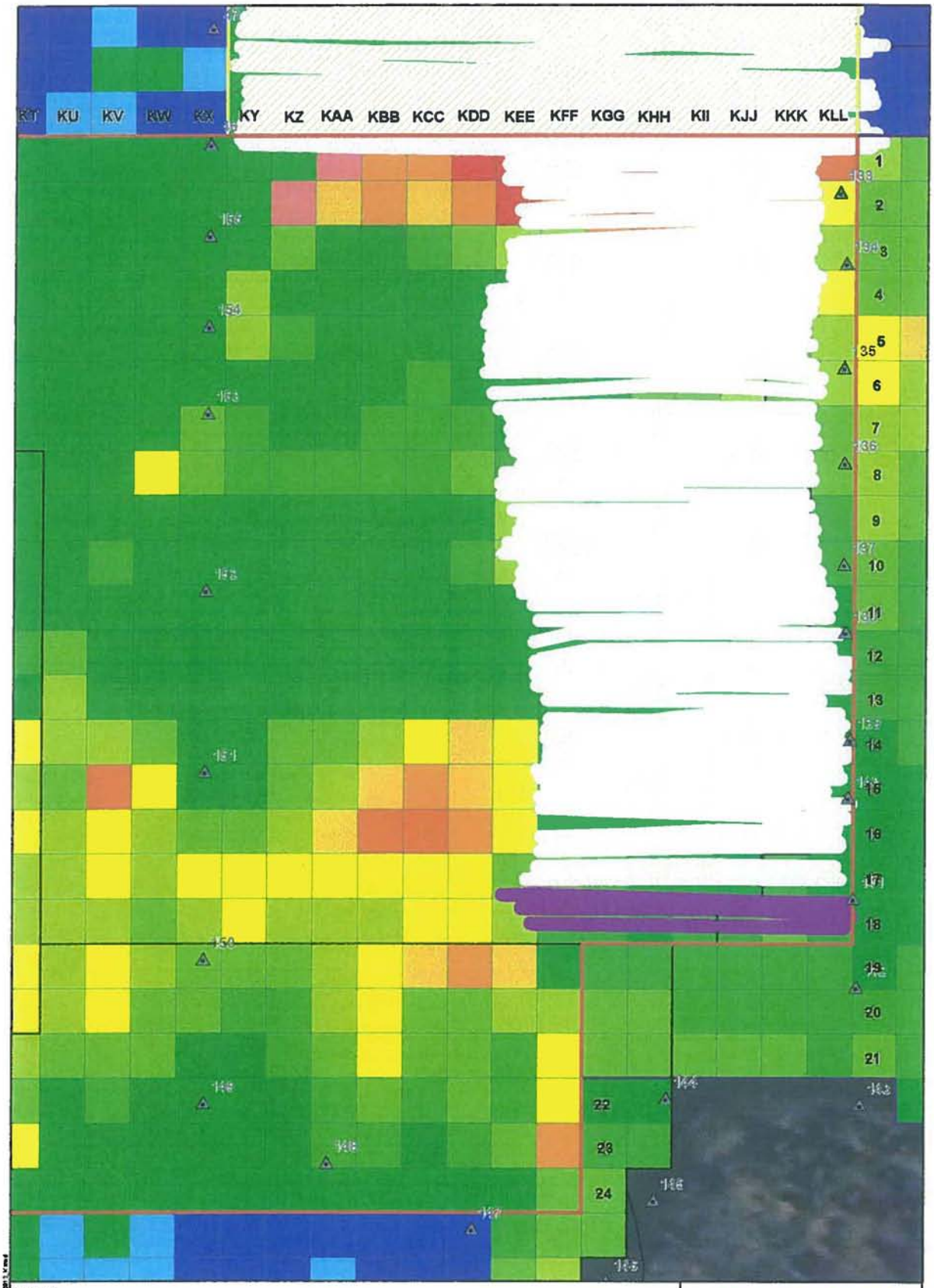
JACOBS

08/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/12/2010

08/12/10-G



JACOBS

08/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/12/2010 | 08/12/10-K

8/12/2010

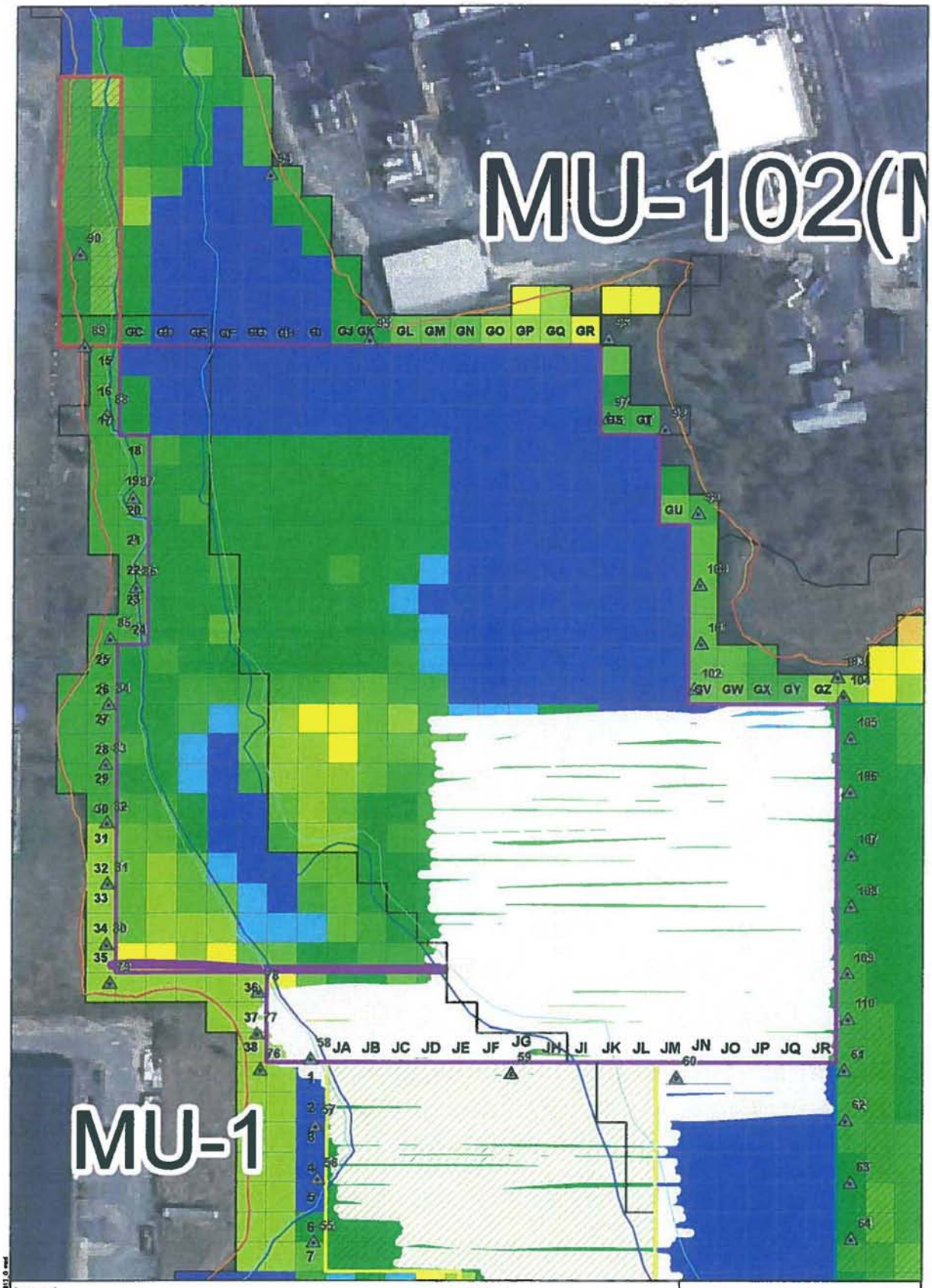
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM36N	GC36N	276	6	2.1	3477.6	348
KFF18N	KLL18N	191	6	1.8	2062.8	
KFF18NC	KLL18NC	183	6	1.8	1976.4	
KFF18SC	KLL18SC	173	6	1.8	1868.4	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	20,104
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
DA M - Mechanical	Estimate 7/23-8/12	270	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	
8/10/2010	GPS Estimate	299	
8/11/2010	GPS Estimate	439	
8/12/2010	GPS Estimate	348	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/12/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zite

	PASSES; COLUMN; 0 KFF18N KLL18N	PASSES; COLUMN; 0 KFF18NC KLL18NC	PASSES; COLUMN; 0 KFF18SC KLL18SC	PASSES; 0 COLUMN; 0 KFF18S KLL18S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.8	1.8	1.8			
KGG	1.7	1.7	1.7			
KHH	1.5	1.5	1.5			
KII	1.7	1.7	1.7			
KJJ	1.9	1.9	1.9			
KKK	2.1	2.1	2.1			
KLL	2.0	2.0	2.0			

NOTES:



Legend

8 foot buffer represending area of cut for 08/12/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.6
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

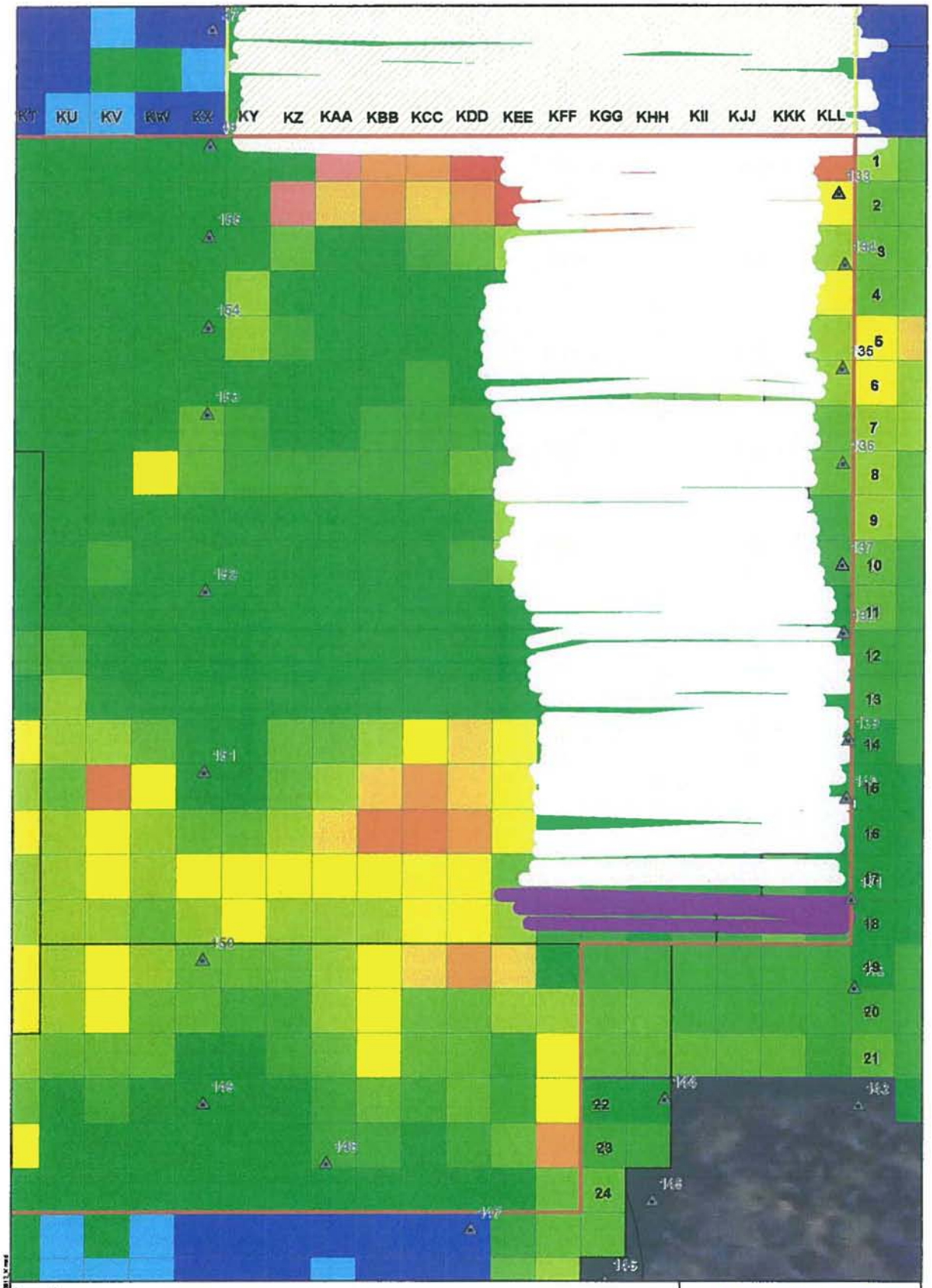
JACOBS

08/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/12/2010

08/12/10-G



JACOBS

08/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobers DATE: 08/12/2010 08/12/10-K

8/12/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM36N	GC36N	276	6	2.1	3477.6	348
KFF18N	KLL18N	191	6	1.8	2062.8	
KFF18NC	KLL18NC	183	6	1.8	1976.4	
KFF18SC	KLL18SC	173	6	1.8	1868.4	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	20,104
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
DA M - Mechanical	Estimate 7/23-8/12	270	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	
8/10/2010	GPS Estimate	299	
8/11/2010	GPS Estimate	439	
8/12/2010	GPS Estimate	348	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/11/10
DREDGE ENGINEER(S): Mike Tab. / Marc Friedman / Zack Zito

	PASSES; 0 COLUMN; 0 GQ36SC GH36SC	PASSES; 0 COLUMN; 0 GQ36NC GH36NC	PASSES; 0 COLUMN; 0 GQ36N GC36N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GQ	1.7	1.7				
GP	1.5	1.5				
GO	1.7	1.7				
GN	1.9	1.9				
GM	1.8	1.8	N/C			
GL	2.1	2.1				
GK	1.5	1.5				
GJ	1.4	1.4				
GI	1.7	1.7				
GH	2.8	2.8				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/11/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

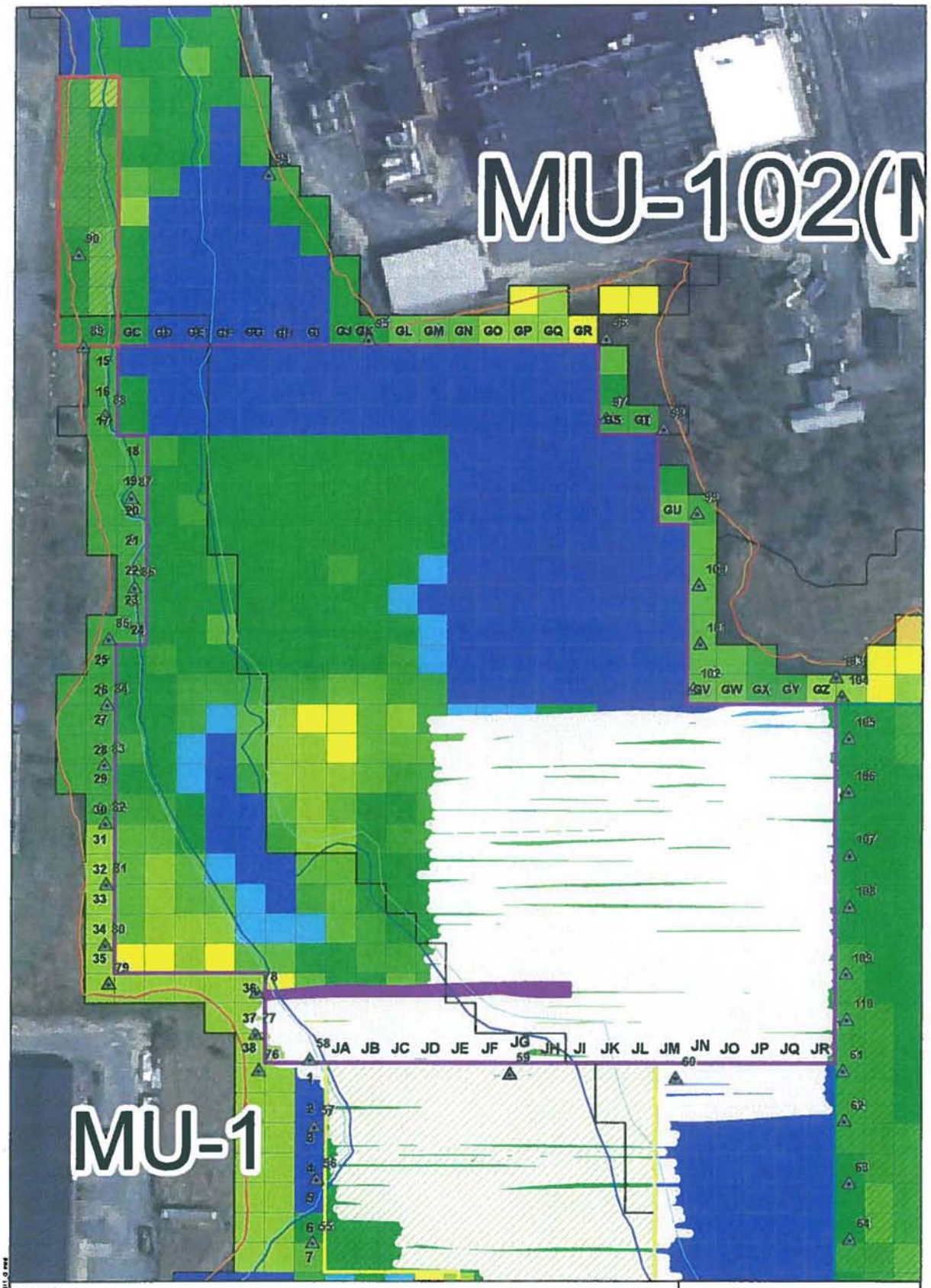
	PASSES; COLUMN; 0 kFF17N kLL17N	PASSES; COLUMN; 0 kFF17NC kLL17NC	PASSES; COLUMN; 0 kFF17SC kLL17SC	PASSES; 0 COLUMN; 0 kFF17S kLL17S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
kFF	2.0	2.0	2.0	2.0		
kGG	1.8	1.8	1.8	1.8		
kHH	1.5	1.5	1.5	1.5		
kII	1.5	1.5	1.5	1.5		
kJJ	1.5	1.5	1.5	1.5		
kKK	1.5	1.5	1.5	1.5		
kLL	1.5	1.5	1.5	1.5		

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/11/10
DREDGE ENGINEER(S): Mike Taib. / Marc Friedman / Zack Zite

	PASSES; COLUMN; 0 KFF18N KLL18N	PASSES; COLUMN; 0	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF						
KGG						
KHH						
KII	N/C					
KJJ						
KKK						
KLL						

NOTES:



Legend

8 foot buffer represending area of cut for 08/11/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

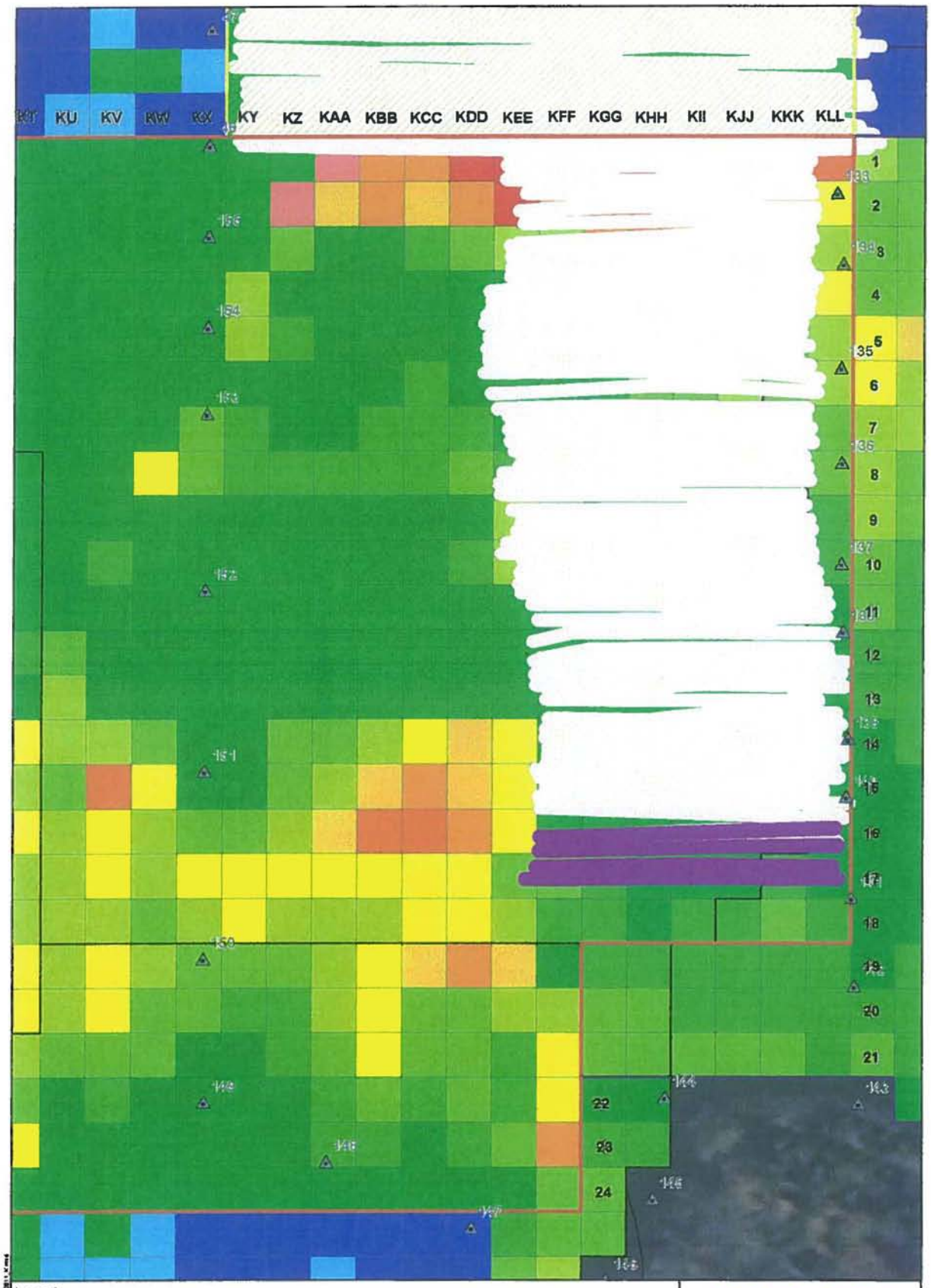
JACOBS

08/11/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertsDATE: 08/11/2010

08/11/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/11/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/11/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crabarts DATE: 08/11/2010

08/11/10-K

8/11/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GQ36SC	GH36SC	251	6	1.8	2710.8	439
GQ36NC	GH36SNC	251	6	1.8	2710.8	
KFF17N	KLL17N	164	6	1.6	1574.4	
KFF17NC	KLL17NC	166	6	1.6	1593.6	
KFF17SC	KLL17SC	166	6	1.6	1593.6	
KFF17S	KLL17S	174	6	1.6	1670.4	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	19,486
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	
8/10/2010	GPS Estimate	299	
8/11/2010	GPS Estimate	439	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/9/10
DREDGE ENGINEER(S): Mike Tab. / Mark Friedman / Zack Z.

	PASSES; COLUMN; 0 KFF 15 NC KLL 15 NC	PASSES; COLUMN; 0 KFF 15 SC KLL 15 SC	PASSES; COLUMN; 0 KFF 15 S KLL 15 S	PASSES; 0 COLUMN; 0 KFF 10 N KLL 10 N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5	1.5	1.5		
KGG	1.5	1.5	1.5	1.5		
KHH	1.5	1.5	1.5	1.5		
KII	1.5	1.5	1.5	1.5		
KJJ	1.5	1.5	1.5	1.5		
KKK	1.5	1.5	1.5	1.5		
KLL	1.5	1.5	1.5	1.5		

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/10/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zach Zito

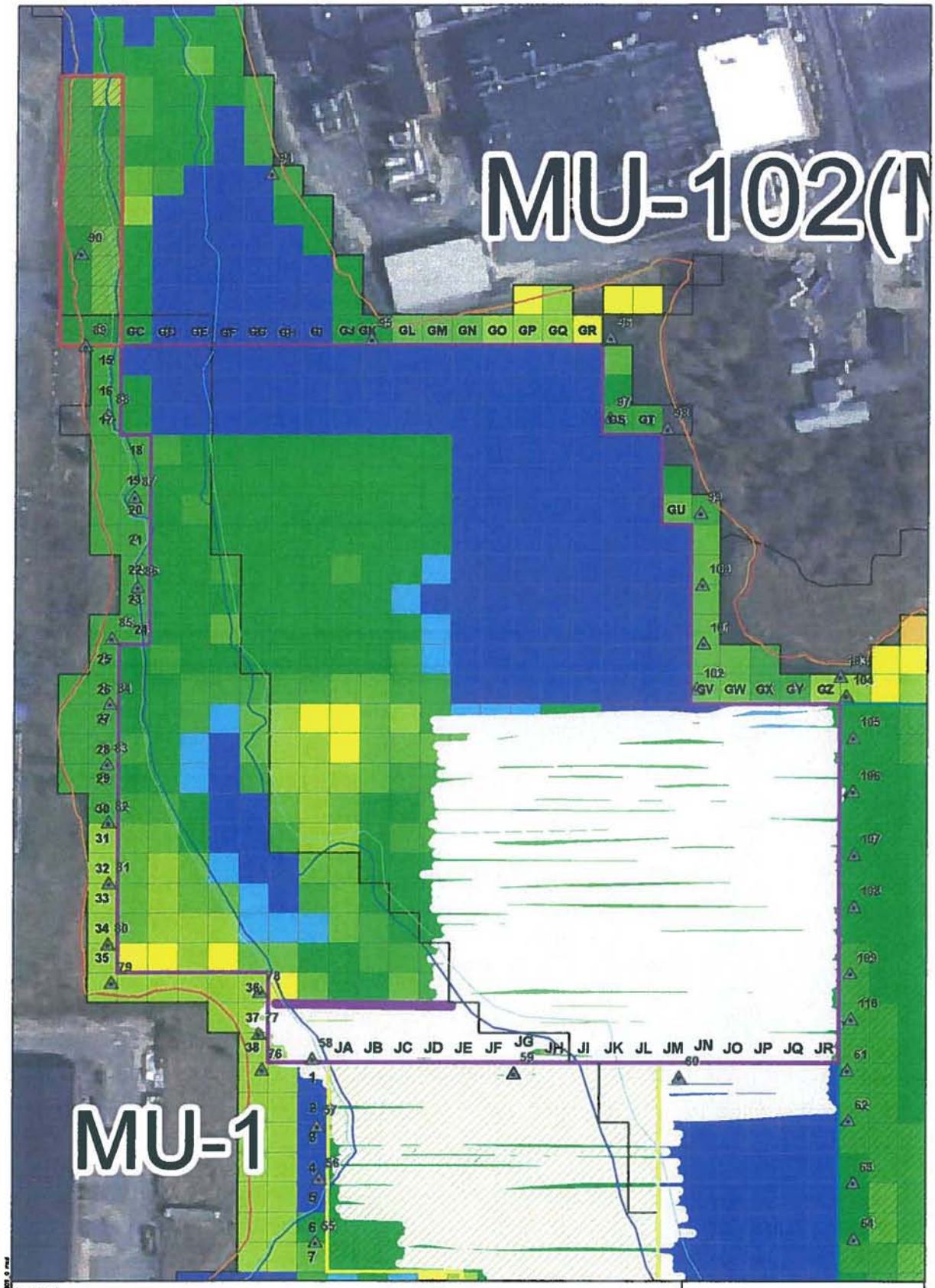
	PASSES; 1 COLUMN; 0 kFF16SC kLL16SC	PASSES; 2 COLUMN; 0 kFF16S kLL16S	PASSES; COLUMN; 0 kFF17N kLL17N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
kFF	1.5	1.5				
kGG	1.5	1.5				
kHH	1.5	1.5				
kII	1.5	1.5	N/C			
kJJ	1.5	1.5				
kkk	1.5	1.5				
kLL	1.5	1.5				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/9/10
DREDGE ENGINEER(S): Mike Taibi / Mark Friedman / Zack Fite

	PASSES; COLUMN; 0 KFF16NC KLL16NC	PASSES; COLUMN; 0 KFF16SC KLL16SC	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5					
KGG	1.5					
KHH	1.5	N/C				
KII	1.5					
KJJ	1.5					
KKK	1.5					
KLL	1.5					

NOTES:



Legend

8 foot buffer represending area of cut for 08/09/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

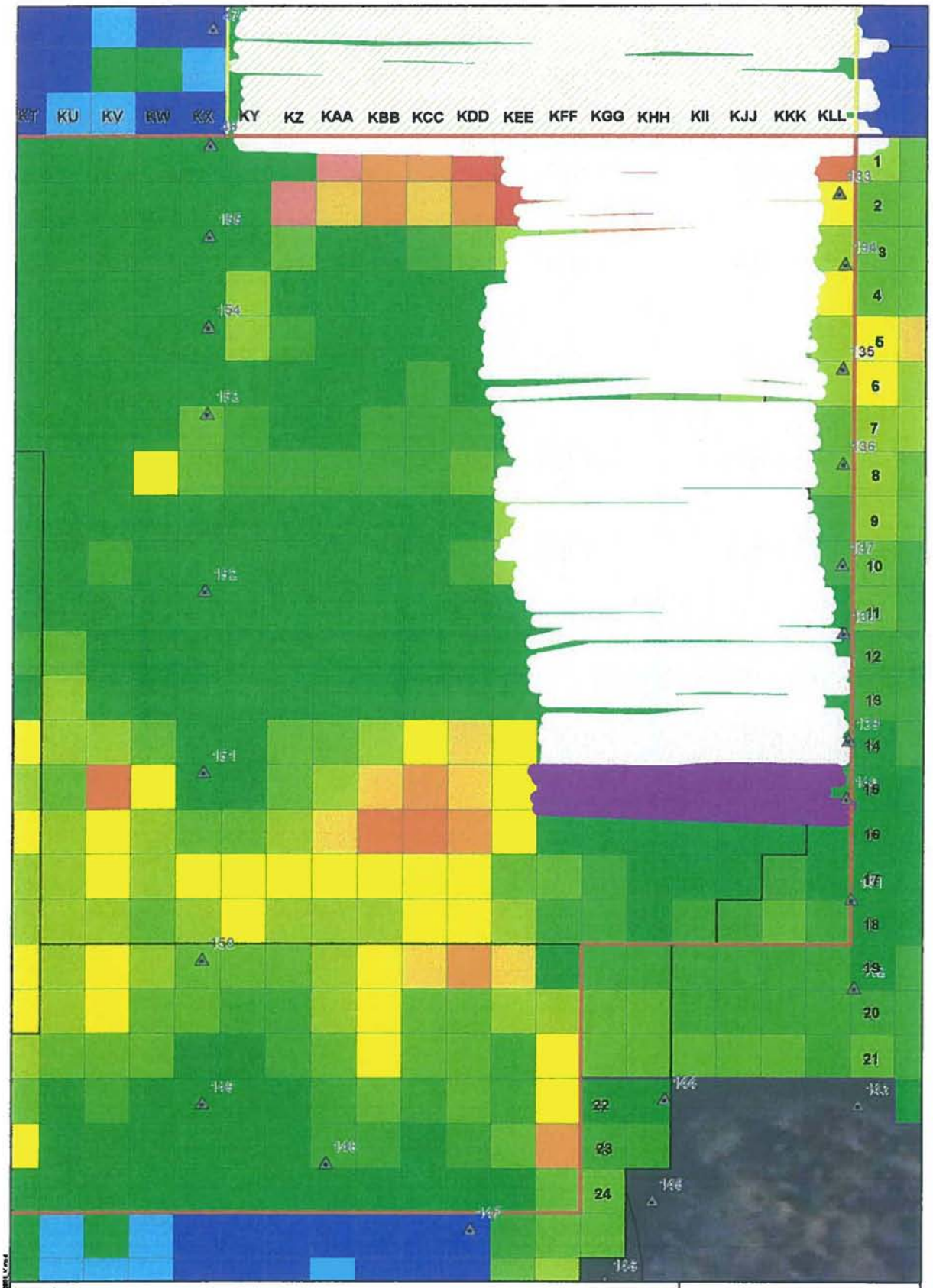
JACOBS

08/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/09/2010

08/09/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/09/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobarts DATE: 08/09/2010 08/09/10-K

8/9/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM37N	GH37N	145	6	2.1	1827	345
KFF15NC	KLL15NC	167	6	1.5	1503	
KFF15SC	KLL15SC	167	6	1.5	1503	
KFF15S	KLL15S	155	6	1.5	1395	
KFF16N	KLL16N	173	6	1.5	1557	
KFF16NC	KLL16NC	169	6	1.5	1521	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	18,748
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/10/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zach Zite

	PASSES; 2 COLUMN; 0 GQ36S GH36S	PASSES; 0 COLUMN: 0 GQ36SC GH36SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GQ	1.7					
GP	1.5					
GO	1.7					
GN	1.9					
GM	1.9	N/C				
GL	2.1					
GK	1.5					
GJ	1.4					
GI	1.7					
GH	2.8					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/10/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

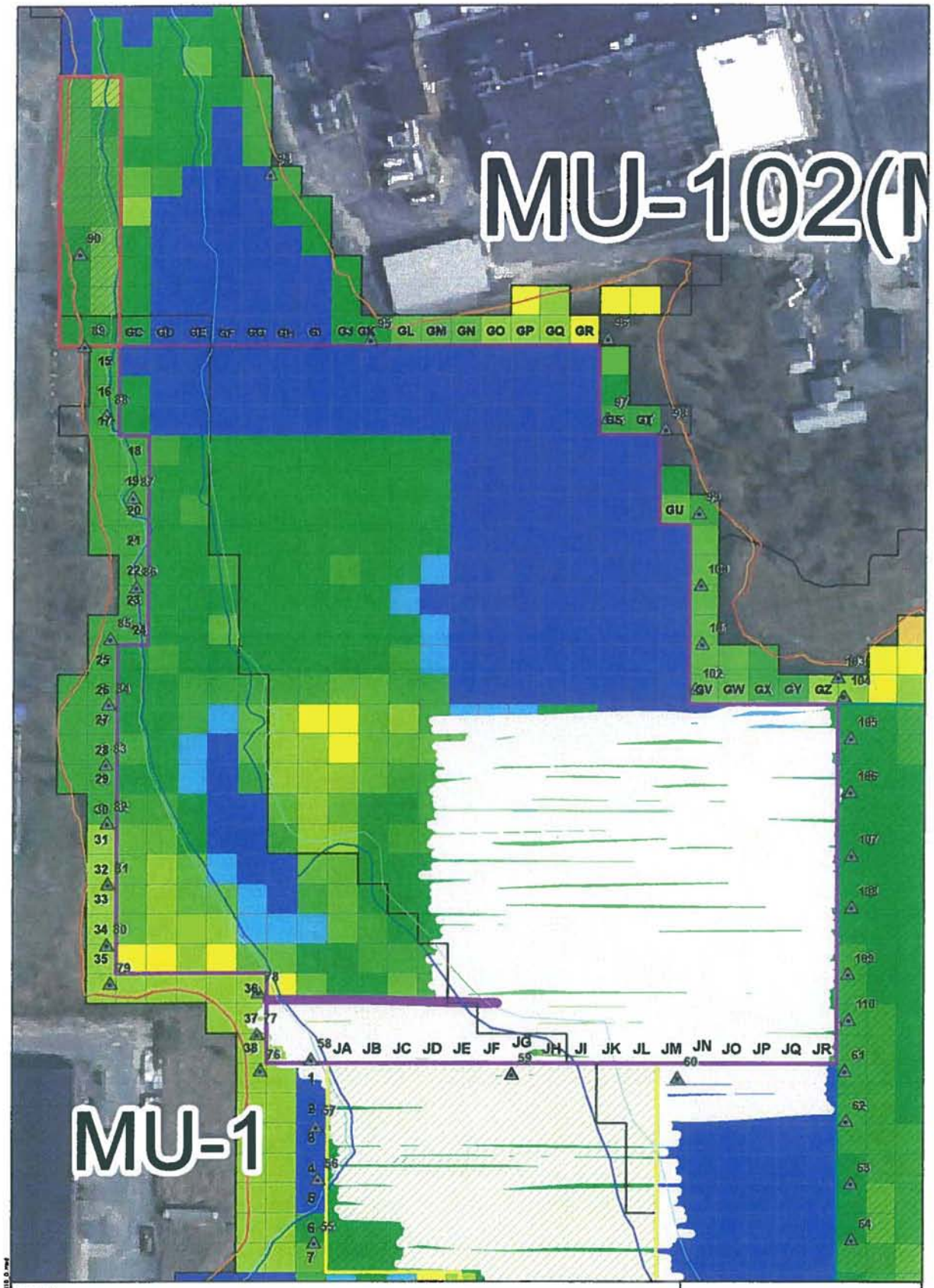
	PASSES; 1 COLUMN; 0 KFF16SC KLL16SC	PASSES; 2 COLUMN; 0 KFF16S KLL16S	PASSES; COLUMN; 0 KFF17N KLL17N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5				
KGG	1.5	1.5				
KHH	1.5	1.5				
KII	1.5	1.5	N/C			
KJJ	1.5	1.5				
KKK	1.5	1.5				
KLL	1.5	1.5				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA L / ZONE 4)
DATE: 8/10/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman / Zack [illegible]

	PASSES; 5 COLUMN; 0 LP1N LCC1N	PASSES; 0 COLUMN; 0 LP1NC LCC1NC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW SOUTH TO NORTH	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
LP	1.0					
LQ	1.2					
LR	1.1					
LS	1.0	N/C				
LT	1.0					
LU	1.0					
LV	1.0					
LW	1.1					
LX	1.0					
LY	1.0					
LZ	1.0					
LAA	1.2					
LBB	1.1					
LCC	1.0					

NOTES:



Legend

- 8 foot buffer represending area of cut for 08/10/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities
- Previously Dredged Areas
- Dredge Area M
- Dredge Area G
- Dredge Area J
- 2010Sheet Pile Locations

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6- 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1- 4.5
- 4.6- 5.0
- 5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2008

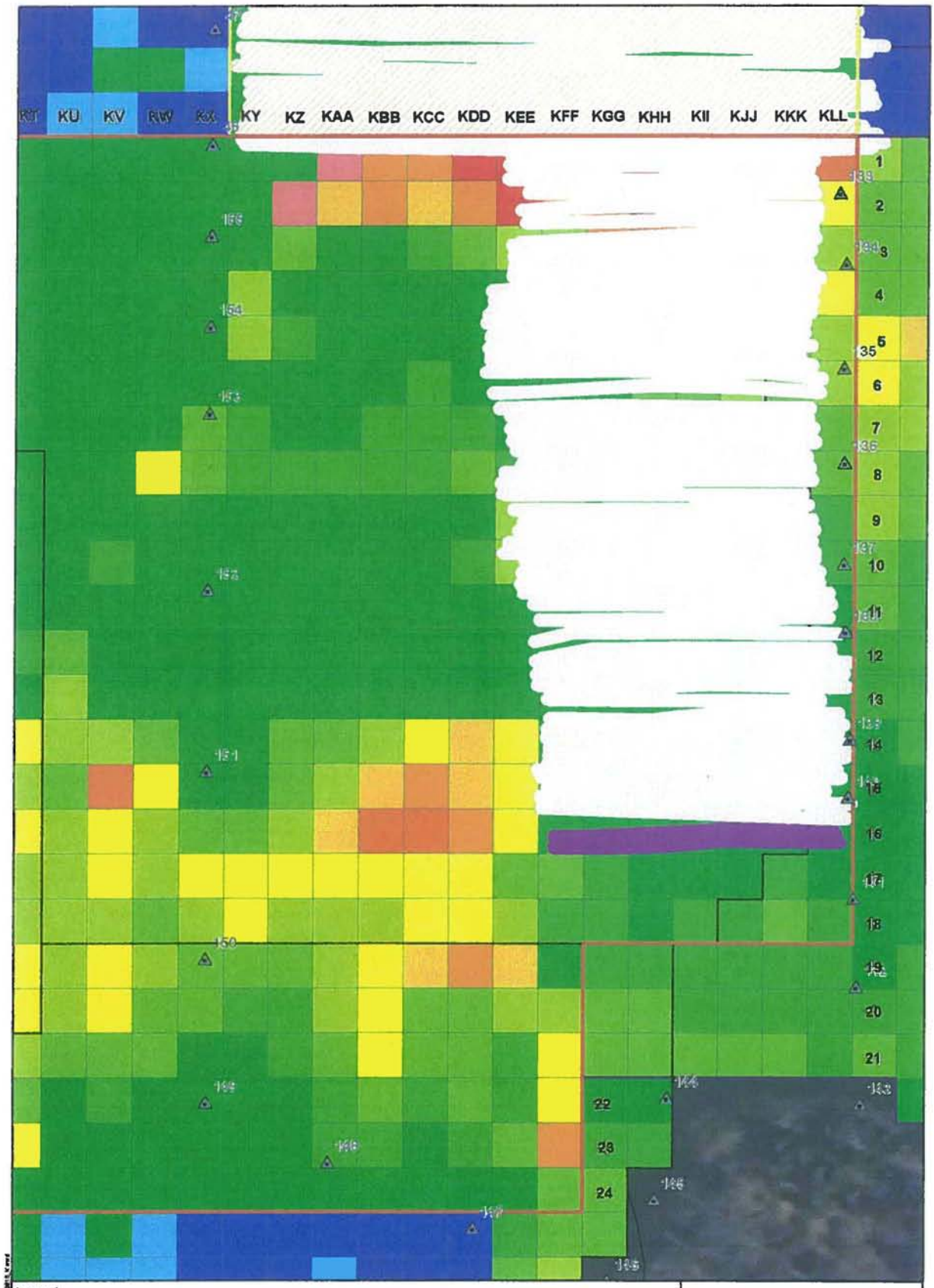
JACOBS

08/10/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/10/2010

08/10/10-G



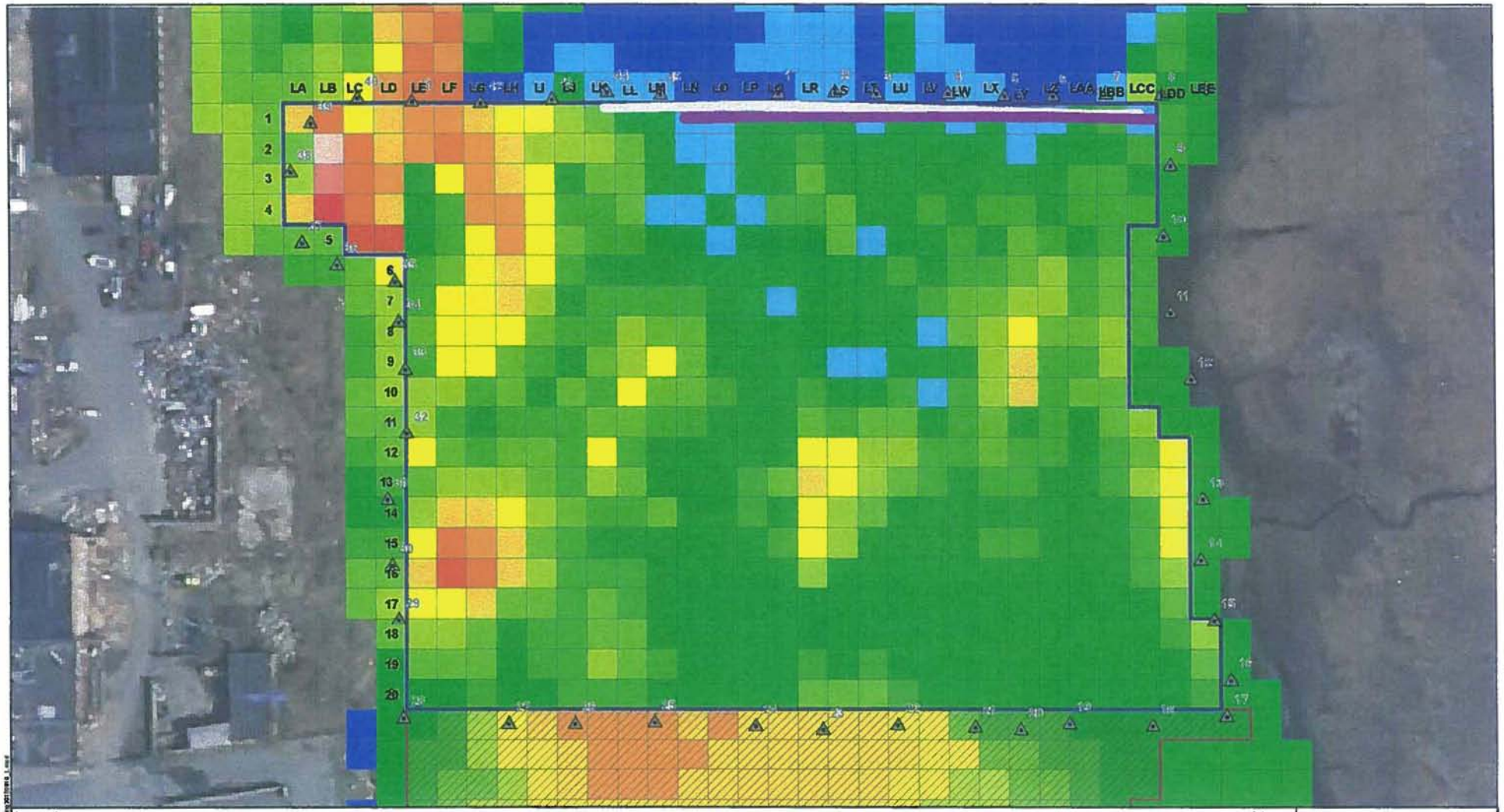
JACOBS

08/10/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 08/10/2010

08/10/10-K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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Legend
ZBlock
0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
5.5 - 6.0
6.0 - 6.2
2010 Dredge Area L
2010 Dredge Area P
Sheet Pile Locations
8 foot buffer represending area of cut for 08/10/10
8 foot buffer representing area of cut from previous 2010 dredging activities
MLLW
MLW
MHW
MHHW
0 37.5 75
Feet
1:900
N
JACOBS
08/10/10 Dredging with GPS Locations (area of dredging was interpreted)
New Bedford Harbor Superfund Site
DATE: 08/10/2010
08/10/10-L

8/10/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GQ36S	GH36S	190	6	1.8	2052	299
LP1N	LCC1N	156	6	1.1	1029.6	
KFF16SC	KLL16SC	158	6	1.5	1422	
KFF16S	KLL16S	398	6	1.5	3582	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	19,047
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	
8/9/2010	GPS Estimate	345	
8/10/2010	GPS Estimate	299	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE:
DREDGE ENGINEER(S):

	PASSES; 0 COLUMN; 0 GM 37NC GH 37NC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.2					
GL	1.9					
GK	1.6					
GJ	2.1					
GI	2.7					
GH	2.2					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/6/10
DREDGE ENGINEER(S): Marc Friedman / Jacob Morris

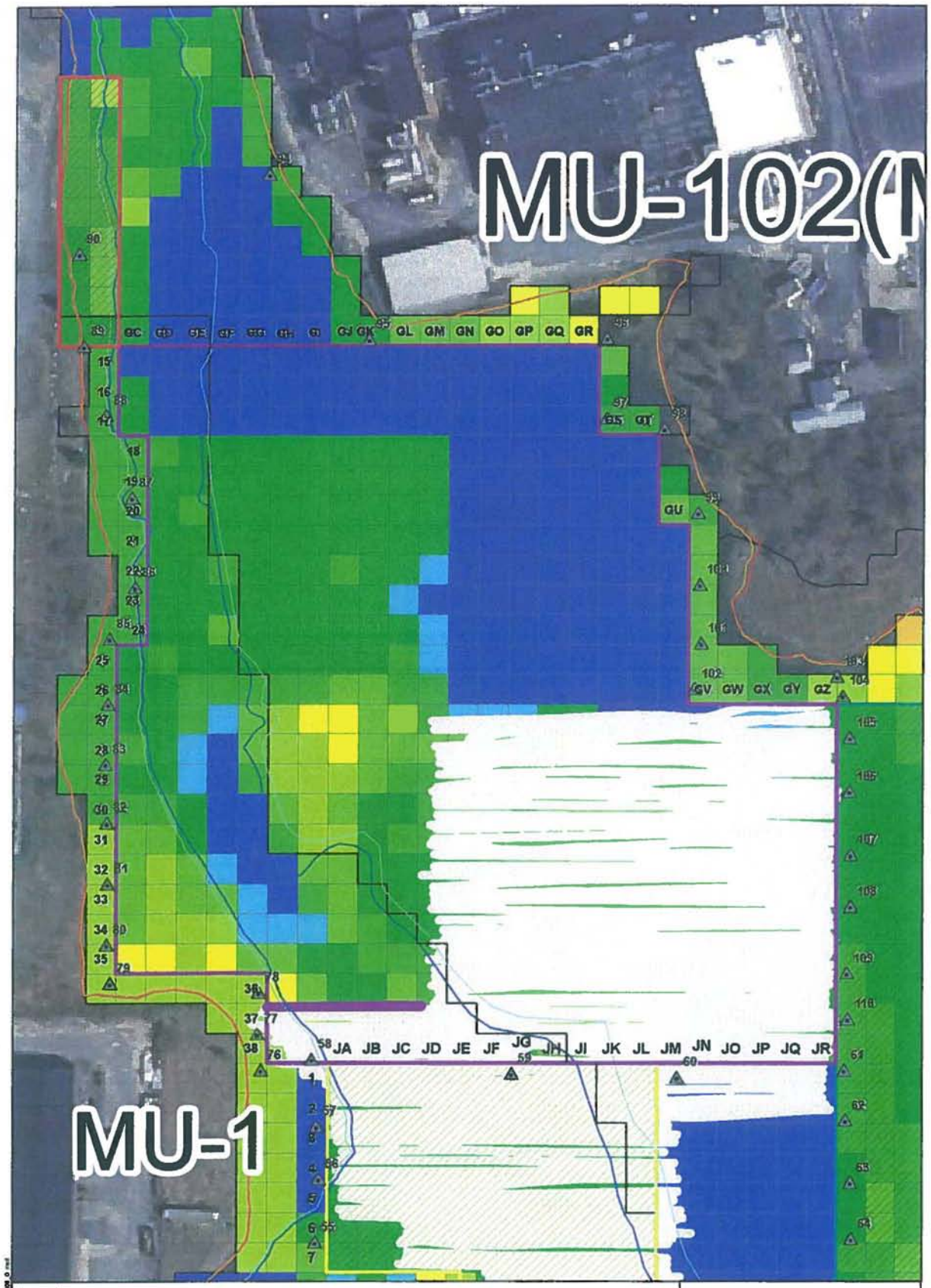
	PASSES; COLUMN; 0 KFF 13SC KLL 13SC	PASSES; COLUMN; 0 KFF 13S KLL 13S	PASSES; COLUMN; 0 KFF 14N KLL 14N	PASSES; 0 COLUMN; 0 KFF 14NC KLL 14NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5	1.5	1.5		
KGG	1.5	1.5	1.5	1.5		
KHH	1.5	1.5	1.5	1.5		
KII	1.5	1.5	1.5	1.5		
KJJ	1.5	1.5	1.5	1.5		
KKK	1.5	1.5	1.5	1.5		
KLL	1.5	1.5	1.5	1.5		

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/6/10
DREDGE ENGINEER(S): XMarc Friedman

	PASSES; COLUMN; 0 KFF14SC KLL14SC	PASSES; COLUMN; 0 KFF14S KLL14S	PASSES; COLUMN; 0 KFF15N KLL15N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5				
KGG	1.5	1.5				
KHH	1.5	1.5	N/C			
KII	1.5	1.5				
KJJ	1.5	1.5				
KKK	1.5	1.5				
KLL	1.5	1.5				

NOTES:



Legend

8 foot buffer represending area of cut for 08/06/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.8 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

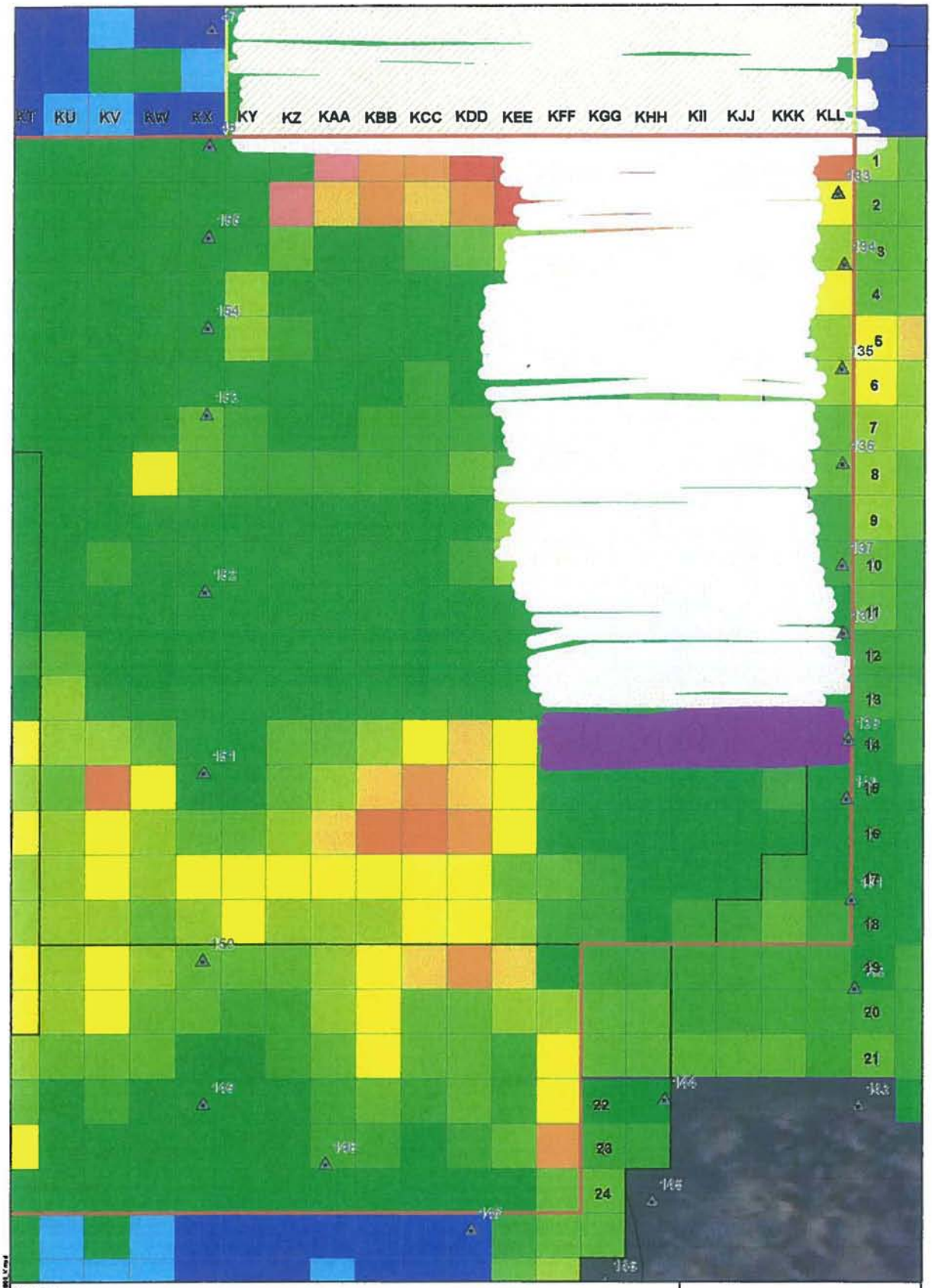
JACOBS

08/06/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 08/09/2010

08/06/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/06/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/06/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/09/2010

08/06/10-K

8/6/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM37NC	GH37NC	128	6	2.1	1612.8	388
KFF13SC	KLL13SC	160	6	1.5	1440	
KFF13S	KLL13S	165	6	1.5	1485	
KFF14N	KLL14N	162	6	1.5	1458	
KFF14NC	KLL14NC	166	6	1.5	1494	
KFF14SC	KLL14SC	166	6	1.5	1494	
KFF14S	KLL14S	165	6	1.5	1485	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	18,403
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	
8/6/2010	GPS Estimate	388	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/5/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

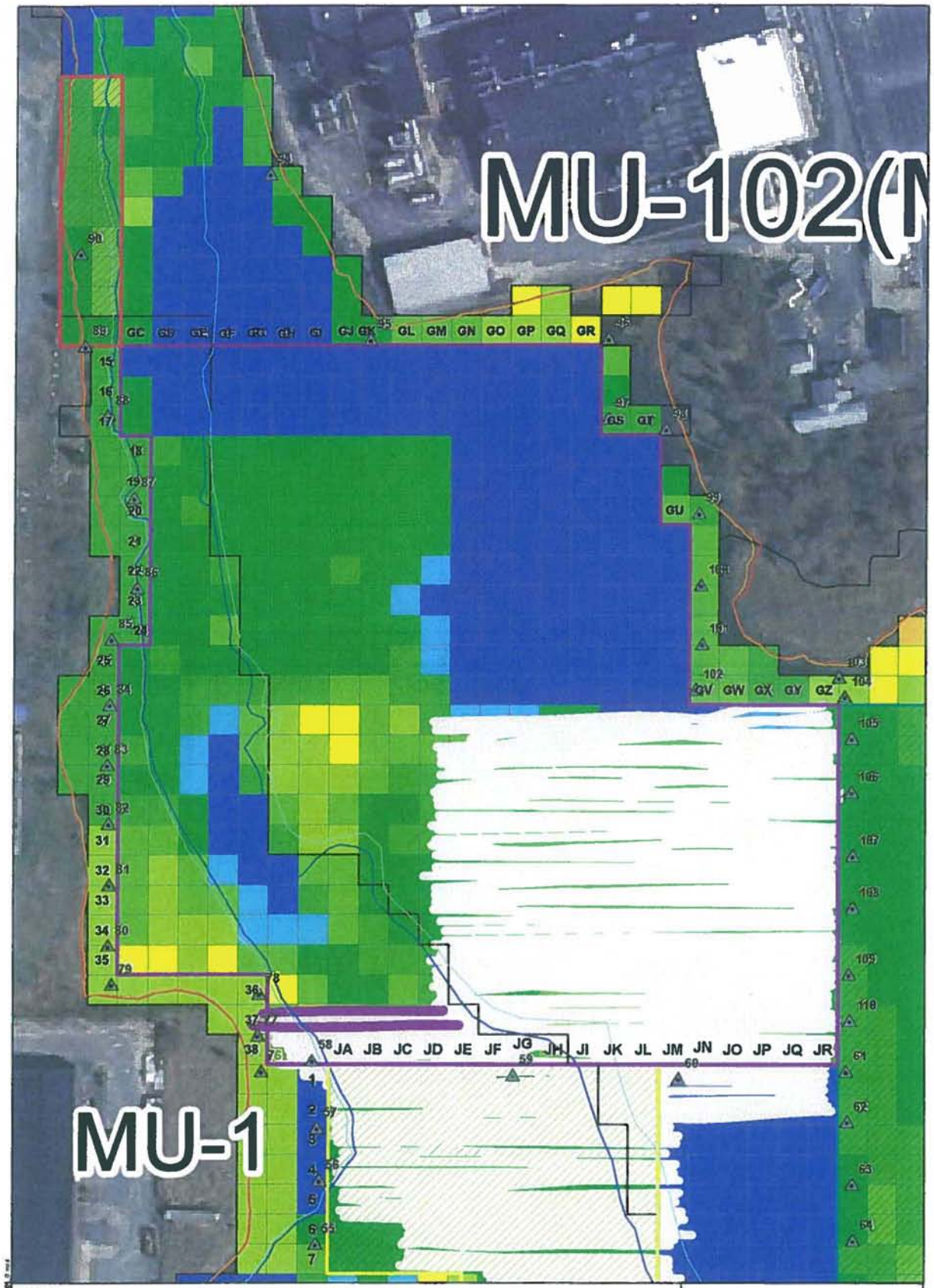
	PASSES; 0 COLUMN; 0 GM37S GH37S	PASSES; 0 COLUMN; 0 GM37SC GH37SC	PASSES; 0 COLUMN; 0 GM37NC GH37NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.2	2.2				
GL	1.9	1.9				
GK	1.6	1.6	N/C			
GJ	2.1	2.1				
GI	2.7	2.7				
GH	2.2	2.2				
	2.1	2.1				
	171	149				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/5/10
DREDGE ENGINEER(S): Mike Taub. / Marc Friedman

ROW WEST TO EAST	PASSES; COLUMN; 0 KFF12SC KLL12SC MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KFF12S KLL12S MATERIAL REMOVED (FT)	PASSES: COLUMN; 0 KFF13N KLL13N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF13NC KLL13NC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KFF13SC KLL13SC MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KFF	1.5	1.5	1.5	1.5		1'
KGG	1.5	1.5	1.5	1.5		1'
KHH	1.5	1.5	1.5	1.5		1'
KII	1.5	1.5	1.5	1.5		1'
KJJ	1.5	1.5	1.5	1.5		1'
KKK	1.5	1.5	1.5	1.5		1'
KLL	1.5	1.5	1.5	1.5		1'
	152	172	171	175		

NOTES:



Legend

8 foot buffer represending area of cut for 08/05/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

Aerial Photography MASSGIS 2003

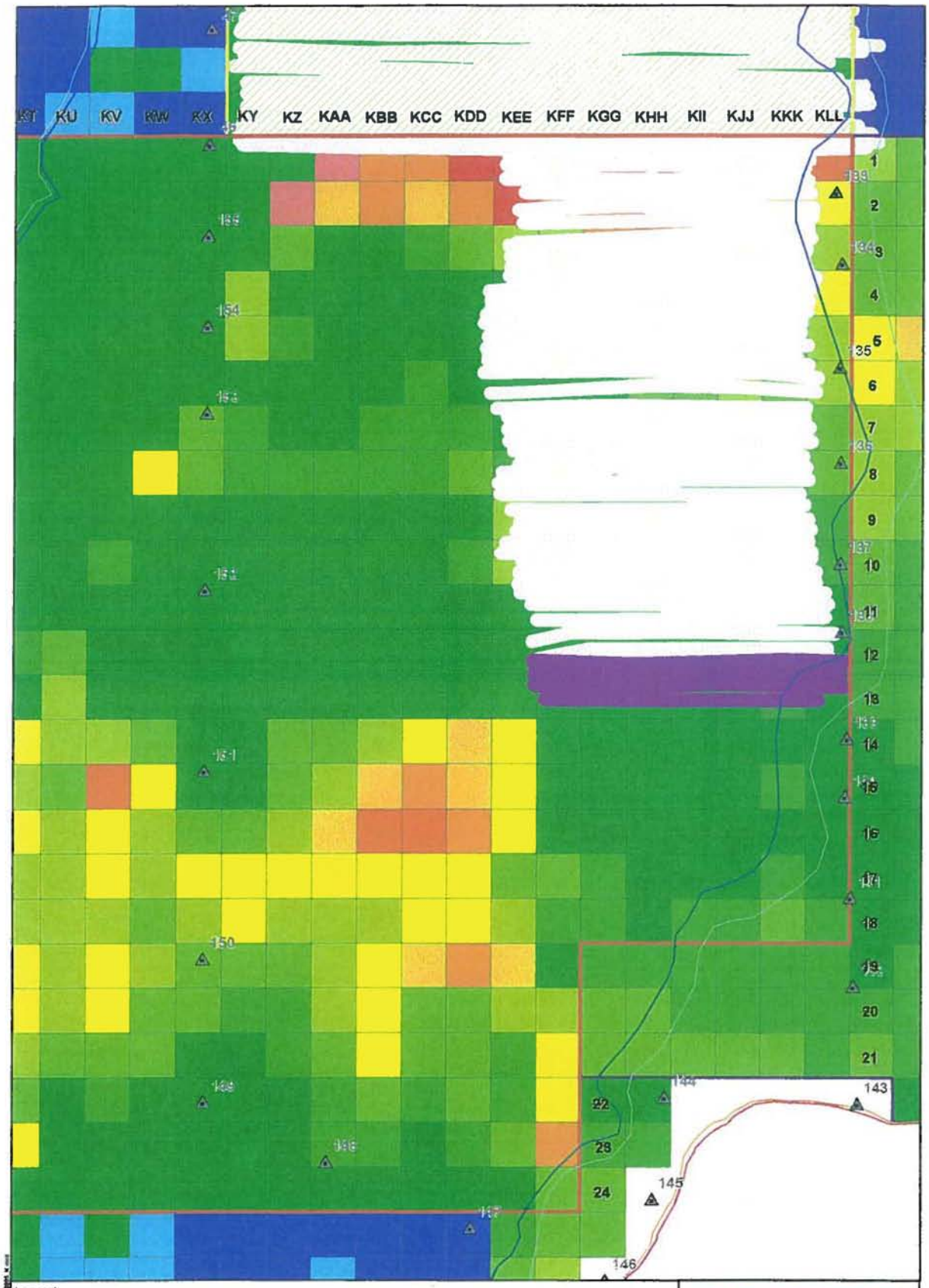
JACOBS

08/05/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/05/2010

08/05/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/05/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/05/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolerts DATE: 08/05/2010 08/05/10-K

8/5/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM37S	GH37S	171	6	2.1	2154.6	373
GM37SC	GH37SC	149	6	2.1	1877.4	
KFF12SC	KLL12SC	152	6	1.5	1368	
KFF12S	KLL12S	172	6	1.5	1548	
KFF13N	KLL13N	171	6	1.5	1539	
KFF13NC	KLL13NC	175	6	1.5	1575	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	18,015
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	
8/5/2010	GPS Estimate	373	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/4/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zach Zits

	PASSES; 0 COLUMN; 0 GM 37S GH 37S	PASSES; 0 COLUMN; 0 GM 37SC GH 37SC	PASSES; 0 COLUMN; 0 GM37NC GH37NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.2	2.2				
GL	2.7	2.7				
GK	2.1	2.1				
GJ	1.6	1.6				
GI	1.8	1.8				
GH	2.2	2.2				
	2.1	2.1				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/4/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Fitz

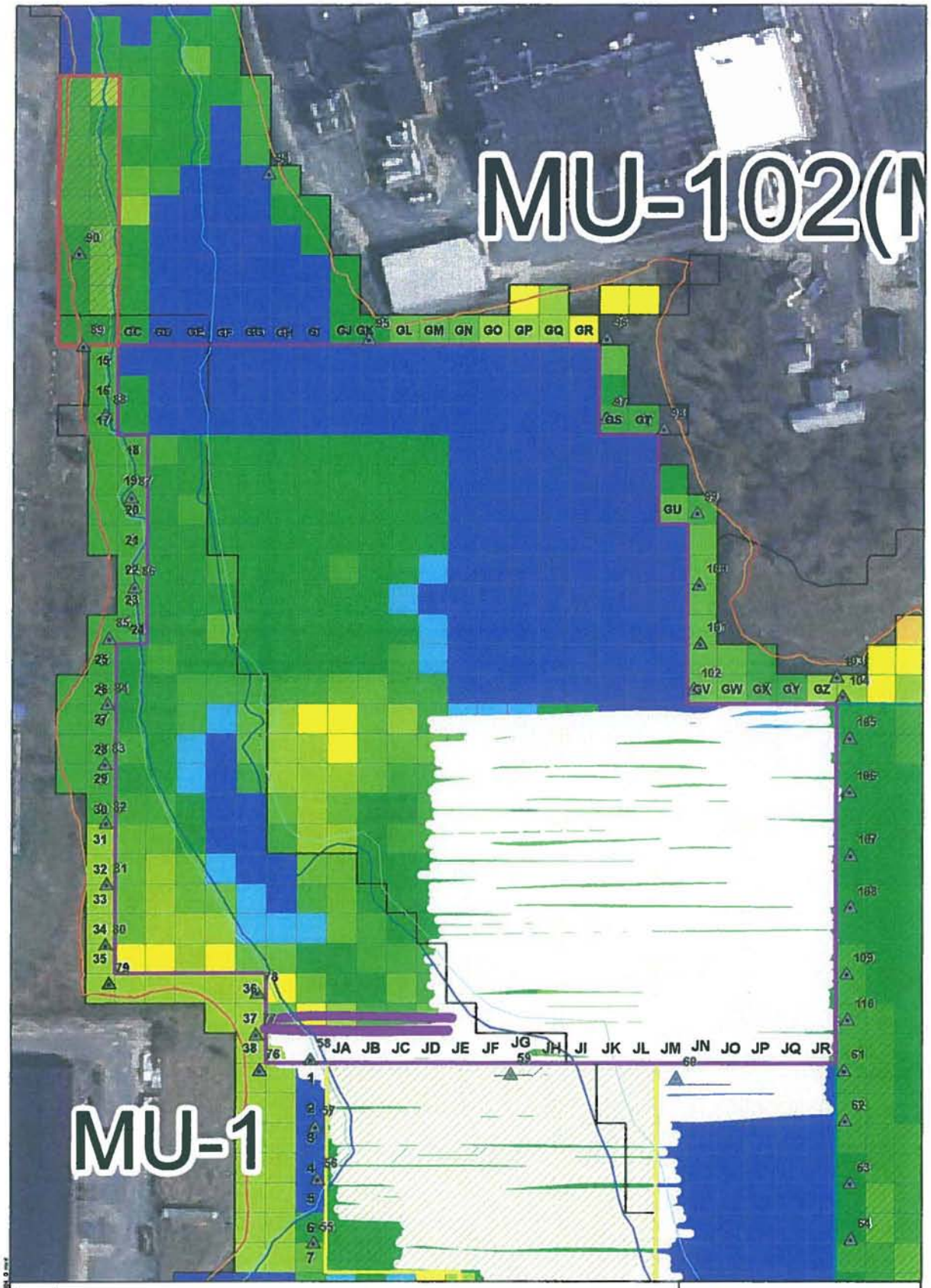
	PASSES; COLUMN; 0 KFF 11N KLL 11N	PASSES; COLUMN; 0 KFF 11NC KLL 11NC	PASSES; COLUMN; 0 KFF 11SC KLL 11SC	PASSES; 0 COLUMN; 0 KFF 11S KLL 11S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5	1.5	1.5		
KGG	1.5	1.5	1.5	1.5		
KHH	1.5	1.5	1.5	1.5		
KII	1.5	1.5	1.5	1.5		
KJJ	1.5	1.5	1.5	1.5		
KKK	1.5	1.5	1.5	1.5		
KLL	1.5	1.5	1.5			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/4/10
DREDGE ENGINEER(S):

	PASSES; COLUMN; 0 KFF12N KLL12N	PASSES; COLUMN; 0 KFF12NC KLL12NC	PASSES; COLUMN; 0 KFF12SC KLL12SC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5				
KGG	1.5	1.5				
KHH	1.5	1.5	N/C			
KII	1.5	1.5				
KJJ	1.5	1.5				
KKK	1.5	1.5				
KLL	1.5	1.5				

NOTES:



Legend

8 foot buffer representing area of cut for 08/04/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

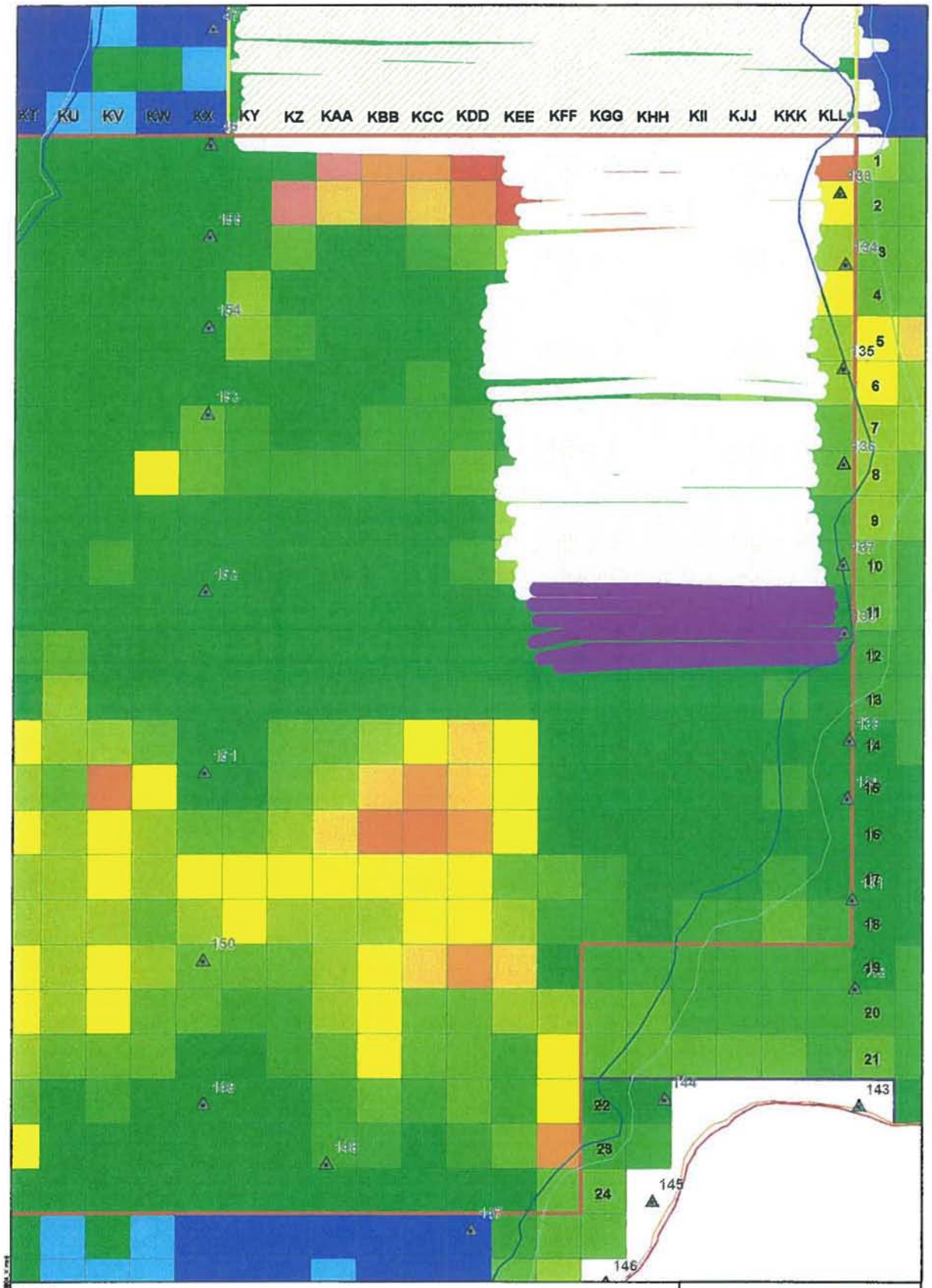
Aerial Photography MASSGIS 2003

JACOBS

08/04/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/04/2010 | 08/04/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/04/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/04/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 08/04/2010 | 08/04/10-K

8/4/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
gm37s	gh37s	152	6	2.1	1915.2	466
GM37SC	GH37SC	153	6	2.1	1927.8	
KFF11N	KLL11N	162	6	1.5	1458	
KFF11NC	KLL11NC	166	6	1.5	1494	
KFF11SC	KLL11SC	161	6	1.5	1449	
KFF11S	KLL11S	169	6	1.5	1521	
KFF12N	KLL12N	161	6	1.5	1449	
KFF12NC	KLL12NC	151	6	1.5	1359	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	17,642
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/18/10-7/30/10	Bathy Survey 07/30/10	5,472	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	
8/4/2010	GPS Estimate	466	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/3/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zach Zit

	PASSES; COLUMN; 0 KFF10N KLL10N	PASSES; COLUMN; 0 KFF10NC KLL10NC	PASSES; COLUMN; 0 KFF10SC KLL10SC	PASSES; 0 COLUMN; 0 KFF10S KLL10S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5	1.5	1.5		1.5'
KGG	1.5	1.5	1.5	1.5		1.5'
KHH	1.5	1.5	1.5	1.5		1.5'
KII	1.5	1.5	1.5	1.5		1.5'
KJJ	1.5	1.5	1.5	1.5		1.5'
KKK	1.5	1.5	1.5	1.5		1.5'
KLL	1.7	1.7	1.7	1.7		1.5'

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/3/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack [illegible]

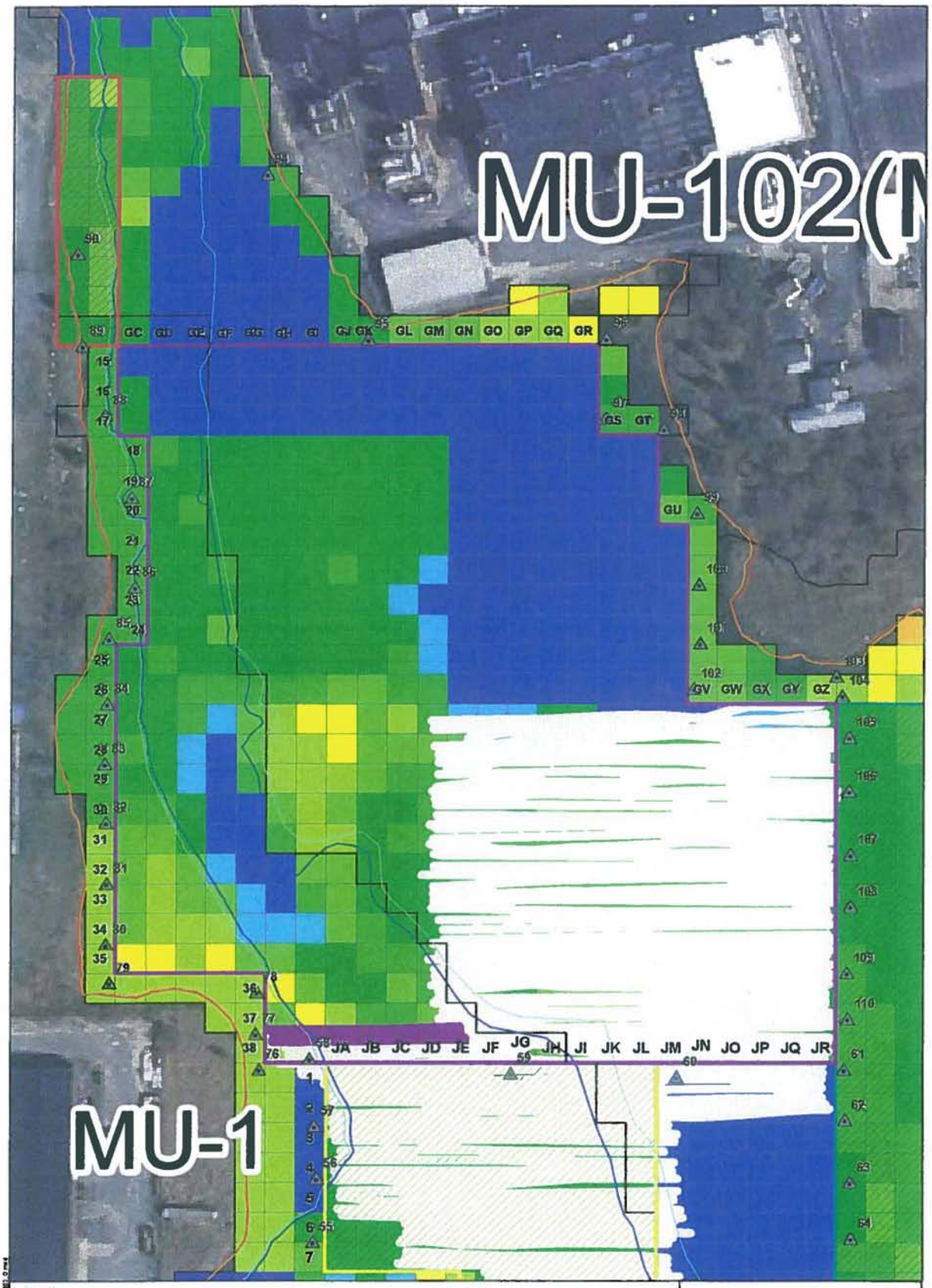
	PASSES; 0 COLUMN; 0 GM 38C GH 38C	PASSES; 0 COLUMN; 0 GM 38N GH 38N	PASSES; 0 COLUMN; 0 GM 37S GH 37S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.3	2.3	1.9			2'-3'
GL	2.2	2.2	1.8			2'-3'
GK	2.0	2.0	1.6			2'-3'
GJ	2.6	2.6	2.1			2'-3'
GI	3.3	3.3	2.7			2'-3'
GH	2.6	2.6	2.2			2'-3'

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/3/10
DREDGE ENGINEER(S): Mike Taib. / Marc Friedman / Zach Zite

	PASSES; COLUMN; 0 KFF11N KLL11N	PASSES; COLUMN; 0	PASSES; COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF						
KGG						
KHH	N/C					
KII						
KJJ						
KKK						
KLL						

NOTES:



Legend

8 foot buffer represending area of cut for 08/03/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

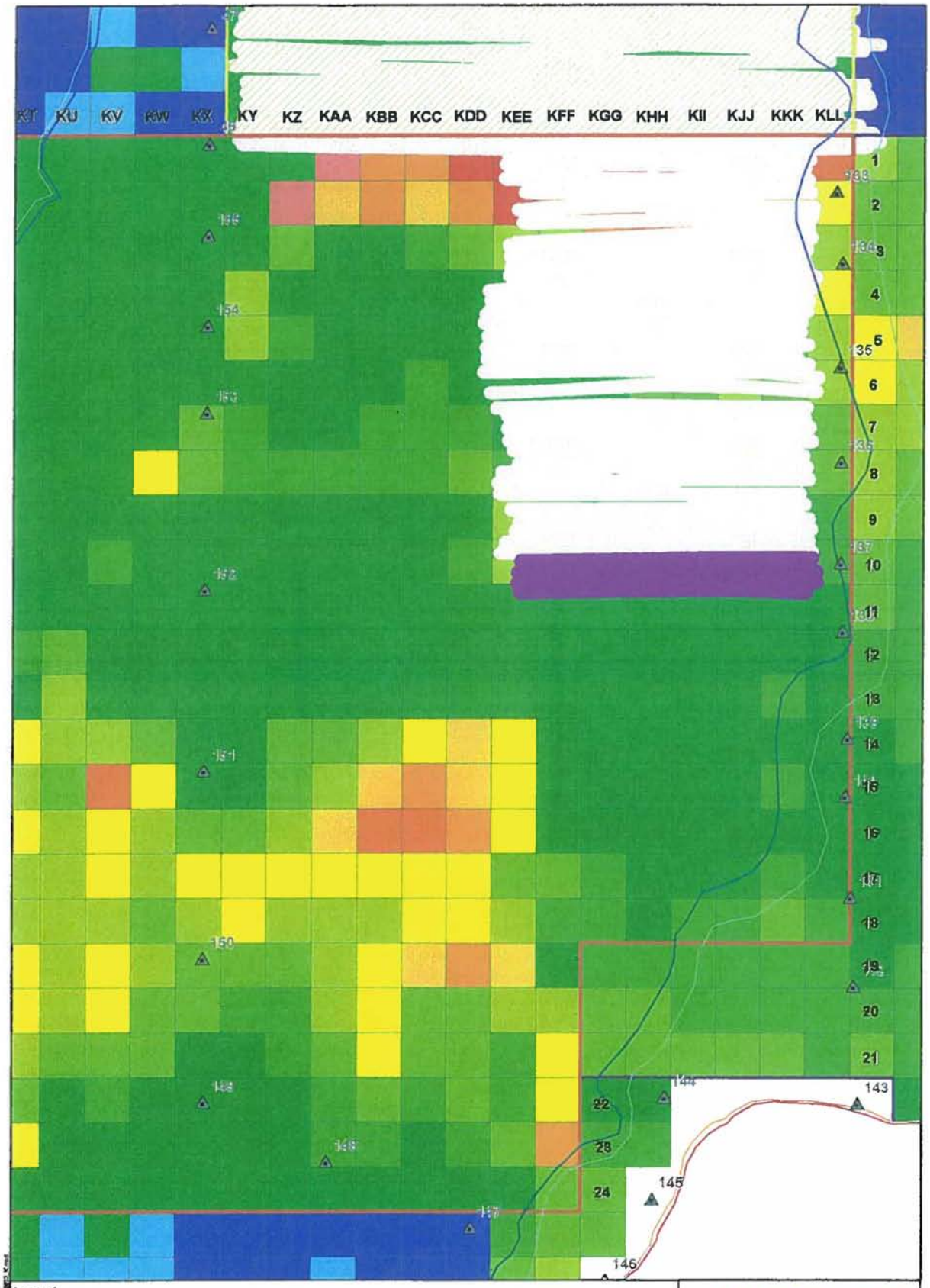
JACOBS

08/03/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/03/2010

08/03/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/03/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/03/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolberts DATE: 08/03/2010 08/03/10-K

8/3/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM38C	GH38C	159	6	2.5	2385	453
GM38N	GH38N	153	6	2.5	2295	
GM37S	GH37S	156	6	1.8	1684.8	
KFF10N	KLL10N	161	6	1.5	1449	
KFF10NC	KLL10NC	166	6	1.5	1494	
KFF10SC	KLL10SC	166	6	1.5	1494	
KFF10S	KLL10S	159	6	1.5	1431	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	17,819
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	
7/26/2010	GPS Estimate	1251	
7/27/2010	GPS Estimate	514	
7/28/2010	GPS Estimate	283	
7/29/2010	GPS Estimate	415	
7/30/2010	GPS Estimate	319	
8/2/2010	GPS Estimate	491	
8/3/2010	GPS Estimate	453	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 8/2/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zach Zito

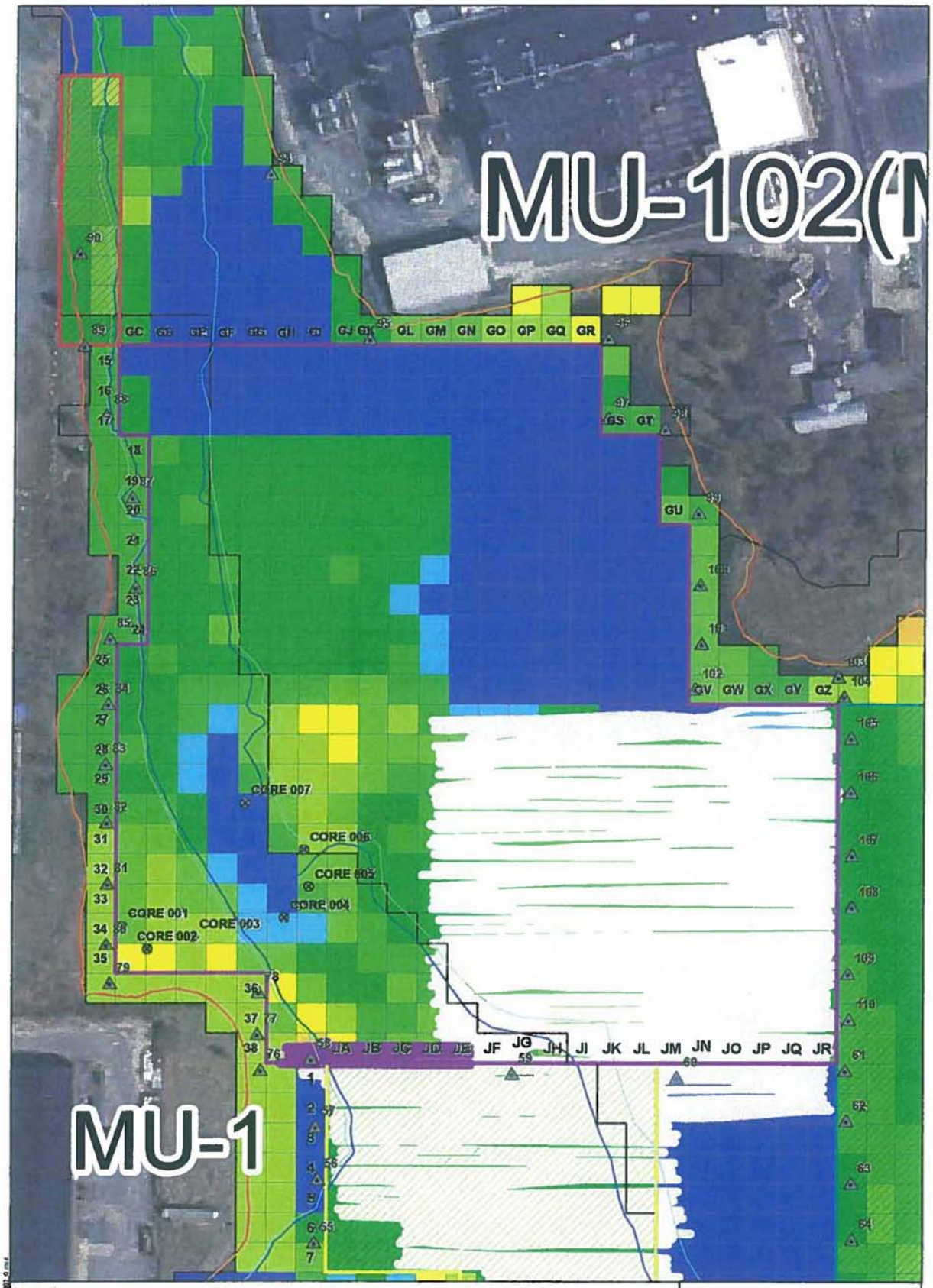
	PASSES; 0 COLUMN; 0 GM38S GH38	PASSES; 0 COLUMN; 0 GM 38 SC GH 38 SC	PASSES; 0 COLUMN; 0 GM38NC GH 38 NC	PASSES; 0 COLUMN; 0 GM 38N GH 38 N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	2.3	2.3	2.3			2'-3'
GL	2.0	2.0	2.0			2'-3'
GK	2.0	2.0	2.0	have not started this cut.		2'-3'
GJ	2.6	2.6	2.6			2'-3'
GI	3.3	3.3	3.3			2'-3'
GH	2.6	2.6	2.6			2'-3'
	157	149	150			
	2.5	2.5	2.5			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 8/2/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

ROW WEST TO EAST	PASSES; COLUMN; 0 KFF9N KLL9N MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KFF9NC KLL9NC MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KFF9SC KLL9SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF9S KLL9S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KFF 10N KLL 10N MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KFF	2.9	1.9	1.9	1.9		1.5'-2'
KGG	1.5	1.5	1.5	1.5		1.5'-2'
KHH	1.5	1.5	1.5	1.5	N/C	1.5'-2'
KII	1.5	1.5	1.5	1.5		1.5'-2'
KJJ	1.5	1.5	1.5	1.5		1.5'-2'
KKK	1.8	1.8	1.8	1.8		1.5'-2'
KLL	1.8	1.8	1.8	1.8		1.5-2'
	161	165	169	173		
	1.6	1.6	1.6	1.6		

NOTES:



Legend

8 foot buffer represending area of cut for 08/02/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

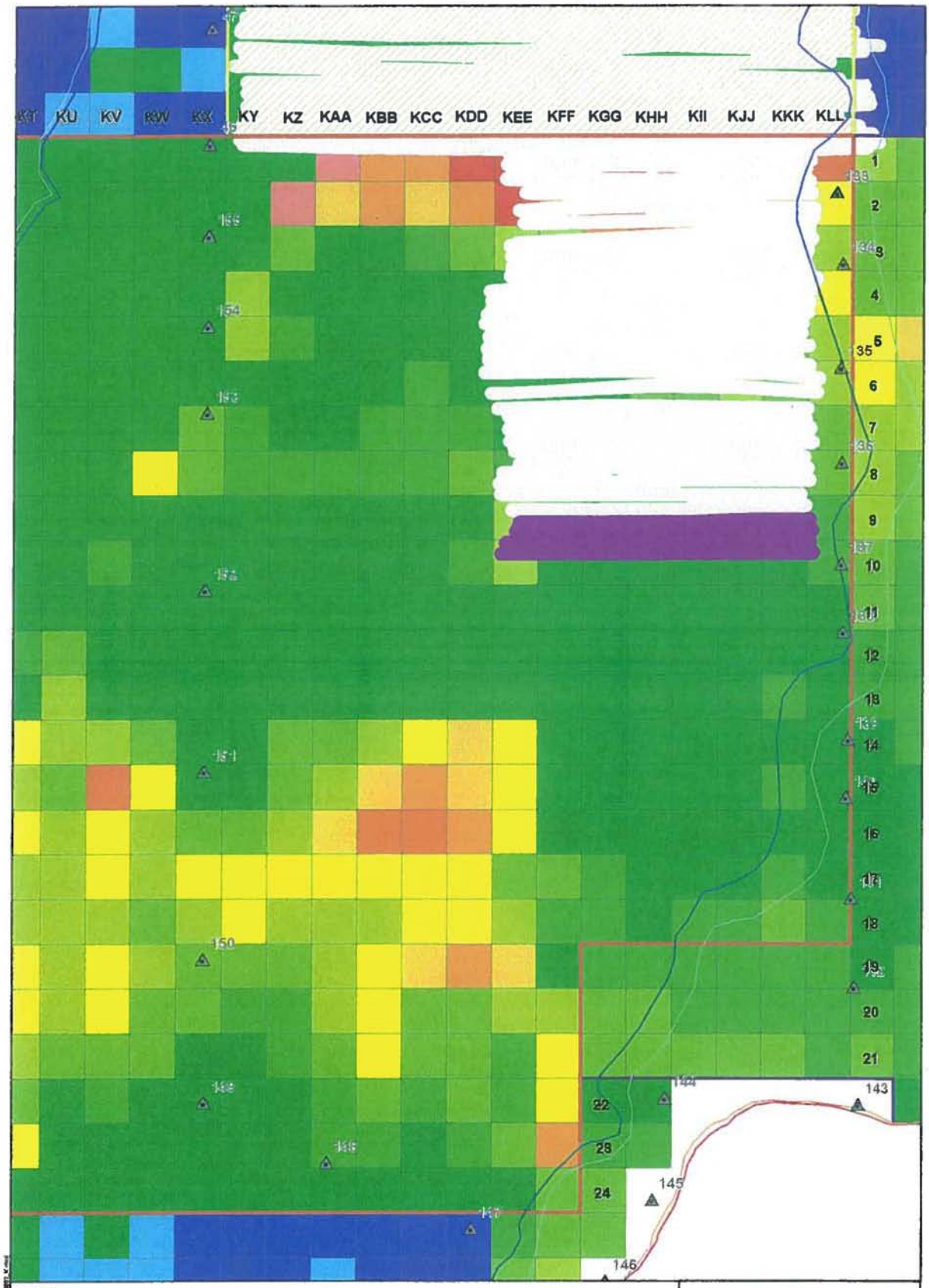
JACOBS

08/02/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 08/02/2010

08/02/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 08/02/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

08/02/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: roberts DATE: 08/02/2010 | 08/02/10-K

8/2/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM38S	GH38S	157	6	2.5	2355	491
GM38SC	GH38SC	149	6	2.5	2235	
GM38NC	GH38SC	150	6	2.5	2250	
KFF9N	KLL9N	161	6	1.6	1545.6	
KFF9NC	KLL9NC	165	6	1.6	1584	
KFF9SC	KLL9SC	169	6	1.6	1622.4	
KFF9S	KLL9S	173	6	1.6	1660.8	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	17,366
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	
7/26/2010	GPS Estimate	1251	
7/27/2010	GPS Estimate	514	
7/28/2010	GPS Estimate	283	
7/29/2010	GPS Estimate	415	
7/30/2010	GPS Estimate	319	
8/2/2010	GPS Estimate	491	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/30/10
DREDGE ENGINEER(S): Mike Taib. / Zach Bt

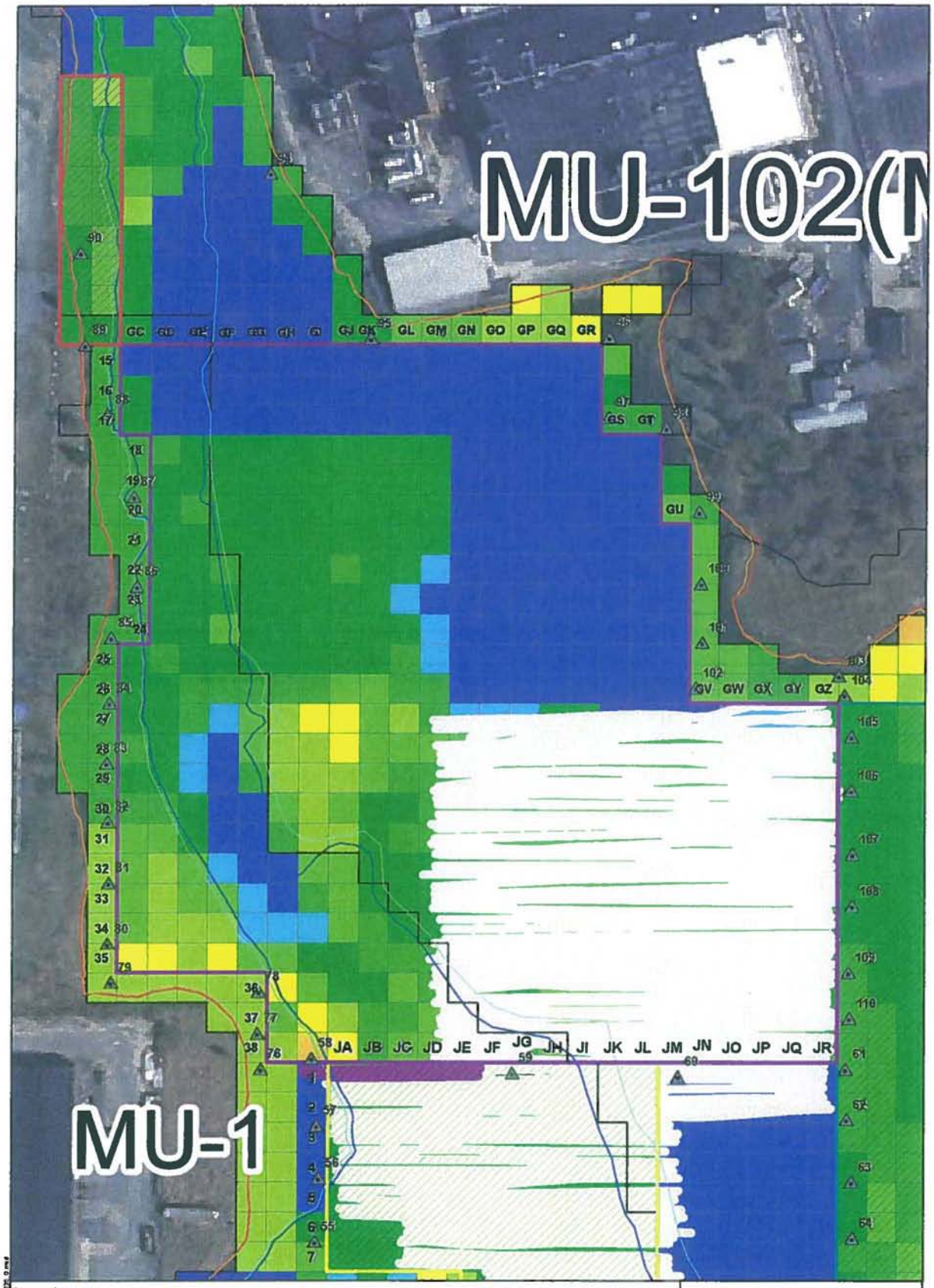
	PASSES; 0 COLUMN; 0 GM 39NC GI 39NC	PASSES; 0 COLUMN; 0 GM 39 N GI 39N	PASSES; 0 COLUMN; 0 GM 38 S GH 38 S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	1.0	1.0				
GL	1.0	1.0				
GK	1.0	1.0	N/C			
GJ	1.0	1.0				
GI	1.0	1.0				
GH	N/A	N/A				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/30/10
DREDGE ENGINEER(S): Mike Taub / Zack Zie

	PASSES; COLUMN; 0 KFF 8N KLL 8N	PASSES; COLUMN; 0 KFF 8NC KLL 8NC	PASSES; COLUMN; 0 KFF 8SC KLL 8SC	PASSES; 0 COLUMN; 0 KFF 8S KLL 8S	AVE. ROD READING PER (Z) BLOCK KFF 9N KLL 9N	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.8	1.8	1.8	1.8		
KGG	1.5	1.5	1.5	1.5		
KHH	1.5	1.5	1.5	1.5		
KII	1.5	1.5	1.5	1.5		
KJJ	1.5	1.5	1.5	1.5	N/C	
KKK	1.8	1.8	1.8	1.8		
KLL	2.2	2.2	2.2	2.2		

NOTES:



Legend

8 foot buffer represending area of cut for 07/30/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.8 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

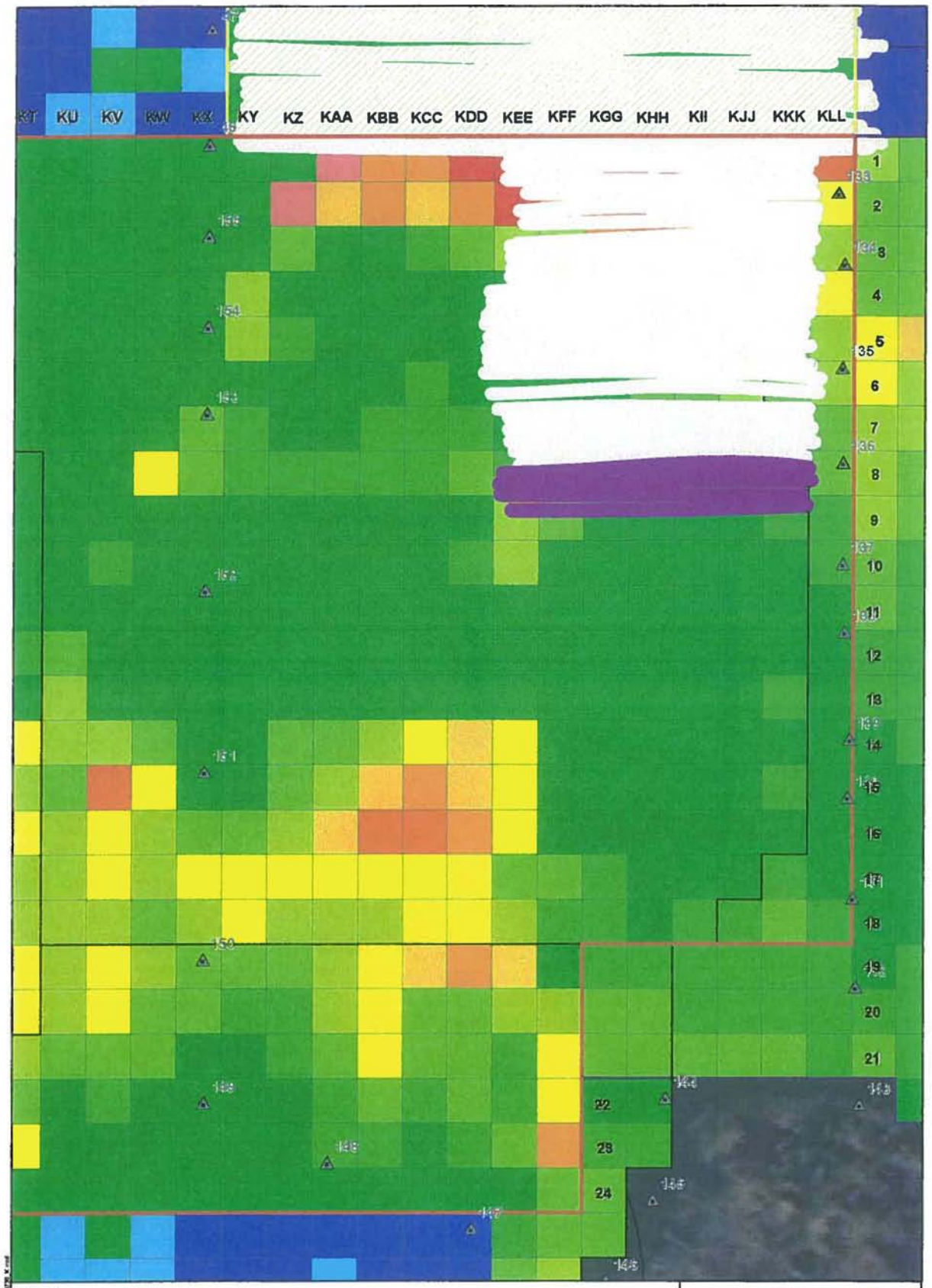
JACOBS

07/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeks DATE: 07/30/2010

07/30/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 07/30/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

07/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolierts DATE: 07/30/2010

07/30/10-K

7/30/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM39NC	GI39NC	146	6	1	876	319
GM39N	GI39N	144	6	1	864	
KFF8N	KLL8N	170	6	1.7	1734	
KFF8NC	KLL8NC	173	6	1.7	1764.6	
KFF8SC	KLL8SC	167	6	1.7	1703.4	
KFF8S	KLL8S	164	6	1.7	1672.8	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	16,875
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	
7/26/2010	GPS Estimate	1251	
7/27/2010	GPS Estimate	514	
7/28/2010	GPS Estimate	283	
7/29/2010	GPS Estimate	415	
7/30/2010	GPS Estimate	319	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/29/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zack Zito

	PASSES: 0 B+ COLUMN; 0 G M 39NC G I 39NC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM						1-2'
GL						1-2'
GK						2-3'
GJ	N/C					2-3'
GR						

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/29/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zach Z.

	PASSES; COLUMN; 0 KFF6SC KLL6SC	PASSES; COLUMN; 0 KFF6S KLL6S	PASSES; COLUMN; 0 KFF7N KLL7N	PASSES; 0 COLUMN; 0 KFF7NC KLL7NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5	1.5	1.5		1-2'
KGG	1.5	1.7	1.7	1.7		1-2
KHH	2.0	2.0	2.0	2.0		1-2'
KII	2.0	2.0	1.7	1.7		1-2'
KJJ	2.5	2.5	1.7	1.7		1-2
KKK	2.0	2.0	2.0	2.0		1-2'
KLL	2.3	2.2	2.3	2.3		1-2'

NOTES:

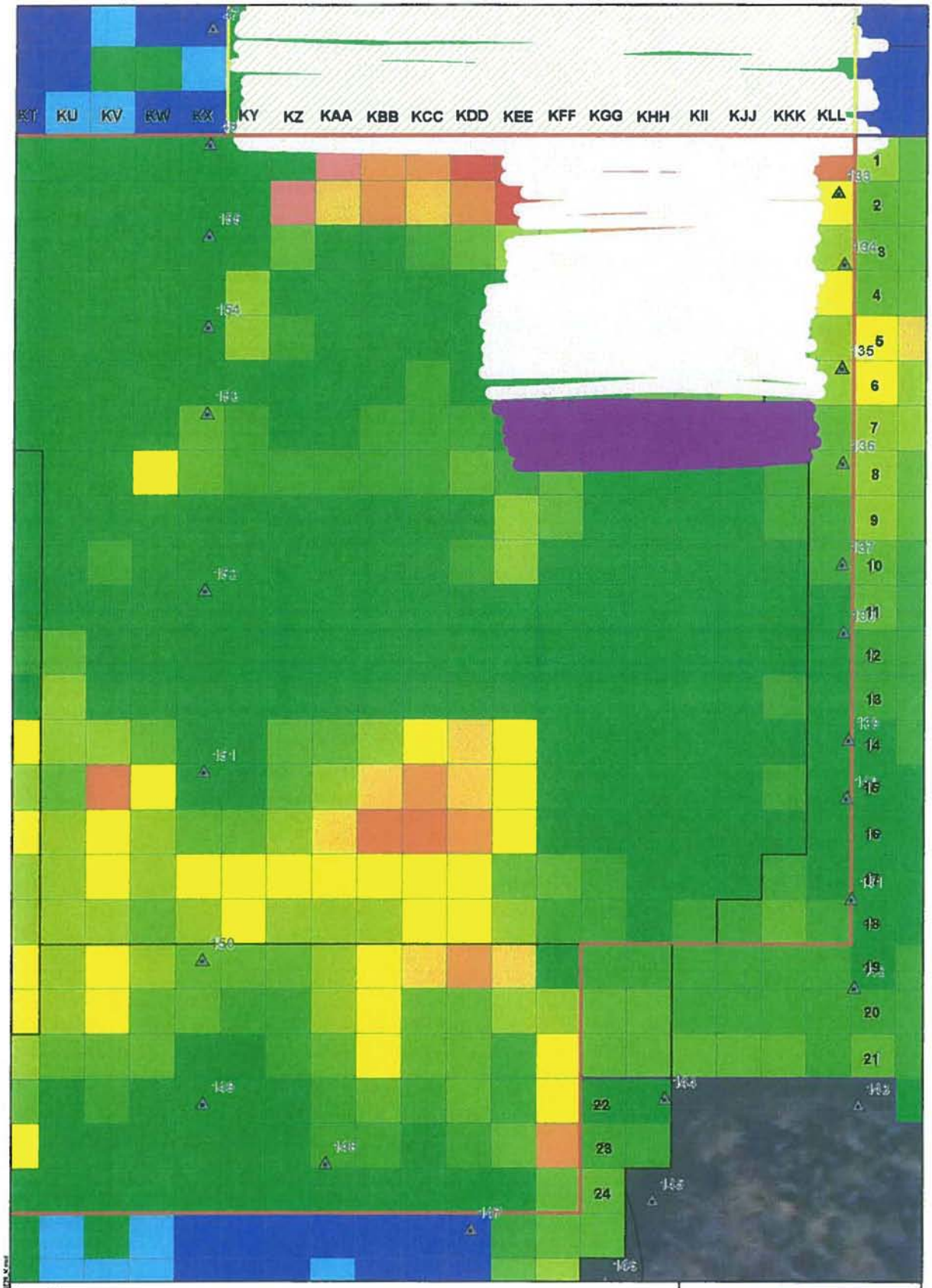
Zone 6

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/29/10
DREDGE ENGINEER(S): Mike Tabs / Marc Friedman / Zack Bitz

	PASSES; COLUMN; 0 KFF8C KLL8C	PASSES; COLUMN; 0 KFF7S KLL7S	PASSES; COLUMN; 0 KFF8N KLL8N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	1.5	1.5				1'-2'
KGG	1.7	1.7				1.-2'
KHH	2.0	2.0	Moved			1'-2'
KII	1.7	1.7	dredge			1'-2'
KJJ	1.7	1.7	into cut, but			1-2'
kkk	2.0	2.0	did not start.			1'-2'
KLL	2.3	2.3				1.-2'

NOTES:

Zone 6



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 07/29/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

07/29/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobarts DATE: 07/29/2010

07/29/10-K

7/29/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
KFF6SC	KLL6SC	172	6	2	2064	415
KFF6S	KLL6S	165	6	1.9	1881	
KFF7N	KLL7N	168	6	1.9	1915.2	
KFF7NC	KLL7NC	169	6	1.9	1926.6	
KFF7SC	KLL7SC	157	6	1.8	1695.6	
KFF7S	KLL7S	159	6	1.8	1717.2	

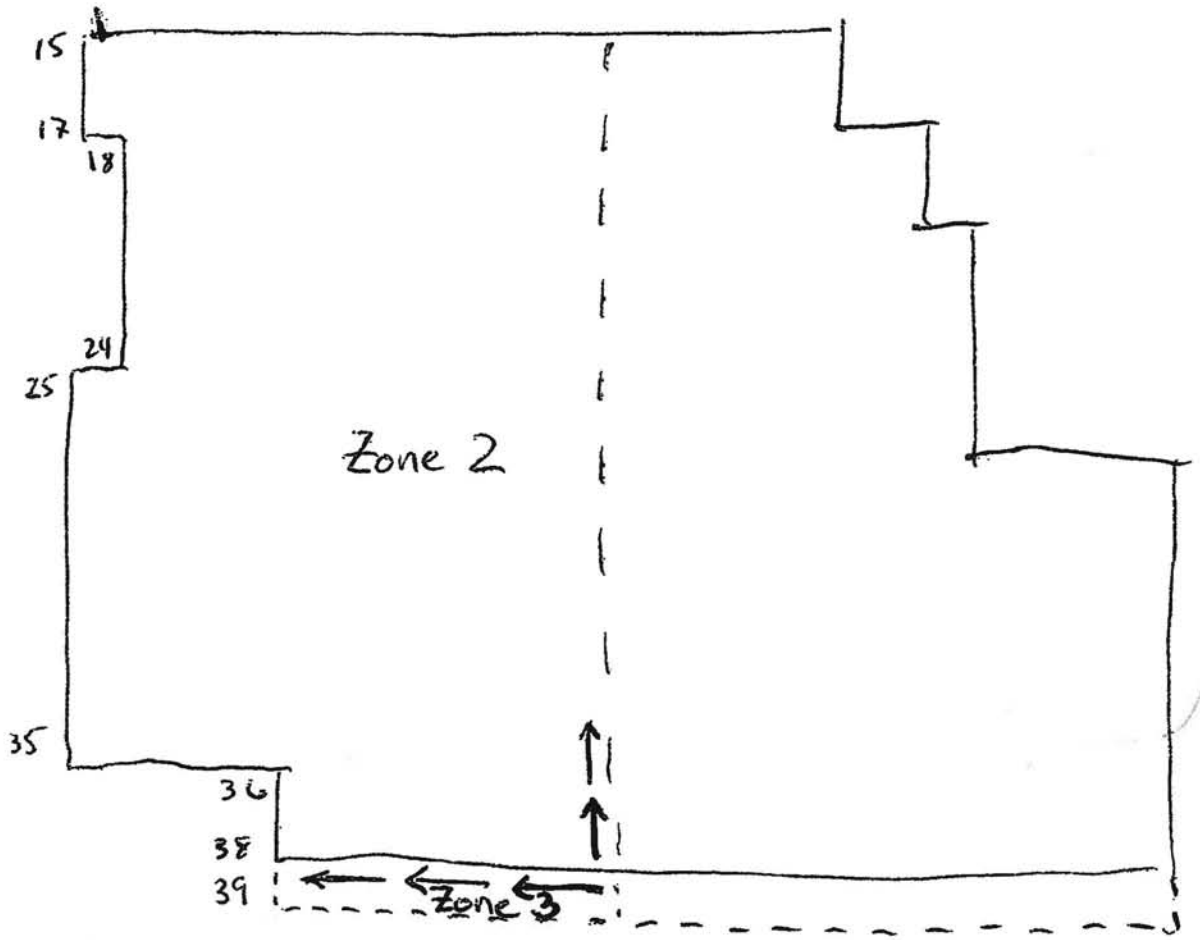
Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	16,556
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	
7/26/2010	GPS Estimate	1251	
7/27/2010	GPS Estimate	514	
7/28/2010	GPS Estimate	283	
7/29/2010	GPS Estimate	415	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/27/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

	PASSES; 0 COLUMN; 0 GM39S GJ39S	PASSES; 0 COLUMN; 0 GM39SC GJ39SC	PASSES; 0 COLUMN; 0 GM39C GJ39C	PASSES; 0 COLUMN; 0 GM39NC GJ39NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~WEST TO EAST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GM	"overlap"	1.0	1.0	1.0		
GL	"overlap"	1.0	1.0	1.0		
GK	"overlap"	1.0	1.0	1.0		
GJ	"overlap"	1.0	1.0	1.0		
	overlap					
	between					
	dredge		OVERLAP			
	zone 2 & 3.					
	heading					
	north into					
	zone 2.					

NOTES:

GC — GJ — GM



DREDGING FROM EAST TO WEST

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA L / ZONE 4)
DATE: 7/27/10
DREDGE ENGINEER(S): Mike Tubi / Marc Friedmann / Zack Bits

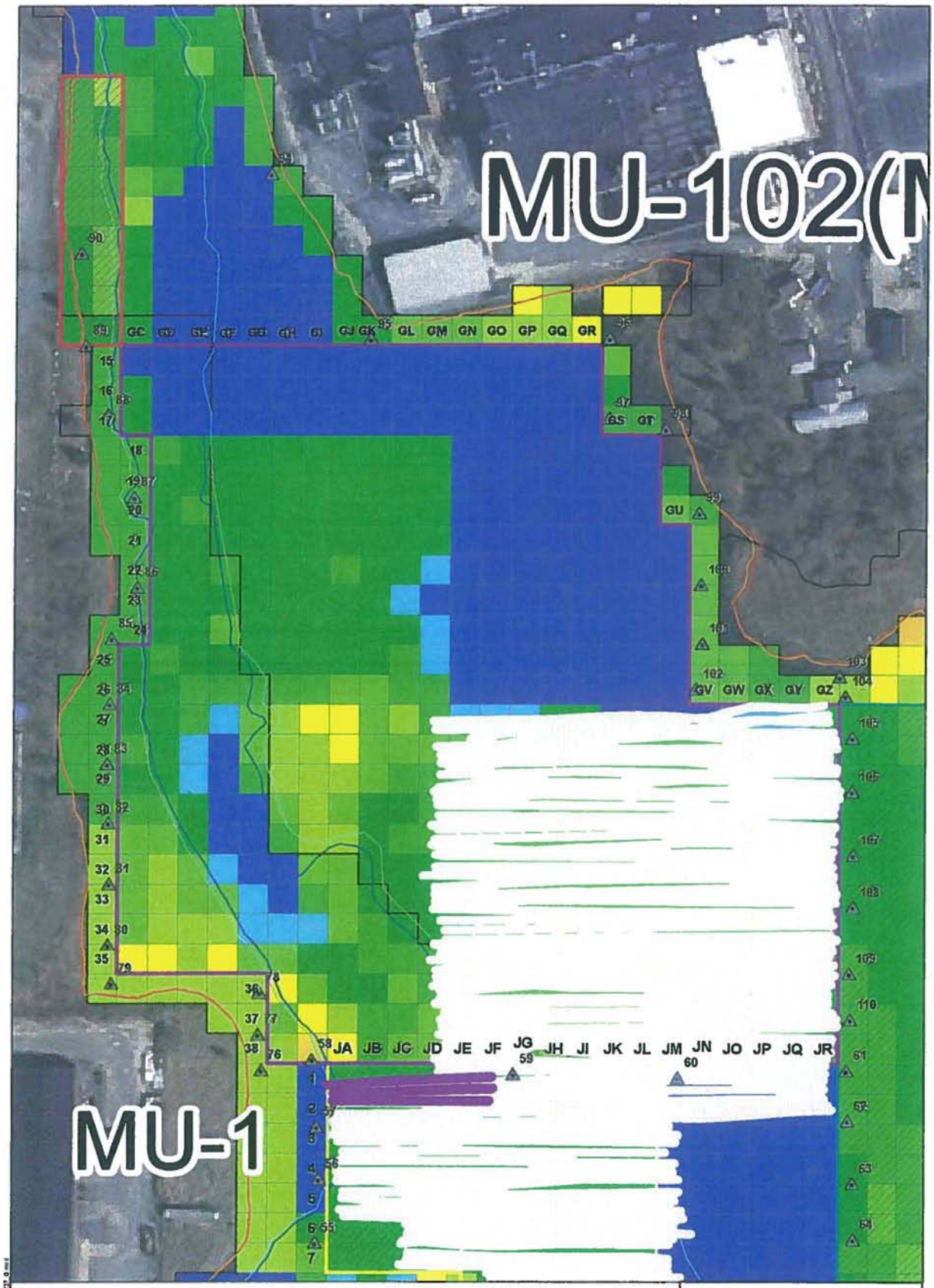
	PASSES; 0 COLUMN; 0 LQIN LCCIN	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~SOUTH TO NORTH~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
LQ						
LR						
LS						
LT	N/C					
LU						
LV						
LW						
LX						
LY						
LZ						
LAA						
LBB						
LCC						

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/27/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zach Zito

ROW WEST TO EAST	PASSES; COLUMN; 0 KFF4S KLL4S MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KFF5N KLL5N MATERIAL REMOVED (FT)	PASSES; COLUMN; 0 KFF5NC KLL5NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF5SC KLL5SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK KFF5S KLL5S MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
KFF	3.6	2.3	2.3	2.3		
KGG	3.5	1.7	1.7	1.7		
KHH	3.3	2.8	2.8	2.8	N/C	
KII	3.8	2.7	2.7	2.7		
KJJ	3.6	3.0	3.0	3.0		
KKK	3.0	2.5	2.5	2.5		
KLL	3.1	2.7	2.7	2.7		

NOTES:



Legend

8 foot buffer represending area of cut for 07/27/10

6 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

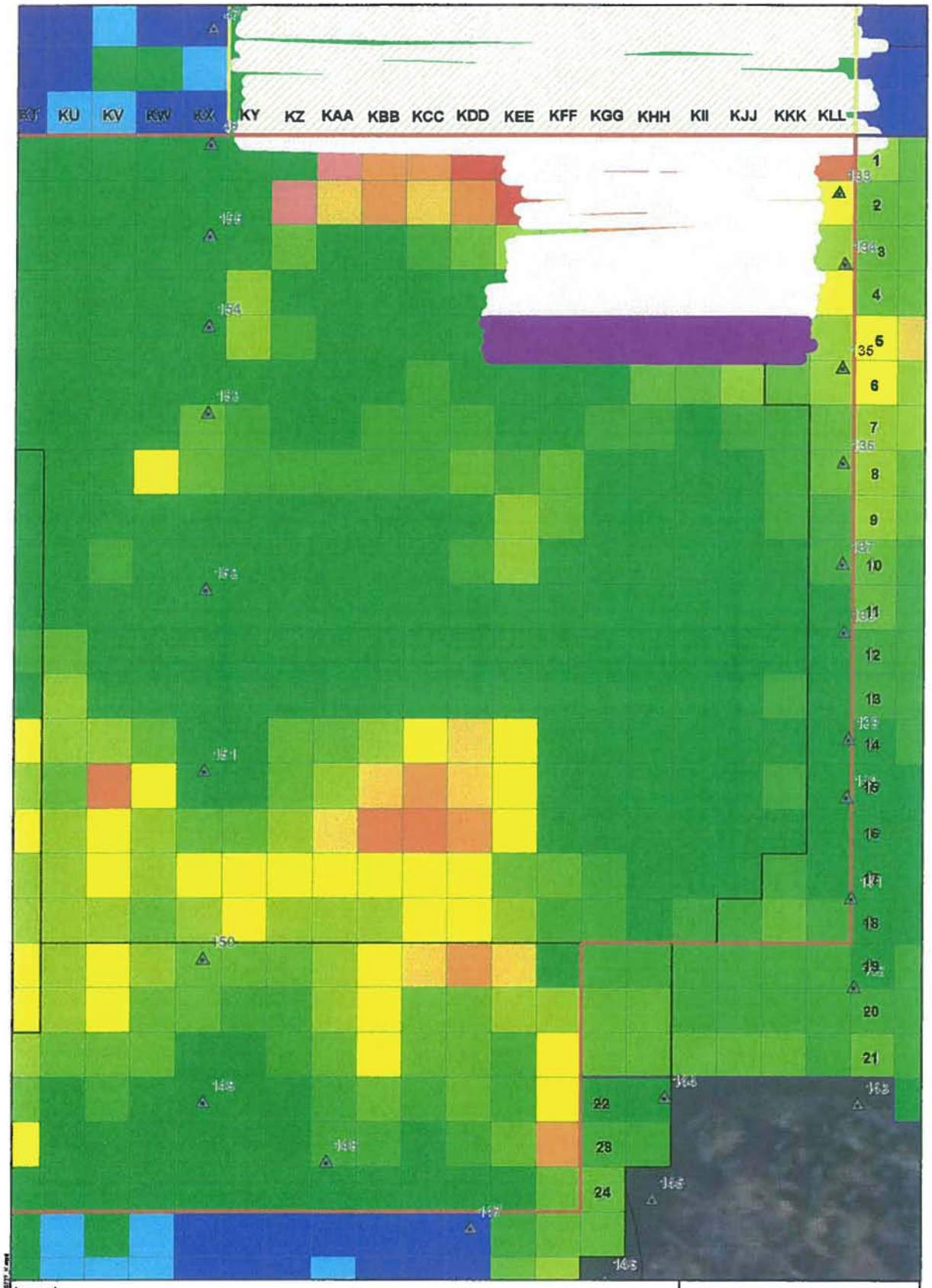
JACOBS

07/27/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/27/2010

07/27/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 07/27/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

07/27/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cnolwris DATE: 07/27/2010

07/27/10-K

7/27/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GM39SC	GJ39SC	1	6	137	822	514
GM39C	GJ39C	1	6	132	792	
GM39NC	GJ39NC	1	6	129	774	
KFF4S	KLL4S	3.4	6	177	3610.8	
KFF5N	KLL5N	2.5	6	174	2610	
KFF5NC	KLL5NC	2.5	6	179	2685	
KFF5SC	KLL5SC	2.5	6	172	2580	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	15,858
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	
7/26/2010	GPS Estimate	1251	
7/27/2010	GPS Estimate	514	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/23/2010
DREDGE ENGINEER(S):

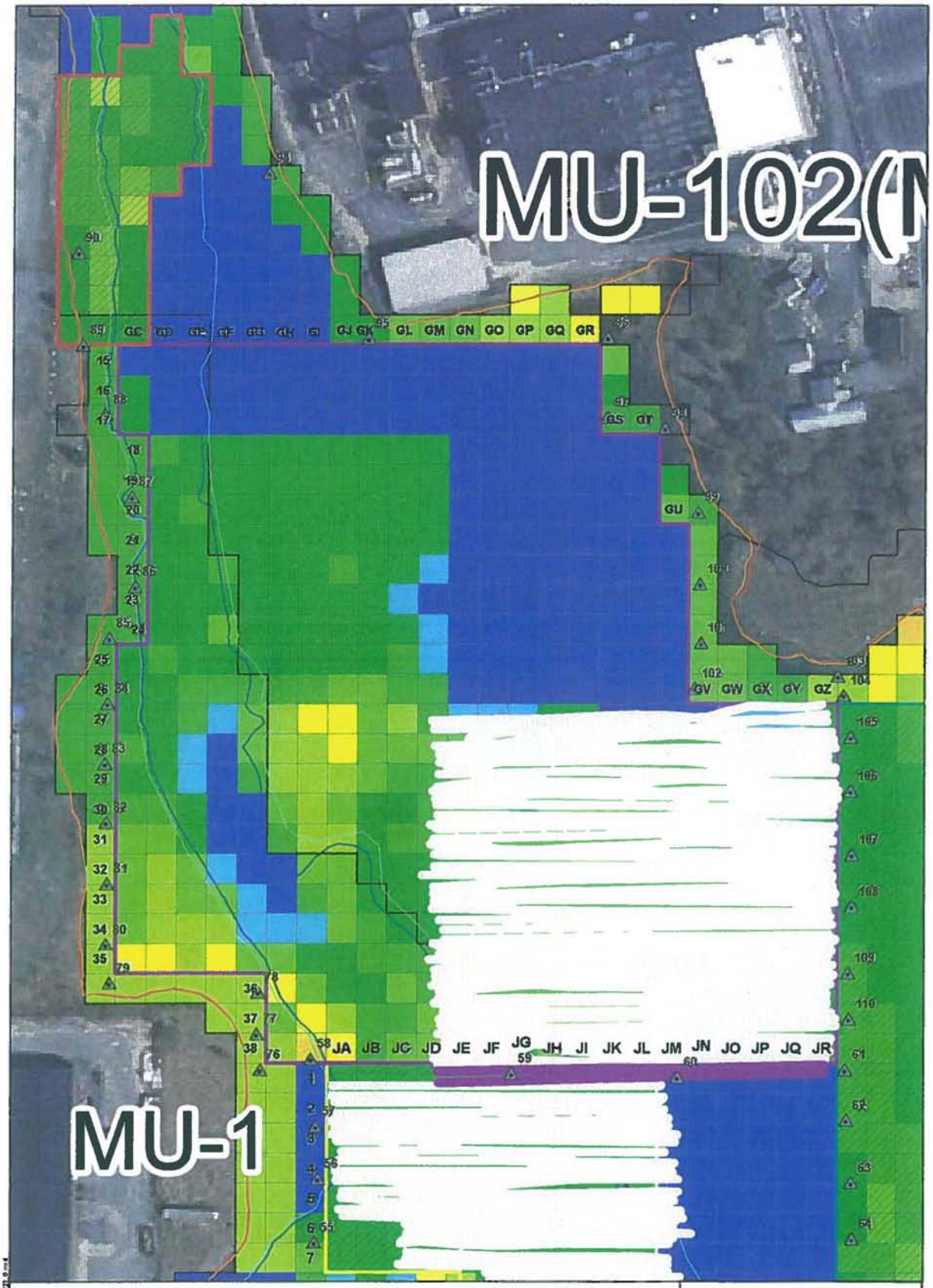
	PASSES; 0 COLUMN; 0 GN 39N GZ 39N	PASSES; 0 COLUMN; 0 GN 39 NC GZ 39 NC	PASSES; 0 COLUMN; 0 GN 39 SC GZ 39 SC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
* GN	2.2	2.2				
* GO	2.3	2.3				
* GP	1.7	1.7				
* GQ	2.2	2.2	N/C			
GR	1.9	1.9				
GS	2	2				
GT	2.2	2.2				
GU	1.7	1.7				
GV	2.2	2.2				
GW	2.2	2.2				
GX	2.4	2.4				
GY	2.2	2.2				
GZ	1.8	1.8				

NOTES: * First 100 feet of GN-GZ 39 N and GN-GZ 39NC are approx 3' deeper than what the chart calls for due to the debris collection barge being stationed there

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K ZONE 6)
DATE: 7/23/2010
DREDGE ENGINEER(S):

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 KFF 3N KLL 3N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF 3 NC KLL 3 NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF 3 SC KLL 3 SC. MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 KFF 3 S KLL 3 S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
KFF	2.7	2.7	2.7			
KGG	4.1	4.1	4.1			
KHH	4.6	4.6	4.6			
KII	4.1	4.1	4.1			
KJJ	4.3	4.3	4.3	N/C		
KKK	3	3	3			
KLL	2.9	2.9	2.9			

NOTES:



Legend

8 foot buffer representing area of cut for 07/23/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

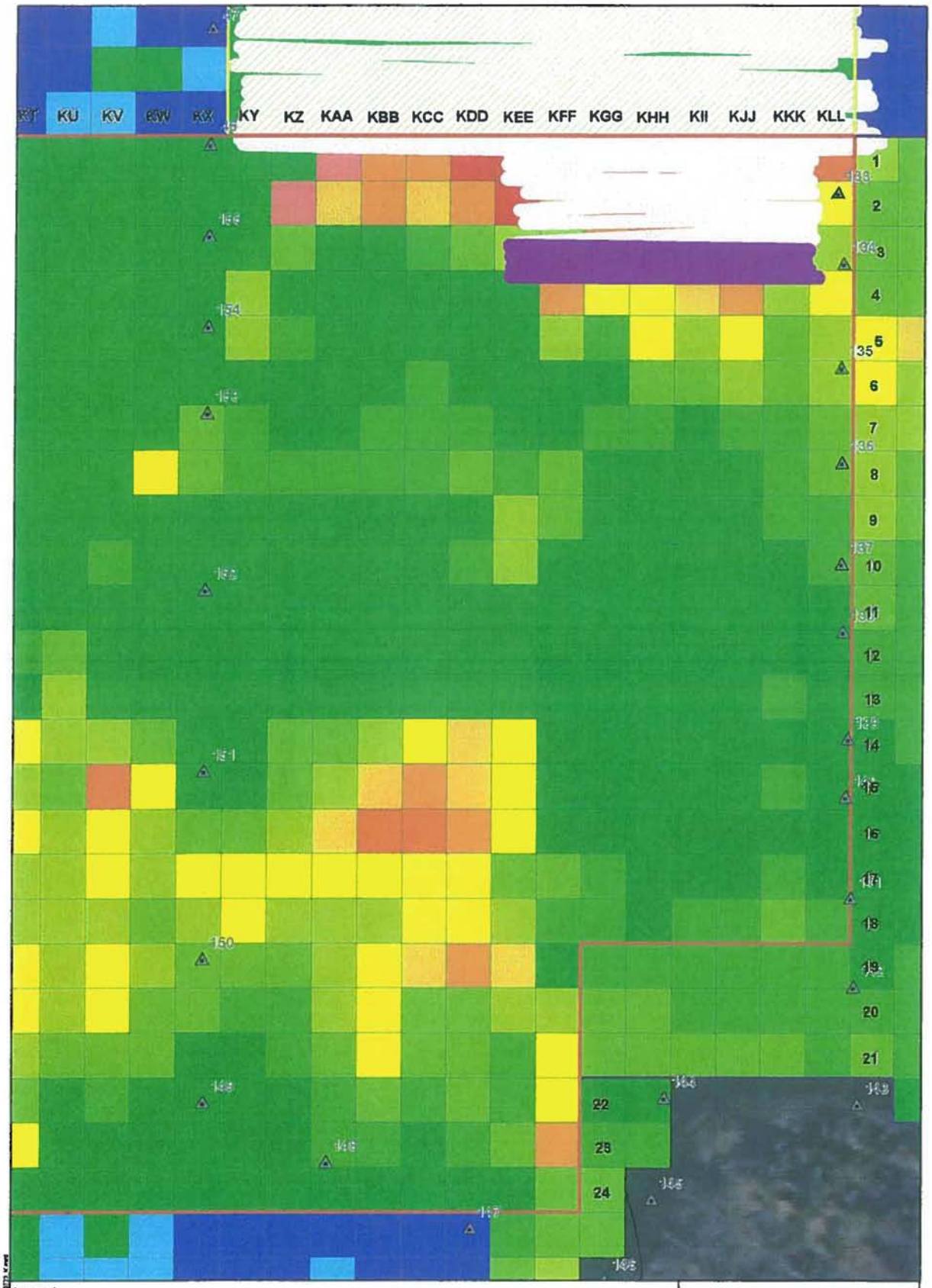
JACOBS

07/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/23/2010

07/23/10-G



JACOBS

07/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobers DATE: 07/23/2010 07/23/10-K

7/23/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN39N	GZ39N	322	6	2.1	4057.2	610
GN39NC	GZ39NC	320	6	2.1	4032	
KFF3N	KLL3N	166	6	2.1	2091.6	
KFF3NC	KLL3NC	163	6	2.1	2053.8	
KFF3SC	KLL3SC	165	6	2.1	2079	
KFF3S	KLL3S	171	6	2.1	2154.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	14,093
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	
7/23/2010	GPS Estimate	610	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/22/10
DREDGE ENGINEER(S): Mike Tab. / Marc Friedman / Zack Zito

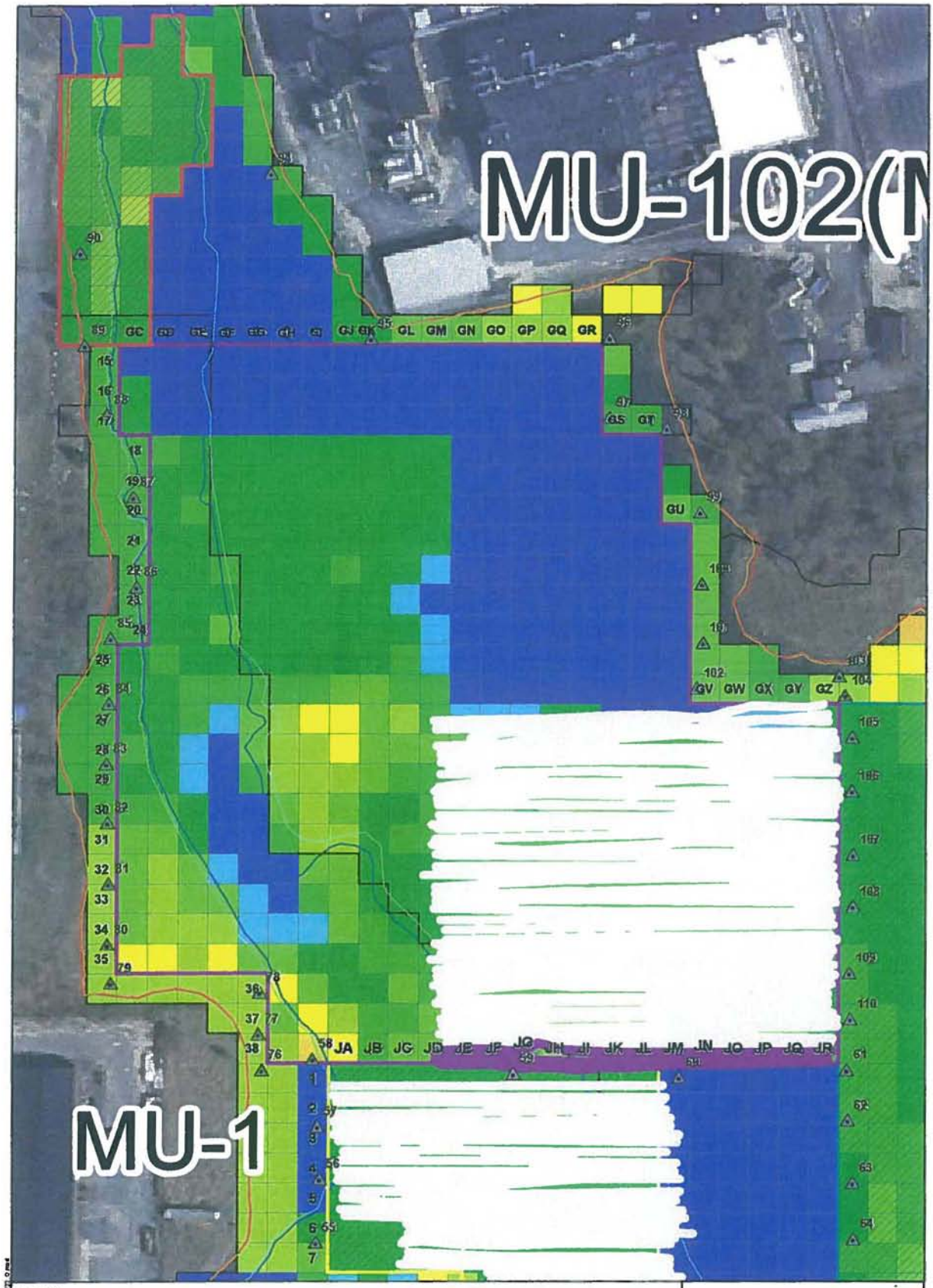
	PASSES; 0 COLUMN; 0 GN 38SC GZ 38SC	PASSES; 0 COLUMN; 0 GN 38S GZ 38S	PASSES; 0 COLUMN; 0 GN 39N GZ 39N	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~PASSES~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	2.0	2.0				
GO	2.0	2.0				
GP	1.7	1.7				
GQ	2.0	2.0				
GR	1.9	1.9				
GS	1.8	1.8	Have not started			
GT	1.9	1.9				
GU	1.7	1.7				
GV	2.0	2.0				
GW	2.0	2.0				
GX	2.1	2.1				
GY	2.1	2.1				
GZ	1.8	1.8				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/22/10
DREDGE ENGINEER(S): Mike Taib. / Marc Friedman / Zack Zt

	PASSES; ~~0~~ 3 COLUMN; 0 KFF 2N KLL 2N	PASSES; ~~0~~ 3 COLUMN; 0 KFF 2NC KLL 2NC	PASSES; ~~0~~ COLUMN; 0 KFF 2SC KLL 2SC	PASSES; 0 COLUMN; 0 KFF 2S KLL 2S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	4.2	4.2	4.2	4.2		
KGG	4.9	4.9	4.9	4.9		
KHH	5.3	5.3	5.3	5.3		
KII	3.6	3.6	3.6	3.6		
KJJ	4.4	4.4	4.4	4.4		
KKK	3.9	3.9	3.9	3.9		
KLL	3.5	3.5	3.5	3.5		

NOTES:



Legend

- 8 foot buffer representing area of cut for 07/22/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities
- Previously Dredged Areas
- Dredge Area M
- Dredge Area G
- Dredge Area J
- 2010Sheet Pile Locations

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

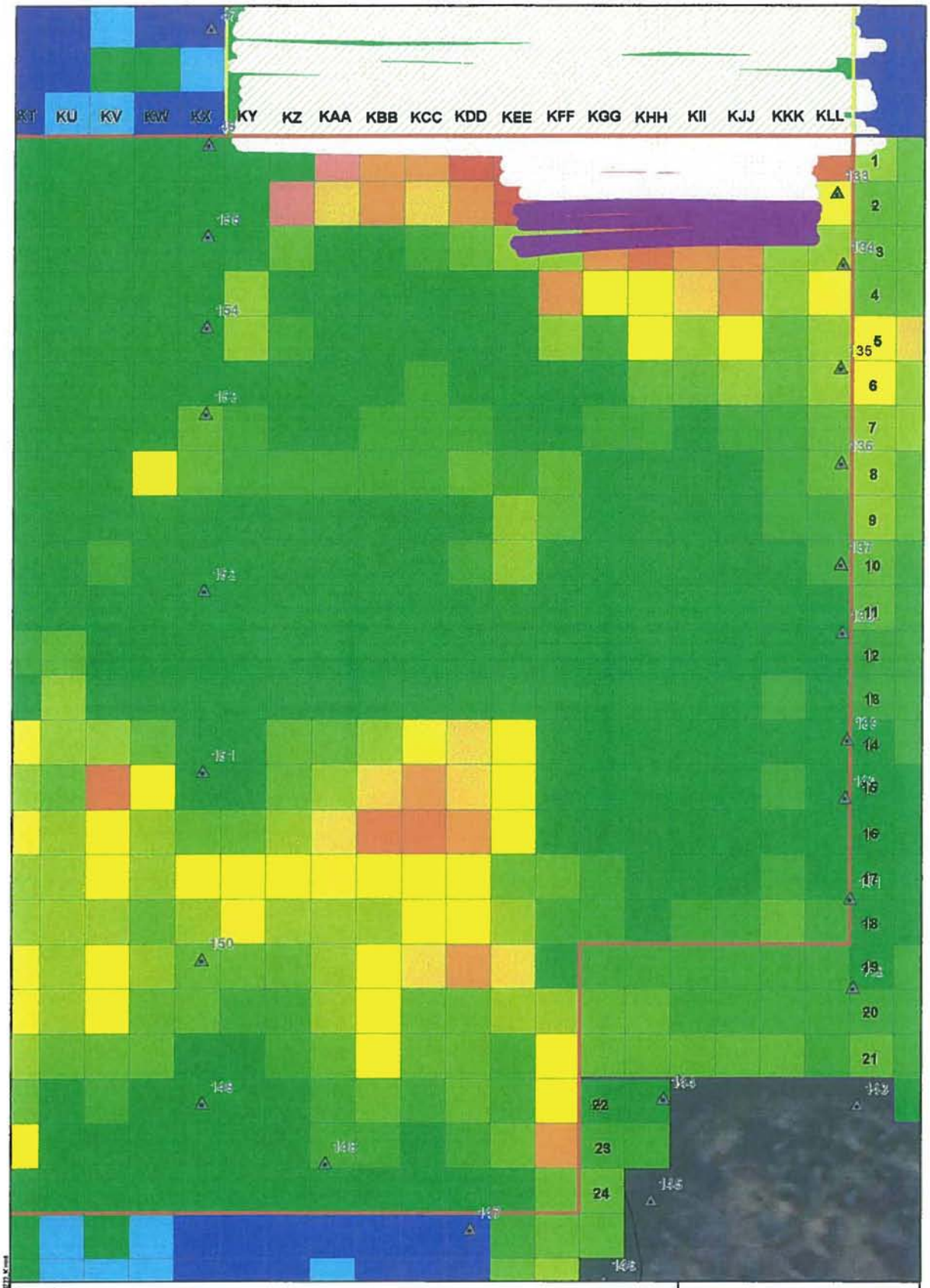
JACOBS

07/22/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 07/22/2010

07/22/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 07/22/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

07/22/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobers DATE: 07/22/2010 | 07/22/10-K

7/22/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN38SC	GZ38SC	333	6	1.9	3796.2	898
GN38S	GZ38S	326	6	1.9	3716.4	
KFF2N	KLL2N	164	6	4.3	4231.2	
KFF2NC	KLL2NC	161	6	4.3	4153.8	
KFF2SC	KLL2SC	163	6	4.3	4205.4	
KFF2S	KLL2S	161	6	4.3	4153.8	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	13,483
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	
7/22/2010	GPS Estimate	898	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/21/10
DREDGE ENGINEER(S): Mike Tarbi / Marc Friedman / Zach Zite

	PASSES; ~~0~~ 2.5 COLUMN; 0 GN38NC GZ38NC	PASSES; 0 COLUMN; 0 GN38SC GZ38SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	2.0					
GO	2.0					
GP	1.7					
GQ	2.0					
GR	1.9	N/C				
GS	1.8					
GT	1.9					
GU	1.7					
GV	2.0					
GW	2.0					
GX	2.1					
GY	2.1					
GZ	1.8					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA L / ZONE 4)
DATE: 7/21/10
DREDGE ENGINEER(S): Mike Taubi / Marc Friedman / Zack [illegible]

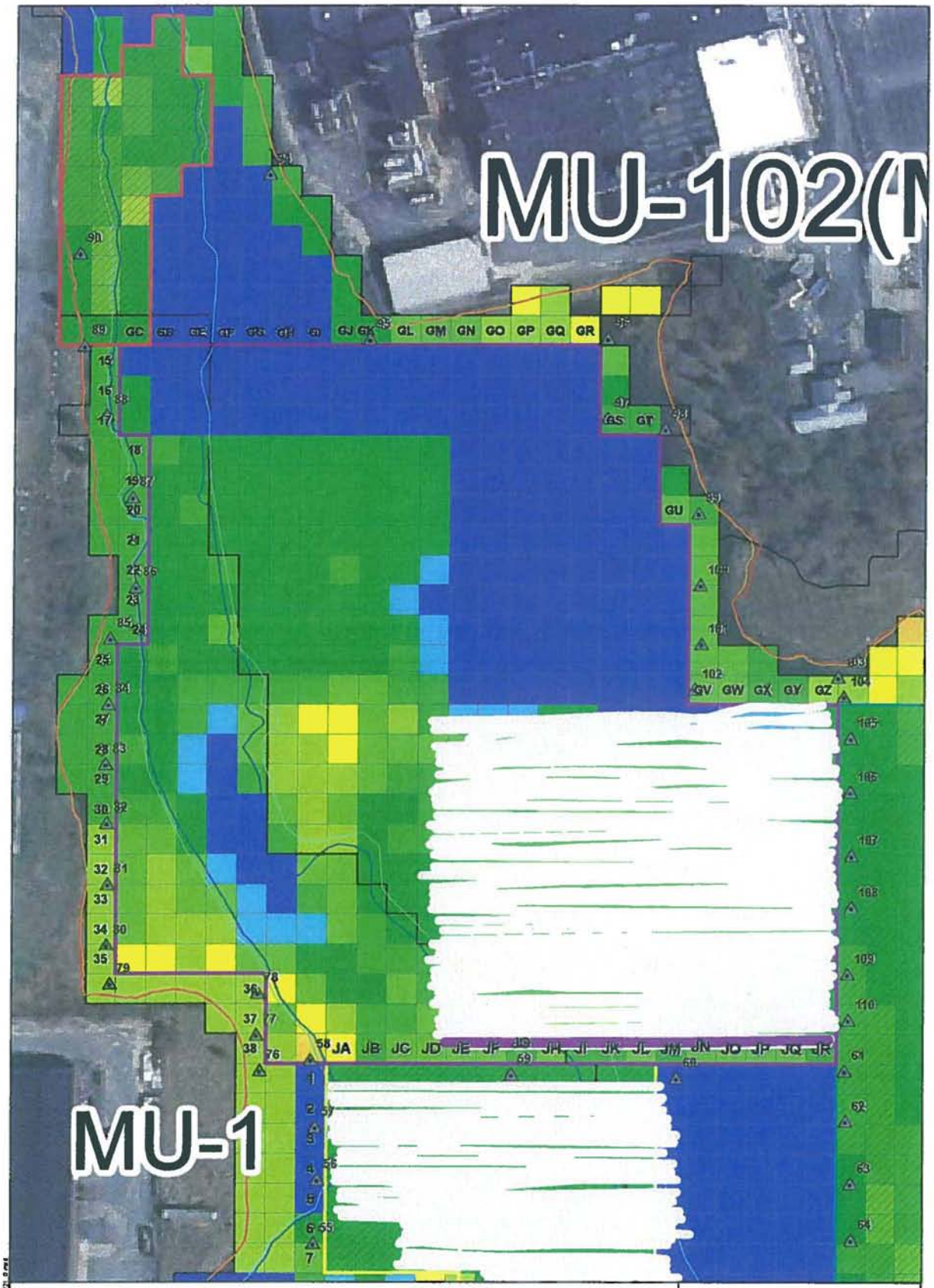
	PASSES; 0 COLUMN; 0 LQ1N LCC1N	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
LQ						
LR						
LS						
LT	N/C					
LU						
LV						
LW						
LX						
LY						
LZ						
LAA						
LBB						
LCC						

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA K / ZONE 6)
DATE: 7/21/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zack Zito

	PASSES; 3 COLUMN; 0 KFF1N KLL1N	PASSES; 2 COLUMN; 0 KFF1NC KLL1NC	PASSES; 2 COLUMN; 0 KFF1SC KLL1SC	PASSES; 3 COLUMN; 0 KFF1S KLL1S	AVE. ROD READING PER (Z) BLOCK KFF2N KLL2N	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
KFF	3.0	3.0	3.0	3.0		
KGG	4.8	4.8	4.8	4.8		
KHH	5.4	5.4	5.4	5.4		
KII	3.7	3.7	3.7	3.7		
KJJ	4.8	4.8	4.8	4.8	N/C	
KKK	4.2	4.2	4.2	4.2		
KLL	4.2	4.2	4.2	4.2		

NOTES:



Legend

8 foot buffer represending area of cut for 07/21/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6 - 3.0
3.1 - 3.5
3.6 - 4.0
4.1 - 4.5
4.6 - 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

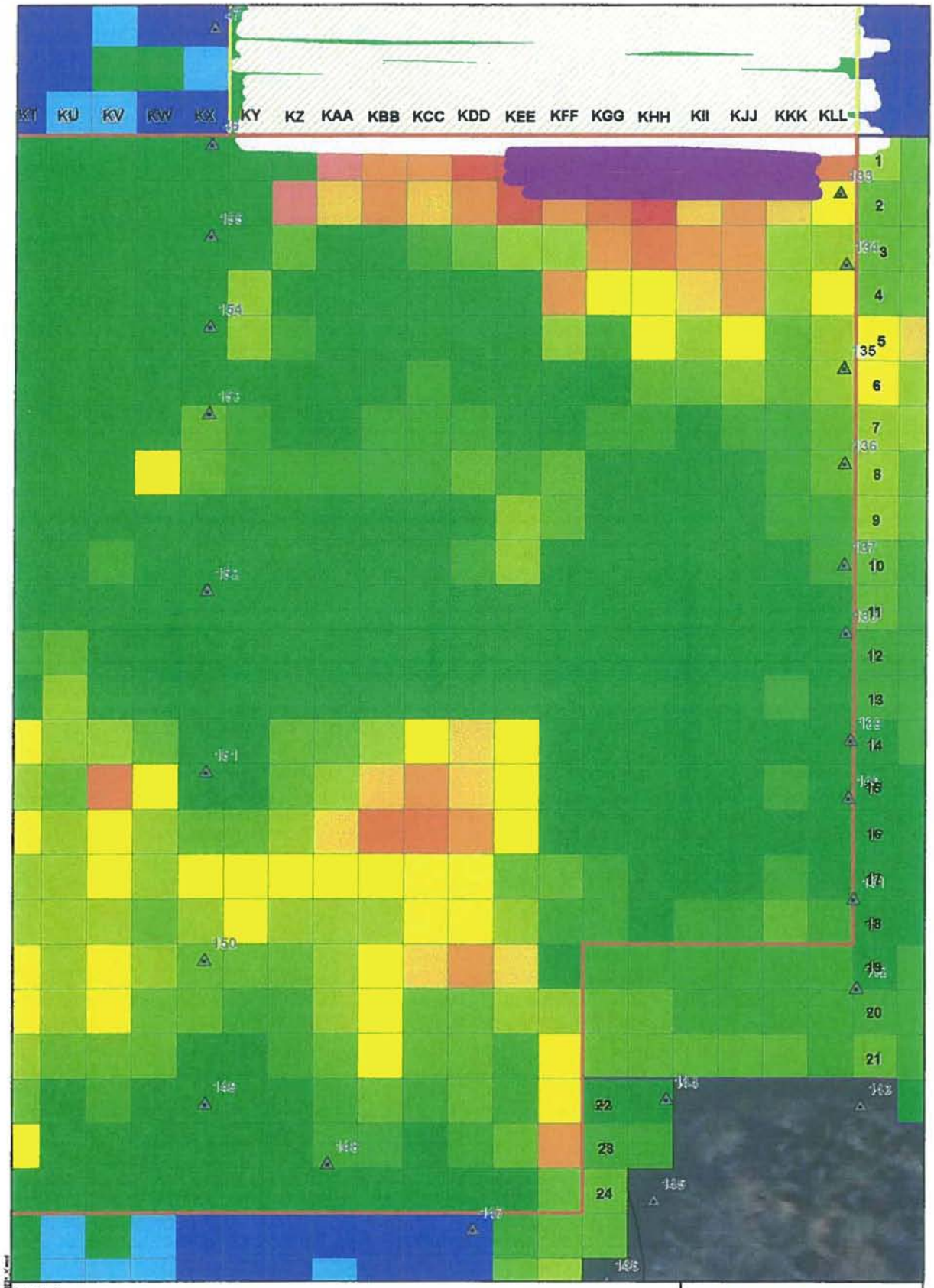
JACOBS

07/21/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 07/21/2010

07/21/10-G



Legend

- Dredge Area K
- 2010 Sheet Pile Locations
- 8 foot buffer represending area of cut for 07/21/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

JACOBS

07/21/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobert DATE: 07/21/2010 07/21/10-K

7/21/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN38NC	GZ38NC	319	6	1.9	3636.6	766
KFF1N	KLL1N	168	6	4.3	4334.4	
KFF1NC	KLL1NC	166	6	4.3	4282.8	
KFF1SC	KLL1SC	168	6	4.3	4334.4	
KFF1S	KLL1S	159	6	4.3	4102.2	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	12,585
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	
7/20/2010	GPS Estimate	712	
7/21/2010	GPS Estimate	766	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 2/20/10
DREDGE ENGINEER(S): Mike Tarbi / Zack Betz / Marc Friedman

ROW ~~WEST TO EAST~~ WEST TO EAST	PASSES; 0 (2) COLUMN; 0 J024N JA24N MATERIAL REMOVED (FT)	PASSES; 0 (2) COLUMN; 0 J024NC J024NC MATERIAL REMOVED (FT)	PASSES; 0 (2) COLUMN; 0 J024SC JA24SC MATERIAL REMOVED (FT)	PASSES; 0 (2) COLUMN; 0 J024S JA24S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK (3) J025N JA25N MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5	1.5	1.5	1.5	1.5	
JN	1.5	1.5	1.5	1.5	1.5	
JM	1.5	1.5	1.5	1.5	1.5	
JL	1.5	1.5	1.5	1.5	1.5	
JK	1.5	1.5	1.5	1.5	1.5	
JI	1.5	1.5	1.5	1.5	1.5	
JH	1.5	1.5	1.5	1.5	1.5	
JG	1.5	1.5	1.5	1.5	1.5	
JF	1.5	1.5	1.5	1.5	1.5	
JE	1.5	1.5	1.5	1.5	1.5	
JD	1.5	1.5	1.5	1.5	1.5	
JC	1.5	1.5	1.5	1.5	1.5	
JB	1.5	1.5	1.5	1.5	1.5	
JA	1.5	1.5	1.5	1.5	1.5	

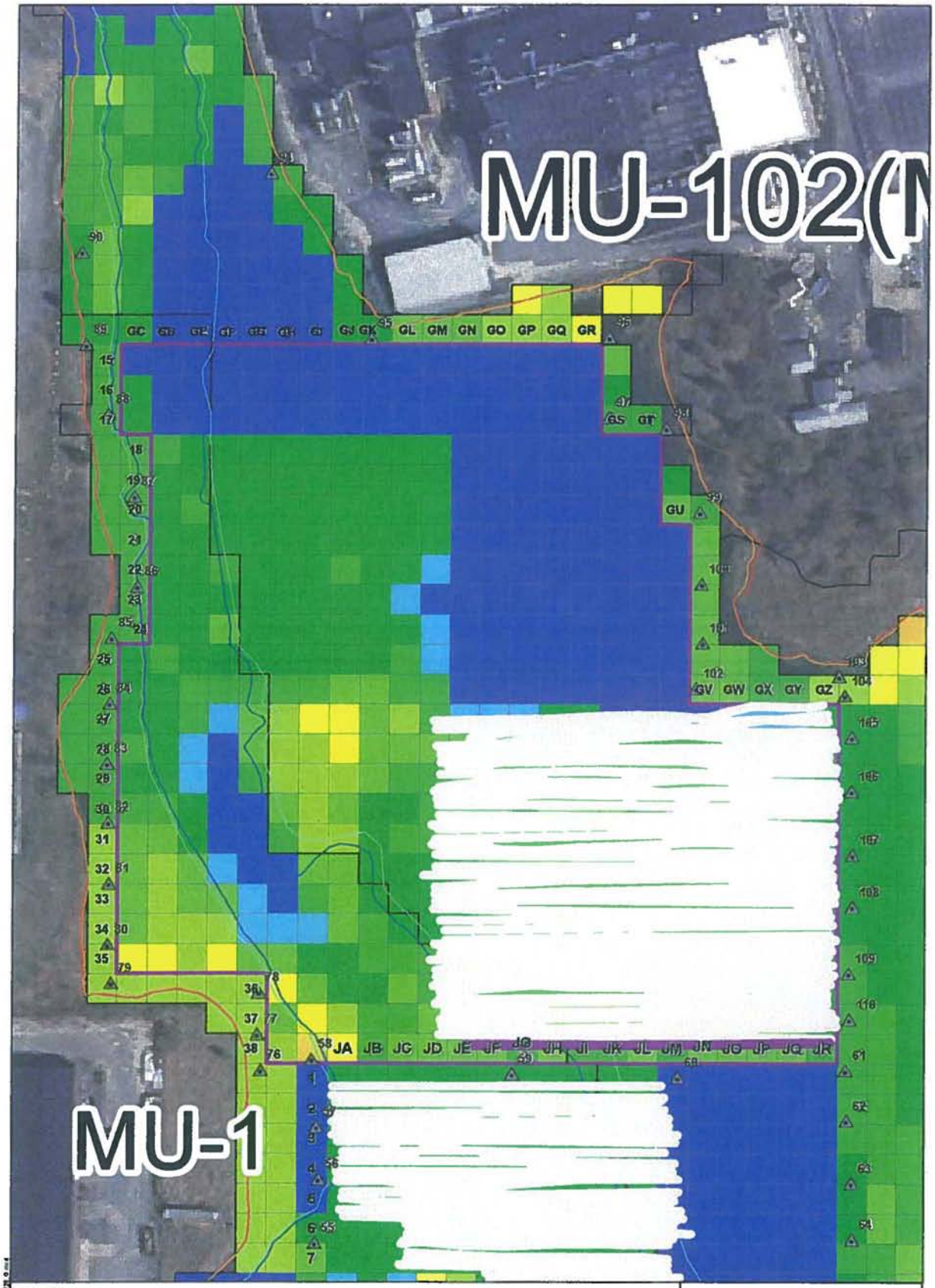
NOTES:

* J025N – JA25N completed
Dredge Area J.

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/20/10
DREDGE ENGINEER(S): Mike Taibi / Zack Zito / Marc Friedman

	PASSES; 0 COLUMN; 0 GN 38NC GZ 38NC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	2.0					
GO	2.1					
GP	1.7					
GQ	2.1					
GR	1.9					
GS	2.1					
GT	2.2					
GU	1.7					
GV	2.2					
GW	2.2					
GX	2.4					
GY	2.2					
GZ	1.8					

NOTES:



Legend

8 foot buffer represending area of cut for 07/20/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

Aerial Photography MASSGIS 2003

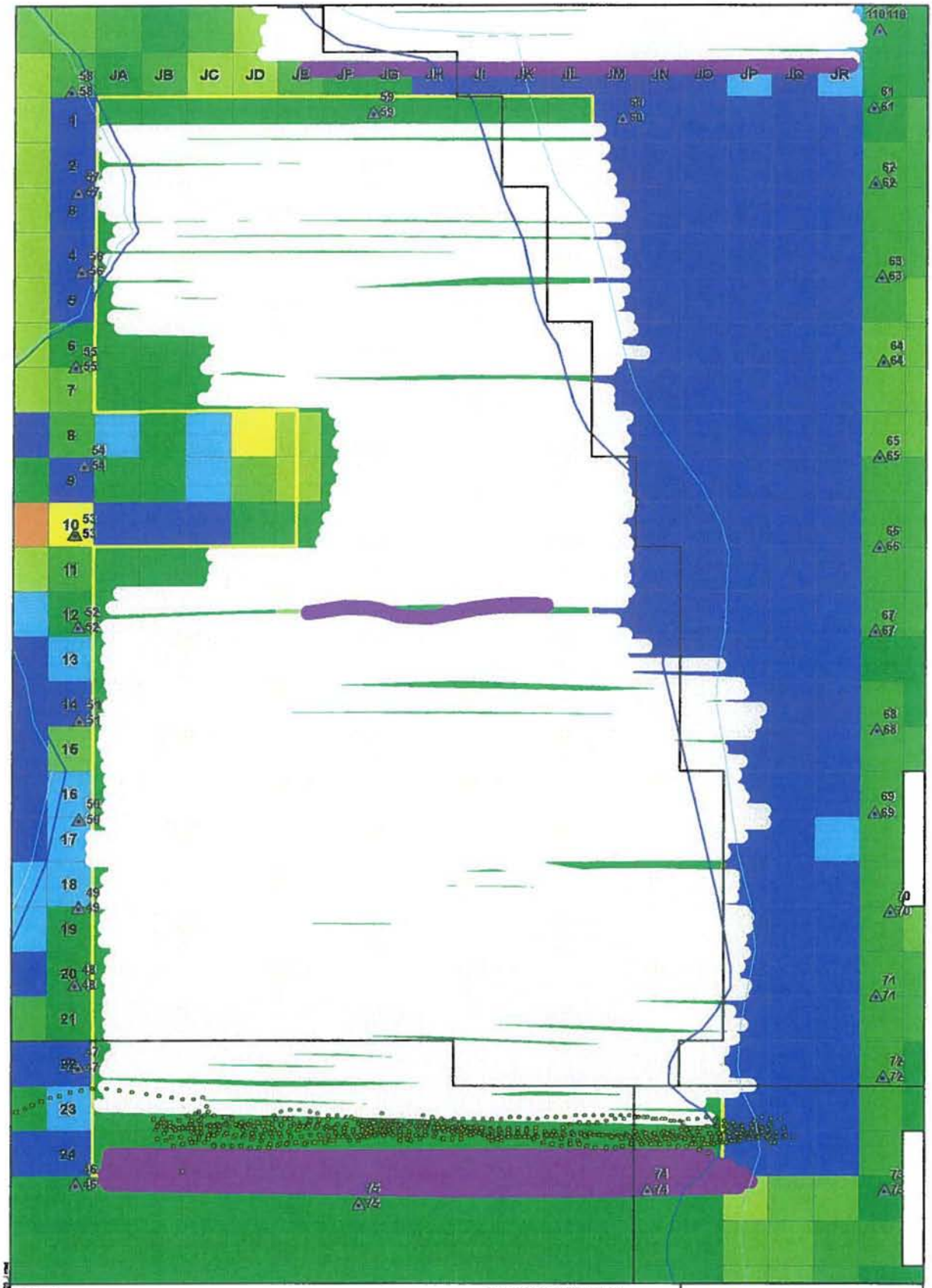
JACOBS

07/20/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 07/20/2010

07/20/10-G



Legend

- GPS Locations from 07/19/10
- 8 foot buffer represending area of cut for 07/20/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities
- Dredge with Caution Zone
- No Dredge Zone
- Dredge Area J
- 2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/20/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: roberts DATE: 07/20/2010

07/20/10-J

7/20/2010

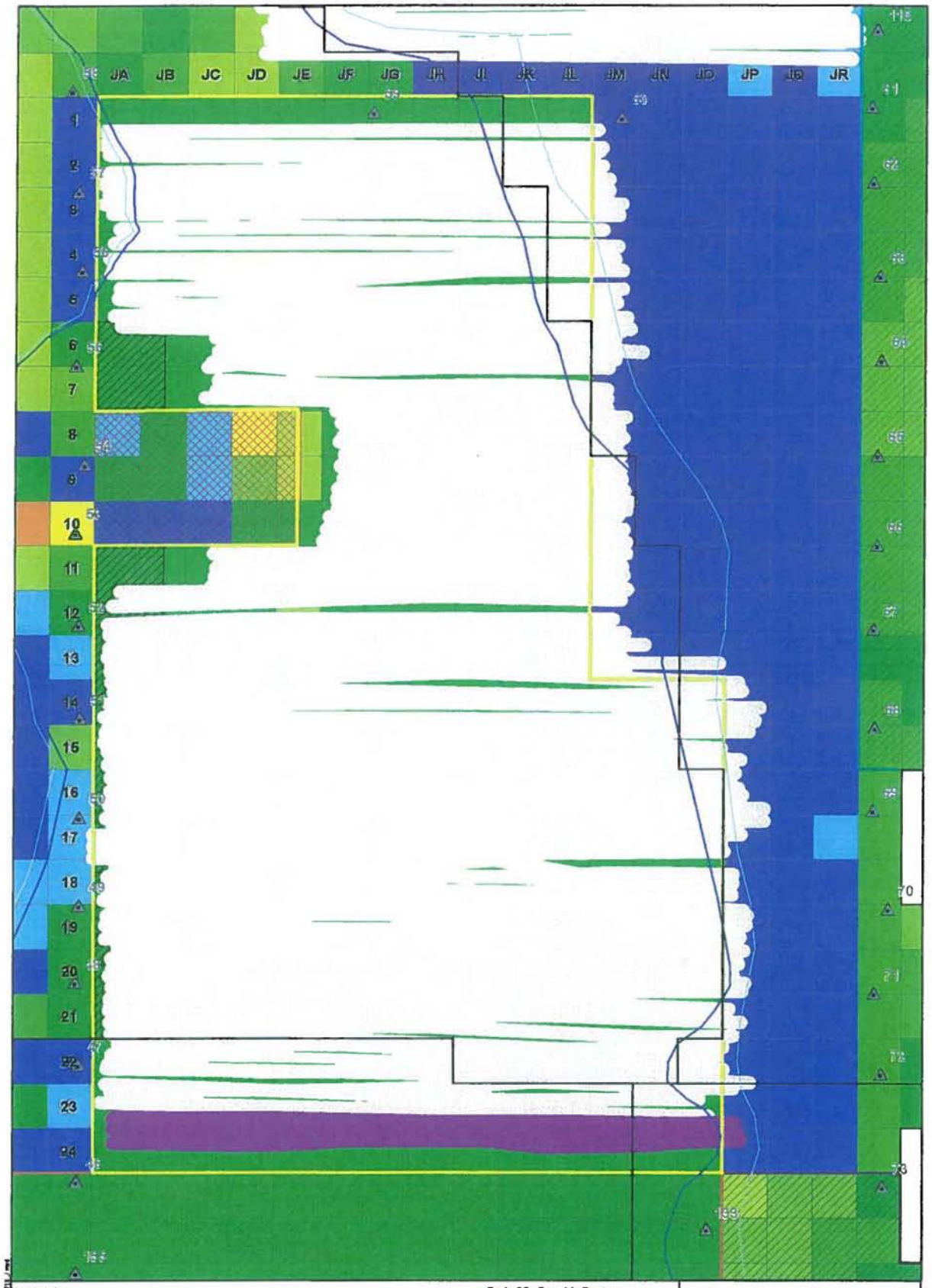
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN38NC	GZ38NC	303	6	2	3636	712
JO24N	JA24N	331	6	1.5	2979	
JO24NC	JO24NC	344	6	1.5	3096	
JO24SC	JA24SC	353	6	1.5	3177	
JO24S	JA24S	357	6	1.5	3213	
JO25N	JA25N	348	6	1.5	3132	
JG12	JL12	133	6		0	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	11,472
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate		
7/20/2010	GPS Estimate	712	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/19/10
DREDGE ENGINEER(S): Mike Taubi / Marc Friedman

	PASSES; ~~0~~ 2 COLUMN; 0 J023NC JA23NC	PASSES; ~~0~~ 2 COLUMN; 0 J023SC JA23SC	PASSES; ~~0~~ 2 COLUMN; 0 J023S JA23S	PASSES; ~~0~~ COLUMN; 0 J024N J024N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW ~~WEST TO EAST~~ EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5	N/C		
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			

NOTES:



Legend

8 foot buffer represending area of cut for 07/19/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/19/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cotterts DATE: 07/19/2010

07/19/10-J

7/19/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
JO23NC	JA23NC	345	6	1.5	3105	347
JO23SC	JA23SC	347	6	1.5	3123	
JO23S	JA23S	348	6	1.5	3132	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	11,107
6/26/10-7/17/10	Bathy Survey 07/17/10	5,651	
7/19/2010	GPS Estimate	347	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/~~X~~/10
DREDGE ENGINEER(S): Mike Tabi / Marc Rneburan

	PASSES; 0 COLUMN; 0 GN37S GZ37S	PASSES; 0 COLUMN; 0 GN 38N GZ 38 N	PASSES; 0 COLUMN; 0 GN38NC GZ38NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.9	2.0				
GO	1.8	2.1				
GP	1.5	1.7				
GQ	2.3	2.1				
GR	2.3	1.9	NC			
GS	2.4	2.1				
GT	2.3	2.2				
GU	2.4	1.7				
GV	2.3	2.2				
GW	2.5	2.2				
GX	2.5	2.4				
GY	2.3	2.2				
GZ	1.5	1.8				
	2.2	2.0				
	319	327				

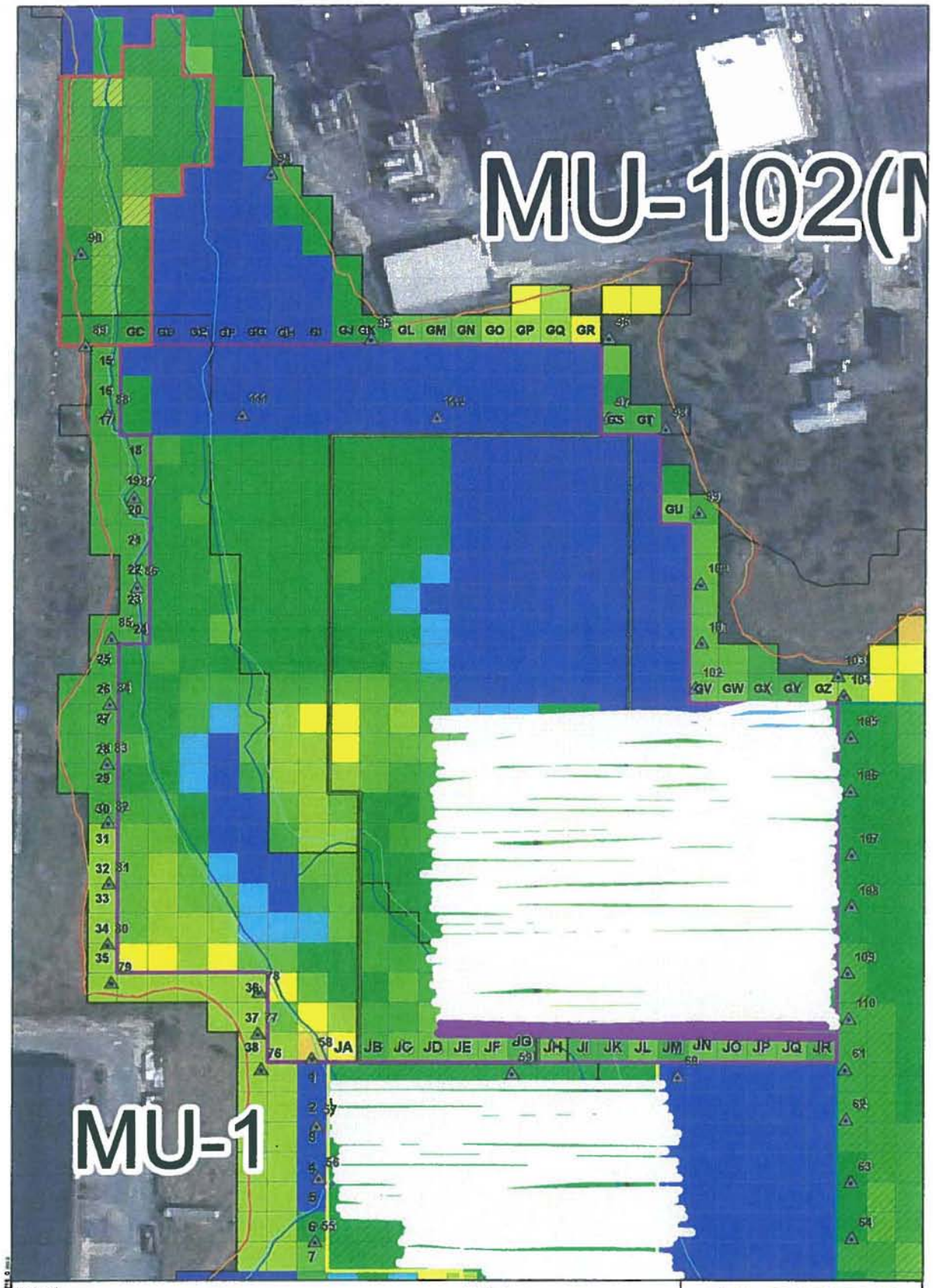
NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/~~X~~14/10
DREDGE ENGINEER(S): Mike Tabi / Marc Friedman

ROW ~~WEST TO EAST~~ EAST TO WEST	PASSES; 0 COLUMN; 0 J032 S JA32 S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 J033N JA33N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5					
JN	1.5					
JM	1.5					
JL	1.5					
JK	1.5	N/C				
JI	1.5					
JH	1.5					
JG	1.5					
JF	1.5					
JE	1.5					
JD	1.5					
JC	1.5					
JB	1.5					
JA	1.5					
	1.5					
	345					

NOTES:

* After completing J032S - JA32S - moved dredge 18' North to dredge a ridge that was not to proposed grade - completed to grade & then moved into J033N JA33N



Legend

8 foot buffer represending area of cut for 07/16/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

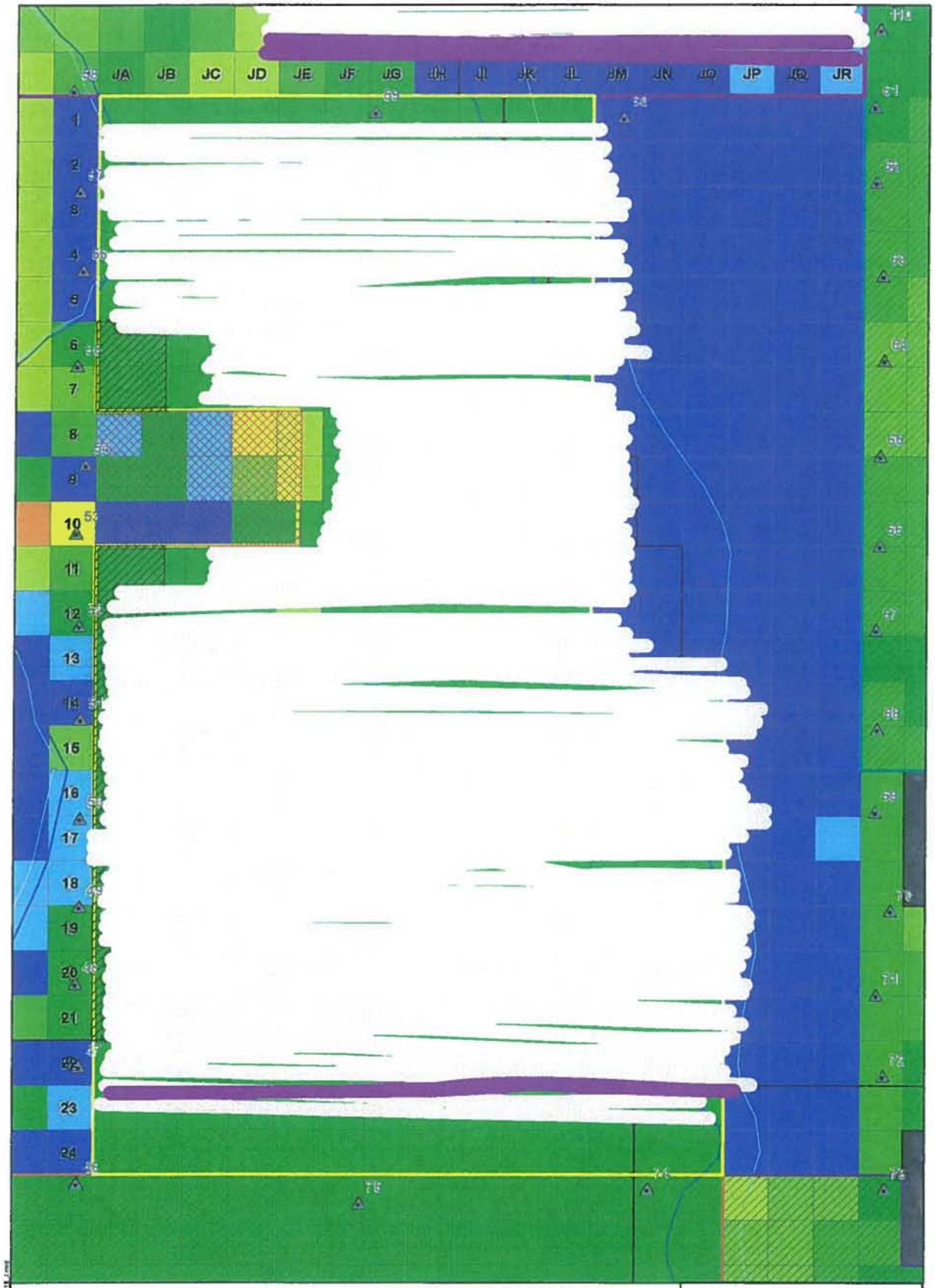
JACOBS

07/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/16/2010

07/16/10-G



Legend

8 foot buffer represending area of cut for 07/16/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolerts DATE: 07/16/2010

07/16/10-J

7/16/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN37S	GZ37S	319	6	2.2	4210.8	416
GN38N	GZ38N	327	6	2	3924	
JO32S	JA33N	345	6	1.5	3105	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	13,856
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	
7/12/2010	GPS Estimate	618	
7/13/2010	GPS Estimate	477	
7/14/2010	GPS Estimate	409	
7/15/2010	GPS Estimate	372	
7/16/2010	GPS Estimate	416	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/15/10
DREDGE ENGINEER(S): Mike Taibi / Mark Prachuan / Zak Zeb

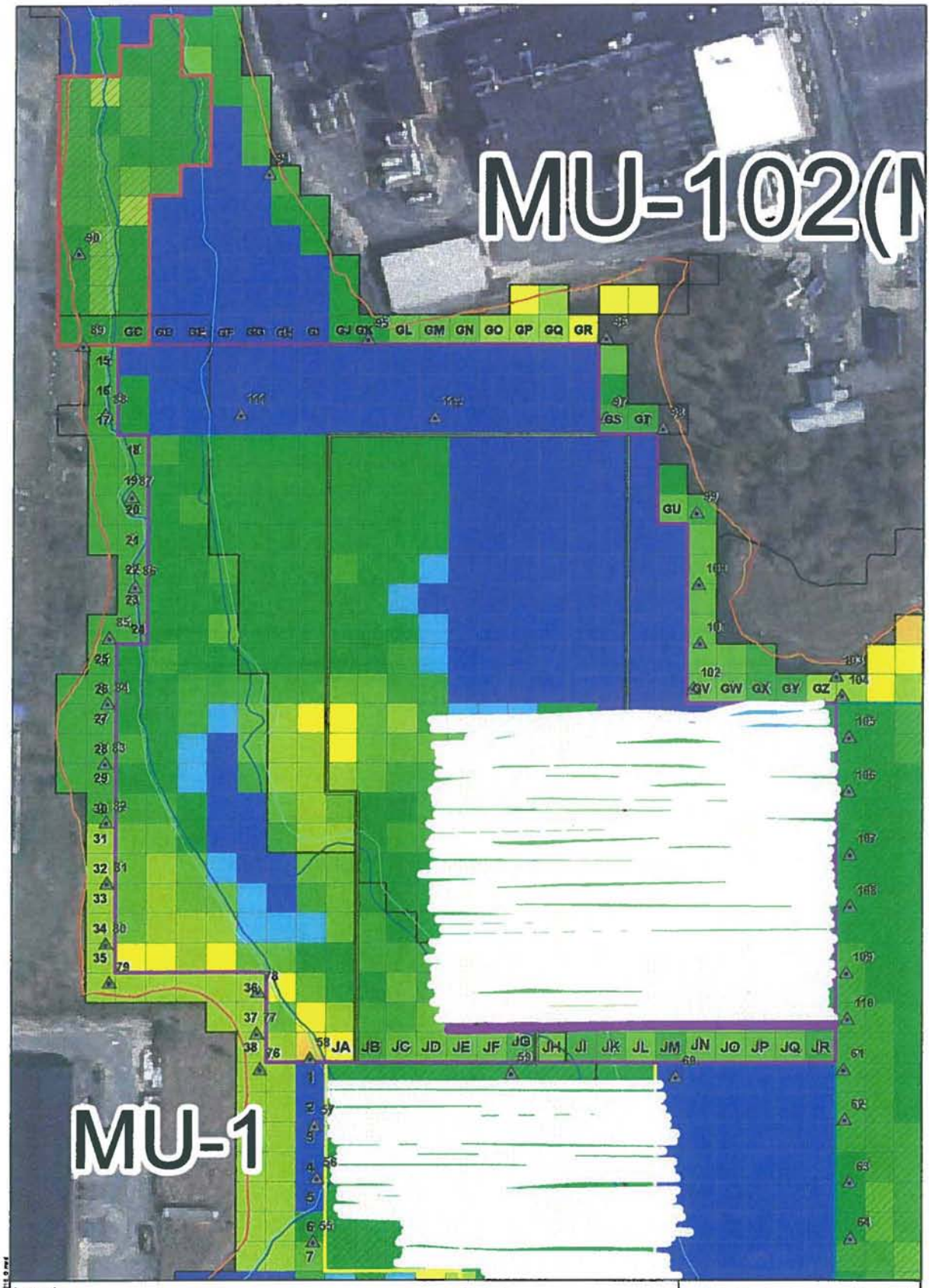
	PASSES; 0 COLUMN; 0 GN 375C GZ 375C	PASSES; 0 COLUMN; 0 GN 375 GZ 375	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.7					
GO	1.7					
GP	1.5					
GQ	2.2					
GR	2.2					
GS	2.2	N/C				
GT	2.4					
GU	2.5					
GV	2.3					
GW	2.5					
GX	2.5					
GY	2.0					
GZ	1.5					
	2.1					
	322					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/15/10
DREDGE ENGINEER(S): Mike Tarbi / Marc Friedman / Zak Zik

	PASSES; 0 COLUMN; 0 JO23NC JA23NC	PASSES; 0 COLUMN; 0 JO23SC JA23SC	PASSES; 0 COLUMN; 0 JO23S JA23S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW ~~WEST TO EAST~~ EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5				
JN	1.5	1.5				
JM	1.5	1.5				
JL	1.5	1.5				
JK	1.5	1.5	N/C			
JI	1.5	1.5				
JH	1.5	1.5				
JG	1.5	1.5				
JF	1.5	1.5				
JE	1.5	1.5				
JD	1.5	1.5				
JC	1.5	1.5				
JB	1.5	1.5				
JA	1.5	1.5				
	329	337				

NOTES:



Legend

8 foot buffer represending area of cut for 07/15/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

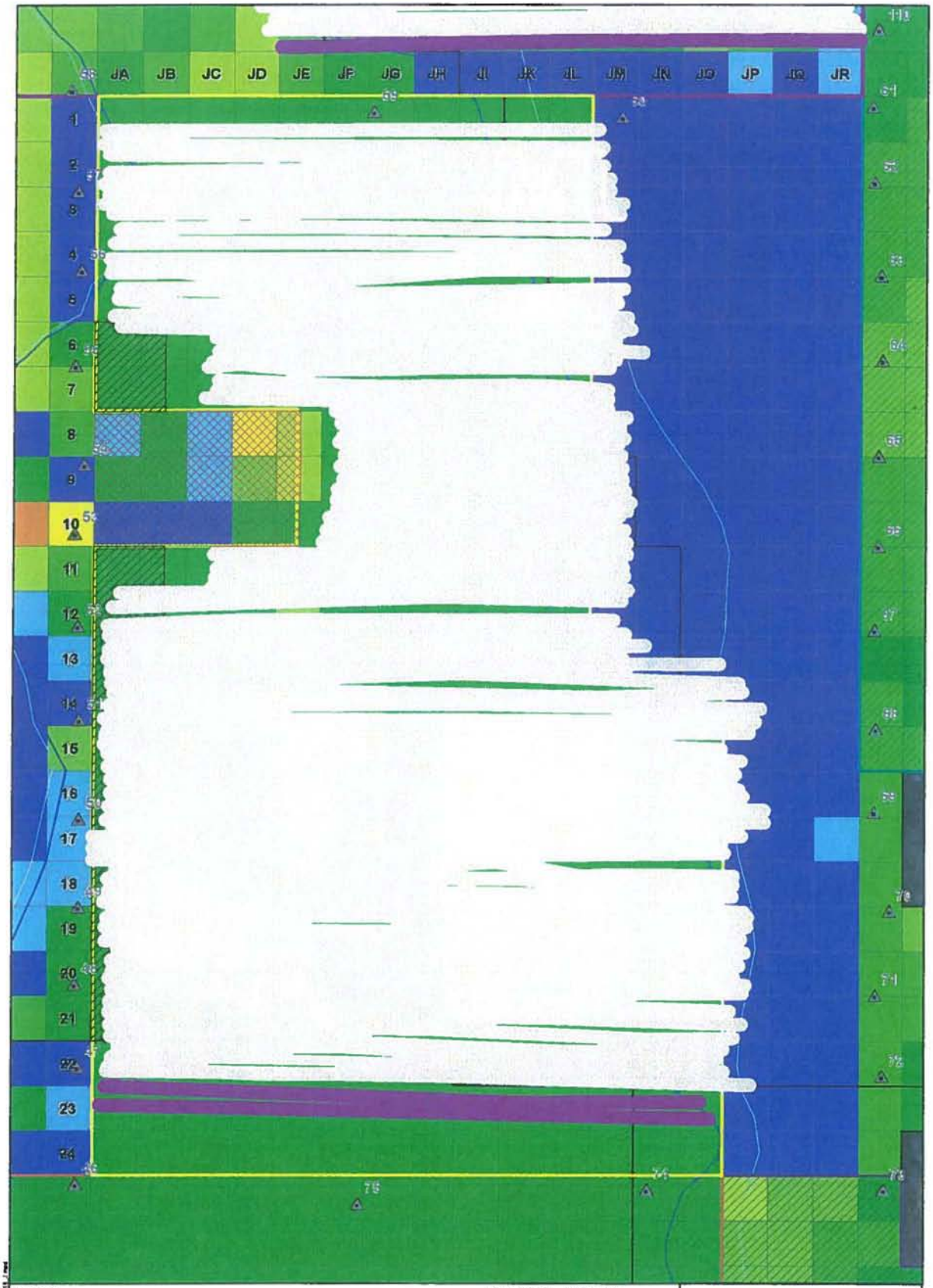
JACOBS™

07/15/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/15/2010

07/15/10-G



Legend

8 foot buffer represending area of cut for 07/15/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/15/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobert DATE: 07/15/2010

07/15/10-J

7/15/2010

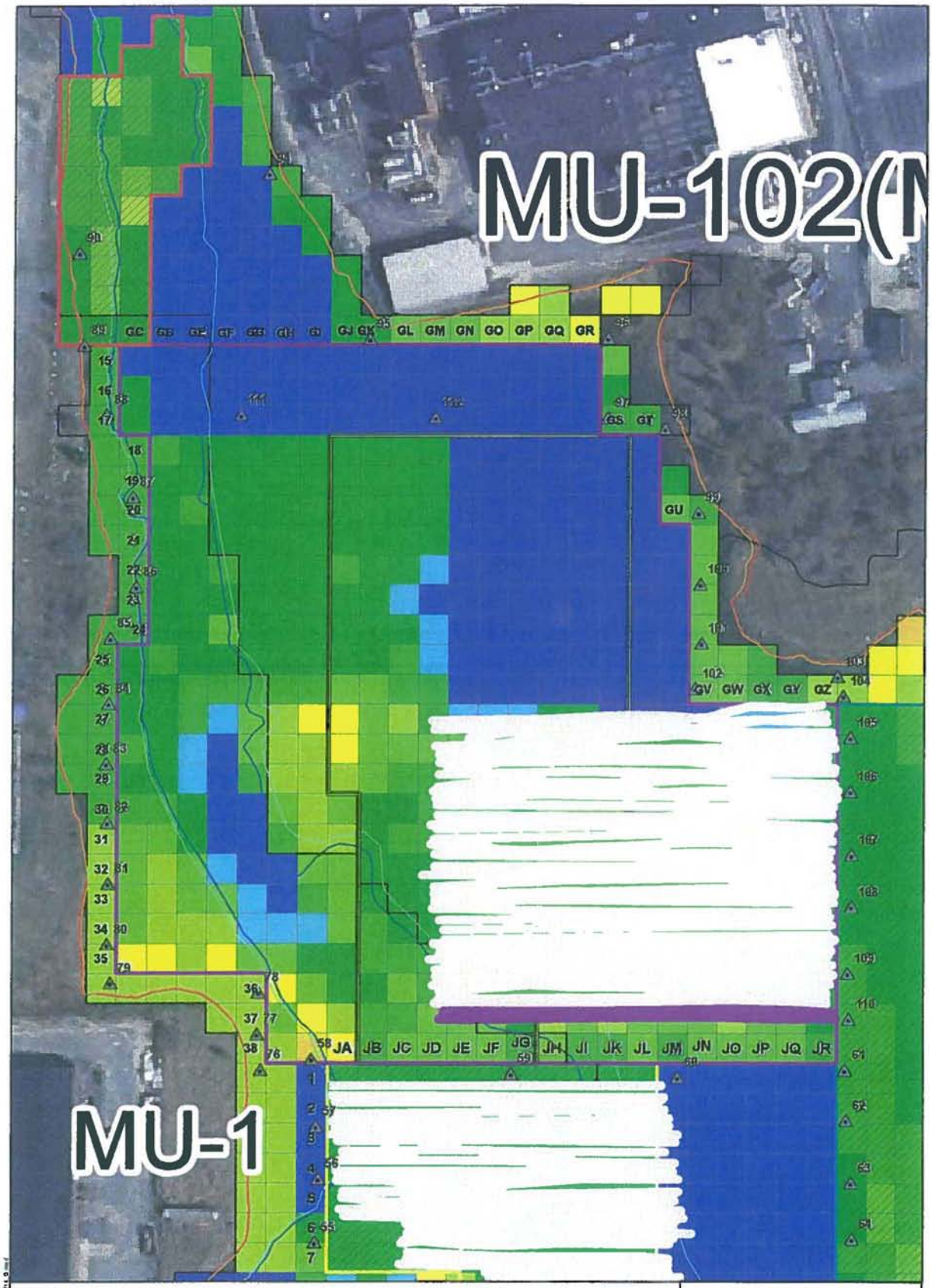
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN37SC	GZ37SC	322	6	2.1	4057.2	372
JO23NC	JA23NC	329	6	1.5	2961	
JO23SC	JA23SC	337	6	1.5	3033	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	13,440
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	
7/12/2010	GPS Estimate	618	
7/13/2010	GPS Estimate	477	
7/14/2010	GPS Estimate	409	
7/15/2010	GPS Estimate	372	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/14/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zak Zak

	PASSES; 0 COLUMN; 0 GN37N GZ37N	PASSES; 0 COLUMN; 0 GN37NC GZ37NC	PASSES; 0 COLUMN; 0 GN37SC GZ37SC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.9	1.9				
GO	1.8	1.8				
GP	1.5	1.5				
GQ	1.8	1.8				
GR	2.0	2.0				
GS	2.4	2.4	N/C			
GT	2.3	2.3				
GU	2.3	2.3				
GV	2.1	2.1				
GW	2.4	2.4				
GX	2.4	2.4				
GY	2.0	2.0				
GZ	1.5	1.5				
	2	2				
	322	330				

NOTES:



Legend

8 foot buffer represending area of cut for 07/14/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.8 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

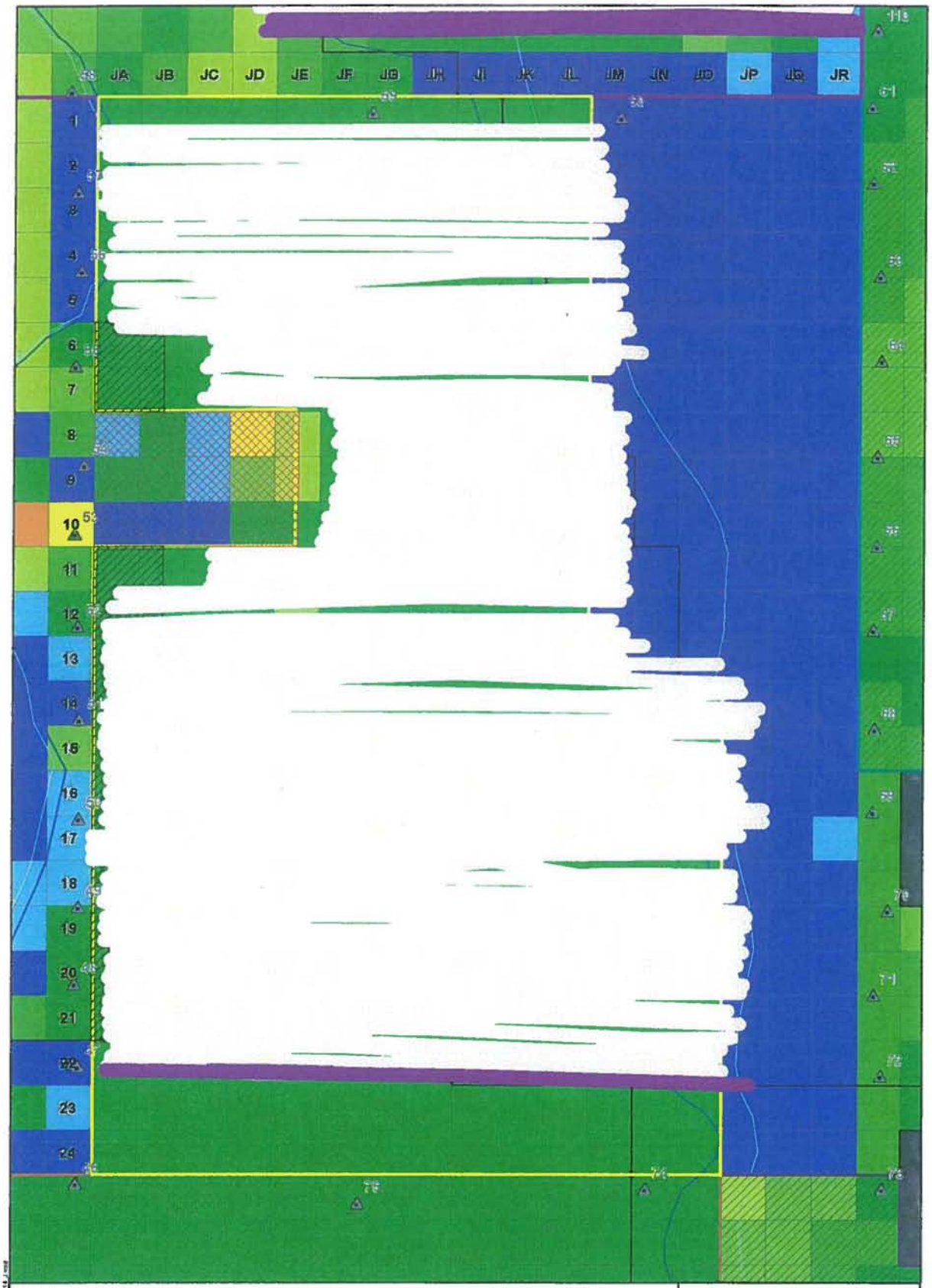
JACOBS™

07/14/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/14/2010

07/14/10-G



Legend

8 foot buffer represending area of cut for 07/14/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/14/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobarts DATE: 07/14/2010

07/14/10-J

7/14/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN37N	JZ37N	322	6	2	3864	409
GN37NC	GZ37NC	330	6	2	3960	
JO23N	JA23N	357	6	1.5	3213	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	13,068
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	
7/12/2010	GPS Estimate	618	
7/13/2010	GPS Estimate	477	
7/14/2010	GPS Estimate	409	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/13/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zak [illegible]

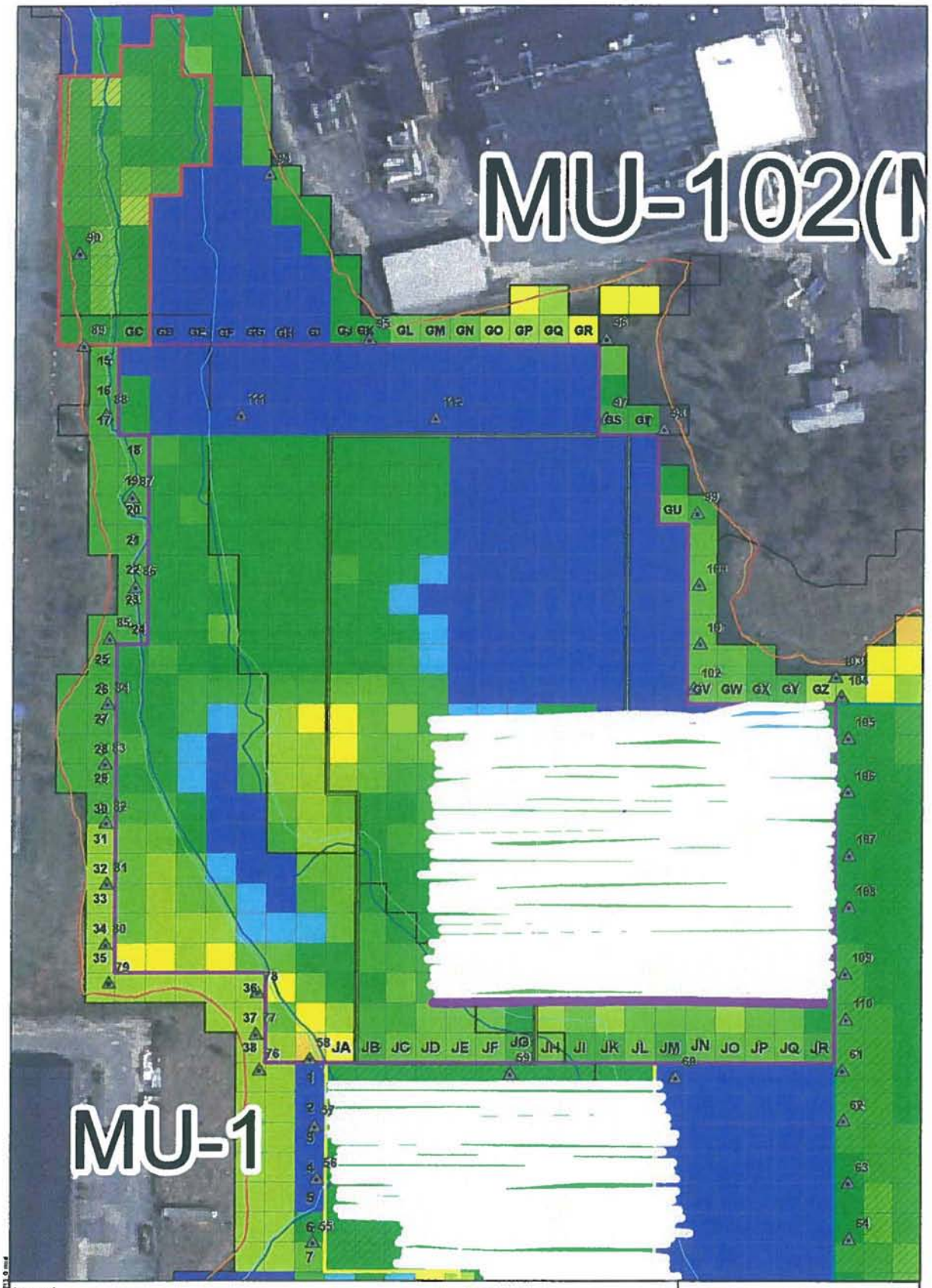
	PASSES; 0 COLUMN; 0 GN36S GZ36S	PASSES; 0 COLUMN; 0 GN37N GZ37N	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.9					
GO	1.7					
GP	1.5					
GQ	2.0					
GR	2.1	N/C				
GS	2.1					
GT	1.9					
GU	2.0					
GV	2.1					
GW	2.0					
GX	1.8					
GY	1.6					
GZ	1.5					
	1.9					
	327					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/13/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman / Zak [illegible]

	PASSES; 0 COLUMN; 0 J022NC JA22NC	PASSES; 0 COLUMN; 0 J022SC JA22SC	PASSES; 0 COLUMN; 0 J022S JA22S	PASSES; 0 COLUMN; 0 J023N JA23N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5	N/C		
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	331	339	346			

NOTES:



Legend

8 foot buffer representing area of cut for 07/13/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

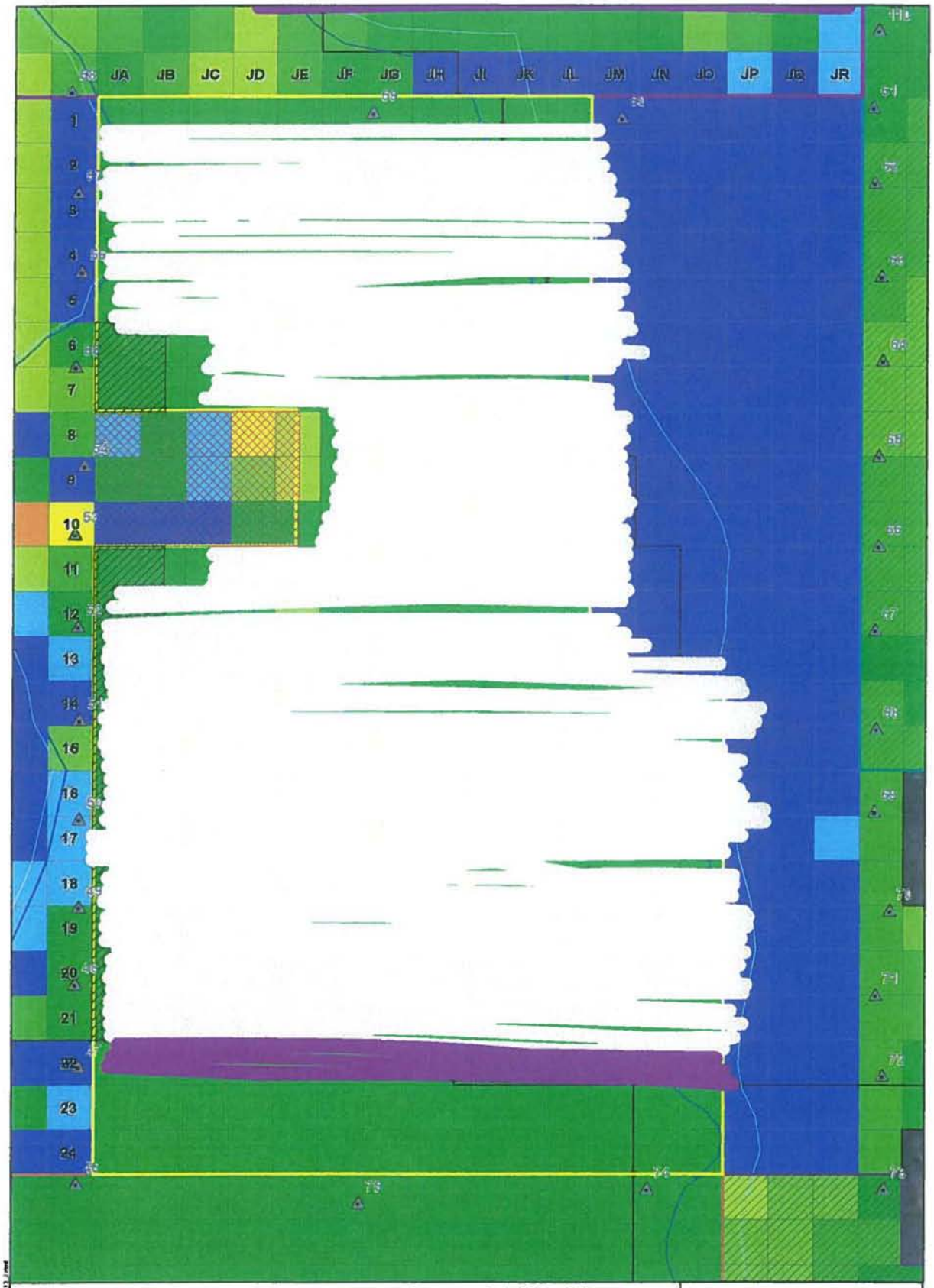
JACOBS™

07/13/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobers DATE: 07/13/2010

07/13/10-G



Legend

8 foot buffer represending area of cut for 07/13/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/13/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolerts DATE: 07/13/2010

07/13/10-J

7/13/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN36S	GZ36X	327	6	1.9	3727.8	477
JO22NC	JA22NC	331	6	1.5	2979	
JO22SC	JA22SC	339	6	1.5	3051	
JO22S	JA22S	346	6	1.5	3114	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	12,659
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	
7/12/2010	GPS Estimate	618	
7/13/2010	GPS Estimate	477	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/12/10
DREDGE ENGINEER(S): Marc Friedman / Mike Talbi / Zak Zito

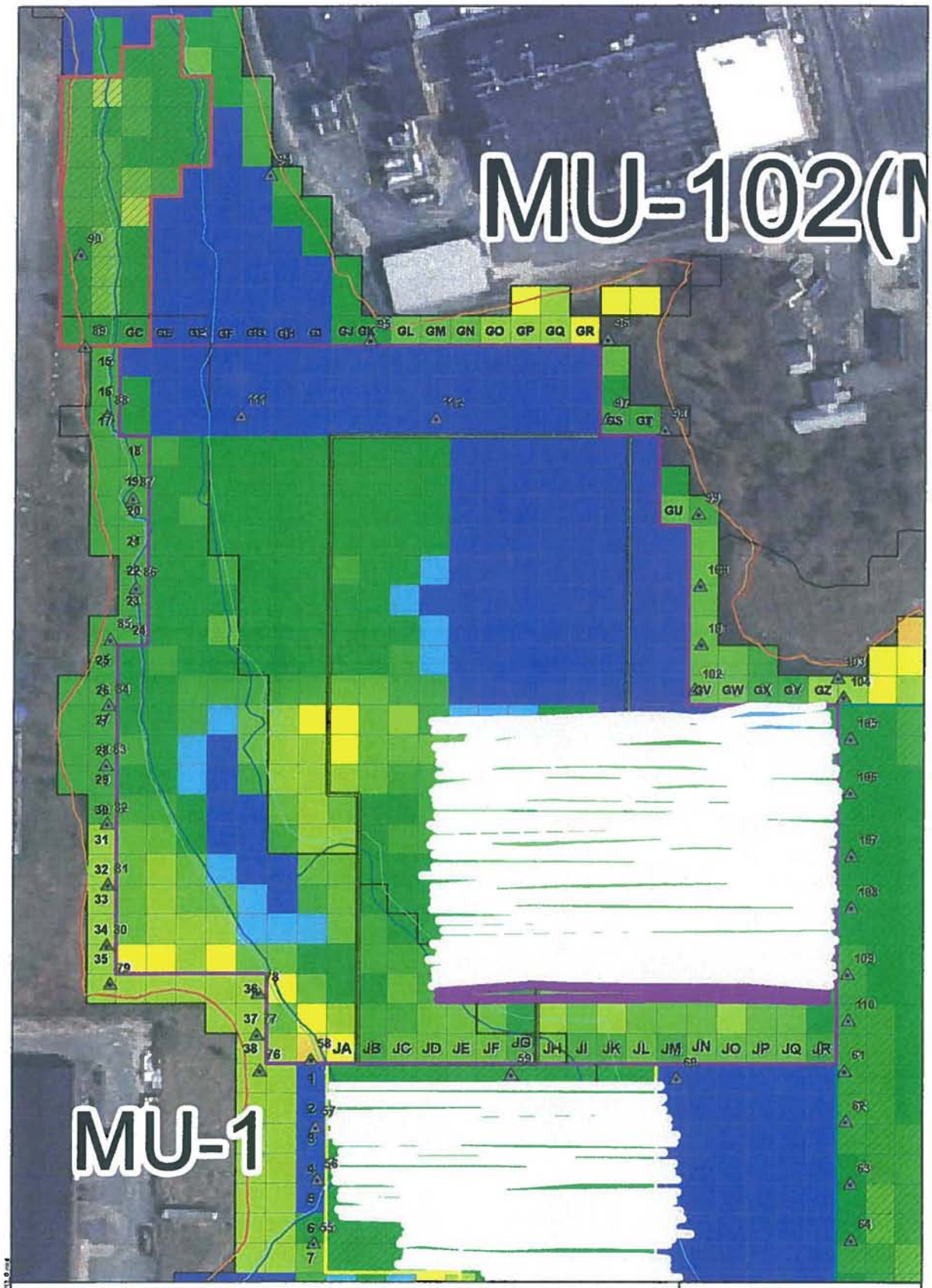
	PASSES; 0 COLUMN; 0 GN36SC GZ36SC	PASSES; 0 COLUMN; 0 GN36S GZ36S	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST to EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.9	1.9				
GO	1.7	1.7				
GP	1.5	1.5				
GQ	2.2	2.2				
GR	2.1	2.1				
GS	2.2	2.2				
GT	1.9	1.9				
GU	2.1	2.1				
GV	2.2	2.2				
GW	2.1	2.1				
GX	2.0	2.0				
GY	1.9	1.9				
GZ	1.5	1.5				
	1.9	1.9				
	323	323				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE:
DREDGE ENGINEER(S):

	PASSES; 0 COLUMN; 0 JO 21 S JA21S	PASSES; 0 COLUMN; 0 JO 22N JA22N	PASSES; 0 COLUMN; 0 JO 22NC JA22NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW ~~WEST TO EAST~~ E to W	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5			
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	351	346	339			

NOTES:



Legend

8 foot buffer represending area of cut for 07/12/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS

07/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 07/12/2010

07/12/10-G

Legend

8 foot buffer represending area of cut for 07/12/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/12/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 07/12/2010

07/12/10-J

7/12/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN36SC	GZ36SC	323	6	1.9	3682.2	618
GN36S	GZ36S	323	6	1.9	3682.2	
JO21S	JA21S	351	6	1.5	3159	
JO22N	JA22N	346	6	1.5	3114	
JO22NC	JA22NC	339	6	1.5	3051	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	12,182
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	
7/12/2010	GPS Estimate	618	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/9/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

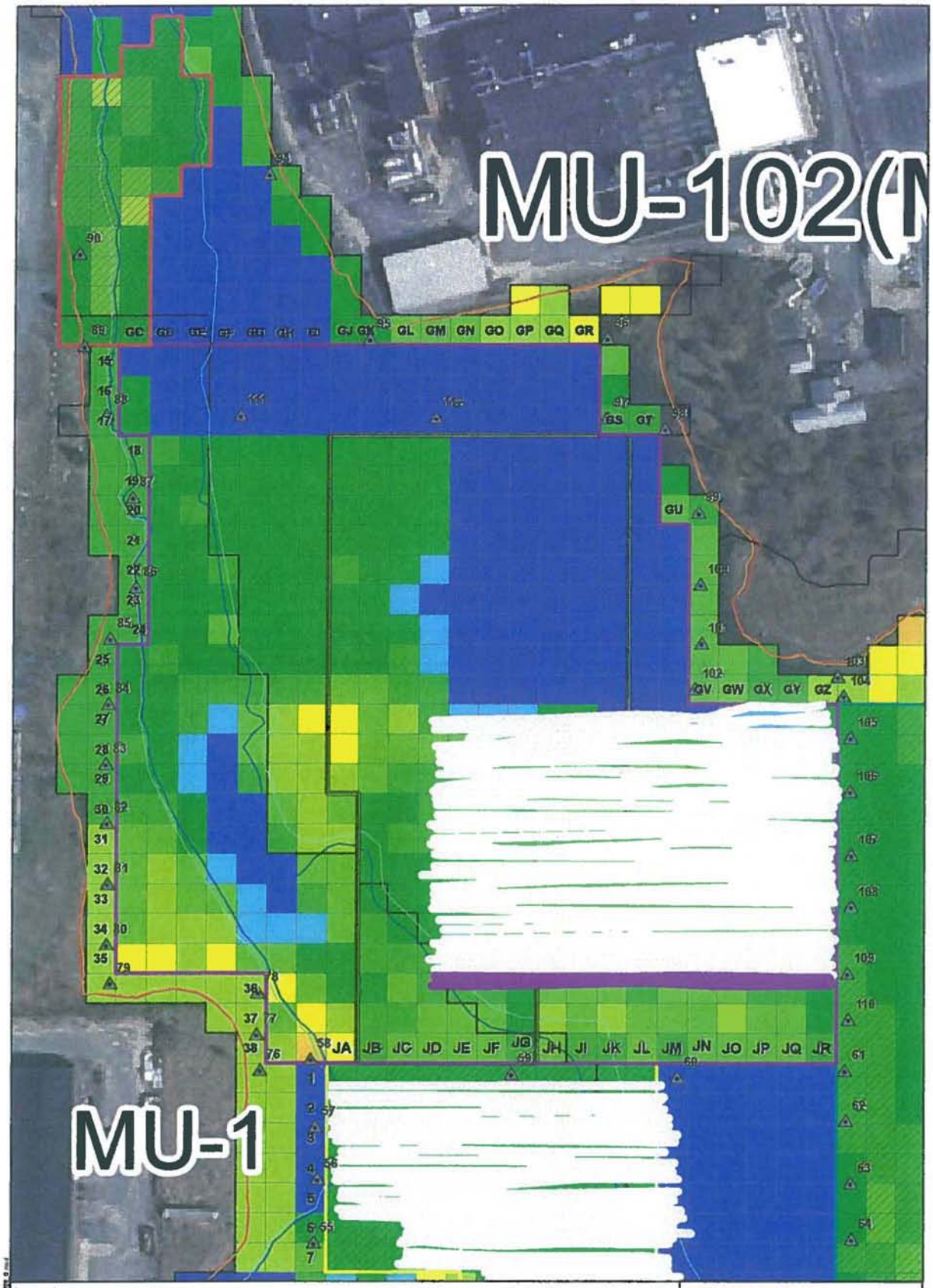
ROW ~~EAST TO WEST~~ WEST TO EAST	PASSES; 0 COLUMN; 0 GN 36N GZ 36N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN 36NC GZ 36NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.7	1.7				
GO	1.7	1.7				
GP	1.5	1.5				
GQ	1.9	1.9				
GR	2.0	2.0				
GS	2.1	2.1				
GT	2.0	2.0				
GU	1.9	1.9				
GV	2.0	2.0				
GW	1.9	1.9				
GX	1.9	1.9				
GY	1.7	1.7				
GZ	1.5	1.5				
	1.8	1.8				
	328	331				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/9/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman

	PASSES; 0 COLUMN; 0 JO 20S JA 20S	PASSES; 0 COLUMN; 0 JO 21N JA 21N	PASSES; 0 COLUMN; 0 JO 21NC JA 21NC	PASSES; 0 COLUMN; 0 JO 21SC JA 21SC	AVE. ROD READING PER (Z) BLOCK JO 21 S JA 21 S	THICKNESS OF EA.CUT IN FEET
ROW ~~WEST TO EAST~~ EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5	1.5	1.5		
JN	1.5	1.5	1.5	1.5		
JM	1.5	1.5	1.5	1.5		
JL	1.5	1.5	1.5	1.5	N/C	
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5		
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE	1.5	1.5	1.5	1.5		
JD	1.5	1.5	1.5	1.5		
JC	1.5	1.5	1.5	1.5		
JB	1.5	1.5	1.5	1.5		
JA	1.5	1.5	1.5	1.5		
	353	349	344	338		

NOTES:



Legend

8 foot buffer representing area of cut for 07/09/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Aerial Photography MASSGIS 2003

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

0 37.5 75 Feet 1:900

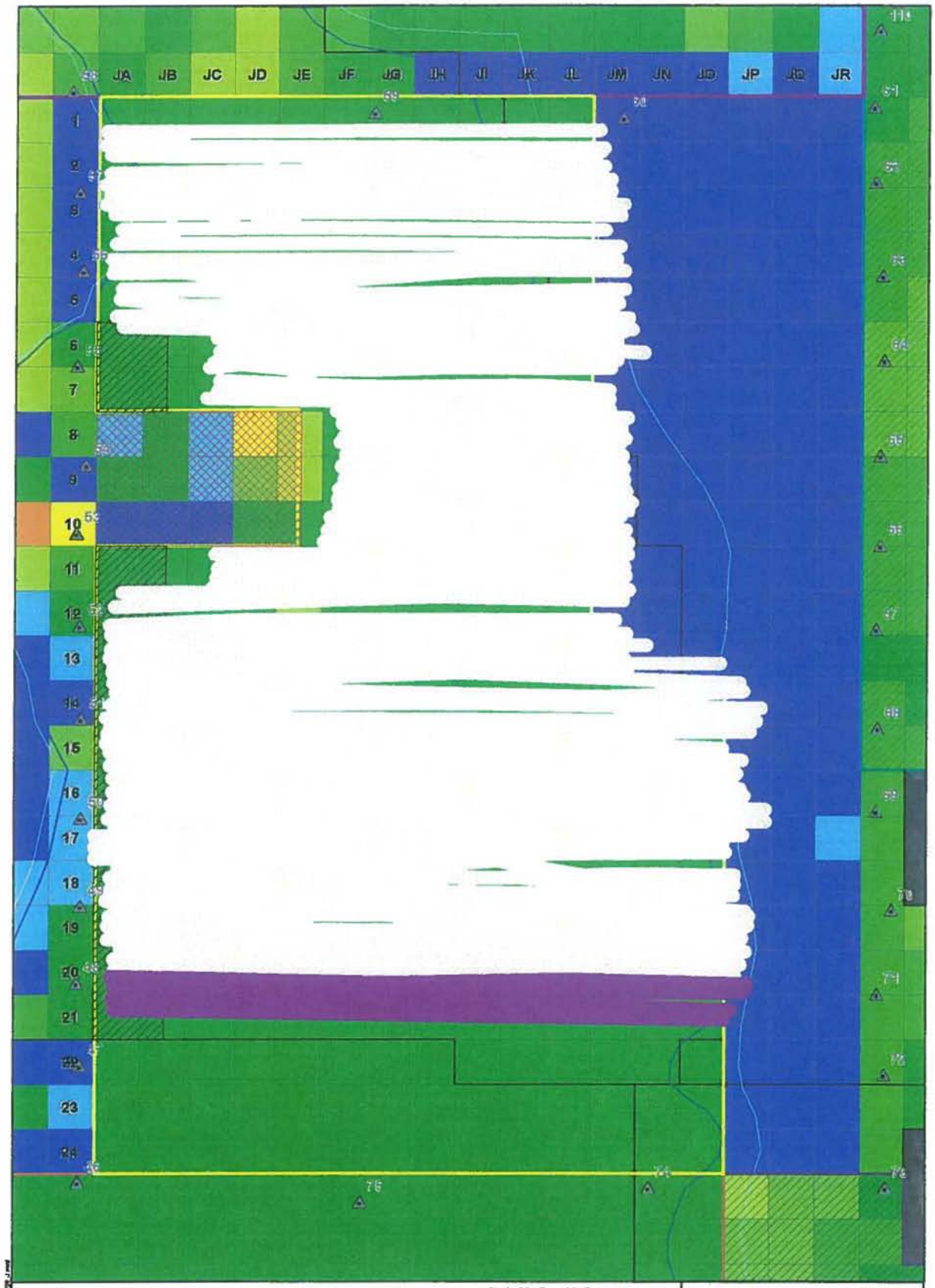
N

JACOBS™

07/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobert DATE: 07/09/2010 | 07/09/10-G



Legend

8 foot buffer represending area of cut for 07/09/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/09/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cobwin DATE: 07/09/2010

07/09/10-J

7/9/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN36N	GZ36N	328	6	1.8	3542.4	725
G36NC	GZ36NC	331	6	1.8	3574.8	
JO20S	JA20S	353	6	1.5	3177	
JO21N	JA21N	349	6	1.5	3141	
JO21NC	JA21NC	344	6	1.5	3096	
JO21SC	JA21SC	338	6	1.5	3042	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	11,564
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	
7/9/2010	GPS Estimate	725	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/8/10
DREDGE ENGINEER(S): Mike Tarb. / Mark Friedman / Zak Zito

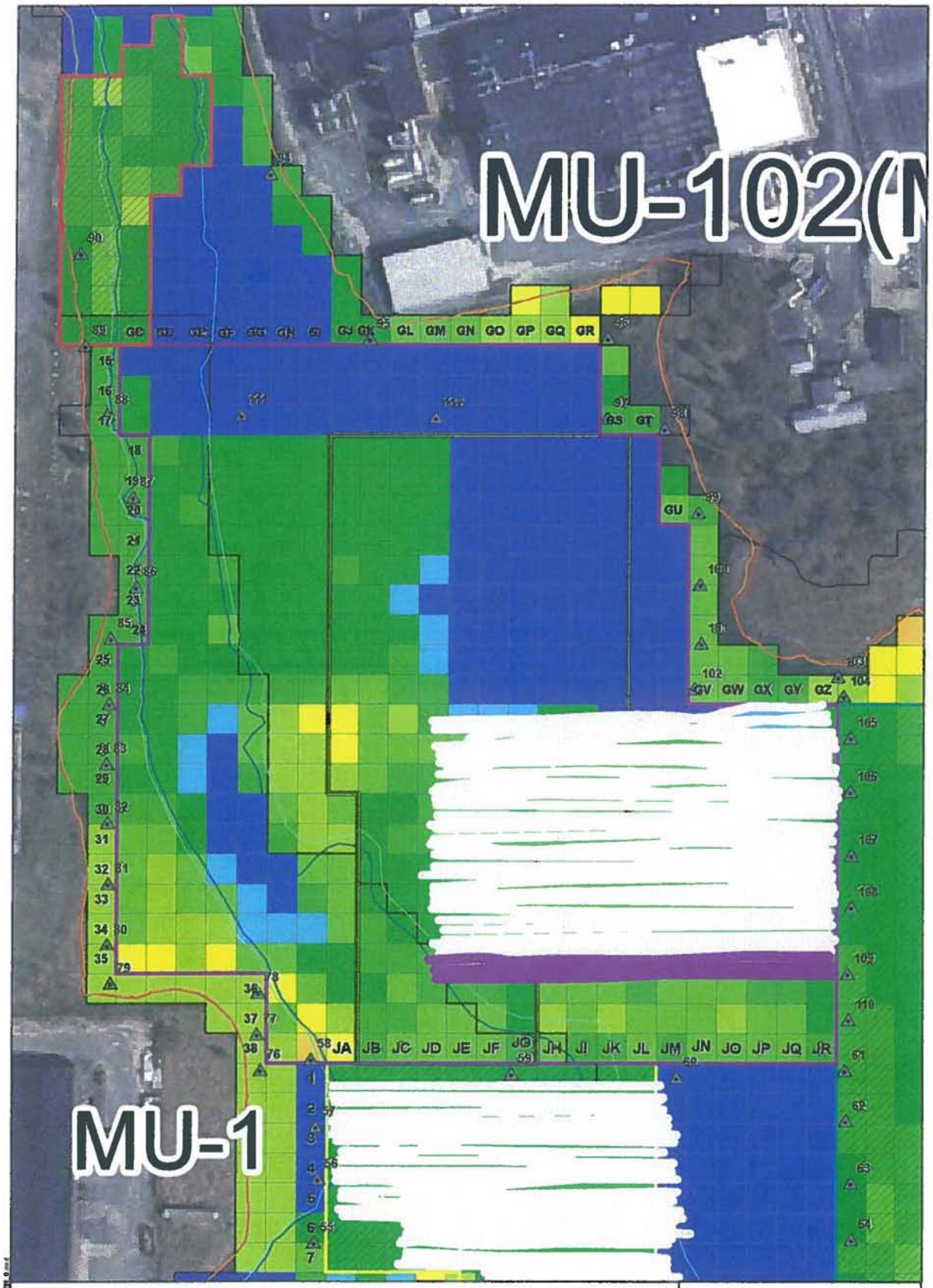
ROW ~~NORTH TO WEST~~ WEST TO EAST	PASSES; 0 COLUMN; 0 GN35NC GZ35NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN 35SC GZ 35SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN35S GZ35S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN36N GZ36N MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.6	1.6	1.6			
GO	1.5	1.5	1.5			
GP	1.5	1.5	1.5			
GQ	2.1	2.1	2.1			
GR	2.1	2.1	2.1	N/C		
GS	2.3	2.3	2.3			
GT	2.2	2.2	2.2			
GU	2.1	2.1	2.1			
GV	1.8	1.8	1.8			
GW	1.6	1.6	1.6			
GX	1.7	1.7	1.7			
GY	1.6	1.6	1.6			
GZ	1.5	1.5	1.5			
	1.8	1.8	1.8			
	333	331	331			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/8/10
DREDGE ENGINEER(S): Mike Tarb. / Marc Friedman / Zak Zit

ROW ~~WEST TO EAST~~ EAST TO WEST	PASSES; 0 COLUMN; 0 JO20N JA20N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO20NC JA20NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO20SC JA20SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO 20S JA 20S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5			
JI	1.5	1.5	1.5	N/C		
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	347	348	344			

NOTES:



Legend

8 foot buffer representing area of cut for 07/08/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6 - 3.0
3.1 - 3.5
3.6 - 4.0
4.1 - 4.5
4.6 - 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

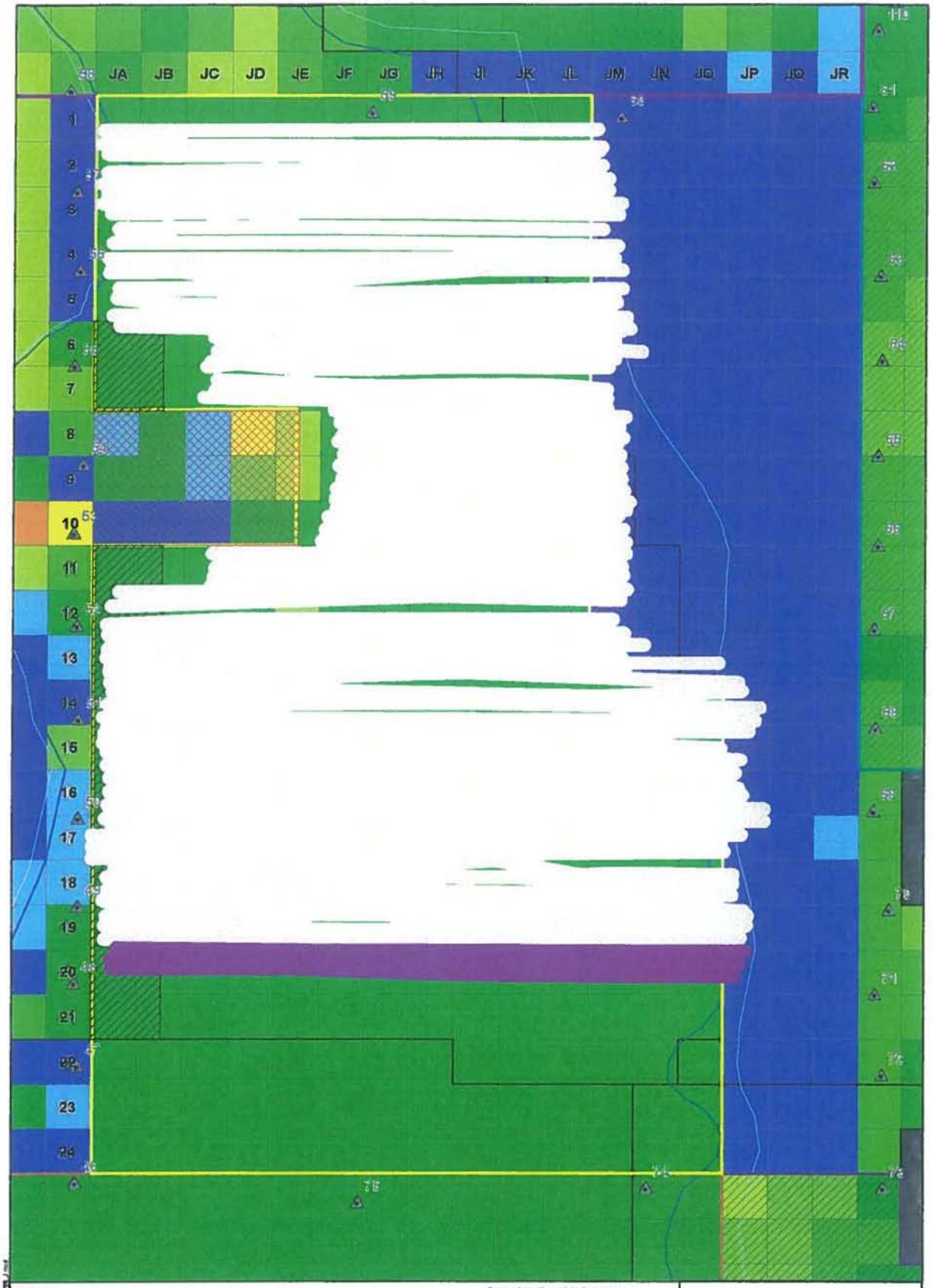
JACOBS

07/08/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 07/08/2010

07/08/10-G



Legend

8 foot buffer represending area of cut for 07/08/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0	3.0 - 3.5
0 - 0.5	3.5 - 4.0
0.5 - 1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	
2.5 - 3.0	

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/08/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: roberts DATE: 07/08/2010 07/08/10-J

7/8/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN35NC	GZ35NC	333	6	1.8	3596.4	744
GN35SC	GZ35SC	331	6	1.8	3574.8	
GN35S	GZ35S	331	6	1.8	3574.8	
JO20N	JA20N	347	6	1.5	3123	
JO20NC	JA20NC	348	6	1.5	3132	
JO20SC	JA20SC	344	6	1.5	3096	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	10,839
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	
7/8/2010	GPS Estimate	744	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/7/10
DREDGE ENGINEER(S): Mike Taib. / Marc Friedman / Zak Zite

	PASSES; ~~0~~ 2 COLUMN; 0 GN 34S GZ 34S	PASSES; ~~0~~ 2 COLUMN; 0 GN 35N GZ 35N	PASSES; 0 COLUMN; 0 GN 35NC GZ35NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.5	1.6	1.6			
GO	1.6	1.6	1.5			
GP	1.6	1.5	1.5			
GQ	2.0	2.0	2.0			
GR	2.1	2.2	2.2			
GS	2.2	2.3	2.3			
GT	2.0	2.3	2.3			
GU	1.9	2.0	2.0			
GV	1.8	1.8	1.8			
GW	1.7	1.7	1.7			
GX	1.7	1.7	1.7			
GY	1.6	1.5	1.5			
GZ	1.5	1.5	1.5			
	1.8	1.8	1.8			
	326	326	329			

NOTES:

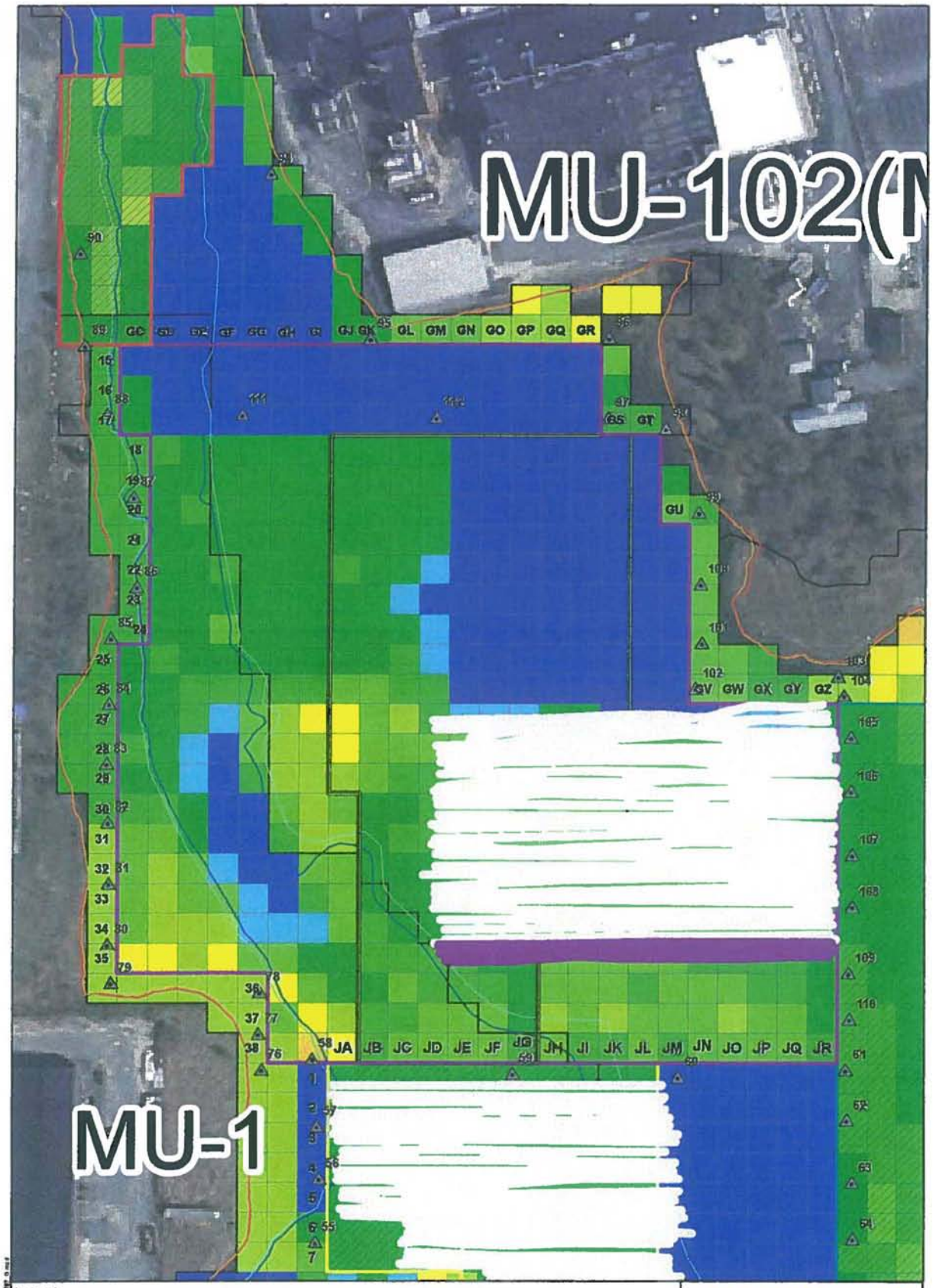
Tomorrow morning will continue into cut GN35SC thru GZ35SC

– Dredge move

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/7/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman /

ROW WEST TO EAST	PASSES; ~~0~~ 2 COLUMN; 0 J019N JA19N MATERIAL REMOVED (FT)	PASSES; ~~0~~ COLUMN; 0 J019NC JA19NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 J019SC JA19SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 J019S JA19S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5	N/C		
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	356	355	352			

NOTES:



Legend

8 foot buffer represending area of cut for 07/07/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS

07/07/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 07/07/2010

07/07/10-G

Legend

8 foot buffer represending area of cut for 07/07/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/07/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 07/07/2010

07/07/10-J

7/7/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN34X	GZ34S	326	6	1.8	3520.8	742
GN35N	GZ34N	326	6	1.8	3520.8	
GN35NC	GZ35NC	319	6	1.8	3445.2	
JO19N	JA19N	356	6	1.5	3204	
JO19NC	JA19NC	355	6	1.5	3195	
JO19SC	JA19SC	352	6	1.5	3168	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	10,095
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	
7/7/2010	GPS Estimate	742	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/6/10
DREDGE ENGINEER(S): Mark Friedman / Zak Zite

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 JO18N JA18N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO18NC JA18NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO18SC JA18SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO18S JA18S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK JO19N JA19N MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET JO19NC JA19NC
JO	1.5	1.5	1.5	1.5	1.5	
JN	1.5	1.5	1.5	1.5	1.5	
JM	1.5	1.5	1.5	1.5	1.5	
JL	1.5	1.5	1.5	1.5	1.5	
JK	1.5	1.5	1.5	1.5	1.5	
JI	1.5	1.5	1.5	1.5	1.5	
JH	1.5	1.5	1.5	1.5	1.5	N/C
JG	1.5	1.5	1.5	1.5	1.5	
JF	1.5	1.5	1.5	1.5	1.5	not started.
JE	1.5	1.5	1.5	1.5	1.5	
JD	1.5	1.5	1.5	1.5	1.5	
JC	1.5	1.5	1.5	1.5	1.5	
JB	1.5	1.5	1.5	1.5	1.5	
JA	1.5	1.5	1.5	1.5	1.5	
	343	347	346	355	343	

NOTES:

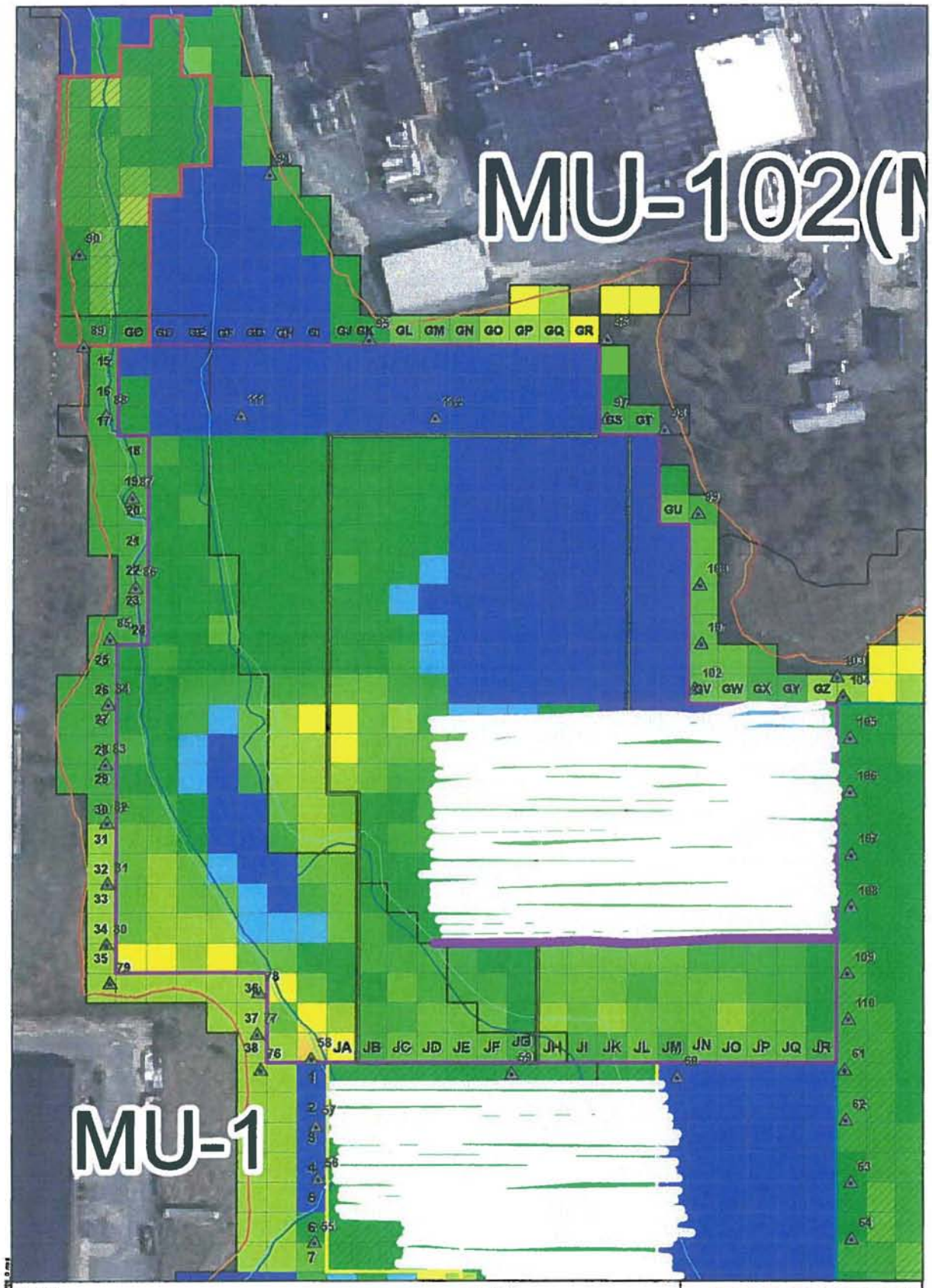
Due to extremely high temps we were cut short
@ 2:30pm stop time

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/6/10
DREDGE ENGINEER(S): Marc Friedman / Zak Zite

	PASSES; 0 COLUMN; 0 GN34SC GZ34SC	PASSES; 0 COLUMN; 0 GN34S GZ34S	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.5					
GO	1.5					
GP	1.6					
GQ	2.0	N/C				
GR	2.1					
GS	2.0					
GT	1.9					
GU	1.8					
GV	1.6					
GW	1.7					
GX	1.4					
GY	1.6					
GZ	1.5					
	1.7					
	33.5					

NOTES:

* Dere to extremely high temps were cut short
x 230pm stop time.



Legend

8 foot buffer represending area of cut for 07/06/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6 - 3.0

3.1 - 3.5

3.6 - 4.0

4.1 - 4.5

4.6 - 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

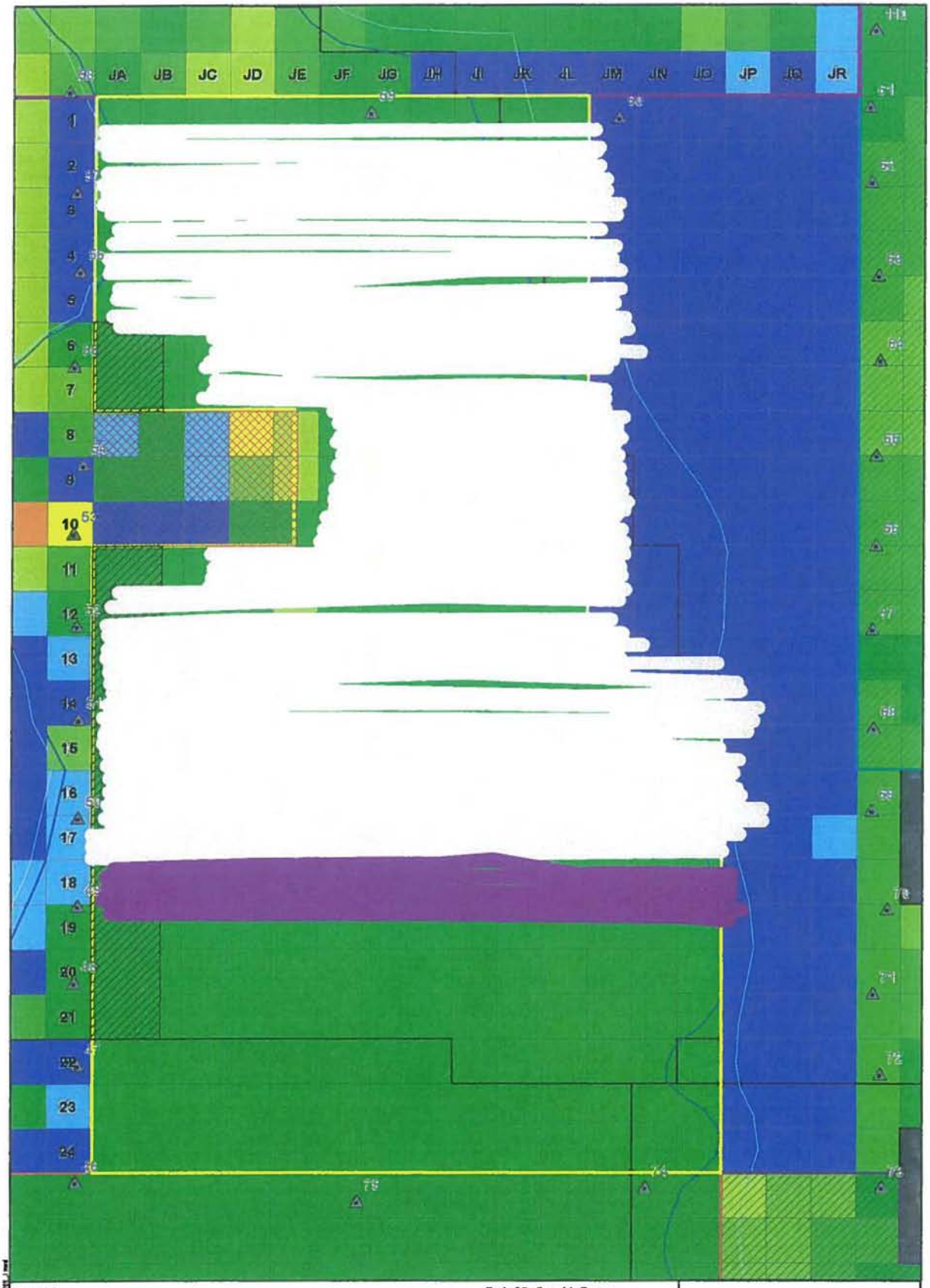
JACOBS™

07/06/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobetts DATE: 07/06/2010

07/06/10-G



Legend

8 foot buffer represending area of cut for 07/06/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0	3.0 - 3.5
0 - 0.5	3.5 - 4.0
0.5 - 1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	
2.5 - 3.0	

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/06/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crolwin DATE: 07/06/2010

07/06/10-J

7/6/2010

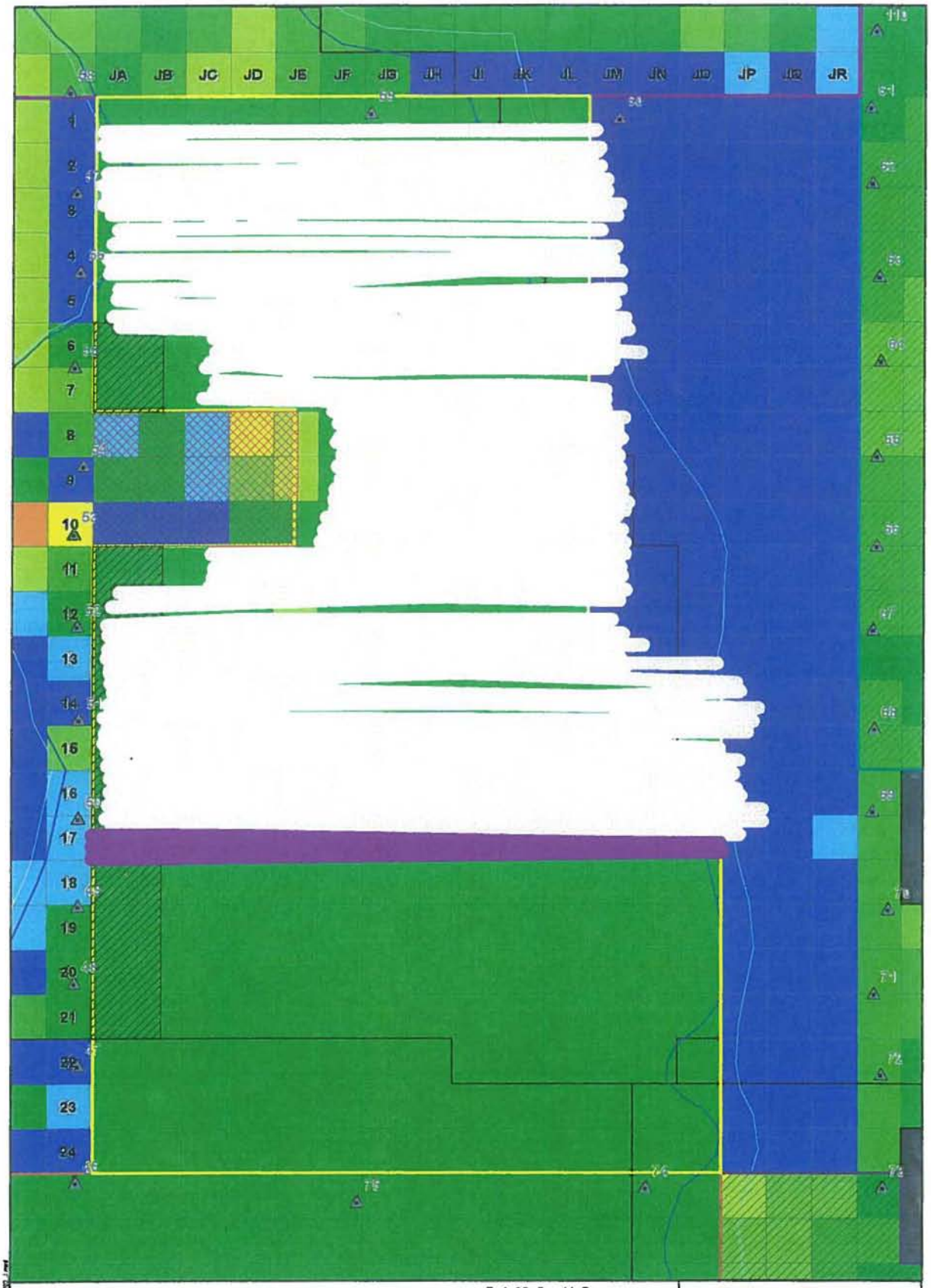
From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN34SC	GZ34SC	335	6	1.7	3417	705
JO18N	JA18N	343	6	1.5	3087	
JO18NC	JA18NC	347	6	1.5	3123	
JO18SC	JA18SC	346	6	1.5	3114	
JO18S	JA18S	355	6	1.5	3195	
JO19N	JA19N	343	6	1.5	3087	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	9,353
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	
7/6/2010	GPS Estimate	705	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA L / ZONE 4)
DATE: 7/2/10
DREDGE ENGINEER(S): Zachary Zito

	PASSES; 0 COLUMN; 0 JA17NC JA17NC	PASSES; 0 COLUMN; 0 JA17SC JA17SC	PASSES; 0 COLUMN; 0 JA17S JA17S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (7) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW SOUTH TO NORTH E. to W	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5			
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	348	349	350			

NOTES:



Legend

8 foot buffer represending area of cut for 07/02/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/02/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cotberts DATE: 07/02/2010

07/02/10-J

7/2/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
JO17NC	JA17NC	348	6	1.5	3132	316
JO17SC	JA17SC	249	6	1.5	2241	
JO17S	JA17S	350	6	1.5	3150	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	8,648
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	
7/2/2010	GPS Estimate	316	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 7/1/10
DREDGE ENGINEER(S): Marc Friedman / Zak Bito

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 GN 33S GZ 33S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN 34N GZ 34N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN 34NC GZ 34NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN 34SC GZ 34SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.5	1.5	1.5			
GO	1.5	1.5	1.5			
GP	1.5	1.6	1.6			
GQ	1.8	1.8	1.8	N/C		
GR	1.8	1.9	1.9			
GS	1.8	2.1	2.1			
GT	1.8	2.1	2.1			
GU	1.8	1.9	1.9			
GV	1.8	1.9	1.9			
GW	1.8	1.5	1.5			
GX	1.8	1.5	1.5			
GY	1.7	1.5	1.5			
GZ	1.5	1.5	1.5			
	1.7	1.7	1.7			
	325	323	320			

NOTES:

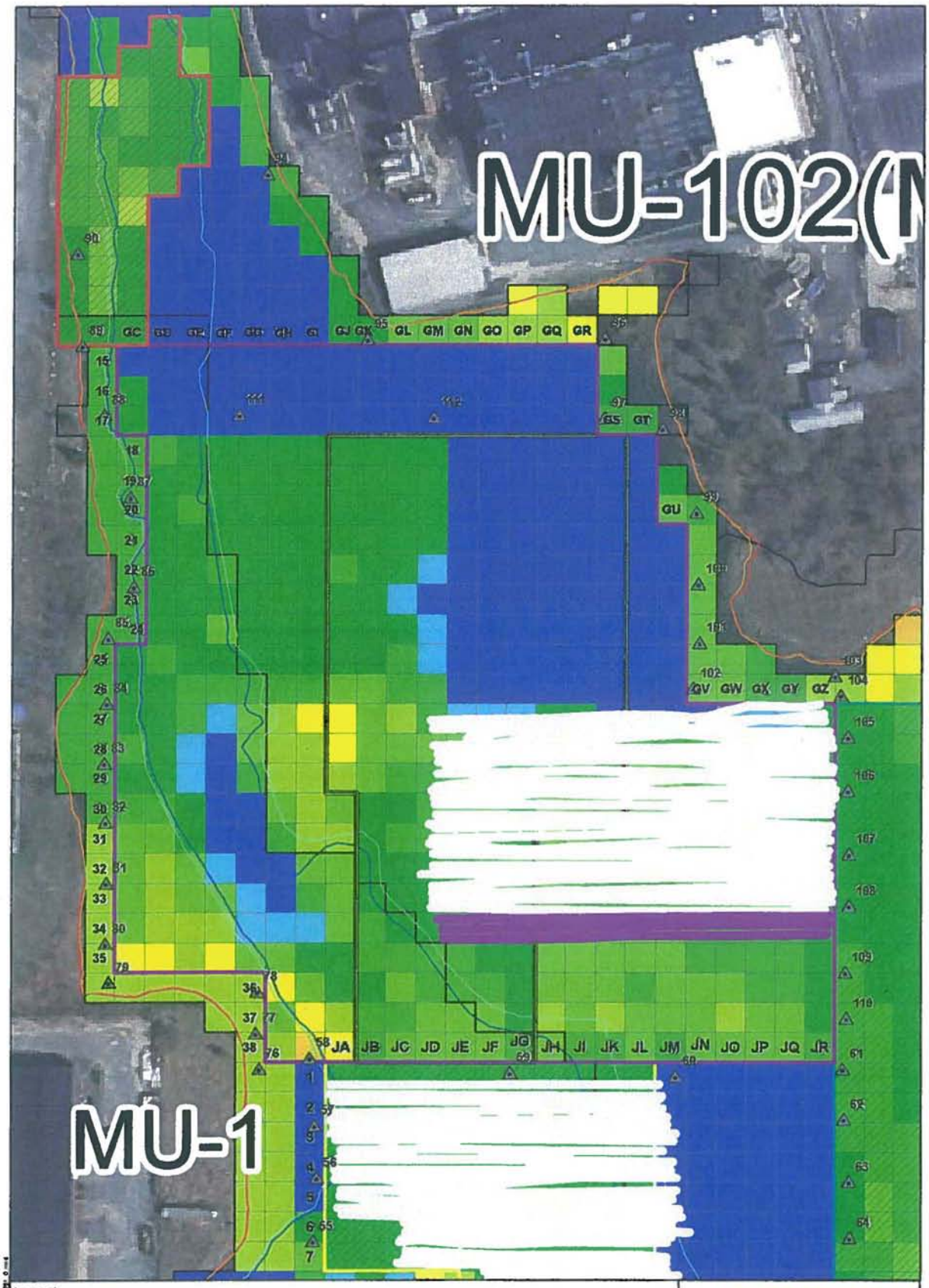
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 7/1/10
DREDGE ENGINEER(S): Marc Friedman / Zak [illegible]

ROW ~~WEST TO EAST~~ EAST TO WEST	PASSES; ~~0~~ 2 COLUMN; 0 JO16NC JA16NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO16SC JA16SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO16SC JA16SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO16S JA16S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK JO17N JA17N MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET JO17NC JA17NC
JO	1.5	1.5	1.5	1.5	1.5	
JN	1.5	1.5	1.5	1.5	1.5	
JM	1.5	1.5	1.5	1.5	1.5	
JL	1.5	1.5	1.5	1.5	1.5	
JK	1.5	1.5	1.5	1.5	1.5	N/C
JI	1.5	1.5	1.5	1.5	1.5	
JH	1.5	1.5	1.5	1.5	1.5	
JG	1.5	1.5	1.5	1.5	1.5	
JF	1.5	1.5	1.5	1.5	1.5	
JE	1.5	1.5	1.5	1.5	1.5	
JD	1.5	1.5	1.5	1.5	1.5	
JC	1.5	1.5	1.5	1.5	1.5	
JB	1.5	1.5	1.5	1.5	1.5	
JA	1.5	1.5	1.5	1.5	1.5	
	349	351	363	365	348	

NOTES:

JO ~~up thru~~ JH dredge depth (laser receiver via laserscope) was indication no material. (already was at grade prior to dredge in cut)
– 1.5-2' deeper than what allowed.

NOTE: * This has occured on previous cuts up until current 7/1/10.



Legend

8 foot buffer representing area of cut for 07/01/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

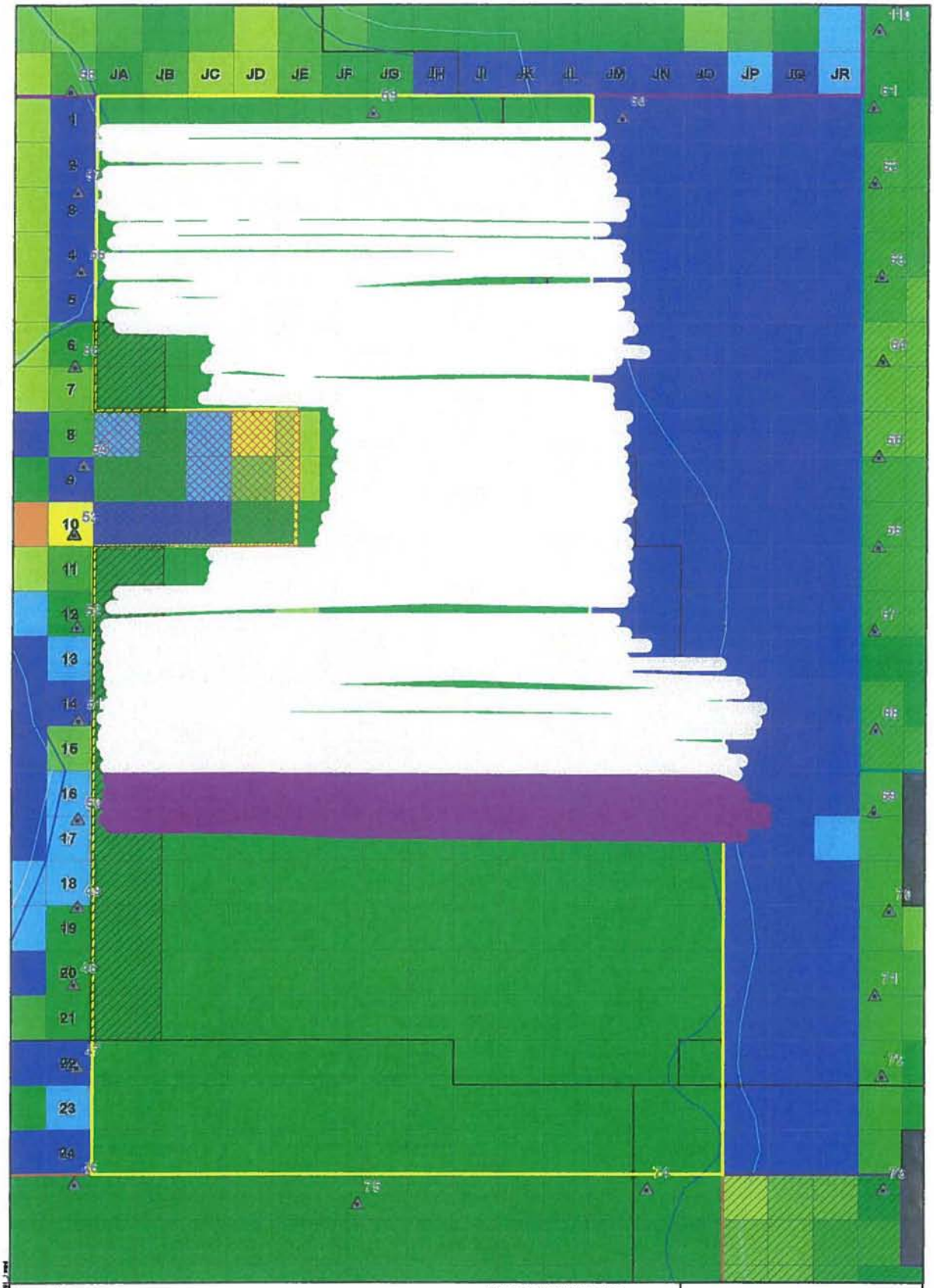
JACOBS

07/01/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeck DATE: 07/01/2010

07/01/10-G



Legend

8 foot buffer represending area of cut for 07/01/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

07/01/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cxbarts DATE: 07/01/2010

07/01/10-J

7/1/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN33S	GZ33S	325	6	1.7	3315	957
GN34N	GZ34N	323	6	1.7	3294.6	
GN34NC	GZ34NC	320	6	1.7	3264	
JO16NC	JA16NC	349	6	1.5	3141	
JO16C	JA16C	351	6	1.5	3159	
JO16SC	JA16SC	363	6	1.5	3267	
JO16S	JA16S	365	6	1.5	3285	
JO17N	JA17N	348	6	1.5	3132	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	8,332
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	
7/1/2010	GPS Estimate	957	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/30/10
DREDGE ENGINEER(S): Marc Friedman / Zak Zitz

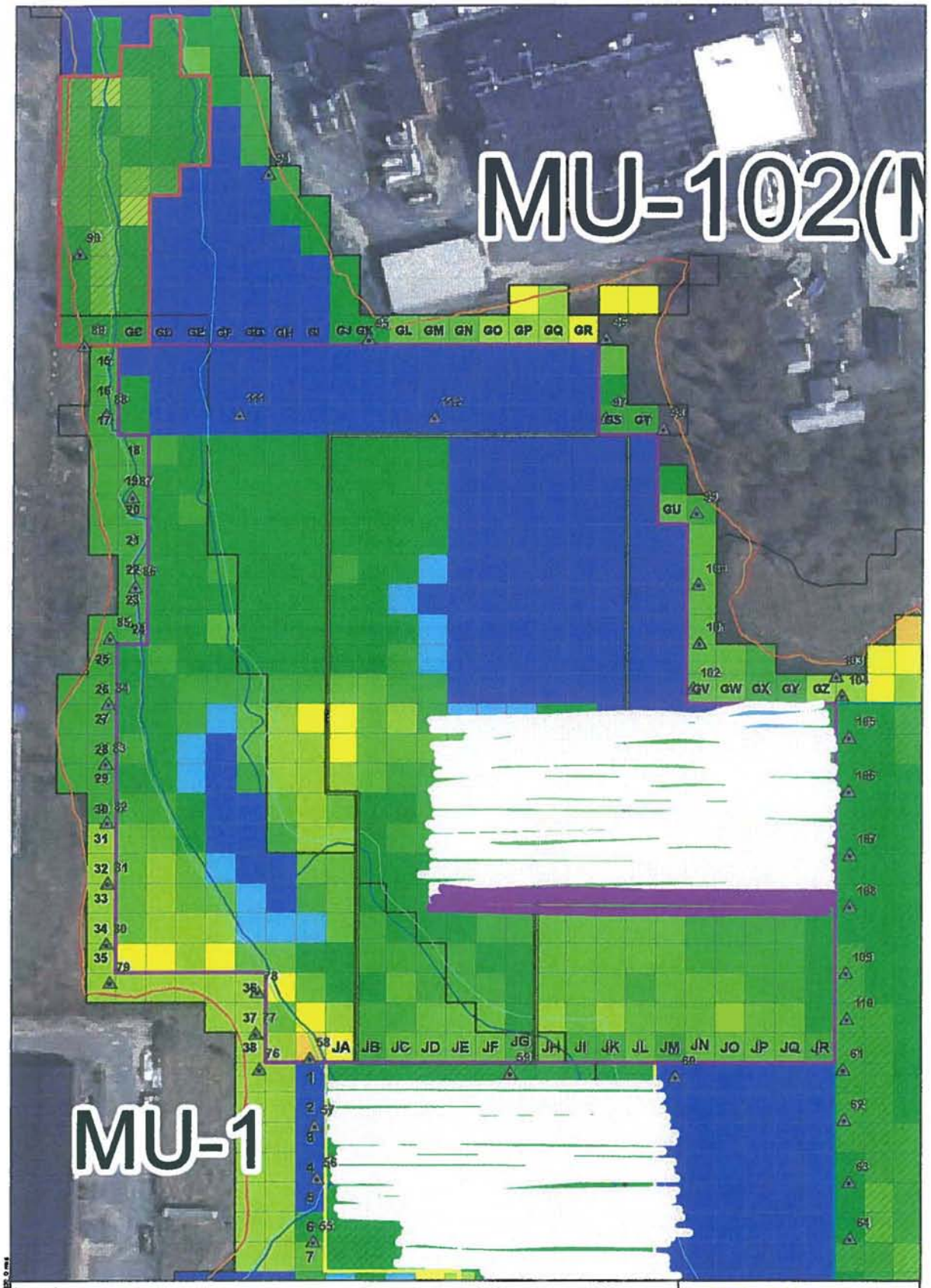
	PASSES; 0 COLUMN; 0 GN 33N GZ33N	PASSES; 0 COLUMN; 0 GN 33NC GZ33NC	PASSES; 0 COLUMN; 0 GN 33SC GZ33SC	PASSES; 0 COLUMN; 0 GN 33S GZ33S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~EAST TO WEST~~ WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.5	1.5	1.5			
GO	1.5	1.5	1.5			
GP	1.5	1.5	1.5			
GQ	1.8	1.8	1.8			
GR	1.8	1.8	1.8			
GS	1.9	1.9	1.9	N/C		
GT	1.7	1.7	1.7			
GU	1.7	1.7	1.7			
GV	1.8	1.8	1.8			
GW	1.8	1.8	1.8			
GX	1.8	1.8	1.8			
GY	1.7	1.7	1.7			
GZ	1.5	1.5	1.5			
	325	331	330			
	1.7	1.7	1.7			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 2/30/10
DREDGE ENGINEER(S): Marc Friedman / Zak Zik

ROW ~~WEST TO EAST~~ EAST TO WEST	PASSES; 0 COLUMN; 0 JO 15NC JA 15NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO15 SC JA15SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO15 S JA15 S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO 16 N JA 16 N MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK JO 16 NC JA 16 NC MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5	1.5	1.5	1.5		
JN	1.5	1.5	1.5	1.5		
JM	1.5	1.5	1.5	1.5		
JL	1.5	1.5	1.5	1.5		
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5	N/C	
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE	1.5	1.5	1.5	1.5		
JD	1.5	1.5	1.5	1.5		
JC	1.5	1.5	1.5	1.5		
JB	1.5	1.5	1.5	1.5		
JA	1.5	1.5	1.5	1.5		
	342	353	348	357		

NOTES:



Legend

8 foot buffer representing area of cut for 06/30/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.8 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

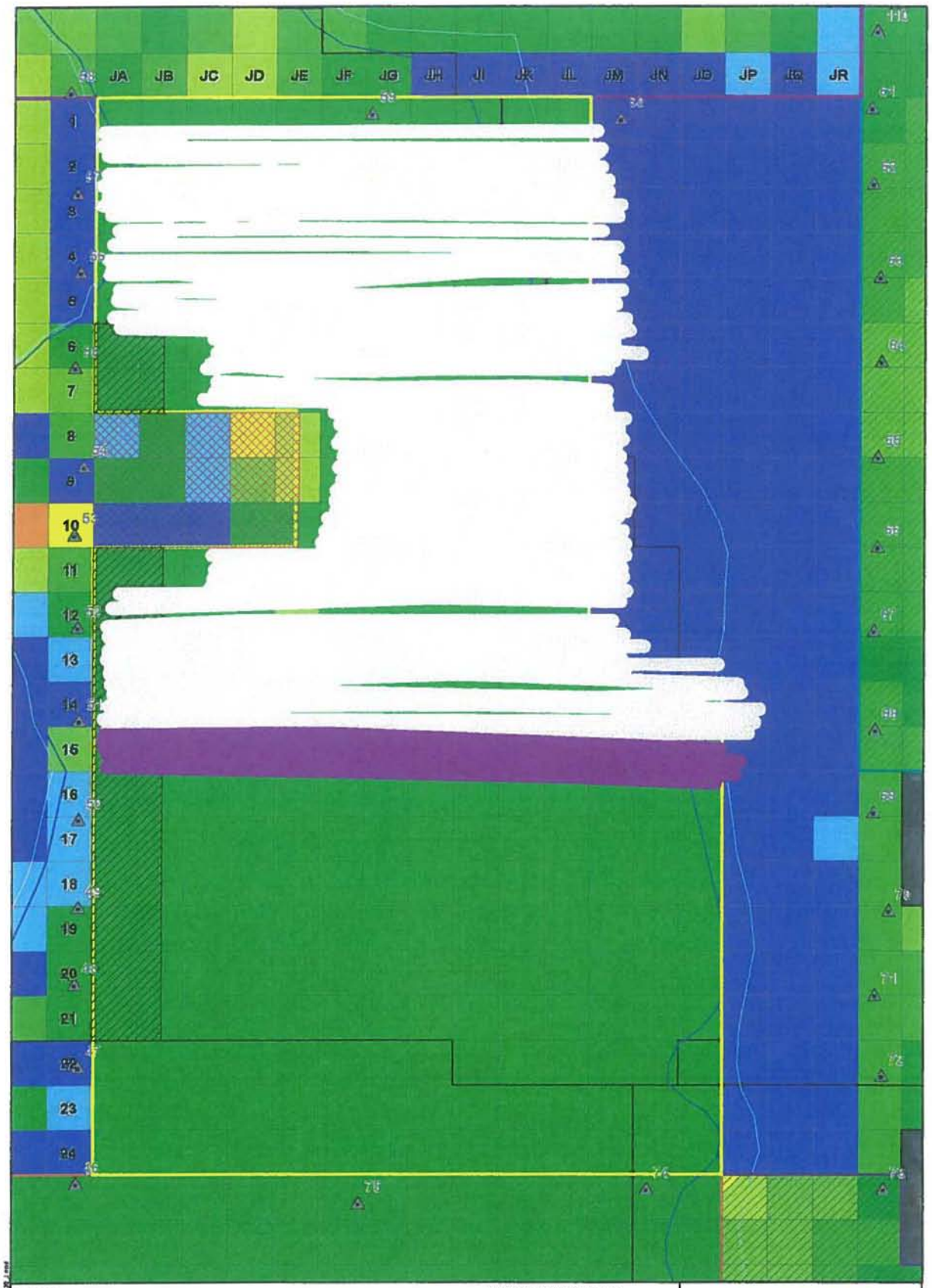
JACOBS

06/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 09/30/2010

06/30/10-G



Legend

8 foot buffer represending area of cut for 06/30/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/30/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cotberts DATE: 06/30/2010

06/30/10-J

6/30/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN33N	GZ33N	325	6	1.7	3315	832
GN33NC	GZ33NC	331	6	1.7	3376.2	
GN33SC	GZ33SC	330	6	1.7	3366	
JO15NC	JA15NC	342	6	1.5	3078	
JO15SC	JA15SC	353	6	1.5	3177	
JO15S	JA15S	348	6	1.5	3132	
JO15N	JA15N	337	6	1.5	3033	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	7,375
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	
6/30/2010	GPS Estimate	832	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/29/10
DREDGE ENGINEER(S): Marc Friedman / Zak [illegible]

ROW EAST TO WEST	PASSES; 0 COLUMN; 0 GN 32SC GZ 32SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN32S GZ32S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN33N GN33N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.5	1.5	1.5			
GO	1.5	1.5	1.5			
GP	1.5	1.5	1.5			
GQ	1.8	1.8	1.8			
GR	1.8	1.8	1.8			
GS	1.5	1.5	1.5			
GT	1.5	1.5	1.5			
GU	1.5	1.5	1.5			
GV	1.6	1.6	1.6			
GW	1.5	1.5	1.5			
GX	1.5	1.5	1.5			
GY	1.5	1.5	1.5			
GZ	1.5	1.5	1.5			
	1.6	1.6	1.6			
	331	332	333			

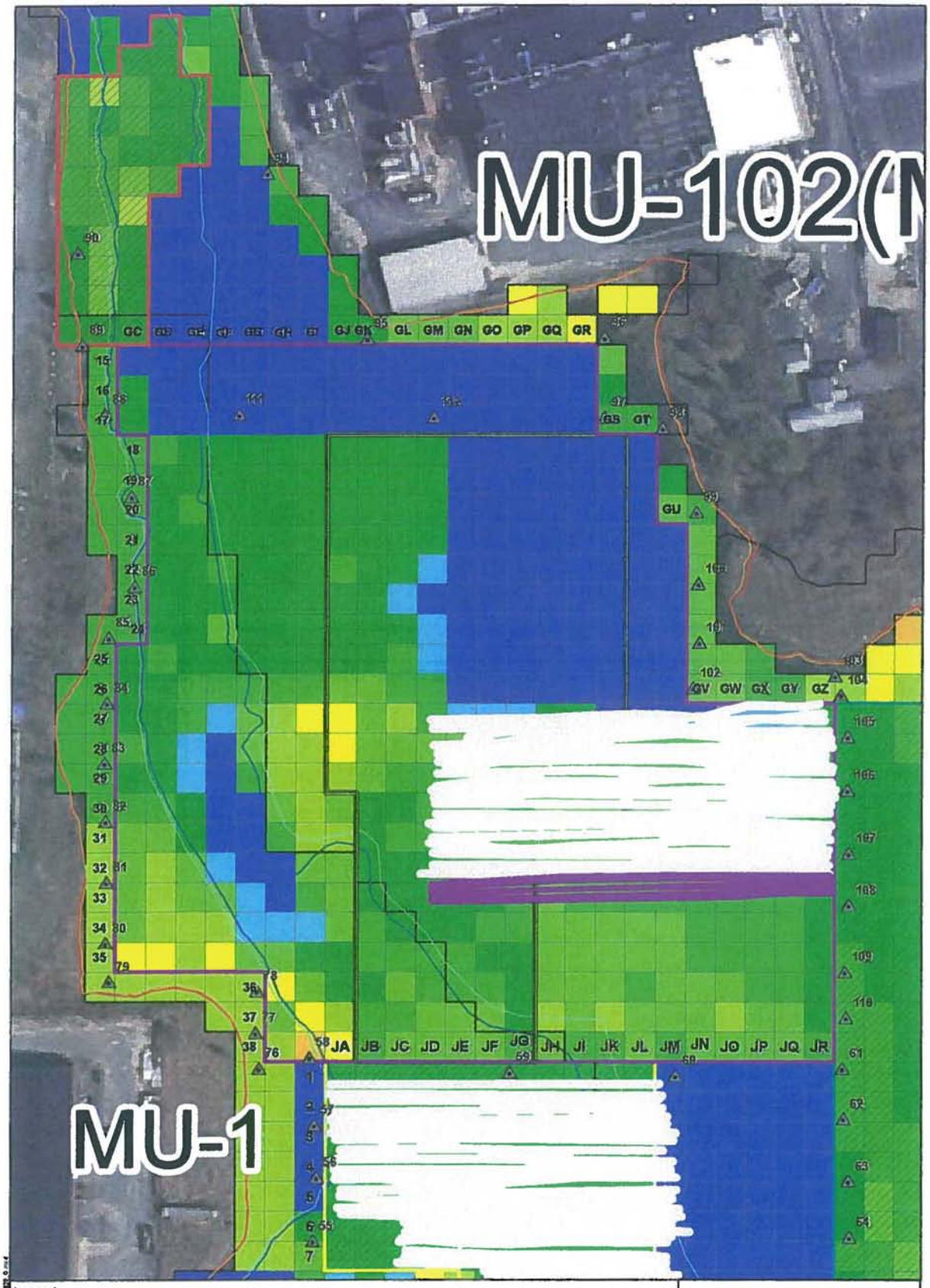
NOTES:

Starting 6/30/10 – GN 33NC – GZ 33NC

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/29/10
DREDGE ENGINEER(S): Zack / Zito / Marc Rutkelm

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 JO14SC JA 14SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO_14S JA 14S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO15N JA15N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JO 15NC JA 15NC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JO	1.5	1.5	1.5			
JN	1.5	1.5	1.5			
JM	1.5	1.5	1.5			
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5	N/C		
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5			
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA	1.5	1.5	1.5			
	361	361	356			

NOTES:



Legend

- 8 foot buffer representing area of cut for 06/29/10
- 8 foot buffer representing area of cut from previous 2010 dredging activities
- Previously Dredged Areas
- Dredge Area M
- Dredge Area G
- Dredge Area J
- 2010Sheet Pile Locations

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

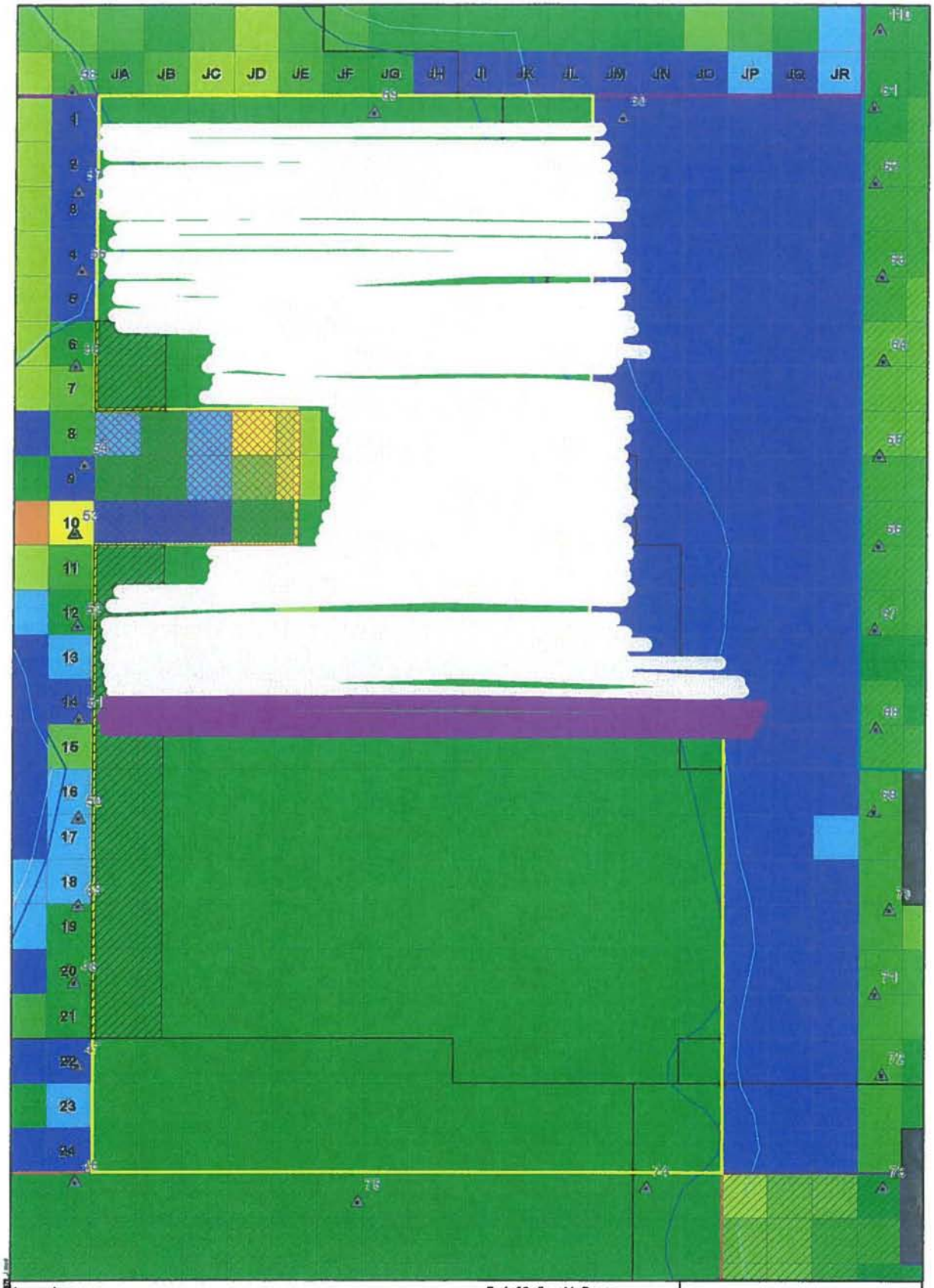
JACOBS

06/29/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobers DATE: 06/29/2010

06/29/10-G



Legend

8 foot buffer represending area of cut for 06/29/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/29/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: roberts DATE: 06/29/2010

06/29/10-J

6/29/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN32SC	GZ32SC	331	6	1.6	3177.6	713
GN32S	GZ32S	332	6	1.6	3187.2	
GN33N	GZ33N	333	6	1.6	3196.8	
JO14SC	JA14SC	361	6	1.5	3249	
JO14S	JA14S	361	6	1.5	3249	
JO15N	JA15N	356	6	1.5	3204	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/10-6/25/10	Bathy Survey 06/26/10	5,109	6,543
6/28/2010	GPS Estimate	721	
6/29/2010	GPS Estimate	713	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/28/10
DREDGE ENGINEER(S): Mike Taibi / Zachary Zito

	PASSES; 2 COLUMN; 0 GN32 NC GZ32NC	PASSES; 2 COLUMN; 0 GN32SC GZ32SC	PASSES; 0 COLUMN; 0 GN32S GZ32S	PASSES; 0 COLUMN; 0 GN33N GZ33N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW ~~FA~~ WEST - EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.5	1.5	1.5			
GO	1.7	1.7	1.7			
GP	1.7	1.7	1.7			
GQ	2.0	2.0	2.0			
GR	2.0	2.0	2.0			
GS	1.9	1.9	1.9	N/C		
GT	1.7	1.7	1.7	Z		
GU	1.5	1.5	1.5			
GV	1.8	1.8	1.8			
GW	1.8	1.8	1.8			
GX	1.6	1.6	1.6			
GY	1.5	1.5	1.5			
GZ	1.5	1.5	1.5			

NOTES:

* Refer to dredge zone chart

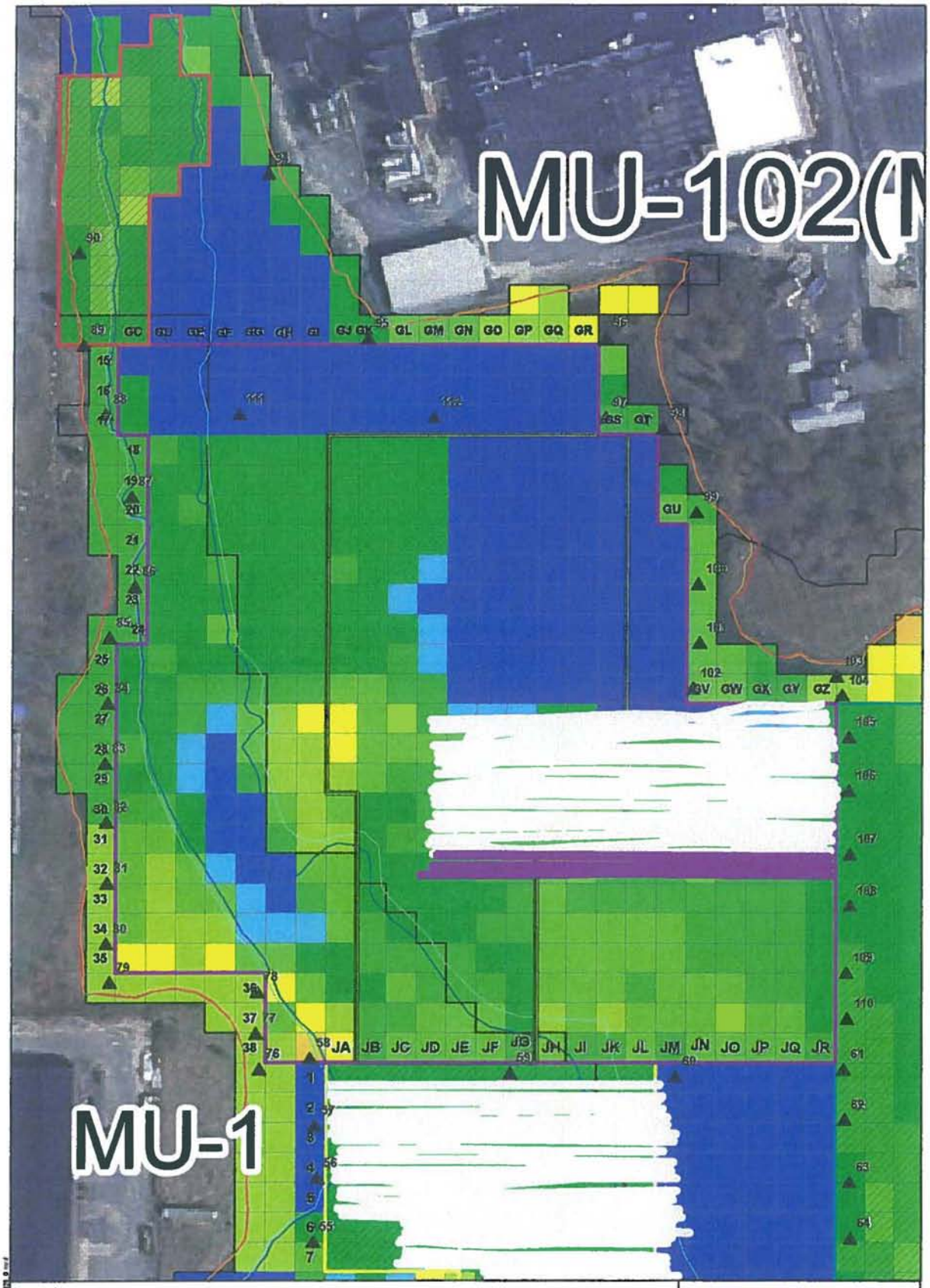
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/28/10
DREDGE ENGINEER(S): Mike Tabi / Zachary Zito

		PASSES; ~~0~~ 2 COLUMN; 0 J014N JA14N	PASSES; ~~0~~ 2 COLUMN; 0 J014NC JA14NC	PASSES; ~~0~~ 2 COLUMN; 0 J014SC JA14SC	PASSES; 0 COLUMN; 0 J014S JA14S	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
	ROW East-West	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
1	JO	1.5	1.5	1.5			
2	JN	1.5	1.5	1.5			
3	JM	1.5	1.5	1.5			
4	JL	1.5	1.5	1.5			
5	JK	1.5	1.5	1.5	N/C		
6	JI	1.5	1.5	1.5	Z		
	JH	1.5	1.5	1.5			
8	JG	1.5	1.5	1.5			
9	JF	1.5	1.5	1.5			
10	JE	1.5	1.5	1.5			
11	JD	1.5	1.5	1.5			
12	JC	1.5	1.5	1.5			
13	JB	1.5	1.5	1.5			
14	JA	1.5	1.5	1.5			

NOTES:

Refer to dredge zone chart.

* starting w/ cut row #14 dredge will be moved to add an additional 3 z-block, ∴ 75 feet.



Legend

8 foot buffer representing area of cut for 06/28/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6 - 3.0

3.1 - 3.5

3.6 - 4.0

4.1 - 4.5

4.6 - 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

Aerial Photography MASSGIS 2003

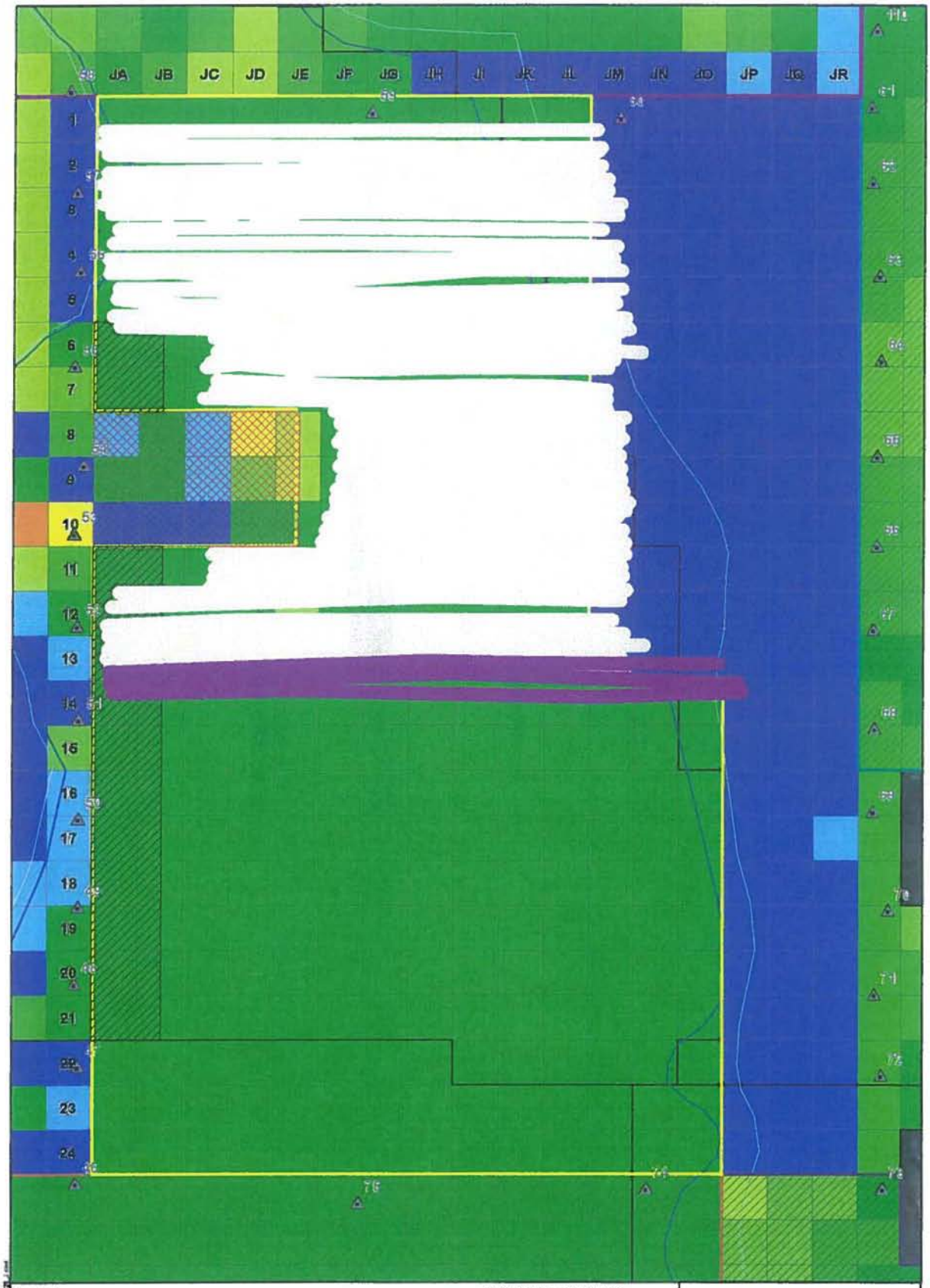
JACOBS

06/28/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 06/28/2010

06/28/10-G



Legend

8 foot buffer represending area of cut for 06/28/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

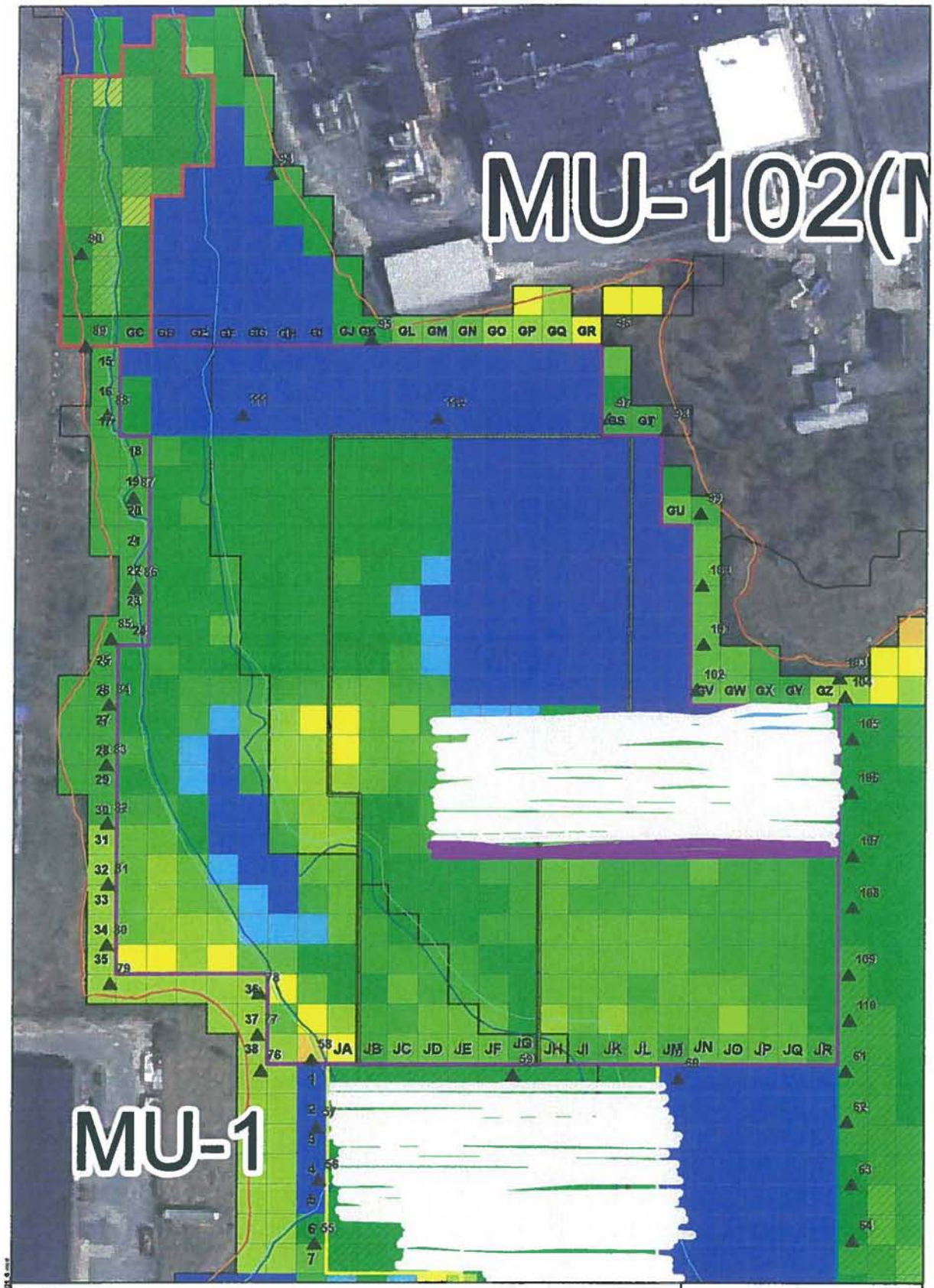
JACOBS

06/28/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cmberts DATE: 06/28/2010

06/28/10-J



Legend

8 foot buffer represending area of cut for 06/25/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.8 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

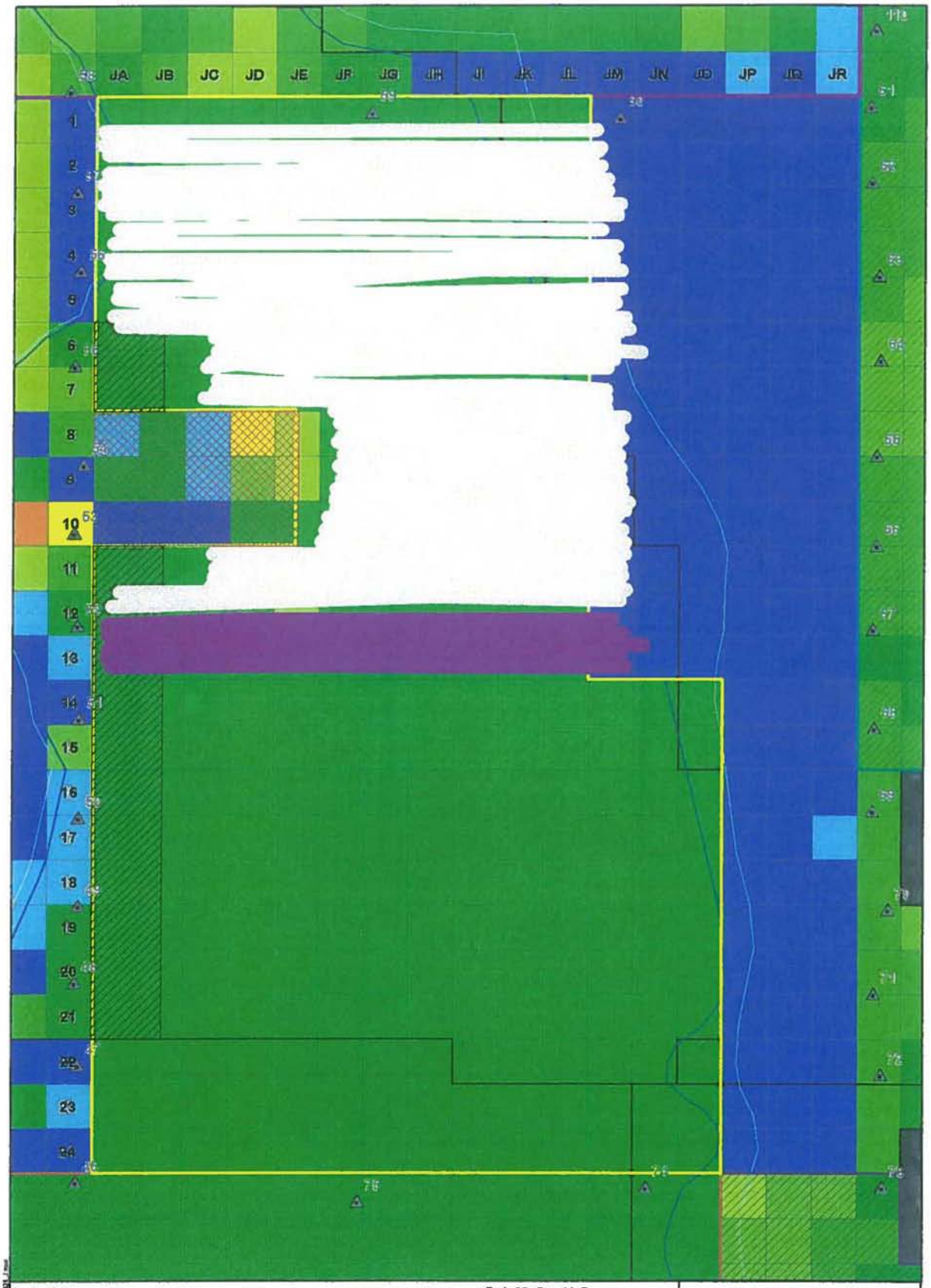
JACOBS

06/25/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 08/29/2010

06/25/10-G



Legend

8 foot buffer representing area of cut for 06/25/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/25/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cruberts DATE: 06/25/2010

06/25/10-J

6/25/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN31SC	GZ31SC	329	6	1.7	3355.8	727
GN31S	GZ31S	330	6	1.7	3366	
JL12SC	JA12SC	280	6	1.5	2520	
JL12S	JA12S	286	6	1.5	2574	
JL13N	JA13N	297	6	1.5	2673	
JL13NC	JA13NC	285	6	1.5	2565	
JL13SC	JA13SC	286	6	1.5	2574	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	6,094
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	
6/21/2010	GPS Estimate	612	
6/22/2010	GPS Estimate	725	
6/23/2010	GPS Estimate	719	
6/24/2010	GPS Estimate	561	
6/25/2010	GPS Estimate	727	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/25/10
DREDGE ENGINEER(S): Mike Tabb. / Zachary Ft

ROW EAST TO WEST	PASSES; 0 COLUMN; 0 GN31SC GZ31SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN31S GZ31S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN32N GZ32N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.7	1.7				
GO	1.7	1.7				
GP	1.5	1.5				
GQ	1.9	1.9				
GR	2.0	2.0	N/C			
GS	1.9	1.9				
GT	1.7	1.7				
GU	1.7	1.7				
GV	1.6	1.6				
GW	1.5	1.5				
GX	1.5	1.5				
GY	1.5	1.5				
GZ	1.5	1.5				
	1.7	1.7				
	329	330				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/25/10
DREDGE ENGINEER(S): Mike Tank. / Zachary Zeto.

	PASSES; 0 COLUMN; 0 JL 12SC JA 12SC	PASSES; 0 COLUMN; 0 JL 12S JA 12S	PASSES; 0 COLUMN; 0 JL 13N JA 13N	PASSES; 0 COLUMN; 0 JL 13NC JA 13NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5	1.5	1.5		
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5		
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE			1.5	1.5		
JD	1.5	1.5	1.5	1.5		
JC	1.5	1.5	1.5	1.5		
JB	1.5	1.5	1.5	1.5		
JA	1.5	1.5	1.5	1.5		
	280					
		286	297	285		

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/25/10
DREDGE ENGINEER(S): Mike Tarbi / [illegible]

	PASSES; 0 COLUMN; 0 JL 13 SC JA 13 SC	PASSES; 0 COLUMN; 0 JL 13 S JA 13 S	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5					
JK	1.5					
JI	1.5					
JH	1.5					
JG	1.5	N/C				
JF	1.5					
JE	1.5					
JD	1.5					
JC	1.5					
JB	1.5					
JA	1.5					
	28					

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)

DATE: 6/24/10

DREDGE ENGINEER(S): Mike Tab / Zachary Zite

1:10pm

ROW EAST TO WEST	PASSES; 0 COLUMN; 0 GN30S GZ30S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN31N GZ31N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN31NC GZ31NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 GN31SC GZ31SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA. CUT IN FEET
GN	1.7	1.7	1.7			
GO	1.3	1.3	1.3			
GP	1.4	1.4	1.4			
GQ	2.1	2.1	2.1			
GR	2.1	2.1	2.1			
GS	1.9	1.9	1.9	N/C		
GT	1.9	1.9	1.9			
GU	1.6	1.6	1.6			
GV	1.6	1.6	1.6			
GW	1.5	1.5	1.5			
GX	1.5	1.5	1.5			
GY	1.5	1.5	1.5			
GZ	1.5	1.5	1.5			
	1.7	1.7	1.7			
	336	327	333			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/24/10
DREDGE ENGINEER(S): Mike Tarbi / Zachary Zito

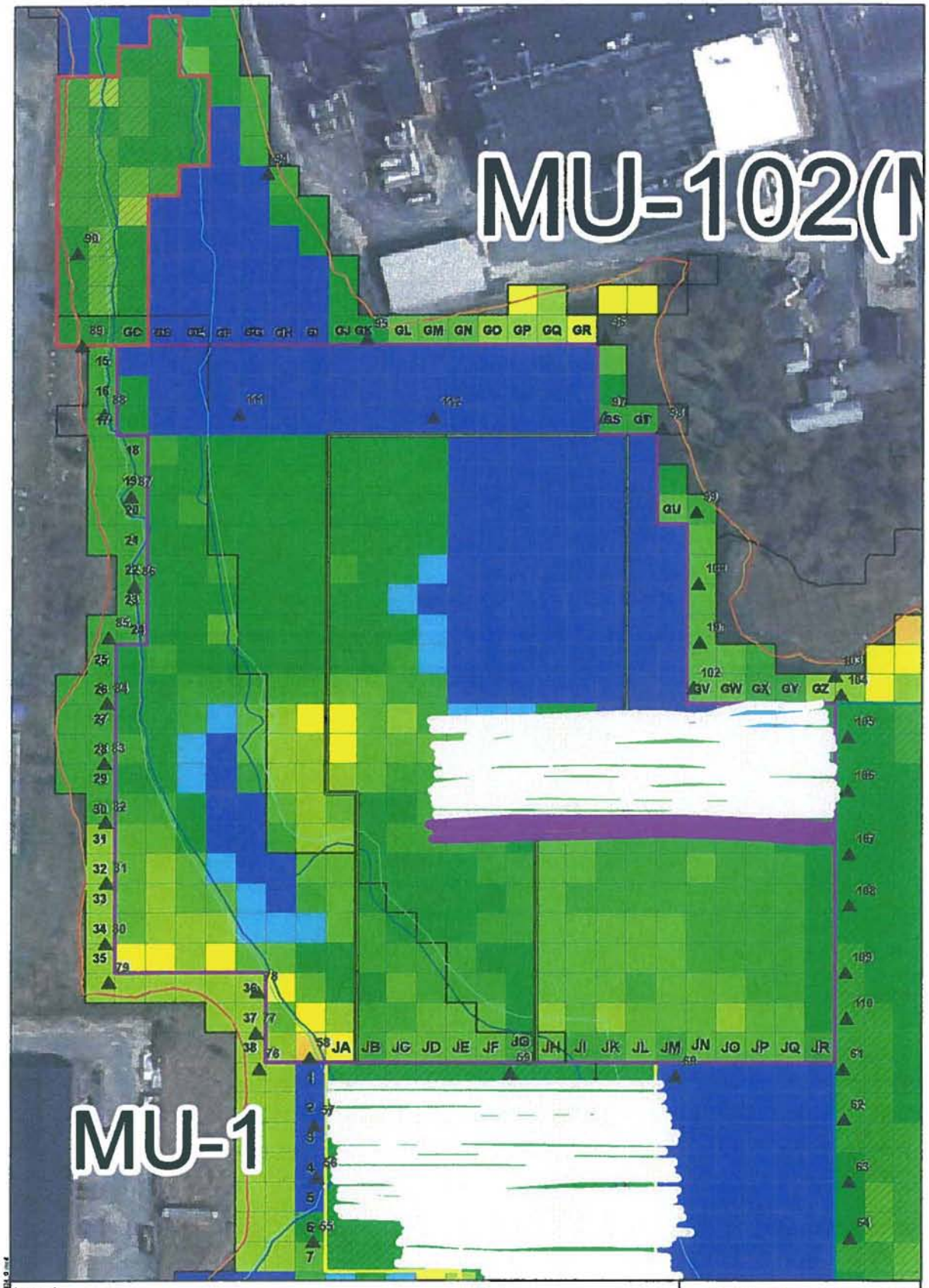
	PASSES; 0 COLUMN; 0 ✓ JL 12 N	PASSES; 0 COLUMN; 0 ✓ JL NC	PASSES; 0 COLUMN; 0 JL 9 C	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5				
JK	1.5	1.5				
JI	1.5	1.5				
JH	1.5	1.5				
JG	1.5	1.5	N/C			
JF	1.5	1.5				
JE	1.5	1.5				
JD	1.5	1.5				
JC	1.5	1.5				
JB	1.5	1.5				
JA	1.5	1.5				
	1.5	1.5				
	271	282				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA L / ZONE 4)
DATE: 6/24/10
DREDGE ENGINEER(S): Mike Taib. / Zachary Zite

	PASSES; 0 COLUMN; 0 LR 1 N LCC 1 N	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW SOUTH TO NORTH	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
LR						
LS						
LT						
LU						
LV	Not					
LW	Complete					
LX						
LY						
LZ						
LAA						
LBB						
LCC						

NOTES:



Legend

8 foot buffer represending area of cut for 08/24/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

Aerial Photography MASSGIS 2003

JACOBS™

06/24/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 06/24/2010

06/24/10-G

Legend

8 foot buffer represending area of cut for 06/24/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

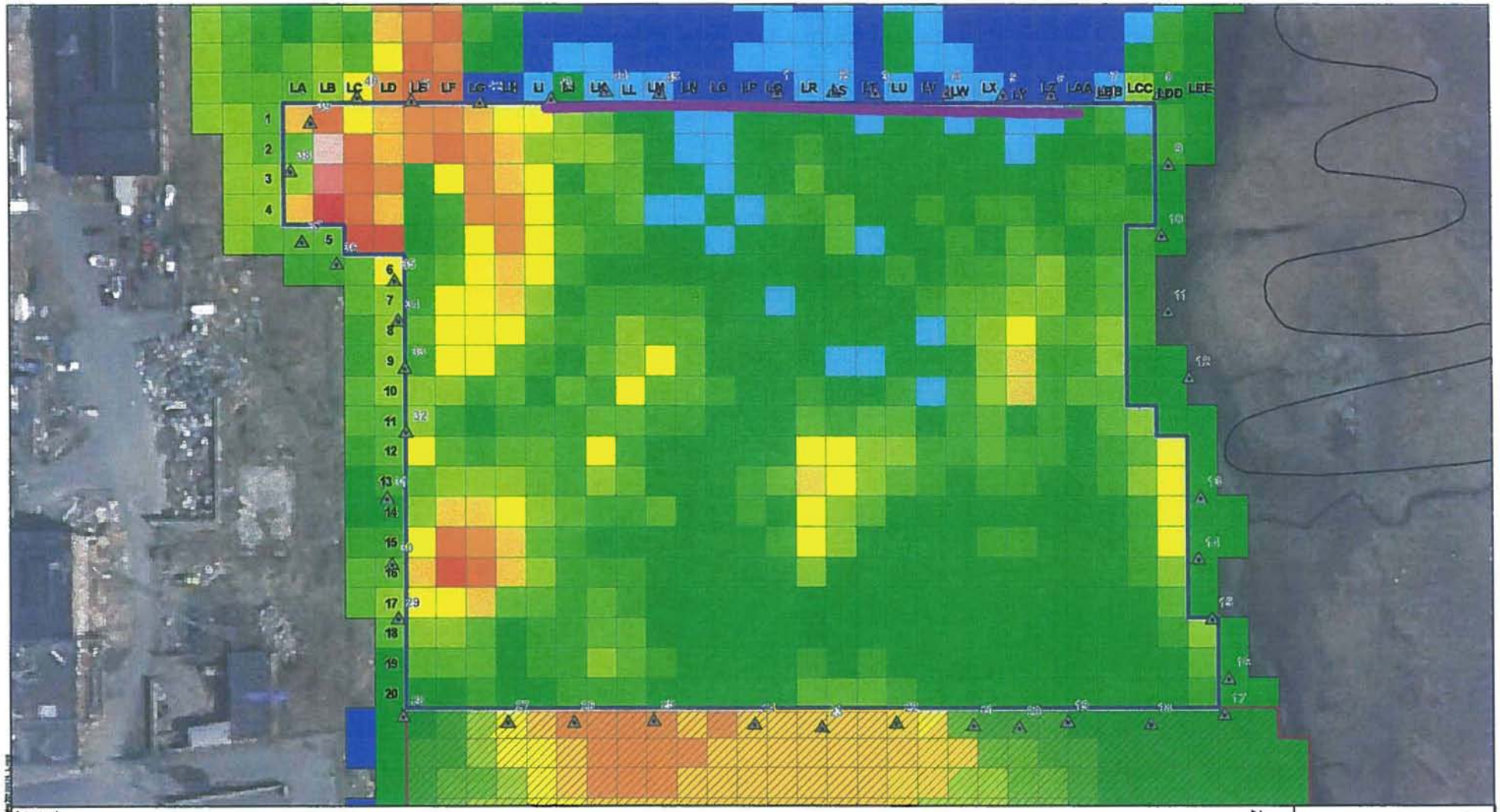
JACOBS

06/24/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cobarte DATE: 06/24/2010

06/24/10-J



Legend

ZBlocks

0.0	3.0 - 3.5
0.0 - 0.5	3.5 - 4.0
0.5 - 1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	5.5 - 6.0
2.5 - 3.0	6.0 - 6.2

2010 Dredge Area L

2010 Dredge Area P

Sheet Pile Locations

8 foot buffer representing area of cut for 06/24/10

8 foot buffer representing area of cut from previous 2010 dredging activities

MLLW

MLW

MHW

MHHW

N

0 37.5 75

Feet 1:900

JACOBS

06/24/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

DATE: 06/24/2010

06/24/10-L

6/24/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN30S	GZ30S	336	6	1.7	3427.2	561
GN31N	GZ31N	327	6	1.7	3335.4	
GN31NC	GZ31NC	333	6	1.7	3396.6	
JL12N	JA12N	271	6	1.5	2439	
JL12NC	JA12NC	282	6	1.5	2538	
LR1N	LCC1N					

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	5,367
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	
6/21/2010	GPS Estimate	612	
6/22/2010	GPS Estimate	725	
6/23/2010	GPS Estimate	719	
6/24/2010	GPS Estimate	561	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/23/10
DREDGE ENGINEER(S): Mike Tarbi / Zachary Ritz

	PASSES; 0 COLUMN; 0 ✓ GN 30NC GZ 30NC	PASSES; 0 COLUMN; 0 ✓ GN30SC GN 30SC	PASSES; 0 COLUMN; 0 GN30S GN30S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.8	1.8				
GO	1.7	1.7				
GP	1.5	1.5				
GQ	2.1	2.1				
GR	2.0	2.0	Not			
GS	1.9	1.9	Complete			
GT	1.9	1.9				
GU	1.8	1.8				
GV	1.5	1.5				
GW	1.5	1.5				
GX	1.5	1.5				
GY	1.5	1.5				
GZ	1.5	1.5				
	1.7	1.7				
	331	328				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/23/10
DREDGE ENGINEER(S): Mike Tarbi / Zachary Zito

	PASSES; 0 COLUMN; 0 JL10C	PASSES; 0 COLUMN; 0 JL10SC	PASSES; 0 COLUMN; 0 JL10S	PASSES; 0 COLUMN; 0 JL11N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5	1.5	1.5		
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5		
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE	N/A	N/A	N/A	1.5		
JD				1.5		
JC	NO	DREDGE	ZONE	1.5		
JB				N/A		
JA						
	1.5	1.5	1.5	1.5		
	162	165	169	229		

NOTES:

- Refer to dredge zone #3 chart.

Dredge zone path

* JL10C, SC & S through JF10C, SC & S
  - due to high V.O.C.'s we are not dredging JE, JD, JC, JB, JA

* JL11N - until the end we will be dredging all Z-blocks except JB & JA.
  - high V.O.C.'s

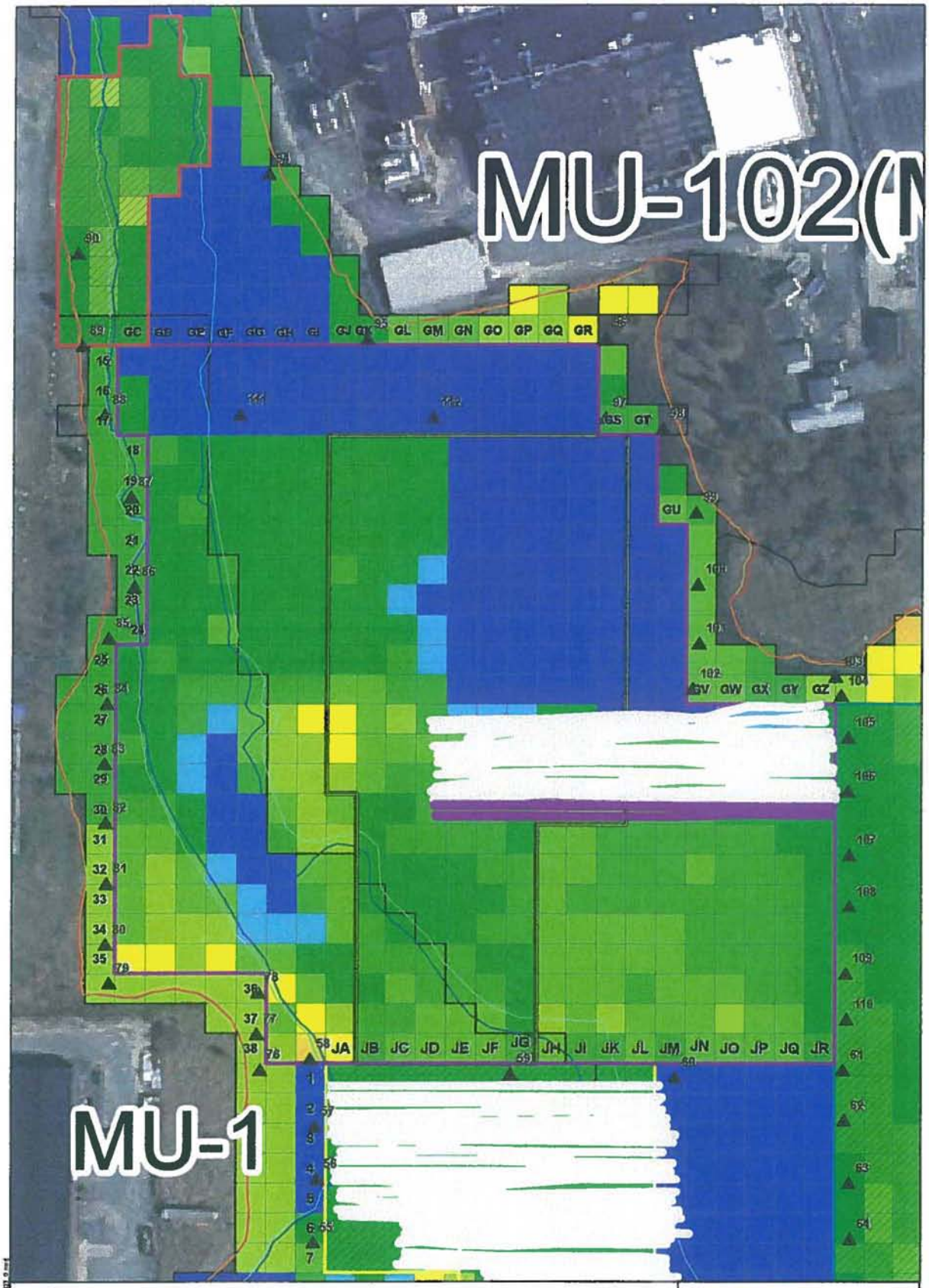
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/23/10
DREDGE ENGINEER(S): Mike Taib. / Zachary Z. Z

	PASSES; 0 COLUMN; 0 ✓ JL11 NC	PASSES; 0 COLUMN; 0 ✓ JL11SC	PASSES; 0 COLUMN; 0 ✓ JL11S	PASSES; 0 COLUMN; 0 JL12 N	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5			
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5	Not		
JG	1.5	1.5	1.5	Complete		
JF	1.5	1.5	1.5			
JE	1.5	1.5	1.5			
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	N/A	N/A	N/A			
JA	↓	↓	↓			
	1.5	1.5	1.5			
	226	227	231			

NOTES:

* Refer to dredge zone 3 chart for further clarification
  - due to the high V.O.C.'s, no dredging will occur in (JB, JA.)

* Dredge zone paths



Legend

8 foot buffer represending area of cut for 08/23/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeda DATE: 08/23/2010

06/23/10-G

Legend

8 foot buffer represending area of cut for 06/23/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/23/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cstberts DATE: 06/23/2010

06/23/10-J

6/23/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN30NC	GZ30NC	331	6	1.7	3376.2	719
GN30SC	GZ30SC	328	6	1.7	3345.6	
JF10C	JL10C	162	6	1.5	1458	
JF10SC	JL10SC	165	6	1.5	1485	
JF10S	JL10S	169	6	1.5	1521	
JC11N	JL11N	229	6	1.5	2061	
JC11NC	JL11NC	226	6	1.5	2034	
JC11SC	JL11SC	227	6	1.5	2043	
JC11S	JL11S	231	6	1.5	2079	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	4,806
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	
6/21/2010	GPS Estimate	612	
6/22/2010	GPS Estimate	725	
6/23/2010	GPS Estimate	719	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/22/10
DREDGE ENGINEER(S): Mike Taib. / Zachary Zito

	PASSES; 0 COLUMN; 0 GN 29SC GZ 29SC	PASSES; 0 COLUMN; 0 GN29S GZ29S	PASSES; 0 COLUMN; 0 GN 30N GZ 30N	PASSES; 0 COLUMN; 0 GN 30NC GZ 30NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.6	1.6	1.8			
GO	1.5	1.5	1.7			
GP	1.5	1.5	1.5			
GQ	1.7	1.7	2.1			
GR	1.8	1.8	2.0			
GS	1.5	1.5	1.9	Not Complete		
GT	2.0	2.0	1.9			
GU	2.0	2.0	1.8			
GV	1.4	1.4	1.5			
GW	1.5	1.5	1.5			
GX	1.5	1.5	1.5			
GY	1.5	1.5	1.5			
GZ	1.5	1.5	1.5			
	1.6	1.6	1.6			
	331	338	335			

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/22/10
DREDGE ENGINEER(S): Mike Tarb. / Zachary Zito

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 JL 8 S JF 8 S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL 9N JF 9N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL 9 NC JF 9NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL 9SC JF 9SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JL	1.5	1.5	1.5	1.5		
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5		
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE	N/A	N/A	N/A	N/A		
JD	N/A	N/A	N/A	N/A		
JC	↓	↓	NO DREDGE ZONE	↓		
JB						
JA	↓	↓	↓	↓		
	1.5	1.5	1.5	1.5		
	155	154	157	155		

NOTES:

— JL 8 N, NC, SC & S through JF 8 N, NC, SC & S ½ through cut
— JL 9 N, NC, SC & S through JF 9 N, NC, SC & S ½ through cut
— JL 10 N, NC, SC & S through JF 10 N, NC, SC, & S ½ through cut

for further clarif. refer to dredge zone #3 chart

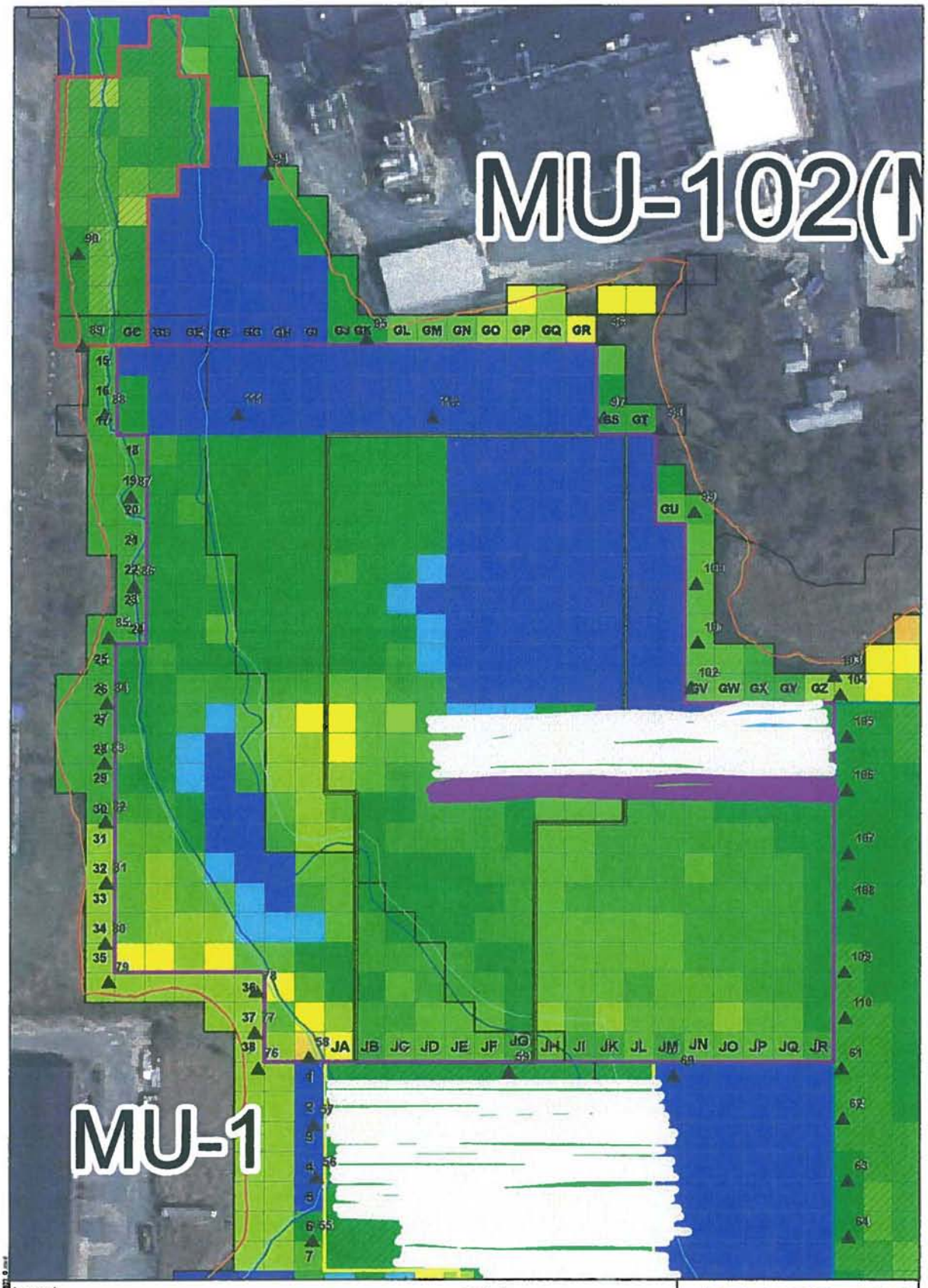
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/22/10
DREDGE ENGINEER(S): Mike Tarbi / Zachary Zito

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 JL9S JF9S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL10N JF10N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL10NC JF10NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL10SC JF10SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JL	1.5	1.5	1.5			
JK	1.5	1.5	1.5			
JI	1.5	1.5	1.5			
JH	1.5	1.5	1.5	Not Complete		
JG	1.5	1.5	1.5			
JF	1.5	1.5	1.5			
JE						
JD	N/A	N/A	N/A			
JC		NO DREDGE ZONE				
JB						
JA						
	1.5	1.5	1.5			
	159	143	161			

NOTES:

JL 8 N, NC, SC & S → through → JF 8 N, NC, SC & S (½ through cut)
JL 9 N, NC, SC & S → through → JF 9 N, NC, SC & S (½ through cut)
JL 10 N, NC, SC & S → through → JF 10 N, NC, SC & S (½ through cut)

for further clarification refer to dredge zone #3 chart.



Legend

8 foot buffer representing area of cut for 06/22/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.6- 5.0
5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/22/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobets DATE: 06/22/2010

06/22/10-G

Legend

8 foot buffer represending area of cut for 06/22/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/22/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cotterts DATE: 06/22/2010

06/22/10-J

6/22/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN29SC	GZ29SC	331	6	1.6	3177.6	725
GN29S	GZ29S	338	6	1.6	3244.8	
GN30N	GZ30N	335	6	1.6	3216	
JL9S	JF9S	155	6	1.5	1395	
JL10N	JF10N	154	6	1.5	1386	
JL10NC	JF10NC	157	6	1.5	1413	
JL8S	JF8S	155	6	1.5	1395	
JL9N	JF9N	159	6	1.5	1431	
JL9NC	JF9NC	163	6	1.5	1467	
JL9SC	JF9SC	161	6	1.5	1449	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	4,087
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	
6/21/2010	GPS Estimate	612	
6/22/2010	GPS Estimate	725	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/21/10
DREDGE ENGINEER(S): Mike Tarb. / Zachary Z. Zio

	PASSES: 0 COLUMN; 0 GN29N GZ29N	PASSES; 0 COLUMN; 0 GN29NC	PASSES; 0 COLUMN; 0 GN29SC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.5	1.5				
GO	1.6	1.6				
GP	1.5	1.5				
GQ	1.7	1.7				
GR	1.7	1.7	Not complete			
GS	1.5	1.5				
GT	2.0	2.0				
GU	2.0	2.0	1 more pass needed			
GV	1.8	1.8				
GW	1.5	1.5				
GX	1.5	1.5				
GY	1.5	1.5				
GZ	1.5	1.5				
	1.6	1.6				
	331	330				

NOTES:

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/21/10
DREDGE ENGINEER(S): Mike Taibi / Zachary Zito

ROW WEST TO EAST	PASSES: 0 COLUMN: 0 JL 7NC JB 7NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN: 0 JL 7SC JB 7SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN: 0 JL 7S JB 7S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN: 0 JL 8N JB 8N MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JL	1.5	1.5	1.5	1.5		
JK	1.5	1.5	1.5	1.5		
JI	1.5	1.5	1.5	1.5		
JH	1.5	1.5	1.5	1.5		
JG	1.5	1.5	1.5	1.5		
JF	1.5	1.5	1.5	1.5		
JE	1.5	1.5	1.5	1.5		
JD	1.5	1.5	1.5			
JC	1.5	1.5	1.5			
JB	1.5	1.5	1.5			
JA						
	1.5	1.5	1.5	1.5		
	217	218	224	156		

NOTES:

Important Note: Begining in JL6N - JA6N we were told to only dredge until JB6N

JL6N – half through JB6N - NC, SC, & S

JL7N – half through JB7N - NC, SC & S

JL8N – JB8N - NC, SC & S

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/21/10
DREDGE ENGINEER(S): Mike Taib. / Zachary Zito

	PASSES; 0 COLUMN; 0 JL8NC	PASSES; 0 COLUMN; 0 JL8SC	PASSES; 0 COLUMN; 0 JL8S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
L	1.5	1.5				
K	1.5	1.5				
I	1.5	1.5				
H	1.5	1.5				
G	1.5	1.5				
F	1.5	1.5	Not Complete			
E	1.5	1.5				
			1 more pass			
	1.5	1.5				
	162	155				

NOTES:

JL 8N - JE8N
- NC, SC & S

Legend

8 foot buffer represending area of cut for 06/21/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

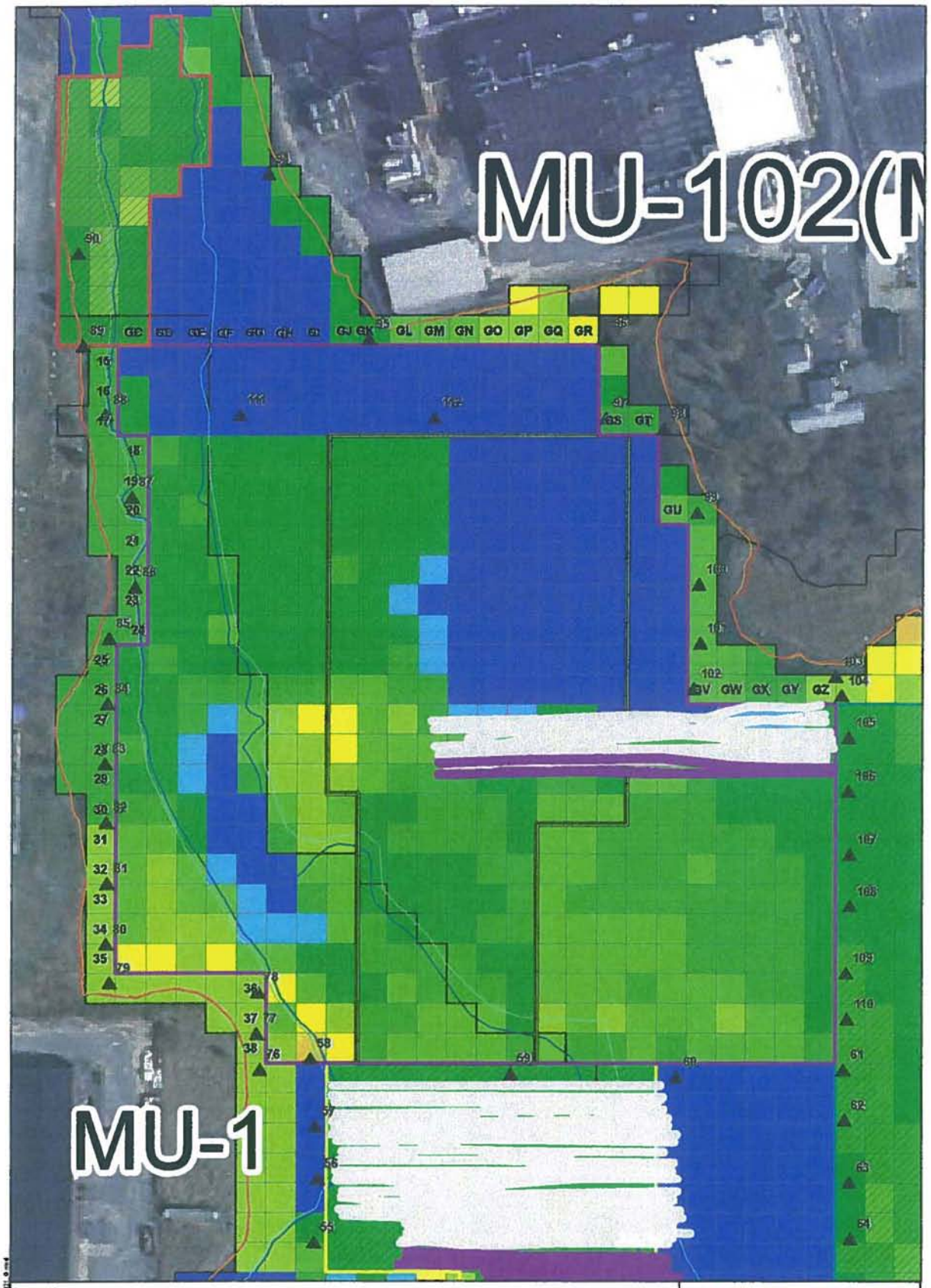
JACOBS

06/21/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cstarts DATE: 06/21/2010

06/21/10-J



Legend

8 foot buffer representing area of cut for 06/21/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.8 - 2.0
2.1 - 2.5
2.6- 3.0
3.1 - 3.5
3.6 - 4.0
4.1- 4.5
4.8- 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/21/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 06/21/2010

06/21/10-G

6/21/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN29N	GZ29N	331	6	1.6	3177.6	612
GN29NC	GZ29NC	330	6	1.6	3168	
JL7NC	JB7NC	217	6	1.5	1953	
JL7SC	JB7SC	218	6	1.5	1962	
JL7S	JB7S	224	6	1.5	2016	
JL8N	JE8N	156	6	1.5	1404	
JL8NC	JE8NC	162	6	1.5	1458	
JL8SC	JE8SC	155	6	1.5	1395	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	3,362
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	
6/21/2010	GPS Estimate	612	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/18/2010
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

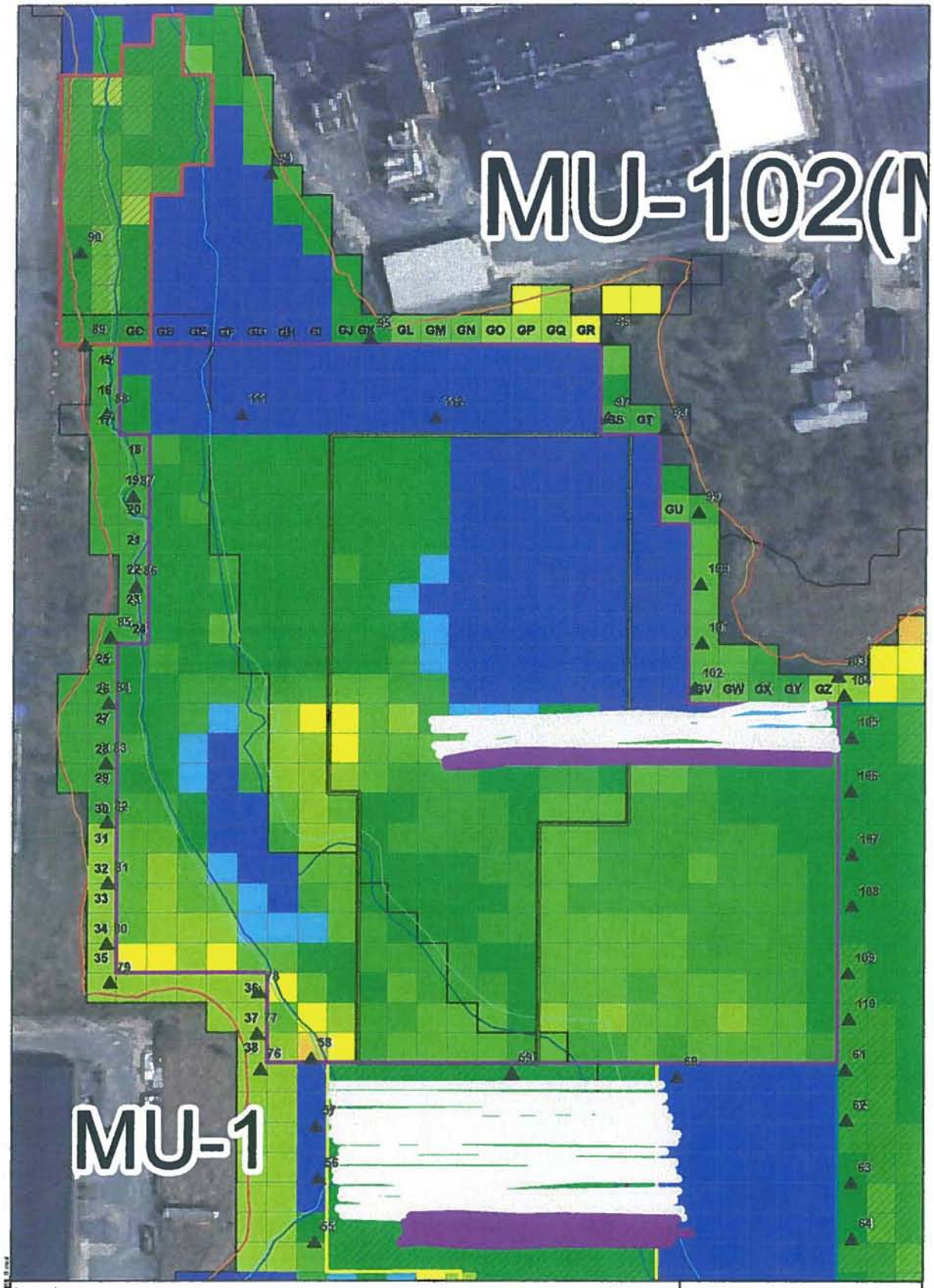
	PASSES; 0 COLUMN; 0 GN28SC	PASSES; 0 COLUMN; 0 GN28S	PASSES; 0 COLUMN; 0 GN29N	PASSES; 0 COLUMN; 0 GN29NC	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	2.1	2.1				
GO	1.7	1.7				
GP	1.5	1.5				
GQ	1.6	1.6				
GR	1.7	1.7				
GS	1.6	1.6				
GT	2.0	2.0				
GU	1.9	1.9				
GV	1.7	1.7				
GW	1.5	1.5				
GX	1.5	1.5				
GY	1.5	1.5				
GZ	1.5	1.5				
	1.7	1.7				
	319	317				

NOTES: Set up in GN29N but have not started.

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/18/2010
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

	PASSES; 0 COLUMN; 0 JL6N	PASSES; 0 COLUMN; 0 JL6NC	PASSES; 0 COLUMN; 0 JL6SC	PASSES; 0 COLUMN; 0 JL6S	AVE. ROD READING PER (Z) BLOCK JL7N	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5	1.5	1.5	1.5	
JK	1.5	1.5	1.5	1.5	1.5	
JI	1.5	1.5	1.5	1.5	1.5	
JH	1.5	1.5	1.5	1.5	1.5	
JG	1.5	1.5	1.5	1.5	1.5	
JF	1.5	1.5	1.5	1.5	1.5	
JE	1.5	1.5	1.5	1.5	1.5	
JD	1.5	1.5	1.5	1.5	1.5	
JC	1.5	1.5	1.5	1.5	1.5	
JB	1.5	1.5	1.5	1.5	1.5	
JA	1.5	1.5	1.5	1.5	1.5	
	1.5	1.5	1.5	1.5	1.5	
	220	223	236	224	223	

NOTES: Set up in JL7NC but have not started



Legend

8 foot buffer representing area of cut for 06/18/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/18/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeck DATE: 06/18/2010

06/18/10-G

Legend

8 foot buffer representing area of cut for 06/18/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/18/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobert DATE: 06/18/2010

06/18/10-J

6/18/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN28SC	GZ28SC	319	6	1.7	3253.8	616
GN28S	GZ28S	317	6	1.7	3233.4	
JL6N	JA6N	220	6	1.5	1980	
JL6NC	JA6NC	223	6	1.5	2007	
JL6SC	JA6SC	236	6	1.5	2124	
JL6S	JA6S	224	6	1.5	2016	
JL7N	JA7N	223	6	1.5	2007	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	2,750
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	
6/18/2010	GPS Estimate	616	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/17/2010
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

	PASSES; 2 COLUMN; 0	PASSES; 2 COLUMN; 0	PASSES; 2 COLUMN; 0	PASSES; 2 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK 2	THICKNESS OF EA.CUT IN FEET
start	JL4S	JL5N	JL5NC	JL5SC	JL5S	
Finish	JA4S	JA5N	JA5NC	JA5SC	JA5S	
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.5	1.5	1.5	1.4	1.4	
JK	1.5	1.5	1.4	1.5	1.5	
JI	1.5	1.4	1.4	1.5	1.5	
JH	1.5	1.5	1.5	1.4	1.4	
JG	1.5	1.5	1.5	1.5	1.4	
JF	1.5	1.5	1.4	1.4	1.5	
JE	1.4	1.4	1.4	1.4	1.4	
JD	1.5	1.5	1.5	1.5	1.5	
JC	1.4	1.4	1.5	1.4	1.5	
JB	1.5	1.5	1.5	1.5	1.5	
JA	1.5	1.5	1.4	1.4	1.5	
	1.5	1.5	1.5	1.5	1.5	
	284	279	277	285	283	

NOTES:

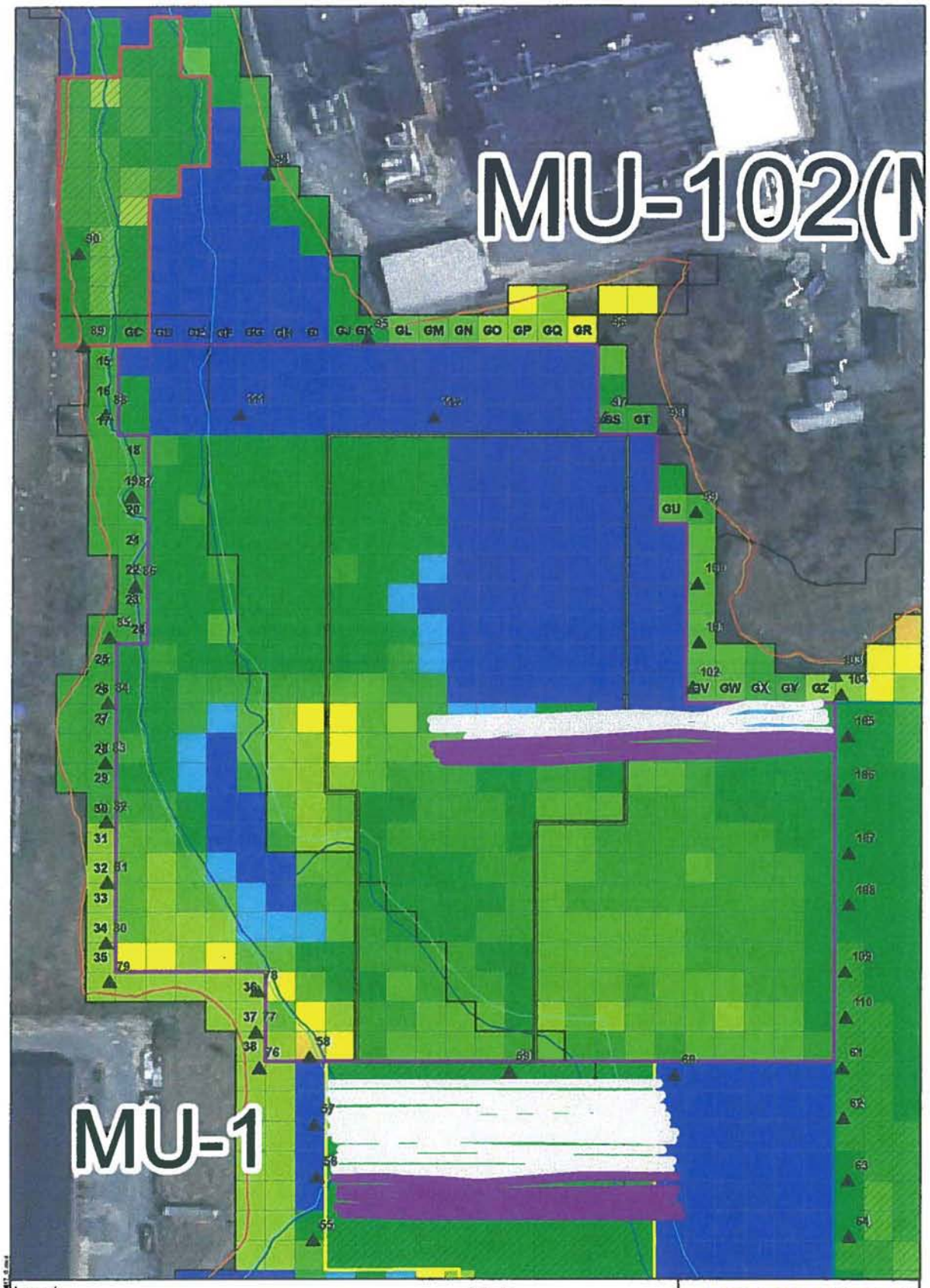
Tomorrow will start - JL6N - JA6N

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/17/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

	PASSES; ~~0~~ 2 COLUMN; 0 GN 27S GZ 27S	PASSES; ~~0~~ 2 COLUMN; 0 GN 28N GZ 28N	PASSES; ~~0~~ 2 COLUMN; 0 GN 28NC GZ 28NC	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	0.9	1.7	1.7			
GO	0.9	1.6	1.6			
GP	0.9	1.4	1.4			
GQ	1.1	1.5	1.5			
GR	1.3	1.7	1.7			
GS	0.8	1.6	1.6			
GT	0.6	1.9	1.9			
GU	0.6	1.8	1.8			
GV	0.5	1.7	1.7			
GW	1.0	1.5	1.5			
GX	0.9	1.5	1.5			
GY	0.7	1.5	1.5			
GZ	1.2	1.4	1.4			
	0.9	1.6	1.6			
	332	330	331			

NOTES:

Tomorrow will start GN 28SC – GZ 28SC



Legend

8 foot buffer representing area of cut for 06/17/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6- 3.0

3.1 - 3.5

3.6 - 4.0

4.1- 4.5

4.6- 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/17/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobeits DATE: 06/17/2010

06/17/10-G

Legend

8 foot buffer represending area of cut for 06/17/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/17/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: pretorta DATE: 06/17/2010

06/17/10-J

6/17/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN27S	GZ27S	332	6	0.9	1792.8	762
GN28N	GZ28N	330	6	1.6	3168	
GN28NC	GZ28NC	310	6	1.6	2976	
JL4S	JA4S	284	6	1.5	2556	
JL5N	JA5N	279	6	1.5	2511	
JL5NC	JA5NC	277	6	1.5	2493	
JL5SC	JA5SC	285	6	1.5	2565	
JL5S	JA5S	283	6	1.5	2547	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	2,134
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	
6/17/2010	GPS Estimate	763	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/16/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

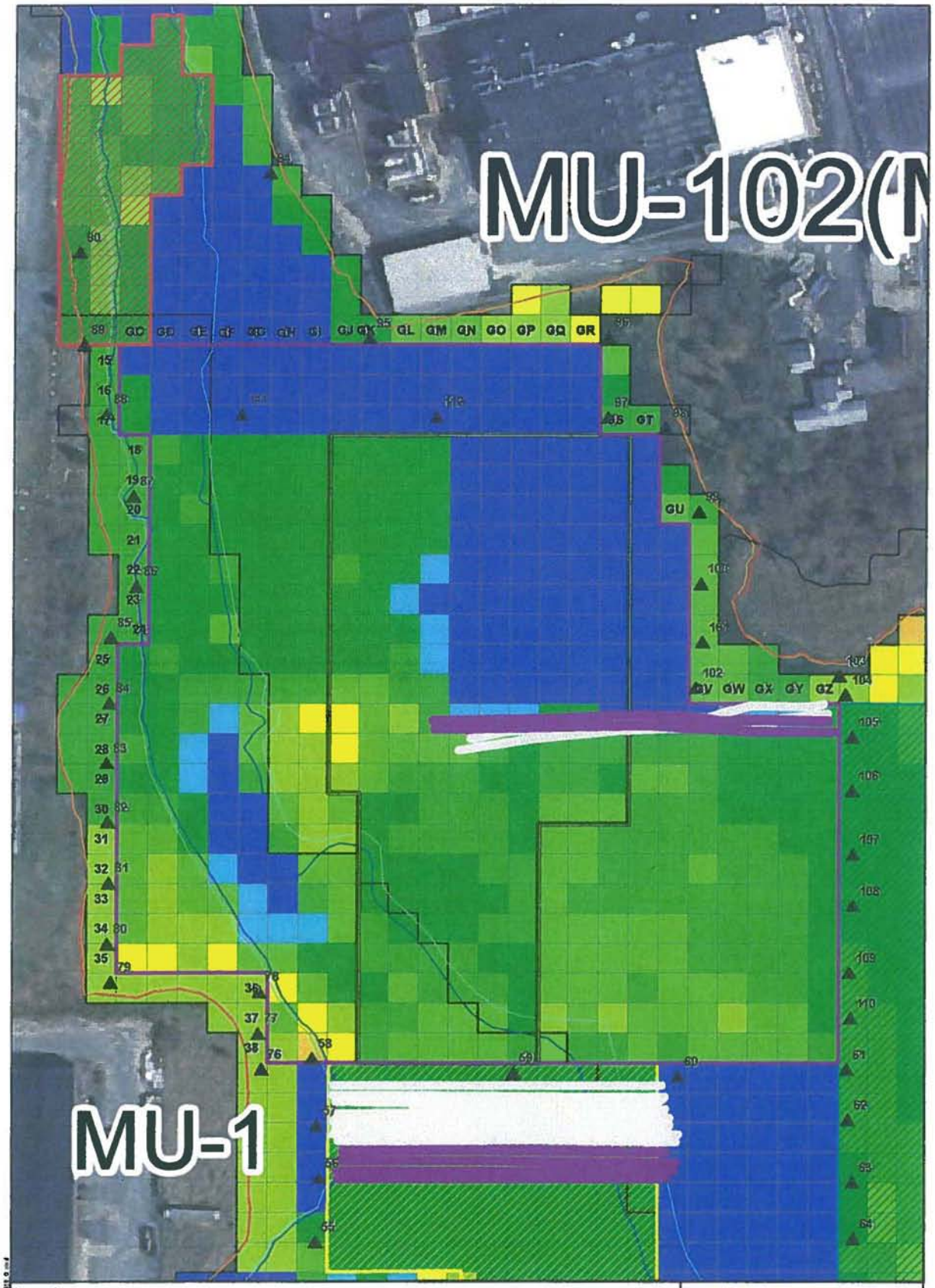
	PASSES; ~~0~~ 2 COLUMN; 0 GN27C GZ27C	PASSES; ~~0~~ 2 COLUMN; 0 GN27SC GZ27SC	PASSES; ~~0~~ . COLUMN; 0 GN27S GZ27S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	1.0	0.9				
GO	0.9	1.0				
GP	0.9	1.0				
GQ	1.2	1.3				
GR	1.3	1.2				
GS	0.7	0.8				
GT	0.6	0.6	Not Complete			
GU	0.5	0.6				
GV	0.6	0.7				
GW	1.0	0.9				
GX	0.9	0.8				
GY	0.7	0.8	–			
GZ	1.2	1.1				
	0.9	0.9				
	330	331				

NOTES:
Next To be completed – GN27S - GZ27S.

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/16/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

ROW WEST TO EAST	PASSES; ~~0~~ 2 COLUMN; 0 JL 3S JA 3S MATERIAL REMOVED (FT)	PASSES; ~~0~~ 2 COLUMN; 0 JL 4N JA 4N MATERIAL REMOVED (FT)	PASSES; ~~0~~ 2 COLUMN; 0 JL 4NC JA 4NC MATERIAL REMOVED (FT)	PASSES; ~~0~~ 2 COLUMN; 0 JL 4SC JA 4SC MATERIAL REMOVED (FT)	AVE. ROD READING PER (2) BLOCK 2 JL 4S JA 4S MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JL	1.4	1.3	1.4	1.5		
JK	1.3	1.5	1.6	1.5		
JI	1.4	1.6	1.5	1.5		
JH	1.4	1.5	1.4	1.4		
~~J~~G	1.5	1.4	1.5	1.4	Not complete	
JF	1.5	1.3	1.4	1.6		
JE	1.4	1.5	1.5	1.5		
JD	1.3	1.5	1.3	1.4		
JC	1.4	1.4	1.4	1.5		
JB	1.5	1.4	1.5	1.5		
JA	1.5	1.5	1.5	1.4		
	1.4	1.4	1.4	1.5		
	268	280	280	272		

NOTES:



Legend

- 6 foot buffer representing area of cut for 06/16/10
- 6 foot buffer representing area of cut from previous 2010 dredging activities
- Previously Dredged Areas
- Dredge Area M
- Dredge Area G
- Dredge Area J
- 2010Sheet Pile Locations

Z Blocks

- 0
- 0.1 - 1.0
- 1.1 - 1.5
- 1.6 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- 4.1 - 4.5
- 4.6 - 5.0
- 5.1 - 5.5

0 37.5 75 Feet 1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobertz DATE: 06/16/2010

06/16/10-G

Legend

8 foot buffer represending area of cut for 06/16/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/16/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: crobette DATE: 06/16/2010

06/16/10-J

6/16/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN27C	GZ27C	330	6	0.9	1782	480
GN27SC	GZ27SC	331	6	0.9	1787.4	
JL3S	JA3S	268	6	1.4	2251.2	
JL4N	JA4N	280	6	1.4	2352	
JL4NC	JA4NC	280	6	1.4	2352	
JL4SC	JA4SC	272	6	1.5	2448	
					12972.6	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	1,371
6/15/2010	GPS Estimate	671	
6/16/2010	GPS Estimate	480	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/15/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

	PASSES; ~~0~~ 2 COLUMN; 0 GN27NC GZ27NC	PASSES; 0 COLUMN; 0 GN27SC GZ27SC	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	0.9					
GO	0.8					
GP	1.0					
GQ	1.3					
GR	1.1					
GS	0.9	Have not started cut				
GT	0.8					
GU	0.8					
GV	0.9					
GW	0.9					
GX	1.0					
GY	0.9					
GZ	1.2					
	1.0					
	309					

NOTES:

Moved dredge into GN27SC - GZ27SC
- Not started cut.

Dredge Zone-2

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/15/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

ROW WEST TO EAST	PASSES; 0 COLUMN; 0 JL1S JA1S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL2N JA2N MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL2C JA2C MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL2S JA2S MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK JL3N JA3N MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
JL	1.4	1.5	1.5	1.5	1.5	
JK	1.3	1.4	1.5	1.4	1.4	
JI	1.4	1.3	1.4	1.3	1.4	
JH	1.5	1.2	1.4	1.5	1.4	
JG	1.6	1.4	1.3	1.4	1.5	
JF	1.4	1.5	1.4	1.5	1.4	
JE	1.5	1.4	1.5	1.4	1.5	
JD	1.4	1.6	1.3	1.3	1.5	
JC	1.5	1.5	1.5	1.5	1.4	
JB	1.5	1.4	1.4	1.6	1.4	
JA	1.4	1.5	1.5	1.4	1.3	
	1.44	1.43	1.4	1.4	1.4	
	270	274	280	277	286	

NOTES:

Dredge
Zone - 3
Page 2 of 2

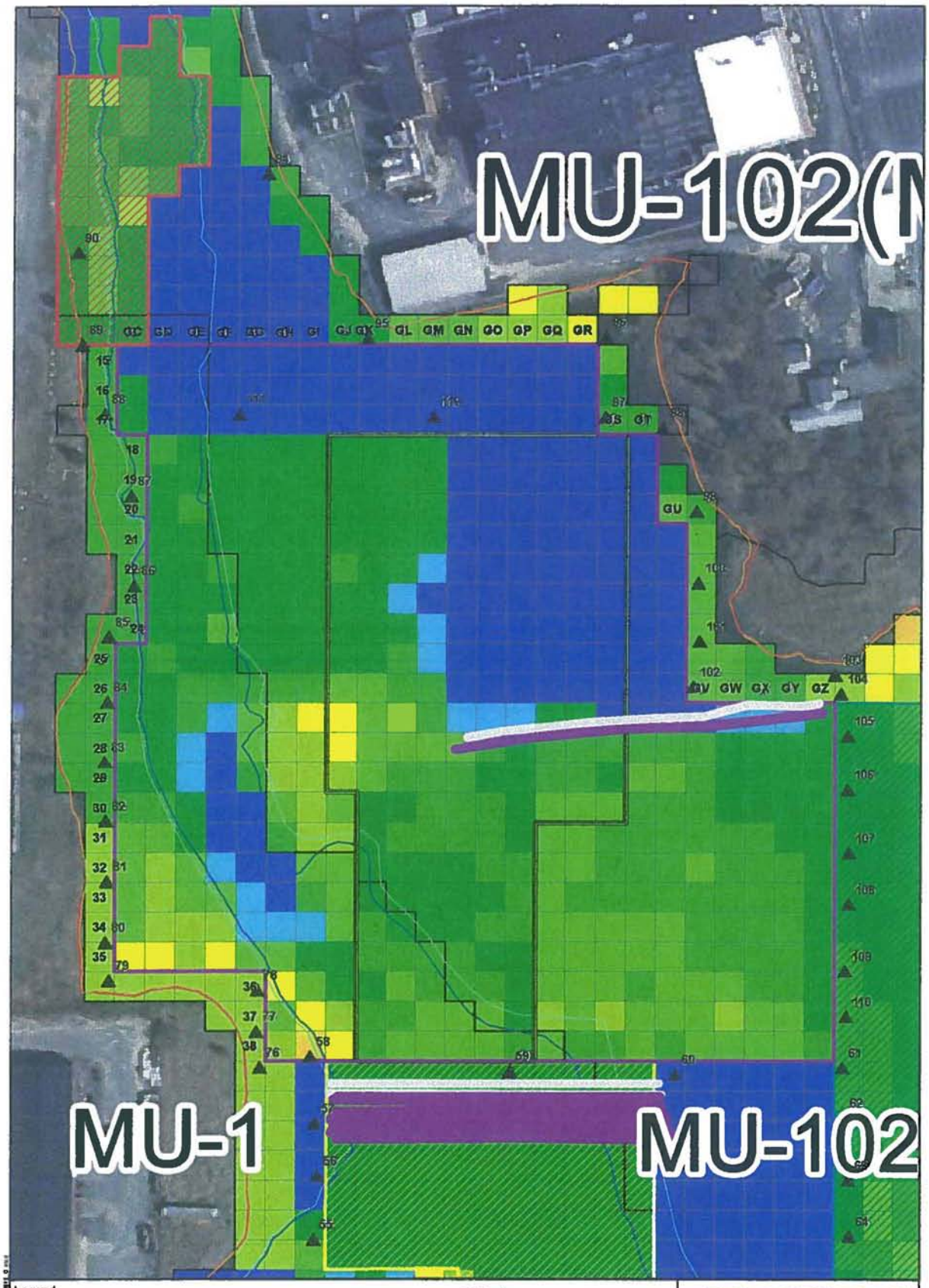
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/15/10
DREDGE ENGINEER(S): Mike Taibi / Marc Friedman

	PASSES; 0 COLUMN; 0 JL3NC JA3NC	PASSES; 0 COLUMN; 0 JL3SC JA3SC	PASSES; 0 COLUMN; 0 JL3S JA3S	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA.CUT IN FEET
ROW WEST TO EAST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
JL	1.4	1.5				
JK	1.5	1.4				
JI	1.6	1.5				
JH	1.5	1.5				
JG	1.4	1.3				
JF	1.3	1.4				
JE	1.5	1.5	Not complete			
JD	1.4	1.4	1 pass			
JC	1.3	1.4				
JB	1.5	1.5	thru Gar.			
JA	1.6	1.5				
	1.4	1.4				
	281	269				

NOTES:

Dredge Zone-3

Page 1 of 2



Legend

8 foot buffer representing area of cut for 06/15/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0
0.1 - 1.0
1.1 - 1.5
1.6 - 2.0
2.1 - 2.5
2.6 - 3.0
3.1 - 3.5
3.6 - 4.0
4.1 - 4.5
4.6 - 5.0
5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/15/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 06/15/2010

06/15/10-G

Legend

8 foot buffer represending area of cut for 06/15/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Dredge with Caution Zone

No Dredge Zone

Dredge Area J

2010 Sheet Pile Locations

Feet of Sediment to Remove

- 0
- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5

N

0 25 50 Feet 1:600

Aerial Photography MASSGIS 2003

JACOBS

06/15/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: cmberts DATE: 06/15/2010

06/15/10-J

6/15/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
JL1S	JA1S	270	6	1.4	2268	671
JL2N	JA2N	274	6	1.4	2301.6	
JL2C	JA2C	280	6	1.4	2352	
JL2S	JA2S	277	6	1.4	2326.8	
JL3N	JA3N	286	6	1.4	2402.4	
JL3NC	JL2SC	281	6	1.4	2360.4	
JL3SC	JA3SC	269	6	1.4	2259.6	
GN27NC	GZ27NC	309	6	1	1854	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	891
6/15/2010	GPS Estimate	671	

FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA G / ZONE 2)
DATE: 6/4/10
DREDGE ENGINEER(S): Mike Jarbi / Marc Friedman

	PASSES; 2 COLUMN; 0 N GN-GZ27	PASSES; 1 COLUMN; 0 NC GN-GZ27	PASSES; 0 COLUMN; 0	PASSES; 0 COLUMN; 0	AVE. ROD READING PER (Z) BLOCK	THICKNESS OF EA. CUT IN FEET
ROW EAST TO WEST	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	MATERIAL REMOVED (FT)	
GN	0.9					
GO	0.8					
GP	0.9					
GQ	1.4					
GR	1.0	N/C				
GS	0.4					
GT	0.6					
GU	0.5					
GV	0.3					
GW	0.9					
GX	0.7					
GY	0.6					
GZ	0.6					
	297					

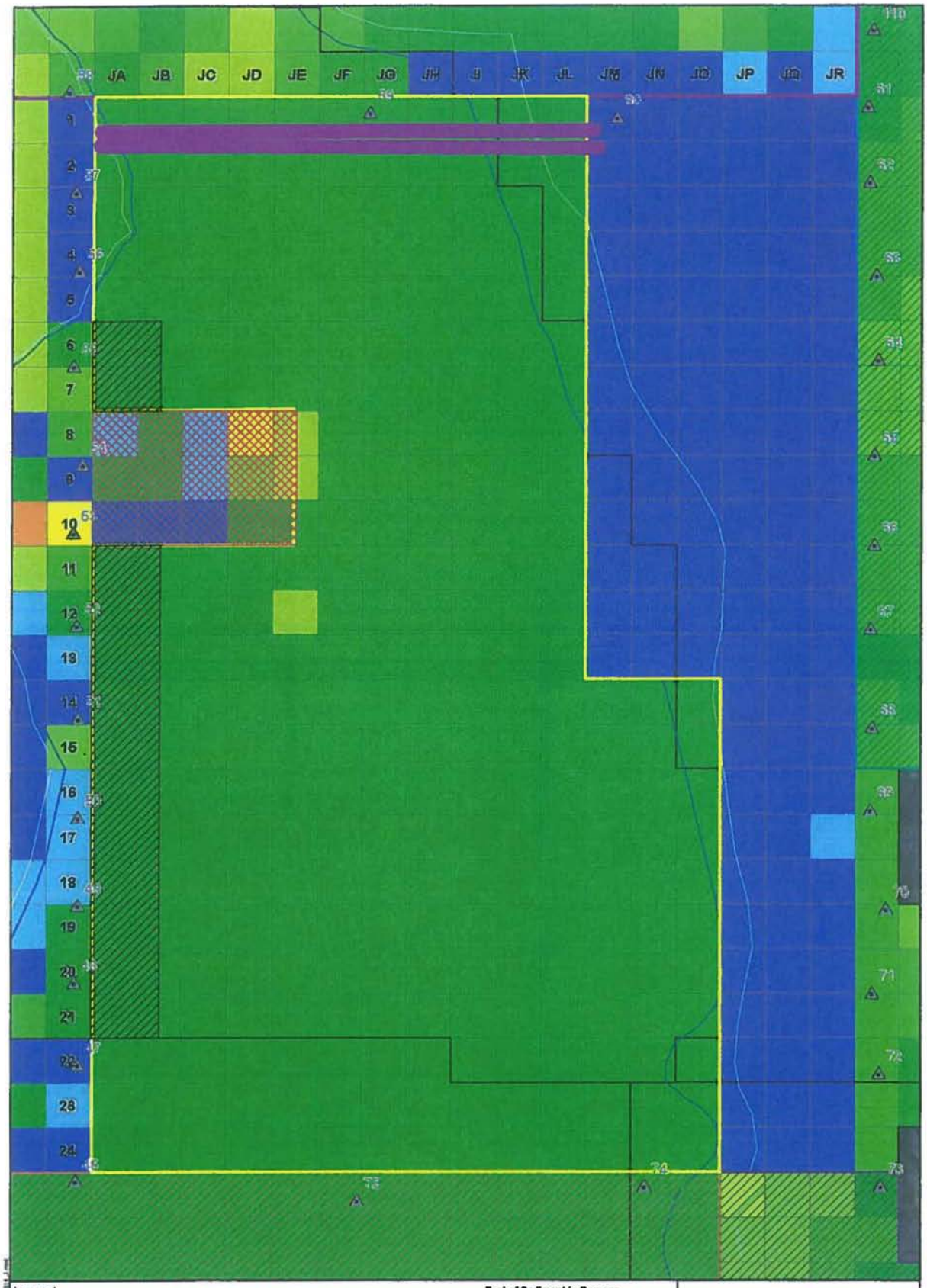
NOTES:

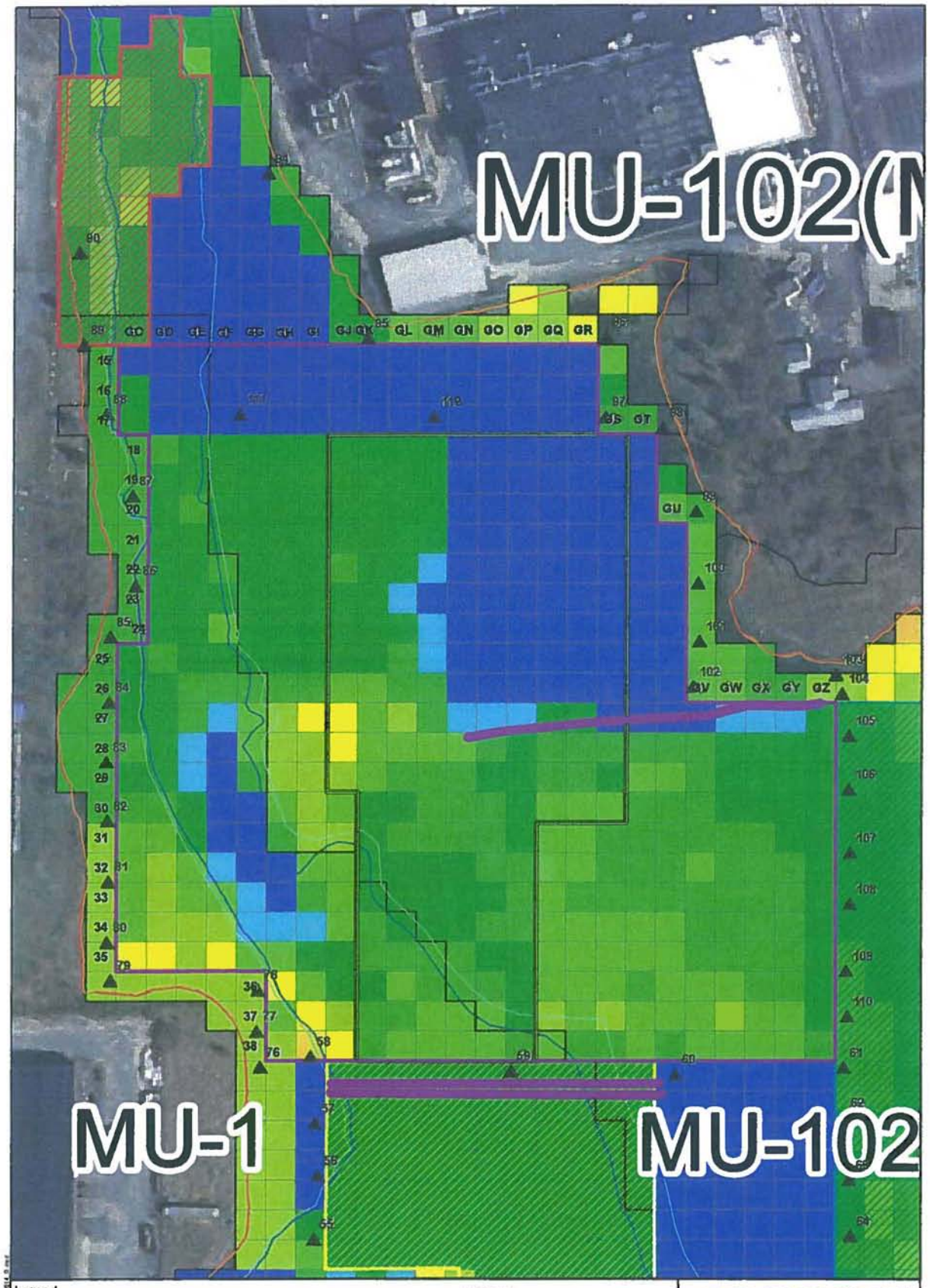
FINAL ROD READING MEASUREMENTS LOG SHEET – (AREA J / ZONE 3)
DATE: 6/14/10
DREDGE ENGINEER(S): Mike Taibi / Marc

ROW WEST TO EAST	PASSES; 3 COLUMN; 0 JL1NC JA1NC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL1SC JA1SC MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 JL1S JA1S MATERIAL REMOVED (FT)	PASSES; 0 COLUMN; 0 MATERIAL REMOVED (FT)	AVE. ROD READING PER (Z) BLOCK MATERIAL REMOVED (FT)	THICKNESS OF EA.CUT IN FEET
	1.3	1.3				
JL	1.5	1.5				
JK	1.4	1.5	moved dredge into cut will start 6/15/10			
JE	1.4	1.5				
JH	1.3	1.4				
JG	1.5	1.4				
JF	1.4	1.3				
JE	1.4	1.5				
JD	1.3	1.4				
JC	1.4	1.3				
JB	1.4	1.5				
JA	1.3	1.4				
	1.4	1.4				
	274	276				

NOTES: * JL1N – JA1N completed 6/10/10
1.5 passes / 1.5' of material removed.

* Dredge has been moved into JL2N – JA2N


JA
JB
JC
JD
JE
JF
JG
JH
JI
JK
JL
JM
JN
JO
JP
JQ
JR
Legend
8 foot buffer represending area of cut for 06/14/10
8 foot buffer representing area of cut from previous 2010 dredging activities
Dredge with Caution Zone
No Dredge Zone
Dredge Area J
2010 Sheet Pile Locations
Feet of Sediment to Remove
0
0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 2.5
2.5 - 3.0
3.0 - 3.5
3.5 - 4.0
4.0 - 4.5
4.5 - 5.0
5.0 - 5.5
N
0 25 50
Feet 1:600
Aerial Photography MASSGIS 2003
JACOBS
06/14/10 Dredging with GPS Locations (area of dredging was interpreted)
New Bedford Harbor Superfund Site
06/14/10-J



Legend

8 foot buffer representing area of cut for 06/14/10

8 foot buffer representing area of cut from previous 2010 dredging activities

Previously Dredged Areas

Dredge Area M

Dredge Area G

Dredge Area J

2010Sheet Pile Locations

Z Blocks

0

0.1 - 1.0

1.1 - 1.5

1.6 - 2.0

2.1 - 2.5

2.6 - 3.0

3.1 - 3.5

3.6 - 4.0

4.1 - 4.5

4.6 - 5.0

5.1 - 5.5

0 37.5 75 Feet

1:900

N

Aerial Photography MASSGIS 2003

JACOBS

06/14/10 Dredging with GPS Locations (area of dredging was interpreted)

New Bedford Harbor Superfund Site

NAME: croberts DATE: 06/14/2010

06/14/10-G

6/14/2010

From	To	Length	Width	Depth	Volume (ft^3)	Total Volume (CY)
GN27	GZ27	297	6	0.74	1318.68	220
JL1NC	JA1NC	274	6	1.4	2301.6	
JL1SC	JA1SC	276	6	1.4	2318.4	

Date	Notes	Volume	Overall Total Volume Estimate (CY)
6/14/2010	GPS Estimate	220	220