

ACE Meeting

9/19/11

Karen Adams
Clean Waters Act

- generally less work in aquatic environments
- minimal work to effect needed results
- MSH is minor work, for their review processes
- Full Review \Rightarrow when potential for more than minimal impacts

She says DEP is correct agency to which Medfield should speak ^{that we are seeking} ~~the~~ ^{not type} contains an alternatives analysis

Rip rap vs. bio-engineered bank stabilization

✓ ^{6 days} Review is on schedule \Rightarrow overdue already

ACE Needs info WRT future work

ACE agreed to check \approx DEP, WRT whether proper results under MCP have been complied with

- Q of whether Phase III ^{under MCP} is complete

ACE needs more info WRT removal of the Aquablock oil, as they only learned about it on Friday

"Minimal" def. - anything under 5,000 #
- Qs if b/w 5,000# + on acre

20. AM. 1977

1/9/77

quik

20

quik
20

Stomach contents in the red gill net -
all were large at the beginning -
very few small, for this reason -
Larvae were not taken by net -
large

Spent the day in the water -
large larvae were taken at night -
large larvae were taken at night -

very few in the water -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

large larvae were taken at night -

Board of Selectmen's Agenda

Monday, September 19, 2011, 10:00 a.m.

Chenery Meeting Room, Medfield Town Hall

ACTION: Discussion of Division of Capital Asset Management's (DCAM) Section 404 permit application to the New England District of the Army Corps of Engineers for in-river and river bank work at the former Medfield State Hospital.

REPRESENTING Congressman Stephen Lynch:

Congressman Lynch and/or Jeffery Mahoney, Chief of Staff, Boston Office

REPRESENTING the Army Corps of Engineers, New England Division:

Karen Adams, Chief of the Permits and Enforcement Branch

Kevin Kotelly, Project Manager

REPRESENTING the Commonwealth of Massachusetts Great & General Court:

Senator James Timilty, Representative Denise Garlick, Representative Daniel Winslow and/or Chief of Staff Joanne Muti

REPRESENTING the Massachusetts Department of Environmental Protection:

REPRESENTING the Massachusetts Division of Capital Asset Management:

REPRESENTING the Town of Medfield

Selectmen Osler (Pete) Peterson, Ann Thompson, Mark Fisher, Town Administrator Michael Sullivan, Asst. Town Administrator Kristine Trierweiler
State Hospital Environmental Review Committee (SHERC) members, John Thompson, Chairman, Ralph Tella, Deborah Bero and Committee consultant Andrea Stiller
Public Involvement Process (PIP) members William Massaro and John Harney

REPRESENTING the Charles River Watershed Association

Elise Leduc, Rita Baron Fellow

Medfield BoS-USACE

Category II General Permit Discussion

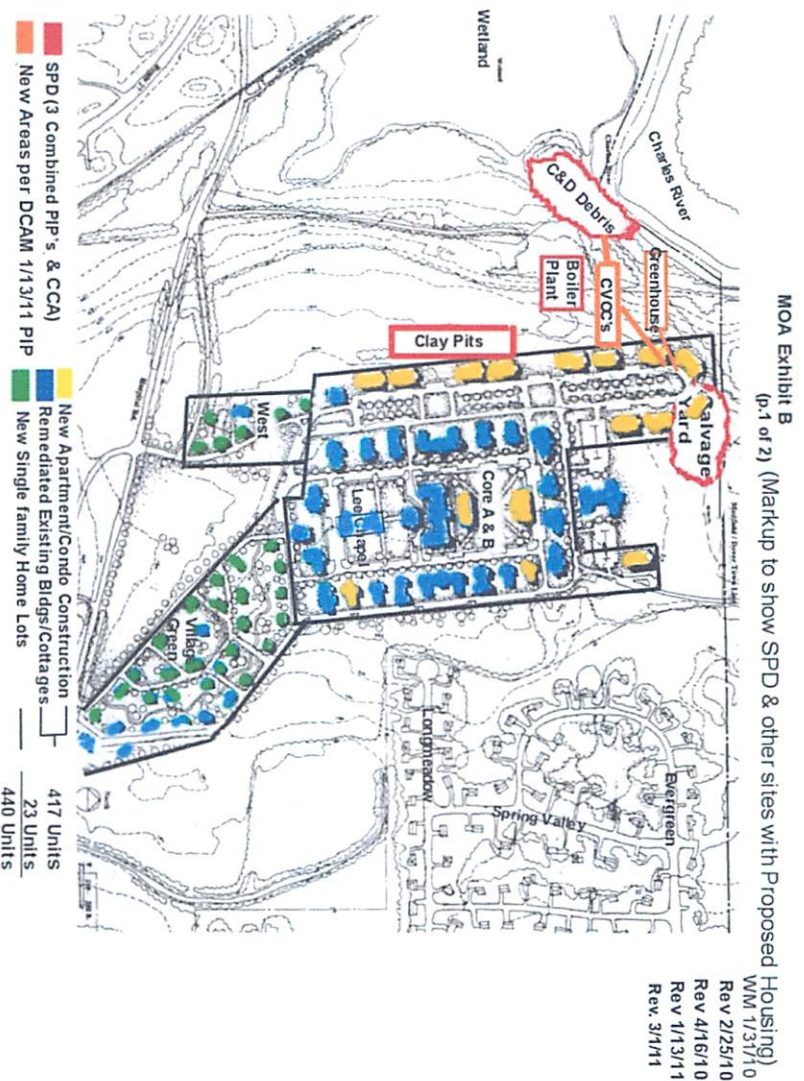
Remediation of State Hospital C&D Area

19 Sep 2011

Reasons For Requesting Meeting

- **Review and discuss public concerns with DCAM's proposed remediation of the Construction and Demolition Debris (C&D) Area at the former Medfield State Hospital.**
- **Review status of approvals/permitting by USACE, State, and Medfield agencies.**
- **Discuss possible USACE alternative courses of action.**

- DCAM Proposed Development (2008 legislation)



- Population Increase Estimate

- 800 residents
- 147 children

- C&D Area Recreational Use

- Equestrian and hiking trails
- Kayak/Canoe-launch area

“Being near to the redevelopment parcel [it] may become play area for children..Conceptual Site models for the Power Plant and C&D Area will recognize potential uses that may be more intrusive than passive recreation.” (MEPA submittal Feb 2010)

- **In-River Issue & Concerns**

- **DCAM proposes to cap (Aquablok) 800 sq. ft of sediment. In addition to our concerns about Aquablok suitability, DEP's recent conditional approval (Item #2) requires sampling for additional toxic areas, low-water Aquablok removal & vacuum dredging, subject to new USACE approval.**

This two-step process requirement will subject the river to unwarranted risks and potential additional harm:

- **Impairment of channel's carrying capacity**
- **Risk of cap damage/dislodgement from ice & storm debris**
- **Intensive monitoring required to confirm integrity**
- **Repairs not possible during storm/high-water conditions**
- **Difficulty of removal unknown**

- **Mass Division of Fisheries & Wildlife has advised that "to avoid any future ecological risk and impacts to the aquatic resources, the 800 sq. ft. of impacted sediments within the river should be dredged rather than capped."**

- **Bank and C&D Area Issue & Concerns**

- **DCAM's application expands an unsubstantiated urgent in-river response into a low-cost, permanent partial capping/removal of ACM and other debris on the riverbank and in the rest of the C&D Area. Major concerns are:**
 - **Minimal contaminated fill removal, leaving more than 20,000 cu.yds. (75%) in this environmentally-sensitive area.**
 - **Leaving a permanent, unlined hazardous waste land fill in the 100-year flood-plain, within the Zone II of Medfield Well # 6, and within a zoned Potentially Productive Medium Yield Aquifer.**
 - **Use of 200-300 ft. of riverfront riprap (650 cu.yds. between high and low water) solely to anchor a partial membrane lining resulting in probable impact on the public interest:**
 - **Recreation**
 - **Aesthetics**
 - **Impairment of carrying capacity within the defined channel**
 - **Impact to ground and surface water quality**
 - **Impairment of riverbank stability**
 - **Reduction of breeding habitat capacity, escape cover, and food for fisheries, and the capacity to provide for important wildlife habitat functions**
 - **Mass Division of Fisheries & Wildlife has commented that "Riparian habitats are critical to the overall health of the river ecosystem and should incorporate bioengineering...and not the use of hard structures [riprap].**

• **Permit/Approval Status**

<u>Agency</u>	<u>Requirement</u>	<u>Status</u>	<u>Comments/Remarks</u>
MEPA	Notice of Project Change	Approved 9/1/11	“Permitting Agencies have sufficient authority to insure impacts are minimized and mitigated.”
Medfield ConComm	Notice of Intent	OoC Issued 8/26/11	Appeals filed 9/12/11 by CRWA & 10-Resident Group--“OoC will harm river and conservational/recreational interests. Work will significantly impact flood control, wildlife habitat, fisheries, water supply, groundwater, water quality and storm damage prevention”.
MassDEP-BWSC	Immediate Response Action	Approved 9/8/11	Vacuum dredging of temporary capped sediment to complete 10/31/12 subject to USACE and other agencies permitting. Submit riprap alternatives by 12/31/11
MassDEP-WWW	401 Water Quality Certificate	Pending	
MassDEP-WWW	Chapter 91 Dredge Permit	?????	BoS has questioned absence of information re: Application for permit
USACE	Category II General Permit	Pending	Additional evaluation/discussion of alternatives requested to minimize adverse public interest impact.

- **Suggested for USACE's Consideration**

- **Both the public and DEP have stated that additional time must be allowed to investigate alternative approaches which have less negative impact on this sensitive area. DEP's conditional IRA approval requires implementation of bioengineering alternatives to riprap, or submittal of technical riprap alternatives evaluation by independent consultant on 12/31/2011.**

Based on the current proposal's direct, secondary, and cumulative adverse impacts to the aquatic environment and for the probable impact on the public interest:

- **DCAM should be encouraged to withdraw their current application for proposed in-river Aquablok capping and riverbank and C&D area riprapping and partial permanent remediation.**
- **A new application could then be submitted to dredge the 880 sq. ft. (and any additional sediment identified as toxic) in one operation. If this additional assessment effort cannot be completed and dredging approval cannot be accomplished this low-water season, it should be deferred, as a one-step vacuum dredging operation, until next year's low water.**
- **Upon completion of DCAM's independent consultant review of bioengineering riprap alternatives requested by DEP, and after public review, a separate application could then be submitted for this effort.**

<h1>Weston & Sampson</h1>		PROJECT Medfield State Hospital		REPORT OF BORING No. <u>CD-SD-122</u>			
		SHEET <u>1</u> OF <u>1</u> Project No. <u>2100014.C</u> CHKD BY _____					
BORING Co. <u>Two Guys and a Boat</u>		BORING LOCATION <u>See attached plan</u>					
FOREMAN <u>Mark</u>		GROUND SURFACE ELEV. _____ DATUM _____					
WSE GEOLOGIST: <u>Emily Faivre</u>		DATE START <u>6/11/10</u>		DATE END <u>6/11/10</u>			
SAMPLER: <u>Vibracore</u>		GROUNDWATER READINGS					
CASING: <u>4-inch sampler</u>		DATE	TIME	WATER AT	CASING AT		
CASING SIZE: <u>N/A</u> Method _____				N/A			
DEPTH (feet)	CASING (lb/ft)	SAMPLE			PID (ppm)	Notes	
		No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"		
5			44/37	0-3.1		N/A	Odor to 2.5' Sheen observed Two clinker pieces observed at 13"
10							No odor
15							*Only concerned with bottom 12" to assess nature and extent below 3' of depth
20							
25							
30							
35							
GRANULAR SOILS		COHESIVE SOILS		REMARKS: Sample collected 2-3' bgs and 3-4' bgs			
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY				
0-4	V. LOOSE	0-2	V. SOFT				
4-10	LOOSE	2-4	SOFT				
10-30	M. DENSE	4-8	M. STIFF				
30-50	DENSE	8-15	STIFF				
> 50	V. DENSE	15-30	V. STIFF				
		> 30	HARD				
NOTES:							
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.							
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG.							
FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.							
					BORING No.	CD-SD-122	