



# FORMER NAVAL AIR WARFARE CENTER WARMINSTER

## Restoration Advisory Board (RAB) Meeting Minutes

### FORMER NAVAL AIR WARFARE CENTER (NAWC) WARMINSTER MEETING MINUTES

#### RESTORATION ADVISORY BOARD (RAB) MEETING NO. 123 REFERENCE: CLEAN CTO NO. WE23

1. Meeting Date and Time: April 18, 2012, 9:30 AM to 10:40 AM
2. Location: Warminster Municipal Authority Board Room
3. Attendees: See Attachment 1 (attendance list)
4. Summary of Meeting Discussions: See below.

#### **Administrative Update**

Jeff Dale, the Navy's Remedial Project Manager (RPM) for the project working out of the Navy's Base Realignment and Closure Program Management Office (BRAC PMO) in Philadelphia, opened the meeting by welcoming the attendees and providing an agenda for the meeting (Attachment 2). Willie Lin, the new BRAC Environmental Coordinator (BEC) replacing Bob Lewandowski (retired), introduced himself and introductions were made all around for those in attendance.

Mr. Lin handed out some general information (Attachment 3) related to the adjournment/dissolution of Restoration Advisory Boards (RABs) and formation of Technical Review Committees (TRCs). Per previous RAB discussions, the Navy will implement the RAB adjournment process for the former NAWC, while RAB meetings will continue on as TRC meetings with similar discussions/format. A memorandum for the record will be generated by the Navy and a public notice posted in regards to the adjournment of the RAB.

Mr. Lin also mentioned that BRAC PMO has a website specifically for the former NAWC in Warminster. The web address is:  
<http://www.bracpmo.navy.mil/basepage.aspx?baseid=81&state=Pennsylvania&name=warminster>

Comments were solicited on the October 2011 RAB meeting minutes. No comments were offered by those in attendance and the meeting minutes were approved as-is.



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Action items from the October 2011 RAB meeting were addressed as topics were brought up for discussion. The action items from the previous RAB meeting are summarized below:

- PADEP is to provide an update r.e. the status of the CRC Industries investigation.
- WMA/Earth Data is to provide an update of the municipal wells status.
- The Navy is to provide an update on groundwater extraction/treatment/monitoring activities.
- The Navy is to update the RAB on the progress of property transfers for the remaining Navy properties along Jacksonville Road and the Shenandoah Woods housing area.
- The Navy is to provide an update r.e. the Five Year Review and Annual Land Use Control Inspections.

### Off-Site Investigations

Mike Penzone (PADEP) stated that CRC is working on permitting for the planned groundwater extraction/treatment system and has submitted an NPDES Permit for PADEP review which should be approved soon. Michelle Rudnick (CRC Industries) indicated that other permits in the works include a Delaware River Basin Commission (DRBC) permit (applied for, got a draft permit, will now be reviewed by the State), an Erosion and Sediment Control (ESC) permit (have conditional approval from Bucks County), and well permits (not yet submitted). Kathy Davies (EPA hydrogeologist) asked about the details of the planned remediation system – Ms. Rudnick indicated that 6 extraction wells and a treatment system are planned. Mr. Penzone indicated that well depths are projected to be in the 50-90 ft depth range per the cleanup plan submitted by CRC's consultant (Langan Engineering).

### WMA Update

Dave Fennimore (Earth Data, representing Warminster Municipal Authority) stated that well WMA-26 and the associated treatment system are up and running continuously.



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Tim Hagey (WMA) indicated that WMA is currently in cost negotiations with the Navy regarding the recent treatment system upgrade. Mr. Dale stated that WMA should be hearing from the Navy/Department of Justice shortly regarding the cost negotiations. Ms. Davies asked what the current TCE influent concentrations are – Mr. Fennimore indicated that concentrations are around 40-50 ug/l. Jeff Orient (Tetra Tech, Navy contractor) asked what the current PCE concentrations are – Mr. Fennimore replied that they are averaging around 350 ug/l.

### **Navy Housing Transfer Update**

Mr. Lin indicated that the Findings of Suitability to Transfer (FOSTs) for the Navy housing areas along Jacksonville Road and in Shenandoah Woods were completed in the February/March timeframe, and the Navy is currently completing their National Environmental Policy Act (NEPA) review of the reuse plans. The transfer of the housing areas follow the completion of negotiations for sale.

### **Treatment Plant Operations/LTM Update**

Pat Schauble (H&S Environmental, Navy contractor) provided an update on treatment plant operations and LTM activities (see handout in Attachment 4). Some notable points covered include:

- The treatment plant operated at an average rate of 81 gpm in March, with most flow coming from Area A and the remainder from Area C.
- Routine air stripper maintenance/cleaning was performed in December 2011-January 2012, activated carbon change-outs were performed in March, and a Request for Determination to discontinue use of the vapor phase carbon treatment was submitted to PADEP and approved.
- VOC removal via pumping totaled approximately 4.7 lbs in March, with over 4 lbs of TCE. Almost all the mass removal was from Area A wells.
- VOC recovery rates have stabilized and have been at similar levels for ~4 years.



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- The DRBC and NPDES permits for the treatment system discharge expire in April and May 2013, respectively and are currently in the process of being renewed.
- A semiannual round of groundwater sampling was performed in November (draft report due out in April), and another round is scheduled for May.
- Several (8) additional wells have been identified for closure and will be permanently abandoned later this spring. Most remaining wells to be sealed are on Shenandoah Housing property and two are on property already transferred to Penn State.

Mr. Fennimore and Mr. Hagy asked for clarification regarding the Navy's position on continued pumping of the extraction wells in Area A – Mr. Dale indicated that there are no plans to shut the extraction/treatment system down anytime soon.

Mr. Orient asked how many rounds of Area D groundwater sampling data have been below MCLs since the operation of extraction/treatment system started – Mr. Schauble wasn't sure but indicated that there have been several rounds at least. Mr. Orient suggested that an endpoint for monitoring be identified, assuming concentrations remain below the remedial goals.

### **Miscellaneous Topics and Issues – Action Items**

Mr. Orient gave a brief update of recently-completed Five-Year Review and the annual land use control inspections for 2011 (see handout in Attachment 5). Some notable points covered include:

- The final Third Five-Year Review Report was signed in November; all of the remedies are currently protective and no issues were identified.
- Operable units evaluated included OU-1/1A/1B, OU-3, OU-4, OU-7, OU-9, and OU-10; all requirements have been met for OU-10 therefore it can be dropped from subsequent Five-Year Reviews.
- Annual land use control (LUC) inspections were performed in October 2011 for Areas A, B, C, and D.



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- The 2011 Land Use Control Inspection Report was released in March 2012 – LUCs for each area are being complied with and there are no issues.

For the Five-Year Review, Ms. Davies questioned whether thallium could be removed as a contaminant of concern (COC) for OU-3 through an Explanation of Significant Difference (ESD) as recommended in the report. Her concern was that a ROD-specified COC cannot be removed. Mr. Dale and Mr. Orient pointed out that the thallium levels are consistent with background. Ms. Davies suggested that thallium be addressed by stating that the remedial goal for thallium has been met rather than using an ESD to try to remove it as a COC.

Ms. Davies also questioned whether OU-4 should be carried through to the next Five-Year Review since groundwater concentrations are now below cleanup goals. Mr. Orient suggested that it could be closed sometime after the long term monitoring is stopped, however the current institutional controls for OU-4 would have to be removed also. Dennis Orenshaw (EPA RPM) agreed that the presence of institutional controls would necessitate that the site remain in the Five-Year Review process, and suggested that an ESD to remove the institutional controls from Area D (and maybe expand the Area A institutional controls) may be the best approach. Ms. Davies suggested checking the OU-4 ROD to see if the requirement for LUCs applies only until the groundwater remediation is completed, as then the LUCs would no longer apply and an ESD would not be needed to remove them (A subsequent/post-meeting check of the 2000 final ROD verified the following language: "Institutional controls shall be implemented to prevent the use of Area D groundwater as long as it presents an unacceptable risk and to protect the integrity and effectiveness of the extraction well system and natural attenuation processes.").

The need for a Five-Year Review approval letter from EPA was brought up as an action item for the associated public notice that is required for Five-Year Reviews.

Mr. Lin asked whether the next annual round of land use control field inspections will be performed in October 2012 – Mr. Orient verified that they have typically been done in the fall of each year.

Action Items that will be carried through to the upcoming TRC meeting include:

- The Navy is to provide an update on activities related to adjournment of the RAB (memorandum/public notice).



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- The Navy is to provide an update on groundwater extraction/treatment/monitoring activities.
- PADEP/CRC is to provide an update r.e. the status of the CRC Industries investigation.
- The Navy is to update the TRC on the progress of property transfers for the remaining Navy properties along Jacksonville Road and the Shenandoah Woods housing area.
- The TEG is to provide a recommendation for an exit strategy to reduce or terminate LTM for Area D.

### **Next Meeting Date**

The next meeting date (TRC meeting) was set for October 17, 2012 at 9:30 AM in the WMA Board Room. The meeting was adjourned at approximately 10:40 AM.



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## Restoration Advisory Board (RAB) Meeting Minutes

### ATTACHMENT 1 ATTENDANCE LIST





# FORMER NAVAL AIR WARFARE CENTER WARMINSTER

## Restoration Advisory Board (RAB) Meeting Minutes

### ATTACHMENT 2 MEETING AGENDA



# **AGENDA**

## **FORMER NAWC WARMINSTER**

### **Technical Subcommittee/Restoration Advisory Board (RAB) Meeting**

**Date: 18 APRIL 2012**

**Time: 9:30 AM**

**Location: WMA Board Room, 415 Gibson Ave., Warminster, PA**

- **Administrative Update**
  - Minutes of the last meeting
  - Review action items (**see below**)
  - RAB adjournment discussion
  
- **Off-Site Investigations**
  - PADEP update on CRC Chemicals
  
- **WMA Update**
  - Status of Well #26
  
- **Navy Housing Transfer Update**
  - Status of property transfer activities along Jacksonville Road and Shenandoah Woods
  
- **Treatment Plant Operation**
  - Plant operating status
  - VOC removal evaluation
  - Permit renewal status update
  
- **LTM Update**
  - Fall 2011 sampling round status
  - Plans for Spring 2012 performance monitoring
  - Additional well closures
  
- **Miscellaneous Topics and Issues – Action Items**
  - Five-Year Review status
  - Annual Land Use Control Inspections status

**Time and Location of Next Meeting: - Date to be determined (semiannual)**

- **Action Items**

The following action items have been identified as a result of the October 2011 meeting:

- PADEP is to provide an update r.e. the status of the CRC Industries investigation.
- WMA/Earth Data is to provide an update of the municipal wells status.
- The Navy will provide updates r.e. groundwater extraction, treatment, and monitoring activities.
- The Navy is to update the RAB on the progress of property transfers for the remaining Navy properties along Jacksonville Road and the Shenandoah Woods housing area.
- The Navy is to provide an update r.e. the Five Year Review and Annual Land Use Control Inspections.

**Directions to the WMA Board Room:**

**From the former NAWC** - Proceed to the intersection of Street and Jacksonville Rd. Turn west (right) onto Street Rd. Continue west to York Rd. Turn south (left) onto York Rd. Continue to Henry Ave. Turn west (right) onto Henry Ave. Follow directions as above to the WMA building.

**From County Line Rd** - Instead of turning north (right) onto Jacksonville, continue west on County Line to York Rd. Turn north (right) onto York Rd. Continue to Henry Ave. Turn west (left) onto Henry Ave. Continue to Gibson Ave. Turn right into the parking lot shared by the Warminster Township and WMA. The WMA building is located towards the rear.



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### ATTACHMENT 3 RAB ADJOURNMENT INFORMATION

# 32 CFR 202.10 - RAB adjournment and dissolution.

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Title 32: National Defense

Subtitle A: Department of Defense (Continued)

CHAPTER I: OFFICE OF THE SECRETARY OF DEFENSE (CONTINUED)

SUBCHAPTER M: MISCELLANEOUS

PART 202: RESTORATION ADVISORY BOARDS

Subpart B: Operating Requirements

202.10 - RAB adjournment and dissolution.

(a) RAB adjournment—(1) Requirements for RAB adjournment. An Installation Commander may adjourn a RAB with input from the community when there is no longer a need for a RAB or when community interest in the RAB no longer exists. An Installation Commander may consider adjourning the RAB in the following situations:

- (i) A record of decision has been signed for all DERP sites on the installation,
- (ii) An installation has achieved response complete at all sites and no further environmental restoration decisions are required,
- (iii) An installation has all remedies in place,
- (iv) The RAB has achieved the desired end goal as defined in the RAB Operating Procedures,
- (v) There is no longer sufficient, sustained community interest, as documented by the installation with RAB community members and community-at-large input, to sustain the RAB. The installation shall continue to monitor for any changes in community interest that could warrant reactivating or reestablishing the RAB, or
- (vi) The installation has been transferred out of DoD control and day-to-day responsibility for making restoration response decisions has been assumed by the transferee.

(2) Adjournment procedures. If the Installation Commander is considering adjourning the RAB, the Installation Commander shall:

(i) Consult with EPA, state, tribes, RAB members, and the local community, as appropriate, regarding adjourning the RAB and consider all responses before making a final decision.

(ii) Document the rationale for adjournment in a memorandum for inclusion in the Administrative Record, notify the public of the decision through written notice to the RAB members and through publication of a notice in a local newspaper of general circulation, and describe other ongoing public involvement opportunities that are available if the Installation Commander decides to adjourn the RAB.

(b) RAB dissolution—(1) Requirements for RAB dissolution. An Installation Commander may recommend dissolution of a RAB when a RAB is no longer fulfilling the intended purpose of advising and providing community input to an Installation Commander and decision makers on environmental restoration projects as described in § 202.1(b).

(2) Dissolution procedures. If the Installation Commander is considering dissolving the RAB, the Installation Commander shall:

(i) Consult with EPA, state, tribal and local government representatives, as appropriate, regarding dissolving the RAB.

(ii) Notify the RAB community co-chair and members in writing of the intent to dissolve the RAB and the reasons for doing so and provide the RAB members 30 days to respond in writing. The Installation Commander shall consider RAB member responses, and in consultation with EPA, state, tribal and local government representatives, as appropriate, determine the appropriate actions.

(iii) Notify the public of the proposal to dissolve the RAB and provide a 30-day public comment period on the proposal, if the Installation Commander decides to proceed with dissolution. At the conclusion of the public comment period, the Installation Commander will review the public comments, consult with EPA, state, tribal and local government representatives, as appropriate, and, if the Installation Commander still believes dissolution is appropriate, render a recommendation to that effect.

(iv) Send the recommendation, responsiveness summary, and all supporting documentation via the chain-of-command to the Military Component's Environmental Deputy Assistant Secretary (or equivalent) for approval or disapproval. The Military Component's Environmental Deputy Assistant Secretary (or equivalent) shall notify the Office of the Deputy Under Secretary of Defense (Installations & Environment) (or equivalent) of the decision to approve or disapprove the request to dissolve the RAB and the rationale for that decision.

(v) Document the recommendation, responsiveness summary, and the rationale for dissolution in a memorandum for inclusion in the Administrative Record, notify the public of the decision through written notice to the RAB members and through publication of a notice in a local newspaper of general circulation and describe other ongoing public involvement opportunities that are available, once the Military Component's Environmental Deputy Assistant Secretary (or equivalent) makes a final decision.

(c) Reestablishing an adjourned or dissolved RAB. An Installation Commander may reestablish an adjourned or dissolved RAB if there is sufficient and sustained community interest in doing so, and there are environmental restoration activities still ongoing at the installation or that may start up again. Where a RAB is adjourned or dissolved and environmental restoration activities continue, the Installation Commander should reassess community interest at least every 24 months. When all environmental restoration decisions have been made and required remedies are in place and are properly operating at an installation, reassessment of the community interest for reestablishing the RAB is not necessary. When additional environmental restoration decisions have to be made resulting from subsequent actions, such as long-term management and five-year reviews, the installation will reassess community interest for reestablishing the RAB. Where the reassessment finds sufficient and sustained community interest at previously adjourned or dissolved RABs, the Installation Commander should reestablish a RAB. Where the reassessment does not find sufficient and sustained community interest in reestablishing the RAB, the Installation Commander shall document in a memorandum for the record the procedures followed in the reassessment and the findings of the reassessment. This document shall be included in the Administrative Record for the installation. If there is interest in reestablishment at a previously dissolved RAB, but the Installation Commander determines that the same conditions exist that required the original dissolution, he or she will request, through the chain-of-command to the Military Component's Deputy Assistant Secretary, an exception to reestablishing the RAB. If those conditions no longer exist at a previously dissolved RAB, and there is sufficient and sustained interest in reestablishment, the Installation Commander should recommend to the Deputy Assistant Secretary that the RAB be reestablished. The Deputy Assistant Secretary will take the Installation Commander's recommendation under advisement and may approve that RAB for reestablishment.

(d) Public comment. If the Installation Commander intends to recommend dissolution of a RAB or reestablish a dissolved RAB, the Installation Commander shall notify the public of the proposal to dissolve or reestablish the RAB and provide a 30-day public comment period on the proposal. At the conclusion of the public comment period, the Installation Commander shall review public comments; consult with EPA and state, tribal, or local government representatives, as appropriate; prepare a responsiveness summary; and render a recommendation. The recommendation, responsiveness summary, and all supporting documentation should be sent via the chain-of-command to the Military Component's Environmental Deputy Assistant Secretary (or equivalent) for approval or disapproval. The Installation Commander shall notify the public of the decision.



# FORMER NAVAL AIR WARFARE CENTER WARMINSTER

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### ATTACHMENT 4 H&S PRESENTATION

## Restoration Advisory Board Meeting



**NAWC Warminster  
18 April 2012**

Presented by



### Presentation Agenda

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- Treatment Plant Operation
  - Plant Operating Status
  - VOC Removal Evaluation
  - Permit Renewal Status Update
- LTM Update
  - Fall 2011 Sampling Round Status
  - Plans for Spring 2012 Performance Monitoring
  - Additional well closures



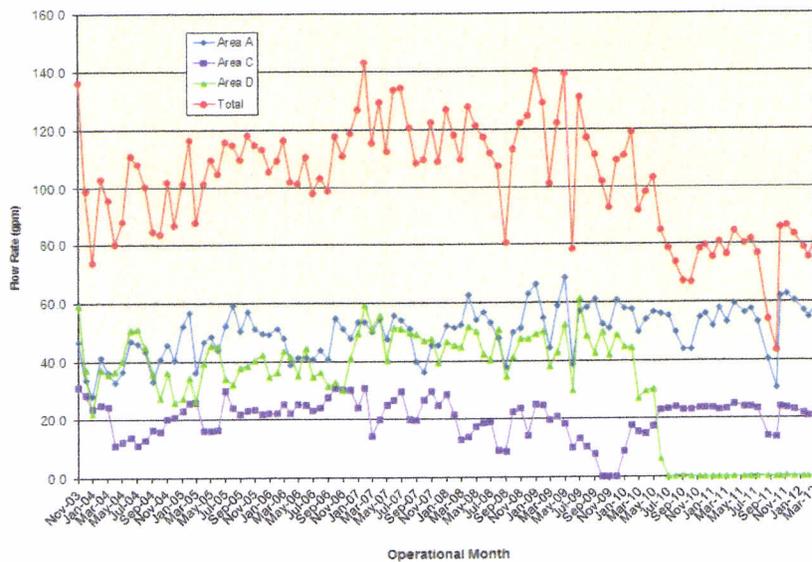
## GWTP Operation

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- Average flowrates for March 2012:
  - 58.4 gpm from Area A
  - 22.7 gpm from Area C
  - 0.0 gpm from Area D
  - 81.1 gpm overall
  
- 748,082,522 gallons treated through March 2012.



### Groundwater Treatment Plant Recovery Flow Rates



## GWTP Operation (cont'd)

- Recent maintenance activities:
  - Routine maintenance of air stripper (cleaning and replacement of gaskets) performed in December 2011.
  - Replacement of P-21 air stripper pump performed in January 2012.
  - Carbon change-out of two 1,500-lb vapor phase granular activated carbon (VGAC) units performed in March 2012.
  - Request for Determination (RFD) submitted to PADEP to concur with discontinued use of vapor phase carbon treatment.

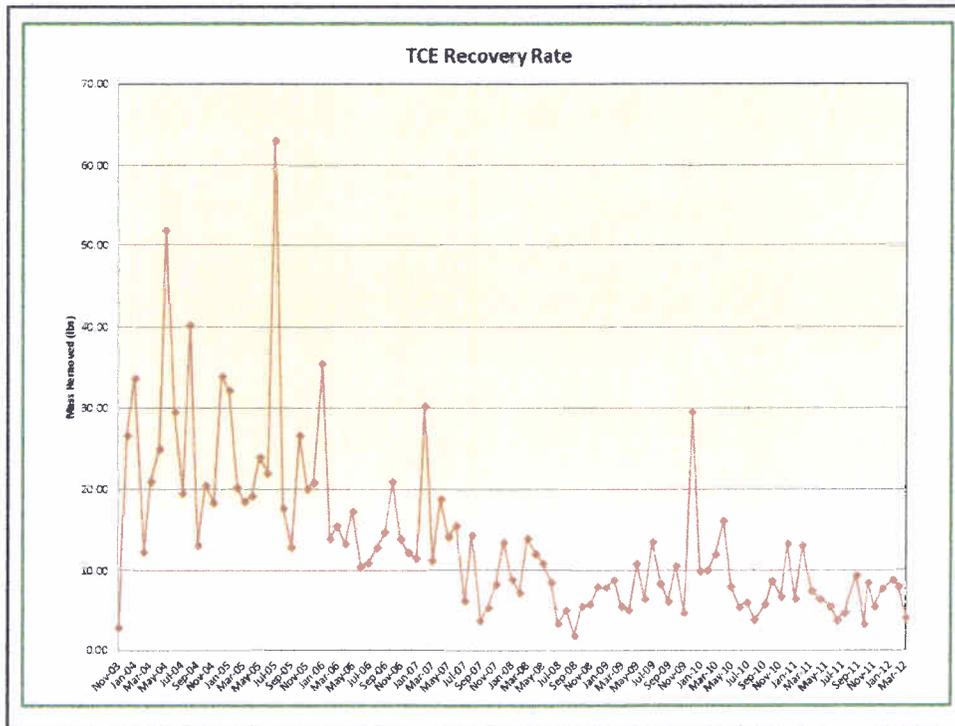


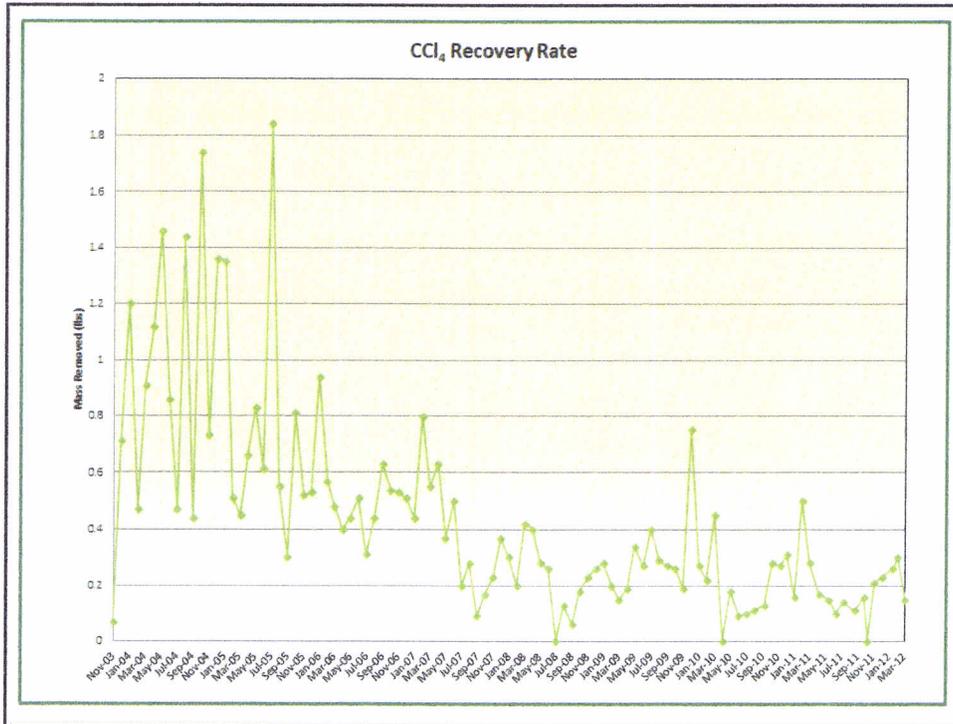
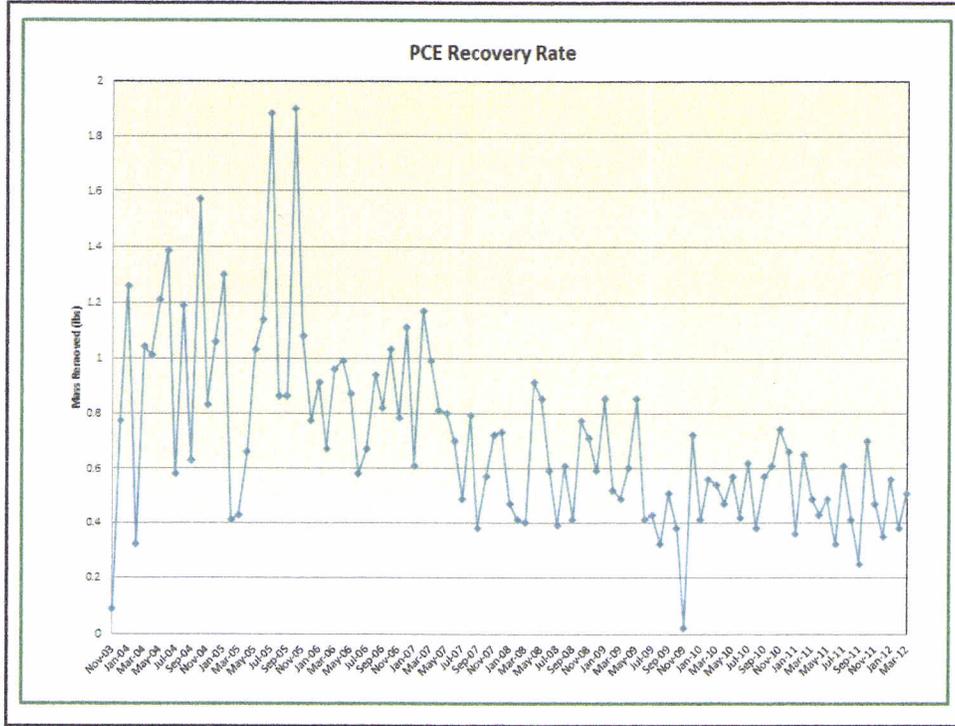
## GWTP Operation (cont'd) – VGAC Units



## Mass Removal

- Cumulative dissolved-phase VOC recovery through March 2012 reporting period:
  - Trichloroethene (TCE) – 4,673.6 pounds (4.05 lbs in 3/12)
  - Tetrachloroethene (PCE) – 138.4 pounds (0.51 lbs in 3/12)
  - Carbon Tetrachloride (CCl<sub>4</sub>) – 158.3 pounds (0.15 lbs in 3/12)
- Majority of VOC recovery is from Area A (4.05 lbs TCE, 0.40 lbs PCE, and 0.15 lbs CCl<sub>4</sub> in 3/12), with remainder of PCE recovery from Area C (0.10 lbs in 3/12).
- No recovery from Area D, as Area D extraction system is no longer in operation.





## GWTP Permit Renewal Status

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- NPDES Permit:
  - Current permit expires 30 April 2013.
  - Design of pH adjustment system for ion exchange currently in progress and nearing completion.
  - Permit application to be submitted once system modifications finalized. Application due 180 days prior to expiration.
- DRBC Renewal:
  - Current docket expires 30 April 2013.
  - Renewal application due 12 months prior to expiration. Submit mid-April 2012.



## LTM Update

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- Fall 2011 annual groundwater sampling performed in November 2011 (11/14/11 – 11/16/11):
  - Area A – 24 wells sampled, groundwater elevations from 66 wells.
  - Area C – 11 wells sampled, groundwater elevations from 25 wells.
  - Area D – 9 wells sampled, groundwater elevations from 37 wells.
  - Draft LTM Report scheduled for April 2012.
- Spring 2012 annual groundwater sampling event scheduled for mid-May 2012. LTM Report to follow.



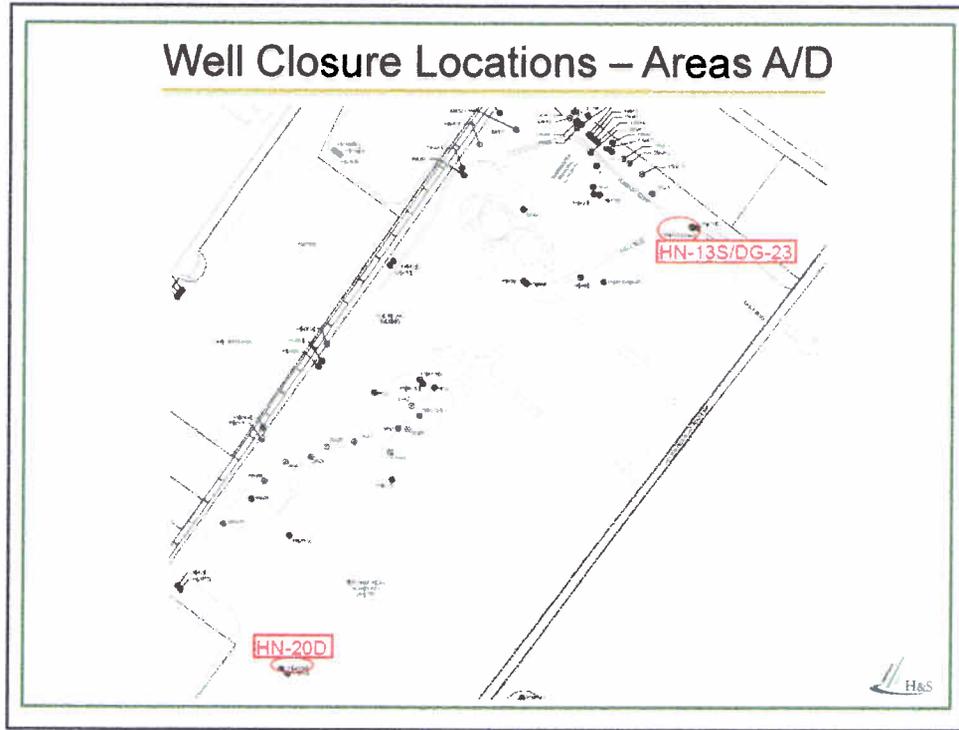
## LTM Update – Well Closures

- Several remaining monitoring wells identified by Willow Grove Caretaker Office in Shenandoah Woods area.
- Site visit conducted 5 March 2012 to identify and determine specifications of monitoring wells for decommissioning.
  - Monitoring wells EW-12, EW-14, and OB-7 identified in Shenandoah Woods housing area.
  - Monitoring wells OB-6 and OB-10 identified on property previously transferred to Penn State.
  - Monitoring wells DG-23 / HN-13S (Area A) and HN-20D (Area D) identified that had not previously been decommissioned.
- Decommissioning of above monitoring wells to be completed in conjunction with Spring 2012 LTM event (mid-May 2012).



## Well Closure Locations – Area B







# FORMER NAVAL AIR WARFARE CENTER WARMINSTER

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### ATTACHMENT 5 TETRA TECH PRESENTATION

## ***NAWC Warminster CERCLA Five-Year Review***

- **Required for sites with remedial actions selected under CERCLA §121 at which:**
  - The remedy, as documented in Record of Decision (ROD) does not allow for unlimited use and unrestricted exposure (UU/UE)
  - The remedy is not yet complete
- **Purpose:** To evaluate the implementation and performance of a remedy to determine whether it is or will be protective of human health and the environment
- **This is the third Five-Year Review for NAWC Warminster**

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## ***NAWC Warminster CERCLA Five-Year Review***

- **Sites included in the Five-Year Review process:**
  - OU-1, 1A, and 1B: Interim/final remedies for Area A and Area B groundwater
  - OU-3: Area C groundwater
  - OU-4: Area D groundwater
  - OU-7: Sites 6 and 7 soil/wastes
  - OU-9: Area A soil, surface water, sediment
  - OU-10: Site 5 soil, surface water, sediment

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## ***NAWC Warminster CERCLA Five-Year Review***

### **Components of Five-Year Review:**

- Base-wide introductory information
- Review of each site
  - To evaluate whether implementation and performance of remedy is protective of human health and the environment
- Base-wide protectiveness statement
- Information about next review

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## ***NAWC Warminster CERCLA Five-Year Review***

### **Findings – OU-1A**

- The remedy has been implemented as designed, is protective of human health and the environment, and is operating properly and successfully.
- No deficiencies or current issues were identified.
- No current vapor intrusion issues, but additional vapor intrusion assessment is recommended to consider future land uses.

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## *NAWC Warminster CERCLA Five-Year Review*

### **Findings – OU-3**

- The remedy has been implemented as designed, is protective of human health and the environment, and is operating properly and successfully.
- No deficiencies or current issues were identified.
- Additional vapor intrusion assessment is recommended.
- An ESD is recommended to document the remedial goal for PCE and remove thallium as a COC.

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## *NAWC Warminster CERCLA Five-Year Review*

### **Findings – OU-4**

- The remedy has been implemented as designed, is protective of human health and the environment, and is operating properly and successfully.
- No deficiencies or issues were identified.
- Additional vapor intrusion assessment is not necessary based on the results of the May 2011 evaluation.

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***NAWC Warminster  
CERCLA Five-Year Review***

**Findings – OU-7**

- The remedy (excavation/capping) has been implemented as designed and is protective of human health and the environment.
- No issues or deficiencies were identified.

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***NAWC Warminster  
CERCLA Five-Year Review***

**Findings – OU-9**

- The remedy (excavation/E&S controls) has been implemented as designed and is protective of human health and the environment.
- No issues or deficiencies were identified.

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## ***NAWC Warminster CERCLA Five-Year Review***

### **Findings – OU-10**

- The remedy (sediment monitoring) has been implemented and is protective of human health and the environment.
- No issues were identified.
- All ROD requirements have been met and the site is acceptable for UU/UE, therefore no further Five-Year reviews are required for OU-10.

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## ***NAWC Warminster CERCLA Five-Year Review***

### **Basewide Protectiveness Statement:**

- The remedies implemented are currently protective and upon completion will provide long-term protectiveness.
- The intents and goals of the RODs have been met or will be met.
- No deficiencies or issues were identified for any of the sites.

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## ***NAWC Warminster CERCLA Five-Year Review***

### **Status/Schedule:**

- Draft Five-Year Review Report was submitted in August 2011
- The Final Five-Year Review Report was signed in November 2011

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## ***NAWC Warminster Annual Land Use Control Inspections***

### **Objective:**

- To document the compliance status of the Land Use Controls (LUCs) and deed restrictions for the various land parcels of the former NAWC (and adjacent areas as appropriate).

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***NAWC Warminster  
Annual Land Use Control Inspections***

**Four general areas were evaluated for the inspections:**

- Area A (Sites 1, 2, 3)
- Area B (Sites 5, 6, 7)
- Area C (Sites 4, 8)
- Area D (Site 9)

**The inspections included both a field inspection and documentation research/contact with local authorities.**

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***NAWC Warminster  
Annual Land Use Control Inspections***

**Area A Restrictions:**

- Non-industrial use prohibited without Navy/EPA approval.
- No groundwater wells/withdrawals without Navy/EPA approval.
- Maintenance of erosion controls.
- No excavation at Sites 2 or 3 without Navy/EPA approval.

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***NAWC Warminster  
Annual Land Use Control Inspections***

**Area B Restrictions:**

- Residential and commercial/industrial use prohibited without Navy/EPA approval - reserved for recreational (park) use.
- No disturbance of the 2 foot soil cover or excavation of subsurface soils without Navy/EPA approval.

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***NAWC Warminster  
Annual Land Use Control Inspections***

**Area C Restrictions:**

- No groundwater wells/withdrawals without Navy/EPA approval.

**Area D Restrictions:**

- No groundwater wells/withdrawals without Navy/EPA approval.

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***NAWC Warminster  
Annual Land Use Control Inspections***

**The 2011 field inspections were performed in October.**

**The 2011 Land Use Control Inspection Report was released in March 2012.**

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***NAWC Warminster  
Annual Land Use Control Inspections***

**2011 Land Use Control Inspection Report Conclusions:**

- LUCs for each area are being complied with.
- No breaches of the restrictions were identified.
- Existing engineering controls/caps are in good condition.
- No corrective actions are required at this time.

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