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MINUTES AND AGENDA FOR RESTORATION ADVISORY BOARD MEETING HELD 12
MARCH 2009 NAS SOUTH WEYMOUTH MA
03/12/2009
NAVAL AIR STATION SOUTH WEYMOUTH



Naval Air Station South Weymouth, MA Restoration Advisory Board (RAB) Meeting Minutes March 12, 2009

1. INTRODUCTIONS/ APPROVAL OF PRIOR MEETING MINUTES

Mary Skelton Roberts opened the meeting at approximately 7:00 PM. She requested that all attendees, including RAB members, regulators, and audience members, introduce themselves. She noted that the meeting agenda, handouts, and the sign-in sheet were available on the back table. The sign-in sheet for the meeting is provided as Attachment A to this meeting summary. M. Skelton Roberts asked if everyone had time to read the minutes from the January 2009 RAB meeting and if there were any comments. There were no comments on the minutes. She stated that the January 2009 matrix will continue to be used to note issues. She asked that any changes be emailed to her.

M. Skelton Roberts then reviewed the ground rules for the meeting and reminded the meeting attendees that the focus of the meeting is cleanup issues; redevelopment issues will be placed on the 'parking lot.' She reviewed the guidelines for the meeting and reminded the participants when asking questions to wait to speak until they are acknowledged, to state their names and affiliations, and to speak clearly or into the microphone when they have questions.

M. Skelton Roberts then reviewed the agenda for the meeting. The meeting agenda and the Action Item Tracking List are provided as Attachment B to this meeting summary. In accordance with the agenda, the presentation and discussion would be followed by the Updates and Action Items portion of the meeting.

2. PRESENTATION

M. Skelton Roberts introduced Phoebe Call (Tetra Tech NUS) to give the presentation on Review Item Area (RIA) 111.

P. Call opened with the objectives of the presentation (Slide 2) and noted that focus would be on the work that has been completed at RIA 111 since the last update was provided (July 2004). She then briefly reviewed the site history. Old Hangar 2 was constructed in 1943 and used for 10 years, before being demolished in 1953. Only the concrete pad remains. The hangar was used for maintenance and storage of dirigibles. It sits within the West Mat Area (RIA 112). There is no information about the structures below grade at this location. Photographs from this area were obtained from government archives, but no drawings could be found. Slide 3 shows the location and size of Old Hangar 2.

Maintenance and mapping activities conducted between 2002 and 2004 included removal of demolition debris, sampling of the concrete floor and catch basins, completion of a video survey of the floor drains, and cleaning out the floor drains and catch basins. A closeout report summarizing these activities was issued in March 2006.

Based on discussions between the Navy and the regulators, additional sampling was conducted in August 2007 (Slide 4). Subsurface soil samples were collected along the drain lines and analyzed for VOCs, SVOCs, PAHs, pesticides, PCBs, and metals. This information was used in the RIA 111 Decision Document. Slide 5 shows the location of the samples collected during August 2007. The Decision Document followed the EBS process: the data were screened against the EBS human health and ecological benchmarks and base background values. This is the same process used for all the other RIA Decision Documents. The RIA 111 Decision Document concluded that the concentrations of arsenic and benzo(a)pyrene (a PAH) at one location (DP26) were of concern. Therefore further action was recommended. A data gap investigation was proposed to address the concern. The data gap sampling plan and field work were both completed in July 2008.

The Data Gap investigation included excavation of a test pit near DP26, soil borings near the catch basins, and collection of subsurface soil samples (Slide 6). Samples were analyzed for PAHs and metals. During the test pit excavation a vault was encountered. Under the direction of the Navy, the extent of the vault was determined, and a second test pit was added directly downgradient. The vault was 11 ft x 5.3 ft x 6 ft with concrete walls and floor. It contained soil and debris, which were removed and stockpiled nearby prior to off-site disposal. Slide 7 shows the north wall of the vault and a pipe entering the vault that was not connected to any of the known floor drains. Another open-ended pipe was located right above the floor of the vault. Slide 8 shows the excavated vault and the second downgradient test pit. Both test pits were backfilled with clean soil after sampling was completed.

A Field Report was prepared to document the findings and analytical results of the data gap investigation. The report was issued in December 2008. The analytical data were screened against the EBS human health benchmarks and base background values. The analytical data were not compared to ecological benchmarks since subsurface samples were collected and thus there were no ecological receptors. Exceedances were noted in samples collected from the test pits, so all the test pit soils were removed for off-site disposal. Analytical results for samples collected near the catch basins exceeded some metal screening criteria but there were no PAH exceedances. In two of the catch basins, CB2 and CB4, a gasoline-like odor was noted. Some of the material that was excavated from the vault was wood. The wood was analyzed for metals and also the EPA toxicity characteristic leaching procedure (TCLP) to

determine if it was a hazardous waste. The TCLP results indicated that it was non-hazardous and it was taken off-site for disposal.

The next steps were discussed and agreed to at a BRAC Cleanup Team (BCT) meeting held on February 5, 2009. The Navy agreed to complete a supplemental investigation to check for additional subsurface structures and investigate the organic/gas odors at specific locations. Ground-penetrating radar (GPR) will be used to investigate the area for subsurface structures. Test pit locations will be determined based on the results of the GPR survey and soil samples will be collected from the test pits. Field work will hopefully be conducted in May and then a field report will be prepared. After the report is complete, and if there are no further data gaps, the RIA 111 Decision Document will be finalized.

M. Bromberg asked if there was a known source for the arsenic and benzo(a)pyrene. P. Call stated that the location was below the concrete pad and no source is known, but the planned investigations will be designed to provide more information. The GPR survey is intended to show where the two pipes encountered in the vault terminate and the additional test pits will be located to determine the source.

H. Welch asked that if a problem is encountered, what is the remedy going to be and how are you going to deal with the concrete. P. Call stated that the concrete was cut and removed so the soil below could be sampled. The soil sampling grid was chosen based on the known locations of the floor drains from the earlier video work. The DP26 soil boring was the only location that showed exceedances and thus was the focus of the planned sampling. The concrete that was removed to access the subsurface soils is stockpiled at the site.

H. Welch stated his concern that they didn't know where the pipes came from and that contamination could be associated with them. He wondered if the concrete slab was going to be completely removed. D. Barney stated that as much of the concrete slab as necessary would be removed to address the contaminated soil. He also clarified that the Navy knew the nature of the utilities associated with the facility. There were a helium distribution system, steam lines, water lines, and storm drains.

M. Parsons asked what caused the gasoline odor. D. Barney stated that the floor of the hangar was sections of concrete. If there was a release of fuel it would migrate towards the catch basin, but if there was a crack or section in the slab, portions could have migrated through to the soil.

M. Parsons asked what the GPR was. K. Jalkut stated that as it is used to traverse the floor slab it sends a signal below the ground. The signal is reflected off subsurface structures or voids and the GPR picks up the reflected signal indicating what is below the slab.

D. Galluzzo stated his thanks to the Navy. He then asked if the slab had been tested for any contamination. P. Call stated there were no PID readings (e.g. no organics vapors detected) while the concrete was being broken up and removed. D. Barney stated that it is most likely that any gasoline on the slab would have volatilized or been washed away after 50 years in the open.

D. Galluzzo asked if there might be residual from a spill. D. Barney stated that as part of the EBS program the Navy had looked at the ends of the runways. They expected to see some fuel spillage and an RIA was established to investigate such spillage. If a spill occurred in the past, the response from the fire department was to wash it off of the concrete. Therefore, instead of sampling the concrete, the investigation focused on the soil adjacent to the ends of the runways.

A. Hilbert asked if there were any records concerning the pipe in the vault. D. Barney responded that there were none found.

M. Bromberg asked why they chose to drill borings downgradient of the catch basins. K. Jalkut stated that the boring locations targeted the downgradient side because that is the direction of groundwater flow. If there were contaminants in the catch basin, this is the direction they would be migrating. D. Barney added that the Navy did sample inside the catch basins as well (during the 2002 through 2004 investigations).

D. Galluzzo asked if there could be a base map, with the contaminated areas superimposed, and then the future development plans superimposed on top. D. Barney stated that it was possible, but it would be difficult to see the different layers.

M. Parsons asked if this was the location of the new sewage treatment plant. J. Young stated that this location would mostly be the golf area and that the treatment plant would be north of the old control tower, in the field between wetland areas.

M. Bromberg asked if there were buried pipes. K. Jalkut stated that there are a lot of buried pipes, but no connection to the pipes in the vault was found.

T. Pries asked if there was any speculation about the use or location of other vaults. D. Barney stated that additional vaults were not expected since thorough investigations have been conducted. In this case though, GPR will be used to obtain more subsurface information.

3. UPDATES AND ACTION ITEMS

Action Items:

- Provide the amount of natural habitat acreage – J. Young provided copies of a page from the Conservation & Management Permit (008-125.DFW) describing habitat impacts and mitigation. The text states that there is a direct alteration of 201 acres of endangered species habitat, which is then broken down by type. It also discusses the planned mitigation measures which include approximately 449 acres of open space and approximately 381 acres covered under the Public Benefit Conveyance. M. Parsons requested a signed copy of the permit. J. Young stated it will be available on the SSTITDC website.
- Provide acreage estimate for FOST 5B and FOST 6 property – D. Barney stated that the total acreage for FOST 5B is 81 acres and FOST 6 is 81 acres. M. Parsons asked if there were going to be additional FOSTs. D. Barney stated that there may be further divisions, like FOST 5C/FOST 5D, etc. due to costs and when different property acreage is ready to be transferred. M. Parsons asked how the FOSL was going. D. Barney stated that the Navy has completed the FOSL, but it is not signed and thus no new property has been leased.
- Provide photographs of landfill reuse with parking on cap – A. Malewicz to provide them at the next meeting.
- Provide ACOE 401 permit to those interested – J. Young stated that the ACOE permit is on the SSTITDC web site and people can request copies if desired.
- Provide an update on the contract for independent observer – A. Malewicz stated that the contract has been established and the person will be selected soon.
- Provide information and locations where sewage treatment systems similar to that proposed by SSTITDC have been constructed – J. Young stated that he will develop a list of similar types of facilities in the region and email the list to M. Skelton-Roberts, who will distribute it to the RAB.

M. Skelton Roberts asked each of the Leads to provide updates to the list of Update Items and stated that the EPA would also be providing an update.

RAB Administrative Actions: D. Barney stated that there were no updates.

EPA: J. Falvey provided information and a handout on the EPA TASC program that may be beneficial to the RAB. An EPA contractor company, E² Inc., provides the technical assistance services under this program. Jim Murphy is the EPA Region I contact for this program. It is similar to the TAG process but since it is a newer program, there is not as much competition for the funds. Assistance under this program has to be related to Superfund. To start the process an email must be sent to Jim Murphy indicating interest. The contractor will then perform a needs assessment to determine if funding is recommended. Under the TASC program E² can also help determine what type of TAG advisor you might need. Being able to use both programs would be beneficial to the RAB. B. Olsen stated that this program is more flexible than the TAG program, and it could help with the entire TAG process. There is more funding available and the program is fairly new, now in a pilot phase. A TAG grant has a \$50,000 limit; the TASC funding depends on the outcome of the needs assessment. EPA can arrange a presentation to provide the public more information. J. Falvey will get more information on the funding for both programs for next year.

MassDEP Update: D. Chaffin stated there was nothing new on state sites. A. Malewicz stated that there was solid waste meeting on March 10, 2009. Six DEP folks from Boston and the Southeast Region attended. Bob Johnson is the contact for solid waste issues. David Johnson was the regional engineer for the project. Dave DeLorenzo had some action items that he will follow up on (wetlands person). A. Malewicz is following up on coordination with the Natural Heritage state folks. During the meeting concrete, ABC (asphalt, brick, concrete) waste, peat, and some other issues of concern were discussed. There was not time to discuss the sewage treatment plant. D. Galluzzo stated that he is looking forward to the next meeting and appreciates the meeting. M. Skelton Roberts responded that another meeting had not been scheduled and that will be left to Ann's discretion.

Coast Guard Update: D. Barney recommended that the Coast Guard Update be removed and the MCP Update be deleted since there are no relevant MCP sites. This change was agreed to.

IR Program Site Update: D. Barney stated that the February monthly update was provided in the mailing of the RAB minutes. Sampling was conducted at RDA and this begins the third year (semi-annual events instead of quarterly). The AOC 60 and 61 RODs have been signed; there will be a public notice in the papers next week. The RODs will be posted on the Navy and EPA web sites. A BCT meeting was held February 5, 2009 and discussed a variety of items, including the RIAs. The Main Gate area will go through the CERCLA process to bring that site to closure. An EE/CA (engineering evaluation/cost analysis) will be prepared to support a removal action. Building 81, Building 82, and SRA are at different stages in the responses to comments on the draft RI Reports and supplemental Work Plans. The Feasibility Studies for these sites will start soon. The WGL now has sediment controls and a fence (chain link temporary) installed around the site. The Pre-Design Investigation for WGL will begin soon.

FOST/FOSL Update: The FOSTs have been signed but the property has not been transferred. The FOSL is ready but not yet signed. M. Bromberg asked if the deal between the Navy and SSTITDC was still going to be signed in March/April. D. Barney stated that the Navy is ready to complete the deal and is waiting for SSTITDC to be in a position to receive the property.

SSTITDC Update: Kevin Donovan started as Executive Director in February. The design/build contract for the East/West Parkway is now being negotiated with Barletta Heavy Industries. A list of upcoming /submitted permits was prepared and distributed; updates will be provided at future RAB meetings.

H. Welch asked if there were going to be meetings as part of the permit review process. R. Kleiman stated there may be a public meeting, but that is up to DEP. A. Malewicz will provide a DEP contact name to H. Welch so he can follow up on this.

M. Bromberg stated that he hopes the design of the Small Landfill will allow for future open space. He would like to see something similar to RDA.

D. Galluzzo stated his concern about the location of the new sewage treatment plant and would appreciate it being moved. R. Kleiman stated that during the NEPA process this location was selected as the "best" location.

Conclusion/Next Meeting

M. Skelton Roberts wrapped up the meeting. The next RAB meeting will be the second Thursday in May (May 14, 2009). The meeting topic will be the SRA RI.



**Naval Air Station South Weymouth
Weymouth, MA
Restoration Advisory Board
RAB Meeting Agenda**



March 12, 2009

Conference Center on Shea Memorial Drive

7:00 PM

<i>Agenda Items</i>	<i>Item Lead</i>	<i>Projected Time</i>
1. Introduction, Review of Meeting Notes	Facilitator	7:00 - 7:15
2. RIA 111 – Old Hangar 2 Presentation	Navy	7:15 – 8:15
3. Updates and Action Items	Navy	8:15 – 8:30
4. Questions, Agenda Items, Next Meeting	Facilitator	8:30 – 9:00

Facilitator: Mary Skelton-Roberts, Massachusetts Office of Dispute Resolution & Public Collaboration

Restoration Advisory Board (RAB) Members:

Abington: James Lavin, (Alternate: Steve Ivas); Phil Sortin (Alternate: Beth Sortin)

Hingham: no current representation

Rockland: no current representation

Weymouth: James Cunningham (Community Co-Chair); Ken Hayes; Dan McCormack; Steve White

Navy: Dave Barney (Navy Co-Chair)

EPA: Kymberlee Keckler (Alternate: Bryan Olson)

MA DEP: David Chaffin (Alternate: Ann Malewicz)

BRAC Cleanup Team (BCT) Points of Contact:

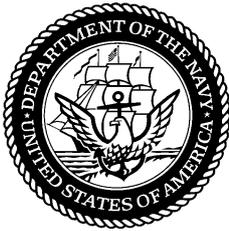
Navy: Dave Barney, BRAC Environmental Coordinator, Base Realignment and Closure Office, Program Management Office, Northeast (617) 753-4656
Email: david.a.barney@navy.mil

Brian Helland, Remedial Project Manager, Base Realignment and Closure Office, Program Management Office, Northeast (215) 897-4912
Email: brian.helland@navy.mil

MassDEP: David Chaffin, Environmental Engineer, Federal Facilities (617) 348-4005
Email: david.chaffin@state.ma.us

EPA: Kymberlee Keckler, Remedial Project Manager, Federal Facilities Section (617) 918-1385 Email: keckler.kymberlee@epa.gov

MassDEP Ombudsman: David DeLorenzo (617) 292-5774, Email: david.delorenzo@state.ma.us



Naval Air Station South Weymouth Restoration Advisory Board Action Item Tracking List



March 12, 2009 – Next RAB Meeting

<i>Action Item</i>	<i>Item Lead</i>	<i>Deadline</i>
ACTION ITEMS		
Provide the amount of natural habitat acreage.	J. Young/SSTTDC	See SSTTDC
Provide acreage estimate for FOST 5B and FOST 6 property	D. Barney/Navy	Next RAB
Provide photographs of landfill reuse with parking on cap	A. Malewicz/DEP	Next RAB
Provide ACOE 401 permit to those interested	J. Young/SSTTDC	See SSTTDC
Provide an update on contract for independent observer	D. DeLorenzo/DEP	Next RAB
Provide information and locations where sewage treatment systems similar to that proposed by SSTTDC have been constructed	J. Young/SSTTDC	See SSTTDC
UPDATES		
RAB Administrative Actions	D. Barney	Each RAB
MA DEP Update	D. Chaffin	Each RAB
Coast Guard Buoy Facility Update	R. Marino	Each RAB
IR Program Sites Update	D. Barney	Each RAB
MCP Release Areas Update	D. Barney	Each RAB
EBS Review Item Areas/ Various Removal Action Update	D. Barney	Each RAB
FOST/FOSL Update	D. Barney	Each RAB
SSTTDC Update	J. Lavin/ S. Ivas	Each RAB
COMPLETED ITEMS		
Provide various maps with perimeter streets and an acronym list. (10/08)		
Review suggestions to enhance the public participation process. (9/08)		
Provide FOST 3 and 4 Responsiveness Summaries to M. Bromberg (9/08)		
Send email announcing availability of FOST 5A for review (9/08)		
Discuss the parties involved in the cleanup and development of the Base (9/08)		
Provide suggestions to improve the public participation process. (6/08)		
Check location/depth of peat moved to south end of runway. (5/08)		
Determine Navy's role in the Enabling Legislation. (5/08)		
Provide the AOC 55C HHRA to A. Hilbert, J. Rakers, H. Welch. (3/08)		
Investigate issues with movement of peat during development. (1/08)		
Provide copies of EPA health risk requested by M. Bromberg. (1/08)		
Review routing of piping between STP Site and French Stream. (11/07)		
Provide location of Basewide Assessment floc samples. (10/07)		
Provide copies of parking lot response letter. (10/07)		
Provide groundwater data for transferred land (10/07)		
MDPH MS Study update (8/07)		
List of AULs; what and where they are (4/07)		
Provide vernal pools map to J. Cunningham (4/07)		
Copies of figures from Old Swamp River Study by Beta Group, Inc (03/07)		
Provide Hydrogeologic Investigation Tech Memo to D. Galluzzo (03/07)		
Distribute monthly Navy program status/administrative items update (03/07)		
Provide blueprint of old STP to H. Welch (01/07)		
Distribute monthly Navy program status/administrative items update (01/07)		
Check status of NAS South Weymouth website (01/07)		

**Update: Review Item Area 111
Old Hangar 2
Restoration Advisory Board
Meeting
March 12, 2009**

**Phoebe Call
Tetra Tech NUS**



Tonight's Objectives

- Update the RAB on activities completed to date at RIA 111.
- Review background information on the hangar.
- Summarize maintenance actions performed 2002-2004, and 2007 follow up investigations.
- Present conclusions of the 2008 RIA 111 draft Decision Document.
- Discuss 2008 data gap investigation and field report.
- Summarize next steps.

Background Information

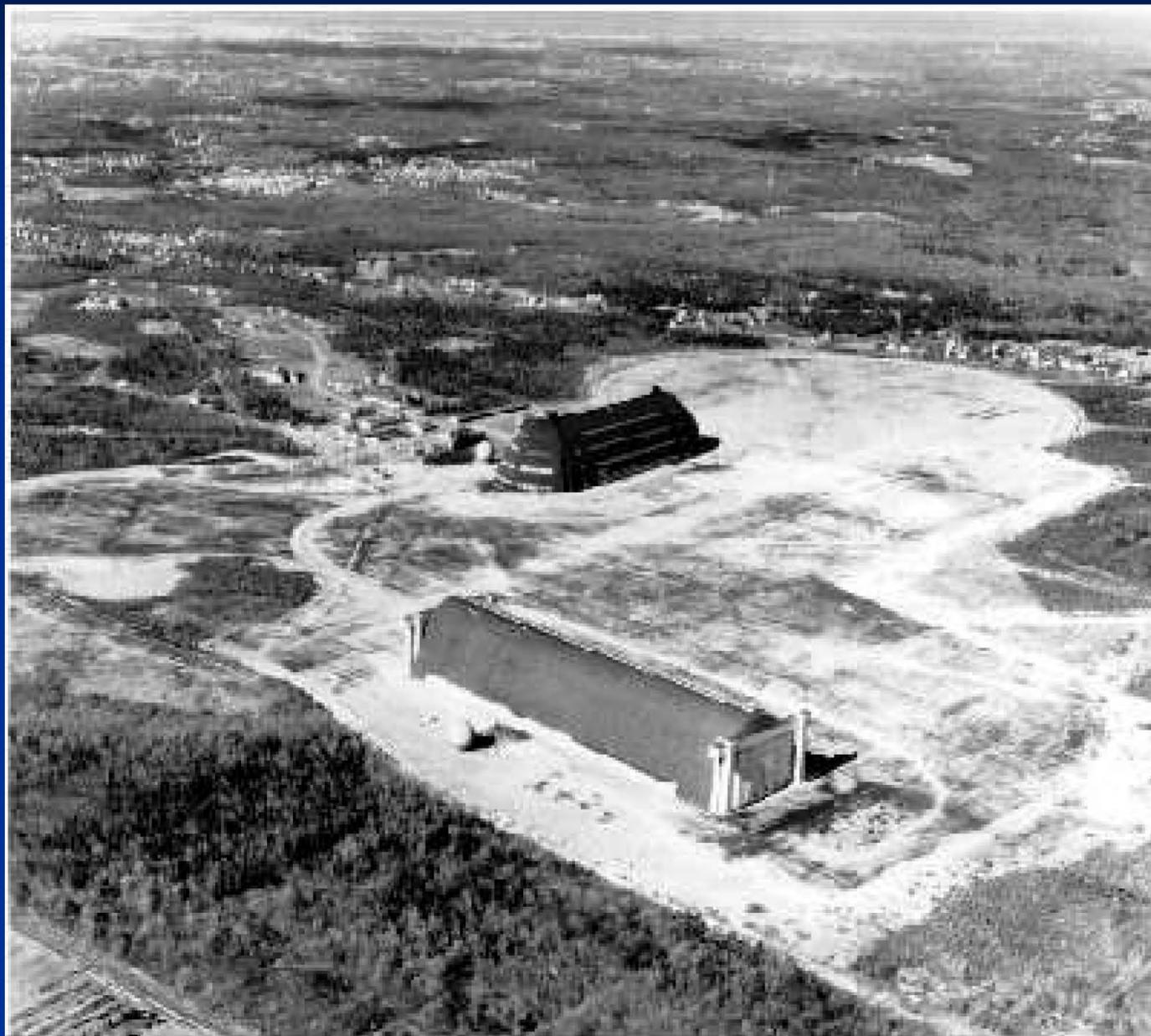
- Old Hangar 2 constructed in 1943 & demolished in 1953 (concrete pad remains).
- Hangar used for dirigible maintenance and storage.
- RIA 111 is in the SW portion of the West Mat (RIA 112).
- No construction drawings available.
- Searched government archives in Waltham, found photos, no drawings.

**1949 Aerial
Photo:**

**Hangar 2 at
bottom,
Hangar 1 in
center**



Hangar 2 (foreground)

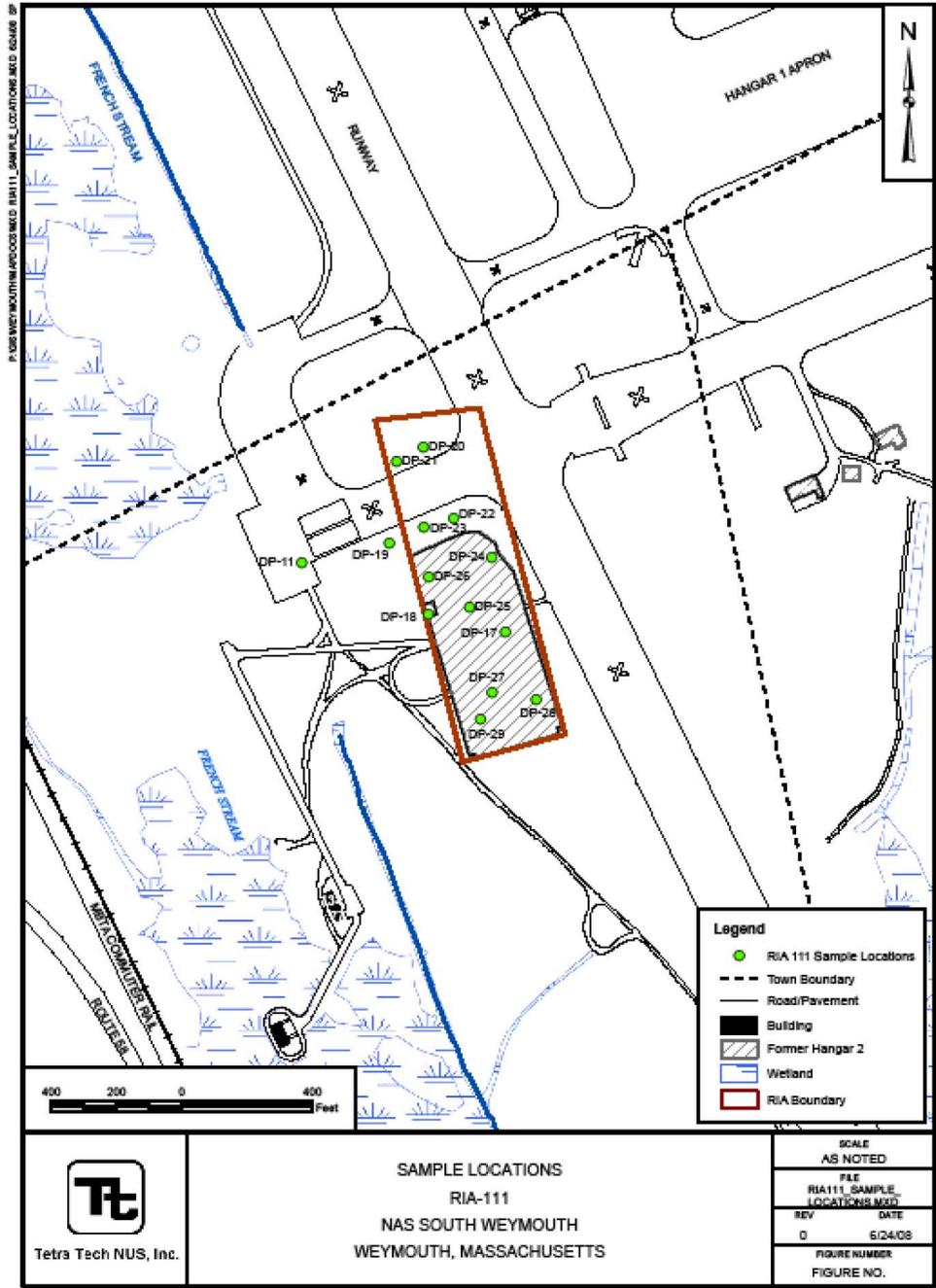


RIA 111 Maintenance and Storm Drain Mapping Activities 2002 to 2004

- **Removed demolition debris from area near old Hangar 2.**
- **Sampled under concrete floor and catch basins.**
- **Conducted video survey of floor drains, cleaned storm drain system and catch basins.**
- **Closeout report for maintenance and storm drain mapping activities issued March 2006.**

RIA 111 Activities - 2007

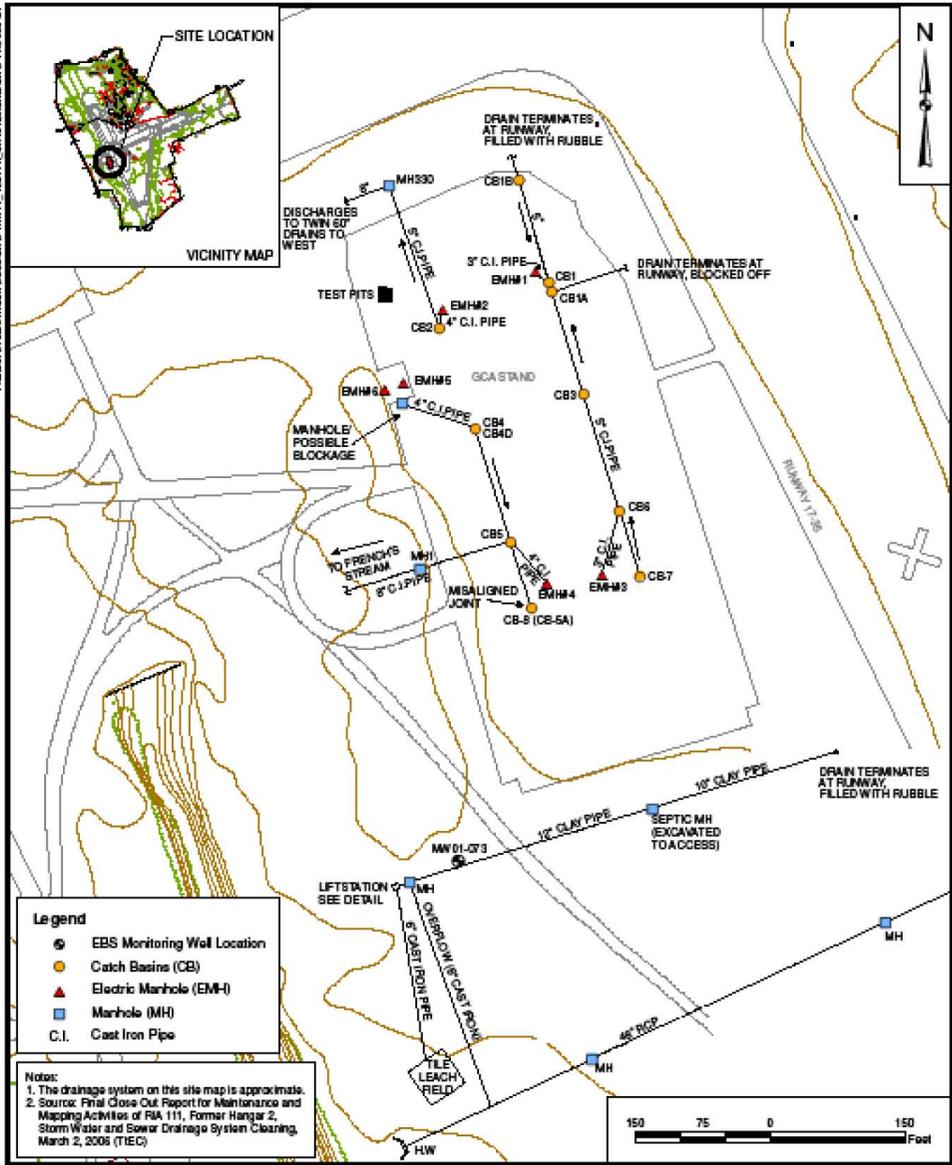
- **Sampling plan for the West Mat and East Mat issued in March 2007.**
- **Sampling conducted in August 2007.**
- **Subsurface soil samples collected from compromised pipe locations (based on storm drain video survey).**
- **Samples analyzed for TAL metals, TCL Organics**
- **Data were used in the draft EBS Phase II Decision Document for RIA 111.**



RIA 111 Activities - 2008

- **Draft Decision Document issued May 2008.**
- **Data were screened against EBS human health and ecological benchmarks and base background values.**
- **Concluded that concentrations of arsenic and benzo(a)pyrene at one location (DP26) were of concern; recommended further action.**
- **Navy proposed a data gap investigation to address the concern.**
- **Data gap sampling plan issued July 2008.**

POBWEV\YCHU\HAMPOSS\MAD 1111 - TEST PIT, CATCH BASIN, AND 112408.DWG



Legend

- EBS Monitoring Well Location
- Catch Basins (CB)
- ▲ Electric Manhole (EMH)
- Manhole (MH)
- C.I. Cast Iron Pipe

Notes:
 1. The drainage system on this site map is approximate.
 2. Source: Final Close Out Report for Maintenance and Mapping Activities of RIA 111, Former Hangar 2, Storm Water and Sewer Drainage System Cleaning, March 2, 2006 (TEC)



 Tetra Tech NUS, Inc.	RIA 111 SITE MAP TEST PIT AND CATCH BASIN LOCATIONS NAS SOUTH WEYMOUTH WEYMOUTH, MASSACHUSETTS	SCALE AS NOTED FILE RIA 111 TEST PIT, CATCH BASIN, AND REV DATE 0 11/24/08 FIGURE NUMBER FIGURE NO. 1
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RIA 111 Data Gap Investigation

- **Field activities: test pit near DP26; soil borings near catch basins; collection of subsurface soil samples.**
- **Samples analyzed for PAHs and metals.**
- **Test pit (TP-1) excavation encountered a vault, the purpose has not been determined.**
- **Navy directed excavation of the vault and a second test pit (TP-2) immediately downgradient of TP-1.**
- **Vault: 11ft x 5.3ft x 6ft; concrete walls and floor, open top; filled with soil and debris.**

DP-26 Sample Location, looking NW



Vault – looking at north wall



Vault – east wall, upper pipe



Vault – east wall, lower cast iron pipe



Looking North – TP-2 left, TP-1 right



Backfilled test pits looking west



Catch Basin 4, stake indicates SB08



Data Gap Investigation – cont.

- **Field Report documenting findings and analytical results issued December 2008.**
- **Analytical data were screened against human health benchmarks and background values.**
- **Exceedances in test pit samples were noted, so all test pit soils were removed for off-site disposal.**
- **Samples near catch basins exceeded some metal screening criteria; no PAH exceedances.**
- **A gasoline-like odor was noted near CB4 and CB2.**
- **Wood from the vault was analyzed; metals were similar to those in the vault soil. Wood disposed of off-site as non-hazardous waste.**

Next Steps

- Next steps were agreed to at a BCT meeting held February 5th.
- Navy will complete a supplemental investigation to check for additional subsurface structures & investigate organic/gas odors at specific locations.
- Field components: ground-penetrating radar, test pits, soil sample collection/analysis.
- Sampling plan/field work – April/May.
- Field Report to document the work.
- Finalize the RIA 111 Decision Document.