

RECORD OF DECISION

**AREA OF CONCERN 61 –
TACAN OUTFALL AND ASSOCIATED AREAS**

**NAVAL AIR STATION SOUTH WEYMOUTH
WEYMOUTH, MASSACHUSETTS**

**BRAC PMO NORTHEAST
U.S. NAVY**



DECEMBER 2008

**Record of Decision
Naval Air Station South Weymouth
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**Record of Decision
Naval Air Station South Weymouth
Part 1—Declaration**

PART 1—DECLARATION

I. SITE NAME AND LOCATION

Naval Air Station (NAS) South Weymouth
1134 Main Street
Weymouth, Massachusetts 02190
NPL No. MA2170022022
Area of Concern 61 – TACAN Outfall and Associated Areas

II. STATEMENT OF BASIS AND PURPOSE

This decision document presents the No Further Action decision for Area of Concern (AOC) 61 (Tactical Air Navigation (TACAN) Outfall and Associated Areas) at the former NAS South Weymouth, Weymouth, Massachusetts. The decision was made in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 USC § 9601 *et seq.*, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300 *et seq.*, as amended. The regulatory program performed under the context of these combined laws and regulations is commonly referred to as “Superfund.”

This decision is based on the Administrative Record, which has been developed in accordance with Section 113(k) of CERCLA, and which is available for review at the Navy’s Caretaker Site Office (CSO) located at NAS South Weymouth, Weymouth, Massachusetts. Local to the site, public information repositories are also maintained at the Tufts Library in Weymouth, Massachusetts; the Abington Public Library in Abington, Massachusetts; the Hingham Public Library in Hingham, Massachusetts; and the Rockland Memorial Library in Rockland, Massachusetts. The Administrative Record Index (Appendix D) identifies each of the items comprising the Administrative Record upon which the selection of this decision is based.

This decision had been selected by the U.S. Navy and the U.S. Environmental Protection Agency (EPA). The Massachusetts Department of Environmental Protection (MassDEP) concurrence on the selected decision is presented in Appendix A.

III. DESCRIPTION OF THE SELECTED DECISION

This Record of Decision (ROD) sets forth the No Further Action decision for AOC 61 (TACAN Outfall and Associated Areas) at NAS South Weymouth.

The No Further Action decision for AOC 61 is based on the Navy’s successful completion of a series of removal actions conducted at the site. In October, 2001, the Navy conducted PCB sampling in the TACAN Outfall ditch, the TACAN Tributary, and Taxiway C ditch to determine the extent of PCB contamination within the sediments, prior to beginning the removal action. In addition to PCBs, metals and polycyclic aromatic hydrocarbons (PAHs) were also identified as compounds which required removal, based on established criteria. Because of the nature of the drainage system, a number of swales and ditches upstream of the TACAN Outfall were also sampled and excavated as part of the removal action, which commenced in October 2002. Approximately 36,000 linear feet of storm sewer pipeline were cleaned and inspected using a remote-controlled video camera. Approximately 4,000 linear feet of sediment were excavated from upstream drainage ditches and 800 linear feet from the TACAN Outfall itself. A total of 3,968 tons of sediment was removed from the TACAN Outfall and associated drainage areas and was properly disposed of offsite. Post-excavation confirmatory samples were collected to

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ensure that the impacted sediment had been removed, or that remaining sediment concentrations were below cleanup goals for residential or ecological exposure. Wetlands disturbed during the removal actions have been restored. Based on these conclusions, the Navy has determined that the site does not pose an unacceptable risk to human health or the environment.

AOC 61 is among several AOCs currently on record at NAS South Weymouth. These AOCs have been addressed independently from the rest of NAS South Weymouth and, therefore, the Navy can proceed with closure of this site as soon as they have met the requirements of the Superfund process. The signing of this No Further Action ROD by the Navy and EPA Region 1 documents the completion of the Superfund process for AOC 61. The No Further Action decision for AOC 61 is not expected to have any impact on the strategy or progress for the rest of the environmental investigations at NAS South Weymouth.

IV. STATUTORY DETERMINATIONS

No further cleanup actions are necessary at AOC 61 under CERCLA to ensure protection of human health and the environment. Previous responses at the site, described above in the section entitled **Description of the Selected Decision**, have eliminated the need to conduct further remedial action and have adequately addressed site risks. Under CERCLA, if no unacceptable risks to human health or the environment are identified, then no further actions, investigations, or monitoring is required. The remedy completed for the site did not result in hazardous substances remaining on-site above levels that allow for unlimited use and unrestricted exposure; therefore, five-year reviews will not be required.

V. AUTHORIZING SIGNATURES

This ROD documents that No Further Action is necessary to ensure protection of human health and the environment for AOC 61 (TACAN Outfall and Associated Areas) at the former NAS South Weymouth. MassDEP's statement on the selected decision is presented in Appendix A.

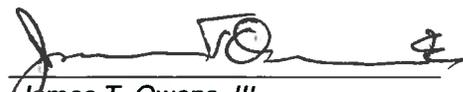
Concur and recommended for immediate implementation:

U.S. Department of the Navy

By: 
David A. Barney
BRAC Environmental Coordinator
Naval Air Station South Weymouth
U.S. Navy

Date: 2/23/09

U.S. Environmental Protection Agency, Region 1

By: 
James T. Owens, III
Director, Office of Site Remediation and Restoration
Region 1 – New England
U.S. EPA

Date: 3/4/09

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Part 2 – Decision Summary**

PART 2—DECISION SUMMARY

I. SITE NAME, LOCATION, AND DESCRIPTION

The former NAS South Weymouth (the Base) was placed on the National Priorities List (NPL) in May 1994 by EPA pursuant to CERCLA. During its operational period (1940s to 1996), NAS South Weymouth was owned by the U.S. Government, and was operated by the Department of the Navy. The Base is located primarily in the Town of Weymouth, Massachusetts. Portions of NAS South Weymouth extend into the adjacent Towns of Abington and Rockland, Massachusetts.

The Department of the Navy is the lead agency, and EPA is the lead regulatory agency, for CERCLA activities at NAS South Weymouth. The U.S. Department of Defense is the sole source of cleanup funding for the property. There are several operable units within the NAS South Weymouth NPL site (MA2170022022) that the Navy is addressing under CERCLA. This ROD pertains to Area of Concern (AOC) 61 (TACAN Outfall and Associated Areas).

AOC 61 consists of the TACAN Outfall, its drainage ditch, Taxiway C ditch, and the TACAN Tributary which are located in the triangular area between former Runways 17-35 and 8-26 and Taxiway C in the southern part of the Base, in the Town of Rockland; this area is the original extent of AOC 61. Also included are seven other storm water drainage ditches and swales (Navy Exchange (NEX) Swale, Fuel Farm Swale, RIA 30B Swale, Virgo Street Ditch, Connecting Swale, Barracks Ditch, and the western end of the East Mat Ditch) located in the northern half of the Base in the Town of Weymouth (Figure 2-1). These ditches and swales collectively drain storm water from various locations around the Base and ultimately discharge to the TACAN Outfall ditch via underground piping.

The TACAN Outfall area encompasses approximately 1.8 acres. The surrounding area is comprised of relatively flat grassy areas and wetlands. Several concrete and asphalt-paved areas also exist within a 200 ft radius of the TACAN Outfall.

II. SITE HISTORY AND ENFORCEMENT ACTIVITIES

A. Site History

NAS South Weymouth was constructed during the 1940s as an aircraft facility for dirigibles used to patrol the North Atlantic during World War II. The facility was closed at the end of the war and reopened in 1953 as a Naval Air Station for aviation training. NAS South Weymouth was in continuous use since that time a Naval Air Reserve training facility until it was operationally closed on September 30, 1996 as part of the Base Realignment and Closure (BRAC) program. Administrative closure was completed in September 1997.

The TACAN Outfall and its drainage ditch were constructed adjacent to a wetland area. Their purpose was to drain storm water run-off away from large areas of NAS South Weymouth. This was accomplished through collection in a number of swales, ditches, and catch basins around the Base, which are connected via underground piping that culminates at the TACAN Outfall or TACAN Tributary. Water from the TACAN Outfall and the TACAN Tributary merge in the TACAN Ditch and eventually is discharged into French Stream, which flows through the western side of the Base. Prior to the 1980s, the building floor drain systems also connected to the storm drain system and thus, the TACAN Outfall. Several releases of various fuels directly into the TACAN Outfall have been documented and various environmental sites at the Base may also have contributed water and sediment to the TACAN Outfall via the drainage system.

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Releases of jet fuel and fuel oil that may have migrated to the TACAN Outfall were documented between 1986 and 1994. The 1994 spill resulted in the assignment of a release tracking number (RTN 3-10739) under the Massachusetts Contingency Plan (MCP). The Navy performed an Immediate Response Action, and in accordance with the MCP, closed out the RTN in May 1994 (TtEC, 2005).

B. History of Site Investigations

The following sections provide an overview of the Navy's completed investigations at AOC 61 under CERCLA. Full details are available for review in the April 2005 Final Engineering and Evaluation Cost Analysis for TACAN Outfall Sediment Removal and Storm Water Drainage System Cleaning (TtEC, 2005), the August 2008 Closeout Report for Review Item Area 61 (TtEC, 2008), and the August 2008 Technical Memorandum for Area of Concern 61 (TtNUS, 2008). A list of references is supplied in Appendix B.

The various EBS investigations, removal actions, and other evaluations conducted at AOC 61 are described below in chronological order. Sampling locations and removal action limits are shown on Figures 2-2 through 2-8. Sampling results are summarized in Tables 2-2A through 2-11.

Phase I EBS – 1995

The Navy performed a Phase I EBS (Stone & Webster, 1996) to assess the environmental condition of the Base property. Areas that required further investigation for potential contamination were designated as Review Item Areas (RIAs). The TACAN Outfall area was designated as RIA 61.

Phase II EBS – 1998-2000

The Navy conducted a Phase II EBS investigation to assess the RIAs identified in the Phase I EBS. The RIAs were investigated as separate sites during the Phase II EBS and each site was sampled for potential contaminants. The Phase II EBS results for RIA 61 were screened against human health and ecological risk benchmark values as well as background concentrations, where applicable. The screening indicated potential risks to human health and the environment. At NAS South Weymouth, RIAs that exceed either risk benchmarks or background values for more than one hazardous substance become CERCLA AOCs. RIA 61 thus was designated as AOC 61. AOC 61 is 1 of 18 CERCLA AOCs located at NAS South Weymouth.

Phase II EBS Supplemental Sampling – 2001

The Navy collected additional samples in the TACAN Outfall Ditch for PCB analysis to better define the extent of PCB contamination in sediment. AOC 61 originally consisted only of the TACAN Outfall Ditch, thus the Phase II EBS investigation focused on the existing PCB contamination within that area. The Navy concluded that a removal action was required at AOC 61 due to the elevated concentrations of PCBs in the sediments. Elevated PCB concentrations were detected in the TACAN ditch up to 500 feet south of the TACAN Outfall headwall. In October 2001, the highest PCB concentration (12 mg/kg) was detected approximately 150 feet south of the TACAN Outfall headwall. The Navy established a target cleanup level of 1 mg/kg total PCBs based on the Toxic Substances Control Act (TSCA) (15 U.S.C. s/s 2601 et seq., 1976) Level for Residential Unrestricted Access.

Engineering Evaluation and Cost Analysis – 2002

To facilitate the removal action, a Draft Engineering Evaluation and Cost Analysis (EE/CA) (Foster Wheeler, 2002) was prepared to evaluate alternatives for removal of the sediment from the TACAN Outfall and cleaning of the storm drain system. This document identified the sediment from the entire

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storm drain system as the source of contamination in the TACAN Outfall and ditch, and presented the results of exploratory sampling to identify the nature and extent of contamination within the entire storm drainage system. This additional sampling of drainage ditches and swales was conducted to determine if excavation of these areas would be necessary in association with the storm water drainage system cleaning. All samples were analyzed for target analyte list (TAL) metals and target compound list (TCL) organics. The EE/CA established sediment removal action criteria as follows:

- PCB concentrations exceeding the Toxic Substances Control Act (TSCA) cleanup criterion of 1 mg/kg
- Metals, PAH, or semi-volatile organic compound (SVOC) concentrations exceeding both the EBS ecological screening benchmarks and NAS South Weymouth base-wide background values, and
- Metal, PAH, and SVOC concentrations exceeding both the EBS human health screening benchmarks (not the 1/10th value used at some sites) and NAS South Weymouth base-wide background values.

The exploratory sample results were screened using the above criteria; removal action objectives (RAOs) were established for the TACAN Outfall and storm water drainage system components. The RAOs are listed in Section 7.1 of the EE/CA and include: reducing the potential for human/ecological exposure to contaminated sediment; minimizing the potential for contaminated sediment migration off NAS SOWEY property; reducing the potential for recontamination of any part of the drainage system; and protecting human health and the environment (TtEC, 2005). Based on the EE/CA, nine of the ten ditches and swales were selected for excavation due to exceedances of PAHS, metals, and/or PCBs. The Taxiway C Ditch was the only location where no sediment excavation was required.

To meet the RAOs, three alternatives were developed and evaluated based on their effectiveness, implementability, and cost. The three alternatives are listed below and are discussed in detail in Sections 9 and 10 of the EE/CA (TtEC, 2005).

- Alternative #1: No Action
- Alternative #2: TACAN Outfall Sediment Excavation, Storm Water Drainage Pipe Jet-Spraying, and Camera Inspection
- Alternative #3: TACAN Outfall Sediment Excavation, NAS SOWEY Storm Water Drainage System Removal and Replacement, and Backfilling

Alternative #2 was selected as the most appropriate removal action to meet the environmental RAOs and to comply with the site-specific ARARs, while keeping the work scope and costs reasonable.

Removal Actions – 2002-2004

Between 2002 and 2004, the Navy conducted the following activities at AOC 61 as a non-time critical removal action under CERCLA: site mobilization and preparation, including installation of a temporary on-site water treatment system (WTS) and NPDES permit for on-site discharge of treated water from field activities; exploratory sampling; two mobilizations for jet-spraying of drains and soil/sediment excavation from swales and ditches; diversion of storm water from excavation areas and diversion/containerization of jet spraying rinsate into the on-site WTS; confirmatory sampling; material staging; waste material transport and off-site disposal of contaminated sediment; treatment, analysis, and discharge of treated water from the jet-spraying operation; decontamination; backfilling/restoration; and demobilization (Tetra Tech EC, 2008).

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The limits of the removal action excavation and the associated exploratory and confirmatory samples are shown on Figures 2-2 through 2-8, adapted from the Closeout Removal Action Report (CRAM) (TtEC, 2008). The appropriate town conservation commissions were notified of the Navy's intent to clear areas prior to the sediment excavation activities and restore the areas following completion of excavation. The CRAM provides more detailed information on the sediment excavation and jet spray cleaning activities, including complete analytical results for confirmatory samples. Jet spraying operations began in October 2002 at the farthest upstream point in the drainage system (Coast Guard Housing Area) and proceeded southwards, along with excavation activities, downstream to the TACAN Outfall ditch. The sediment spot excavation activities from ditches and swales associated with the storm water drainage system and TACAN Outfall are summarized below.

NEX Swale: Five exploratory samples collected from the NEX Swale (Figure 2-2) in April 2002 for TAL/TCL constituent analysis showed exceedances of toluene, chromium, copper, and lead. The Navy excavated the entire NEX Swale (approximately 365 linear feet) and collected confirmatory samples for metals and VOC analyses. Results for confirmatory samples (Table 2-2A) indicated exceedances of metals (arsenic, beryllium, chromium, and lead) in two confirmatory samples and led to re-excavation of the southern area of the NEX Swale (Figure 2-3) to a greater depth. A second round of confirmatory samples analyzed for metals showed that no unacceptable risks remained in this area following the second excavation. Approximately 207 tons of sediment were removed from the NEX Swale for off site disposal as part of this removal action.

Fuel Farm Swale: During the exploratory sampling in 2002, the only analyte which exceeded screening benchmarks at the Fuel Farm Swale (Figure 2-2) was benzo(g,h,i)perylene. The Navy removed approximately 150 linear feet of accumulated sediment from the Fuel Farm Swale in November 2002. The confirmatory sample (Table 2-3) did not show any concentrations that exceeded background levels. Approximately 204 tons of sediment were removed and disposed of off site.

RIA 30B Swale: Eight exploratory sediment samples were collected in the RIA 30B Swale (Figure 2-2) in fall 2002. PCBs in one sample location and concentrations of nine PAHs and seven metals exceeded the screening criteria. The Navy excavated approximately 700 linear feet of material from the swale and collected confirmatory samples. The first set of confirmatory results from November 2002 still showed two metal (antimony and chromium) and numerous PAH exceedances, so the Navy conducted an additional excavation (Figure 2-3). The second round of confirmatory samples from December 2002 (Table 2-4A) was analyzed for PAHs and metals and showed no exceedances of the screening criteria, indicating that the removal action was effective. Approximately 1,078 tons of sediment were removed and disposed of off site.

Virgo Street Ditch: During the 2002 exploratory sampling, sediment samples were collected at 100-foot intervals along the Virgo Street Ditch (Figure 2-2). Based on exceedances of benzo(g,h,i)perylene in two samples, the Navy excavated 300 linear feet of sediment from this ditch. Two confirmatory samples (Figure 2-3) were analyzed for TAL metals and TCL organics. One analyte, benzo(g,h,i)perylene, exceeded both background and ecological benchmarks (Table 2-5). The ditch was not re-excavated; however, a risk evaluation of the confirmatory sample results indicated that there was no significant risk of harm to vertebrate wildlife receptors from the reported concentration of benzo(g,h,i)perylene (Stone & Webster, 2004). Approximately 324 tons of sediment were removed and disposed of off site.

Connecting Swale: Based on a PAH exceedance (benzo(g,h,i)perylene) identified in one of 11 exploratory samples, the Navy excavated approximately 200 linear feet of sediment from the Connecting Swale (Figure 2-3). No PAHs were detected in the confirmatory sample (Table 2-6) that was collected after excavation. Approximately 217 tons of sediment were removed and disposed of off site.

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Barracks Ditch: Three exploratory samples were initially collected from the Barracks Ditch (Figure 2-2) in 2002 and were analyzed for TCL/TAL constituents. Concentrations of six PAHs and two pesticides (endosulfan sulfate and aldrin) exceeded the screening criteria. Accordingly, the Navy excavated approximately 700 linear feet of sediment from the Barracks Ditch. One confirmatory sample collected and analyzed for PAHs showed no exceedances. Approximately 370 tons of sediment were removed and disposed of off site.

East Mat Ditch: Ten exploratory samples collected in 2002 in the western portion of the East Mat Ditch (Figure 2-2) were analyzed for TCL/TAL constituents. Due to exceedances of metals, PAHs, pesticides, and one PCB (Aroclor-1260) in the sediment, the Navy excavated approximately 350 linear feet of the western end of the East Mat Ditch in December 2002. Confirmatory samples were collected and analyzed for TCL/TAL parameters. The concentration (2900 µg/kg) of Aroclor-1260 in one sample (EMDC-SD03) exceeded the 1 mg/kg Toxic Substances Control Act (TSCA) residential screening level and led to re-excavation in that area (Figure 2-3). A second confirmatory sample (EMDC-SD03A), collected from this location after re-excavation (Table 2-8), showed an Aroclor-1260 concentration below the TSCA criterion. Approximately 344 tons of sediment were removed and disposed of off site.

TACAN Tributary: Seven exploratory samples were collected in 2002 from the TACAN tributary (Figure 2-4). Cadmium in one sample exceeded the ecological benchmark and its background value. The Navy excavated approximately 200 linear feet of sediment in November 2003 during the second mobilization. Confirmatory samples (Table 2-9) were collected from the excavated area (Figure 2-5) and the results were screened against the various benchmarks. One COPC, carbon disulfide, exceeded the ecological benchmarks; however, a risk evaluation determined that its concentration would not cause unacceptable risk to ecological receptors or the environment.

TACAN Outfall and Ditch: Between 2001 and 2003 various exploratory samples were collected for either PCBs only or full TCL/TAL analysis. Based on the PCB analytical results, the entire length (700 feet) of the outfall ditch, upstream of the weir, was excavated. One pesticide (endosulfan sulfate), lead, and five PAHs exceeded the screening criteria in two of the four exploratory samples (Table 2-10A) that were collected downstream of the weir (Figure 2-4). Based on these results, 100 linear feet of sediment downstream of the weir were also excavated in November 2003.

Confirmatory samples (Figure 2-5) were collected from the bottom of the excavation and analyzed for TAL metals and TCL organics; sidewall samples were analyzed for PCBs only (Table 2-10C). Twelve PAHs in one sample (SD-01) from the northern end of the excavation exceeded screening criteria (Table 2-10B). Approximately 200 feet at the northern end of the TACAN Outfall ditch were re-excavated; confirmatory sample results (Table 2-10B) indicated acceptable concentrations at the re-excavated location (SD-01A). Approximately 1,107 tons of sediment were removed from the area of the TACAN Outfall and the TACAN Tributary.

Swale and Ditch Restoration: After excavation in the areas described above was successfully completed, swales and ditches in wetlands or wetland buffer zones were restored. Loam or hydric soil was placed in the excavated area and disturbed areas were reseeded. Restoration was performed in the Virgo Street Ditch, Connecting Swale, Barracks Ditch, East Mat Ditch and Fuel Farm Swale (TtEC, 2008).

December 2006 Sampling Event

In December 2006, the Navy collected an additional three samples from the NEX Swale, four samples from RIA 30B Swale, and seven samples from Barracks Ditch (Figure 2-6). The objective of this sampling event was to assess if contaminated sediment existed within areas where there were insufficient data. Samples were collected at 100-foot intervals and at a depth of 0 to 1 foot below ground surface (bgs). Samples were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, and TAL metals. Analytical results were compared to the same human health and ecological risk criteria that were used previously,

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and were compared to basewide background concentrations, where applicable. The analytical data for samples at NEX Swale (Table 2-2B) and Barracks Ditch (Table 2-7) indicate that the earlier removal actions had successfully mitigated potential risks at these areas.

At the RIA 30B Swale (Table 2-4B), the concentration of ideno(1,2,3-cd)pyrene (648 µg/kg) exceeded the ecological benchmark and slightly exceeded the Region IX PRGs, but did not exceed the MCP S-1/GW-1 standard (7,000 µg/kg). Therefore, it was unlikely to be a concern to human health. Although the indeno(1,2,3-cd)pyrene concentration in the one sample exceeded its ecological benchmark, it was not much greater than the background level of 490 µg/kg. Since this PAH only exceeded background in one sample, it was not expected to have any adverse effects on ecological receptors. While the benzo(g,h,i)perylene concentration (469 µg/kg) exceeded the ecological benchmark, it was within the range of concentrations detected in the Virgo Street Ditch confirmatory samples for which it was shown that there was no significant risk to ecological receptors.

August 2007 Sampling Event

Following clean out and camera inspection of the storm water drainage system and in response to EPA concerns about the integrity of the piping, in August 2007 the Navy collected subsurface soil samples adjacent to potentially compromised sections of the storm drainage piping. Eight subsurface soil samples (Figure 2-7) were collected adjacent to compromised piping associated with AOC 61 and were analyzed for full suite TCL/TAL constituents.

Arsenic in two samples and iron in one of the two samples exceeded background values and PRGs (Table 2-11). The maximum concentrations of these metals were further evaluated: the maximum arsenic concentration (2 mg/kg) was less than the applicable MCP S-1/GW-1 soil standard (20 mg/kg) and iron is considered to be an essential nutrient. These two metals therefore do not pose unacceptable risks to human health. Because these results are for subsurface soils, which do not provide a complete exposure pathway for ecological receptors, they were not screened against ecological benchmarks.

June 2008 Sampling Event

In June 2008, six soil samples were collected for PCB analysis from the east and west banks of the TACAN ditch south of the headwall (Figure 2-8). This sampling was performed to address EPA concerns about potential PCB contamination around the outfall area due to flood flow backup from the weir downstream of the TACAN Outfall. Aroclor-1260 was detected in low concentrations in two samples (Table 2-10D), but did not exceed the screening benchmarks.

AOC 61 Technical Memorandum - 2008

The Navy prepared a Technical Memorandum which compiled the various data sets that represent current site conditions at AOC 61 and screened these data against applicable basewide background levels and ecological and human health benchmarks. The technical memorandum incorporated a dataset comprising analytical data from the post-excavation samples and the three sampling events described above and from one sampling event associated with the Solvent Release Area Site Remedial Investigation. The sample locations for AOC 61 are depicted on Figures 2-3 through 2-8. The current conditions data set, which includes sediment and soil data from the four AOC 61 sampling events, is presented in Table 2-2A through Table 2-11.

Sediment sampling data representing current site conditions (i.e., following the AOC 61 removal actions) were compared to the available basewide background levels. Those results exceeding background levels for PAHs and inorganics were then compared to EBS benchmarks as a further screening step for potential risk concerns. VOC and pesticide/PCB sampling data were compared to EBS benchmarks. The memorandum concluded that there are no identified risk concerns associated with the dataset

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representing current site conditions. Therefore, the Navy concluded that the removal actions successfully mitigated potential risks associated with past disposals to the TACAN Outfall and associated areas and that a No Further Action recommendation is appropriate for AOC 61.

C. History of CERCLA Enforcement Activities

In May 1994, NAS South Weymouth was listed on the EPA NPL, indicating that the NAS South Weymouth property was a priority for environmental investigation and cleanup. The Navy has conducted environmental studies and activities at NAS South Weymouth in accordance with CERCLA and the NCP. Based on the designation of NAS South Weymouth property as an NPL site, a Federal Facility Agreement was executed by the Navy and EPA, which became effective in April 2000. This agreement establishes the Navy as the lead agency for the investigation and cleanup of designated sites within NAS South Weymouth property, with EPA providing oversight. MassDEP is not a party to the Federal Facility Agreement. In accordance with CERCLA and the NCP, MassDEP has participated in ongoing discussions and strategy sessions, and provides oversight and guidance through their review of CERCLA documents.

III. COMMUNITY PARTICIPATION

The Navy has worked to keep the community involved throughout the investigation process. The Navy has kept the community and other interested parties apprised of NAS South Weymouth environmental activities through informational meetings, fact sheets, press releases, public meetings, regular contact with local officials, and a public website. Also, the Navy meets on a regular basis to discuss the status and progress of the environmental programs with the Restoration Advisory Board (RAB), which is comprised of community leaders, government agency representatives, and local citizens who gather to discuss the progress of the environmental programs at NAS South Weymouth. Representatives from the Navy, EPA Region 1, MassDEP, and local government have attended the public meetings and hearings. The following is a brief chronology of public outreach efforts for AOC 61:

- In September 1995, the Navy initiated a series of public meetings, at which the RAB process was explained and community members were asked to join the RAB. A sufficient number of volunteers assembled, and RAB meetings began in March 1996. Since that time, RAB meetings have been held on a monthly or bi-monthly basis to keep the RAB and local community informed of the progress of the environmental investigations. The Navy has prepared and distributed minutes from each of the RAB meetings. Meeting minutes are available to the public on the Navy's public website for environmental activities at the former NAS South Weymouth.
- In March 1996, the EPA awarded the North and South Rivers Watershed Association (NSRWA) a Technical Advisory Grant (TAG). This TAG allowed the NSRWA to hire a Technical Advisor to review documents, attend meetings, and prepare evaluation reports. The Technical Advisor attended most RAB meetings and technical project meetings when the TAG was active.
- In July 1998, the Navy released a community relations plan that outlined a program to address community concerns and keep citizens informed about and involved in remedial activities.
- In May 1999, the DoD gave the RAB for NAS South Weymouth a Technical Assistance for Public Participation (TAPP) grant. This grant allowed the RAB to obtain technical assistance from experts in the environmental field to help them understand the environmental cleanup programs at the Base.

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- The Navy has distributed technical documents directly to the RAB members, including the EECA, the Closeout Report Action Memoranda, and field reports. Technical documents are also available at the information repositories listed below.
- The Navy provided periodic updates on the status of the Site during various public RAB meetings.
- The Navy published a legal notice of the Proposed Plan for AOC 61 in the Patriot Ledger (October 1, 2008), the Abington-Rockland Mariner (October 3, 2008), and the Weymouth News (October 1, 2008). The notice announced the public comment period and the meeting date for the public information session and public hearing. The Navy distributed copies of the Proposed Plan to a mailing list of nearly 350 community members. In addition, the Navy made the Proposed Plan available to the public at several established Information Repositories (listed below) and the Navy's public website for environmental activities at the former NAS South Weymouth.
- From October 1, 2008 to October 31, 2008, the Navy offered the Proposed Plan for public comment, in accordance with the requirements of the NCP and the CERCLA program at NAS South Weymouth. No written comments were received regarding AOC 61 during the public comment period.
- On October 16, 2008, the Navy held an informational meeting to present the Navy's Proposed Plan to the public. At this meeting, representatives from the Navy discussed the Proposed Plan and answered questions from the public. In addition, the Navy held a public hearing to accept oral comments on the Proposed Plan. A transcript of comments received at the public hearing is included as Appendix E.1.
- Responses to comments received at the public hearing on the Proposed Plan are included in the Responsiveness Summary that is Part 3 of this ROD.

In addition, the Navy has provided an index of the Administrative Record available for public review, which is maintained at the Navy's CSO at NAS South Weymouth, Weymouth, Massachusetts. Information repositories have also been established at several locations. Currently, information is available at the Tufts Library in Weymouth, Massachusetts; the Abington Public Library in Abington, Massachusetts; the Hingham Public Library in Hingham, Massachusetts; and the Rockland Memorial Library in Rockland, Massachusetts. The Administrative Record Index is included as Appendix D to this ROD.

IV. SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

In addition to several CERCLA Operable Units, AOC 61 is 1 of 17 CERCLA AOCs identified at NAS South Weymouth (Table 2-1). In general, the Operable Units and AOCs at NAS South Weymouth progress through the CERCLA cleanup process independent of one another.

AOC 61 was originally identified in the Phase I EBS Report as RIA 61. An RIA is an area identified during the EBS that required further evaluation due to the potential for contamination. If environmental impacts are found, then the Navy addresses an RIA under the appropriate program. At NAS South Weymouth, the Navy has designated EBS RIAs as CERCLA AOCs when one or more CERCLA hazardous substances have been present in excess of human health or ecological risk benchmarks and background values. The Navy has then conducted either streamlined risk assessments and/or removal actions at the various AOCs. At AOC 61, the Navy conducted a removal action to address PCBs and other contaminants in the sediments. The results of the removal actions indicate that no unacceptable risks to human health or the environment remain at AOC 61.

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The signing of this ROD by the Navy and EPA Region 1 indicates the completion of the Superfund process for AOC 61. No additional actions or investigations of AOC 61 are required under CERCLA. The selected No Further Action decision for AOC 61 is not expected to have an impact on the strategy or progress for the remaining environmental investigation sites at NAS South Weymouth. Additional details on the strategy and schedule for the remediation of the other Operable Units and AOCs at NAS South Weymouth are available in the Navy's Site Management Plan (Tetra Tech NUS, 2007).

V. SITE CHARACTERISTICS

The TACAN Outfall area encompasses approximately 1.8 acres and drains storm water (collected from a number of swales, ditches, and catch basins), via underground piping, from large areas of NAS South Weymouth. The TACAN Outfall pipe discharges at the headwall into the TACAN Outfall ditch, which is approximately 700 feet long from headwall to a downstream weir.

AOC 61 originally consisted only of the TACAN Outfall itself; however, the source of contamination in the outfall was the sediment from the entire storm sewer system. The Base storm water drainage system consists of a series of drains, manholes, ditches and swales, connected by underground piping that ranges from 4 to 60 inches in diameter, which ultimately discharge to the TACAN Outfall ditch.

Prior to the 1980s, the building floor drain systems also connected to the storm drain system and thus, the TACAN Outfall. Several releases of various fuels directly into the TACAN Outfall have been documented and various environmental sites at the base may also have contributed water and sediment to the TACAN Outfall via the drainage system.

During the EBS Phase II investigations, the Navy concluded that a removal action was required at AOC 61 to remediate PCB concentrations in sediment. Elevated PCB concentrations were detected in the TACAN ditch up to 500 feet south of the TACAN Outfall headwall. In October 2001, the highest PCB concentration (12 mg/kg) was detected approximately 150 feet south of the TACAN Outfall headwall. PCBs were initially the target compound for the removal action; however, once the entire storm sewer system was identified as the source of contamination and additional sampling confirmed this, PAHs and metals concentration in excess of human health or ecological risk criteria were included as removal action criteria. The Navy completed the removal action in two phases from October 2002 through January 2004. The Navy has since backfilled and replanted vegetation in the disturbed wetland area. Review of data collected following the removal actions completed in 2004 indicate that there are no remaining unacceptable risks to human health or the environment at AOC 61.

VI. CURRENT AND POTENTIAL FUTURE SITE RESOURCE USES

NAS South Weymouth was operationally closed on September 30, 1996, and administratively closed on September 30, 1997. As such, historical operations conducted at the Base are no longer occurring. The Base is located within a residential/light commercial area.

Under current use of the former NAS South Weymouth, there are no regular activities occurring at AOC 61 and, thus, there is limited potential for current worker exposure. Human activity is limited to possible brush clearing during summer months and periodic post-restoration wetland monitoring. NAS South Weymouth is operationally closed.

The anticipated future use of the AOC 61 properties is based on the zoning prescribed in the *Zoning and Land Use By-Laws for the Naval Air Station South Weymouth* (SSTTDC, 2005a), which has been approved by the Towns of Weymouth, Abington, and Rockland. The TACAN Outfall and most of the

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associated ditches and swales are zoned as “open space (OS),” specifically OS-Weymouth, OS-Rockland, or OS-Corporation. The open space zoning is intended for the preservation of large, contiguous wetland areas and open space for park land, active and passive recreation, reservations, community gardens, rivers and streams, and similar uses. The zoning may also encompass wetland resource areas, open space, and recreational areas where there are important public health, safety, and welfare interests in watershed and flood potential protection, preservation of wildlife habitat, and conservation of recreational land for resident use and enjoyment. No residential reuse is permitted under the open space zoning. The RIA 30B Swale and NEX Swale are located in the Village Center District (VCD) and Shea Village Commercial District (SVCD), respectively. The VCD district is mixed-use with housing, offices, commercial and retail uses. The SVCD uses include light industry, biopharmaceutical manufacturing, research and development, office and other commercial uses (SSTTDC, 2005a).

Groundwater at AOC 61 is not within a state-mapped, potentially productive aquifer zone, interim wellhead protection area (IWHPA), or Zone II area. Therefore, groundwater at AOC 61 is not considered to be part of a Potential Drinking Water Source Area.

VII. SUMMARY OF POTENTIAL SITE RISKS

As discussed in Section II B, AOC 61 was originally identified in the Phase I EBS Report as RIA 61, an area requiring further evaluation due to the potential for contamination. Under the Phase II EBS, soil, groundwater, surface water, and sediment samples were collected and analyzed for a wide range of contaminants. The validated laboratory results were screened against background values for NAS South Weymouth, human health risk-based benchmarks, and ecological risk-based benchmarks. The screening indicated potential risks to health and the environment at AOC 61 associated with VOCs, PAHs, pesticides, PCBs, and metals in sediment.

The Navy conducted removal actions at AOC 61 to excavate sediment containing PCBs, VOCs, PAHs, pesticides, PCBs, and metals from the drainage ditches and swales, as well as jet spraying operations to clean the storm water drainage components (piping, catch basins, and manholes). For the removal actions, the Navy established a PCB cleanup goal of 1 part per million total PCBs (the Toxic Substances Control Action (TSCA) Level for residential Unrestricted Access) and/or exceedance of any human health or ecological risk screening criteria for other organic compounds or metals. Confirmatory sampling data were collected at AOC 61. The final post-removal action chemical concentrations in soil and sediment achieved the cleanup goals for residential exposure and pose no unacceptable risk to human health or ecological receptors at this site.

The removal actions at AOC 61 have successfully mitigated the potential risks described above. Therefore, the Navy and EPA have concluded that the AOC 61 site does not pose an unacceptable risk to human health or the environment. Soil and sediment conditions at AOC 61 are acceptable for unrestricted use (including residential), based on comparisons of chemical constituents to risk-based federal screening criteria, state standards and established PCB cleanup goals. In accordance with the current reuse plan (SSTTDC, 2005a), the majority of AOC 61 is zoned for open space and, therefore, would be available for some recreational use. Two of the swales are zoned for mixed use and commercial uses. No additional measures are required at AOC 61 to ensure protection of human health and the environment under the current or anticipated future uses.

VIII. DOCUMENTATION OF NO SIGNIFICANT CHANGES

The Navy issued a Proposed Plan for No Further Action for AOC 61 on October 1, 2008 for a 30-day public comment period. A public information session and a public hearing were held on October 16, 2008. The Navy reviewed the comments submitted during the public comment period and at the public

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hearing (Appendix E). As summarized in the Responsiveness Summary (Part 3, pending), it was determined that no significant changes to the decision, as originally identified in the Proposed Plan, were necessary. Therefore, No Further Action for AOC 61 will be implemented.

IX. STATE ROLE

MassDEP has reviewed the relevant site information to determine if the selected decision is in compliance with applicable or relevant and appropriate state environmental and facility siting laws and regulations. MassDEP's concurrence on the selected decision in this ROD is presented in Appendix A.

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TABLE 2-1

**SUMMARY OF OPERABLE UNITS AND AREAS OF CONCERN
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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West Gate Landfill	IR Program Site 1	1	WGL	Disposal area used for a variety of construction and demolition debris, municipal, and other waste materials.	PA, SI, RI, FS, PRAP, and ROD (including construction of a soil cover over the landfill, long-term monitoring, and institutional controls) completed.
Rubble Disposal Area (Upland)	IR Program Site 2	2	RDA	Disposal area used for primarily building demolition debris.	PA, SI, RI, FS, PRAP, ROD, Remedial Design, Remedial Action (including excavation and offsite disposal of PCB-impacted material, construction of a soil cap for the landfill material) completed. Implementation of institutional controls pending. Long-term monitoring is underway.
Small Landfill	IR Program Site 3	3	SL	Disposal area used primarily for concrete, metal, and wood.	PA, SI, RI, PRAP, and ROD (No Action with groundwater monitoring) completed. Monitoring program completed. Closure under MA Solid Waste Regulations is underway.
Fire Fighting Training Area	IR Program Site 4	4	FFTA	Area designated for dispensing fuels for igniting and extinguishing fires.	PA, SI, and RI completed. No FS required. Completed PRAP and No Action ROD. Further assessment in accordance with the MCP (310 CMR 40.0000) completed. Site closed out under the MCP.
Tile Leach Field	IR Program Site 5	5	TLF	Sand bed used to receive and distribute treated industrial wastewater.	PA, SI, and RI completed. No FS required. PRAP and No Action ROD completed.
Fuel Farm	IR Program Site 6	Not applicable (no longer CERCLA)	None	Tank farm and fuel dispensing area.	Site was transferred into the MCP program based on exhibiting only fuel-related issues. Site closed out under the MCP.
Sewage Treatment Plant	IR Program Site 7	7	STP	Wastewater treatment plant used primarily for domestic wastewater.	PA, SI, RI, FS, PRAP, ROD, and pre-design investigation completed. Remedial design/remedial action pending.
Abandoned Bladder Tank Fuel Storage Area	IR Program Site 8	8	ABTFSA	Area in which aboveground tanks temporarily were stored in support of aircraft refueling training operations.	Closed. PA, SI, and RI completed. No FS necessary. Completed No Action PRAP and ROD.
Rubble Disposal Area	IR Program Site 2	9	RDA	Steep sloping area adjacent to the RDA.	Combined with Operable Unit 2. No separate actions being performed.

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TABLE 2-1

**SUMMARY OF OPERABLE UNITS AND AREAS OF CONCERN
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NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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Site	Site Designation	Operable Unit Designation	Site Abbreviation	Site Description	Regulatory Status as of October 2008
Building 81	IR Program Site 9	10	None	Release of solvents from former motor pool.	Former MCP site moved to CERCLA program. Conducted <i>in situ</i> chemical oxidation pilot study for groundwater. RI sampling completed. Draft RI report issued.
Building 82	IR Program Site 10	11	None	Release of solvents from former aircraft hangar operations.	Former MCP site moved to CERCLA program. RI sampling completed. Draft RI report issued.
Solvent Release Area	IR Program Site 11	12	SRA	Release of solvents from unidentified source.	Former EBS background location moved to the CERCLA Program. Draft RI report issued.
Hangar 1 Main Bay	AOC Hangar 1	None	None	Main building floor drains	Various Removal Action/TCRAs completed. Preparing PRAP.
Suspected TACAN Disposal Area	AOC 3	None	None	Pile of rubble, soil, and metal debris containing PAHs and polychlorinated biphenyls (PCBs).	EBS Phase I, EBS Phase II. TCRA completed in Fall 2001 for the removal of 51 tons of soil and debris. PRAP completed. Completed No Further Action ROD.
ATC abandoned septic system	AOC 4A	None	None	Alleged liquid and solid waste disposal to a septic system. Arsenic in adjacent forested wetland hydric soil (sediment) was detected at levels above background.	EBS Phase I, EBS Phase II. Conducted streamlined HHRA and ERA. Completed No Action PRAP and ROD.
Wyoming St. Area – Building 70	AOC 8	None	None	Remnants of Building 70 demolition. Building housed radar electronics. Elevated PCB concentrations in soil.	EBS Phase I, EBS Phase II. TCRA, and CRAM completed. Completed No Further Action PRAP and ROD.
Supply Warehouse	AOC 13	None	None	Former railroad loading and unloading area. PAHs and pesticides in soil.	EBS Phase I, EBS Phase II. Conducted HHRA on soil. Removal action completed in September 2001 (8 tons of soil containing PAHs removed). PRAP completed. Completed No Further Action ROD.
Water Tower Staining	AOC 14	None	None	Staining between Hortensphere and Water Tower. Former drum storage area. Chromium, lead, and PAHs in soil.	EBS Phase I, Phase II. Conducted HHRA. PRAP in progress.
Water Tower	AOC 15	None	None	Possible lead paint in soil (paint chips from sandblasting of tower).	EBS Phase I, EBS Phase II. June 2000 TCRA addressed lead in soil (280 tons of soil removed). Additional removal in March 2002 (104 tons of soil) addressed elevated lead reported from adjacent AOC 14 sample. PRAP completed. Completed No Further Action ROD.

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TABLE 2-1

**SUMMARY OF OPERABLE UNITS AND AREAS OF CONCERN
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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Site	Site Designation	Operable Unit Designation	Site Abbreviation	Site Description	Regulatory Status as of October 2008
Pistol Range	AOC 35	None	None	Small arms ammunition rounds at historic Pistol Range.	EBS Phase I. EBS Phase II. Completed TCRA for lead in soil. Removed the de-armament embankment. Completed No Further Action PRAP and ROD.
Former Radio Transmitter Building Area	AOC 53	None	None	Alleged disposal area. Mainly PAHs and some inorganic constituents detected in sediment.	EBS Phase I, EBS Phase II, removal actions, and CRAM completed. Completed No Further Action PRAP and ROD.
Area North of Trotter Road - Antennae Field	AOC 55A	None	None	Seven antenna poles and associated copper cables.	Phase I EBS, Phase II EBS. Removal action in September 2002 removed antenna poles, platforms, grounding wires, and adjacent soil (840 tons of soil) to lower ecological risk. Completed No Further Action PRAP and ROD.
Area North of Trotter Road - Debris Area	AOC 55B	None	None	Solid waste disposal over a large, heavily wooded area.	Phase I EBS, Phase II EBS. Debris removal in 1999. Completed No Action PRAP and ROD.
Area North of Trotter Road - Pond Area	AOC 55C	None	None	Metallic debris in heavily wooded area and pond. Metals in soil and sediment.	Phase II EBS. Human health and ecological risk assessments completed. RI report pending.
Area North of Trotter Road - Wetland Area	AOC 55D	None	None	Metals, PCBs exceed ecological benchmarks in surface water and sediment.	Formerly part of AOC 55B. Completed streamlined HHRA and ERA. Completed No Action PRAP and ROD.
East Mat Drainage Ditch	AOC 60	None	None	Discolored water and solid waste identified in drainage ditch.	Phase I EBS, Phase II EBS. Removal actions completed in 2004 and 2007. Completed No Further Action PRAP. Pending ROD.
TACAN Ditch	AOC 61	None	None	Discolored water in drainage ditch.	EBS Phase I, EBS Phase II. Completed Removal Action to address the TACAN Outfall drainage system, associated ditches, drainage swales, storm sewer lines, and catch basins in other areas at the Base. Cleaned the 60-in. storm drains and removed sediment in the TACAN ditch. Completed No Further Action PRAP. Pending ROD.

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TABLE 2-1

**SUMMARY OF OPERABLE UNITS AND AREAS OF CONCERN
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NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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Site	Site Designation	Operable Unit Designation	Site Abbreviation	Site Description	Regulatory Status as of October 2008
Hazardous Waste Storage Area	AOC 83	None	None	RCRA Closure. PCB in subsurface soil.	EBS Phase I, EBS Phase II. Completed HHRA. PRAP in progress.
East Street Gate Area	AOC 100	None	None	Debris disposal area. Various inorganics exceeded background and ecological benchmarks for surface soil.	EBS Phase I, EBS Phase II. Removal action completed in Fall 2001 (1,194 tons of soil and debris). PRAP completed. Completed No Further Action ROD.

NOTES:

- PA = Preliminary Assessment
- SI = Site Inspection
- RI = Remedial Investigation (Phase I and II)
- FS = Feasibility Study
- PRAP = Proposed Remedial Action Plan (or Proposed Plan)
- CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
- ROD = Record of Decision
- MCP = Massachusetts Contingency Plan
- TCRA = Time Critical Removal Action
- AOC = Area of Concern.
- CMR = Code of Massachusetts Regulations.
- CRAM = Closeout Removal Action Memoranda
- RCRA = Resource Conservation and Recovery Act
- EBS = Environmental Baseline Survey
- HHRA = Human Health Risk Assessment
- ERA = Ecological Risk Assessment
- LTM = Long-Term Monitoring
- TACAN = Tactical Air Navigation

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**TABLE 2-2A
NEX SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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FRACTION (UNITS)	SAMPLE_ID	PRG	S1- GW1	ECODQL	BKG	NAS- NEXC- SD01	NAS- NEXC- SD02	NAS- NEXC- SD03	NAS- NEXC- SD04	NAS- NEXC- SD04A	NAS- NEXC- SD05	NAS- NEXC- SD05A
	LOCATION_ID					NEX- SD-01	NEX- SD-02	NEX- SD-03	NEX- SD-04	NEX- SD-04	NEX- SD-05	NEX- SD-05
	SAMPLE_DATE					11/19/02	11/19/02	11/19/02	11/19/02	12/04/02	11/19/02	12/04/02
	SITE					RIA 061	RIA 061	RIA 061				
VOLATILES (UG/KG)	2-BUTANONE	2E+06	4000	270	330	5	NA	NA	NA	NA	NA	NA
	ACETONE	1E+06	6000	9	416.84	48	NA	NA	NA	NA	NA	NA
	METHYL IODIDE					1 J	NA	NA	NA	NA	NA	NA
METALS (MG/KG)	ALUMINIUM	7600		25500	8767.4	4470	3800	2180	12800	5790	7670	5580
	ANTIMONY	3.1	20	2	1.355	0.22 B	0.53 B	0.62 B	1.1 B	0.87 B	0.21 U	0.78 B
	ARSENIC	0.39	20	9.79	8.9	3.3	5.1	2.8	14.2	1.8	5.9	1.3
	BARIUM	540	1000	48	202.48	14.6	15.3	12.9	33.7	32.4	23.7	24.4
	BERYLLIUM	15	100		0.46	0.28 B	0.32	0.19 B	0.54	0.33	0.38	0.19 B
	CADMIUM	3.7	2	0.99	1.95	0.12 B	0.29	0.25	0.47	0.26 B	0.35 B	0.23 B
	CALCIUM				13900	766 B	637 B	314 B	943 B	1050	1060 B	661
	CHROMIUM	210	30	43.4	11.92	11.3	23.2	5.8	23.1	5.2	14.9	5.1
	COBALT	900		50	25.7	2.2 B	1.8 B	1.4 B	3.3 B	4.8	3.1	2.8
	COPPER	310		31.6	53.3	6.5	14.9	15.9	28.8	7.3	33.5	4.9
	IRON	2300		20000	24000	7560	10400	9170	14800	8570	11100	7200
	LEAD	400	300	35.8	200.86	73	83.1	39.2	694	6.6	390	5.4
MAGNESIUM				1683	1210	1110 B	668	1830	1460	1440	1350	
MANGANESE	180		460	3690	210	99.1	64.4	186	274	248	157	

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-2A
NEX SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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FRACTION (UNITS)	SAMPLE_ID	PRG	S1- GW1	ECODQL	BKG	NAS- NEXC- SD01	NAS- NEXC- SD02	NAS- NEXC- SD03	NAS- NEXC- SD04	NAS- NEXC- SD04A	NAS- NEXC- SD05	NAS- NEXC- SD05A
	LOCATION_ID					NEX- SD-01	NEX- SD-02	NEX- SD-03	NEX- SD-04	NEX- SD-04	NEX- SD-05	NEX- SD-05
	SAMPLE_DATE					11/19/02	11/19/02	11/19/02	11/19/02	12/04/02	11/19/02	12/04/02
	SITE					RIA 061	RIA 061	RIA 061				
MERCURY	2.3	20	0.18	0.28	0.023 B	0.043 B	0.016 U	0.094 B	0.017 U	0.05 B	0.019 U	
NICKEL	160	20	22.7	11.71	5.1 B	9.6	5.4 B	11.2 B	5	9.1 B	3.8	
POTASSIUM				603.24	278 B	300 B	170 B	412 B	464	334 B	321	
SODIUM				2180	65.1 B	56.5 B	37.9 B	115 B	91 B	75.9 B	74.5 B	
THALLIUM	0.52	8			0.23 U	0.34 B	0.2 U	1 B	0.52 B	0.3 B	0.59	
VANADIUM	7.8	600	57	38.18	13.7	19.5	7.8 B	51.9	14.9	26.9	10.2	
ZINC	2300	2500	121	549	41.8	74.5	161	130	39.1	131	26.5	

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-2B
NEX SWALE – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NEX-350- SB-01	NEX-450- SB-02	NEX-550- SB-03
	LOCATION_ID					NEX-350- SB-01	NEX-450- SB-02	NEX-550- SB-03
	SAMPLE_DATE					12/15/06	12/15/06	12/15/06
	SITE					NEX Swale	NEX Swale	NEX Swale
VOLATILES (UG/KG)	2-BUTANONE	2200000	4000	270	330	4.3 U	4.5 U	2.7 J
	ACETONE	1400000	6000	9	416.84	4.3	4.5 U	15
	METHYLENE CHLORIDE	9100	100	370	21	4.3 U	5.2 B	4.6 U
	TOLUENE	66000	30000	50	24.95	1.7 U	1.8 U	1.6 J
SEMIVOLATILES (UG/KG)	BENZO(A)ANTHRACENE	620	7000	108	1400	21	11 U	23
	BENZO(A)PYRENE	62	2000	150	3446.5	22	11 U	24
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	30	11 U	57
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	15	11 U	10 J
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	11	11 U	20
	CHRYSENE	62000	70000	166	1700	25	11 U	33
	FLUORANTHENE	230000	1000000	420	3000	39	11 U	57
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	17	11 U	11
	PHENANTHRENE	2200000	10000	204	1400	13	11 U	19
	PYRENE	230000	1000000	195	2300	32	11 U	32
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	5210	6650	4190
	ARSENIC	0.39	20	9.79	8.9	1.4	1.5	1.6
	BARIUM	540	1000	48	202.48	14.1 B	27.5	16.8

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
Part 2 – Decision Summary**

**TABLE 2-2B
NEX SWALE – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NEX-350- SB-01	NEX-450- SB-02	NEX-550- SB-03
	LOCATION_ID					NEX-350- SB-01	NEX-450- SB-02	NEX-550- SB-03
	SAMPLE_DATE					12/15/06	12/15/06	12/15/06
	SITE					NEX Swale	NEX Swale	NEX Swale
BERYLLIUM		15	100		0.46	0.42 B	0.46	0.34 B
CALCIUM					13900	949	798	996
CHROMIUM		210	30	43.4	11.92	6.2	6.8	6
COBALT		900		50	25.7	3.9 B	3.9 B	2.6 B
COPPER		310		31.6	53.3	4.9	4.6	4.6
IRON		2300		20000	24000	9590	10300	8050
LEAD		400	300	35.8	200.86	7.1	4.6	15.1
MAGNESIUM					1683	1170	1420	1300
MANGANESE		180		460	3690	159	177	95.5
MERCURY		2.3	20	0.18	0.28	0.012 U	0.014 U	0.025 B
NICKEL		160	20	22.7	11.71	4.5	4.3	3.6
POTASSIUM					603.24	358 B	465	327 B
VANADIUM		7.8	600	57	38.18	13.3	13.8	11.6
ZINC		2300	2500	121	549	31.9	23.6	29

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
Part 2 – Decision Summary**

**TABLE 2-3
FUEL FARM SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 1**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS-FFC-SD01
	LOCATION_ID					FFC-SD-01
	SAMPLE_DATE					11/20/02
	SITE					RIA 061
SEMIVOLATILES (UG/KG)	ACENAPHTHENE	5600	4000	150	83	12
	ACENAPHTHYLENE	370000	1000	150	257.92	18
	ANTHRACENE	2200000	1000000	57	435.6	69
	BENZO(A)ANTHRACENE	620	7000	108	1400	230 D
	BENZO(A)PYRENE	62	2000	150	3446.5	330 D
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	520 D
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	250 D
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	140
	CHRYSENE	62000	70000	170	1700	360 D
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	44
	FLUORANTHENE	230000	1000000	420	3000	750 D
	FLUORENE	270000	1000000	77.4	130	30
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	260 D
	PHENANTHRENE	2200000	10000	204	1400	93
	PYRENE	230000	1000000	195	2300	670 D

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-4A
RIA 30B SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 3**

SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- RIA30BC- SD01	NAS- RIA30BC- SD01A	NAS- RIA30BC- SD02	NAS- RIA30BC- SD02A	NAS- RIA30BC- SD03	NAS- RIA30BC- SD03D	NAS- RIA30BC- SD04	NAS- RIA30BC- SD05	NAS- RIA30BC- SD05A
LOCATION_ID					RIA30BC- SD-01	RIA30BC- SD-01	RIA30BC- SD-02	RIA30BC- SD-02	RIA30BC- SD-03	RIA30BC- SD-03	RIA30BC- SD-04	RIA30BC- SD-05	RIA30BC- SD-05
SAMPLE_DATE					11/21/02	12/05/02	11/21/02	12/05/02	11/21/02	11/21/02	11/21/02	11/21/02	12/05/02
SITE					RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
2-METHYLNAPHTHALENE	5600	700	65		52	3.7 U	46	5.1	4.4	4.3 U	NA	10	3.6 U
ACENAPHTHENE	5600	4000	150	83	160	3.7 U	250	3.7 U	16	8.2	NA	120	3.6 U
ACENAPHTHYLENE	370000	1000	150	257.92	740	3.7 U	68	3.7 U	15	16	NA	42	3.6 U
ANTHRACENE	2200000	1000000	57	435.6	1000	3.7 U	270	3.7 U	38	33	NA	370 D	3.6 U
BENZO(A)ANTHRACENE	620	7000	108	1400	1900 D	3.7 U	650	3.7 U	160	150	NA	880 D	3.6 U
BENZO(A)PYRENE	62	2000	150	3446.5	8400 D	3.7 U	490	3.7 U	130	130	NA	920 D	3.6 U
BENZO(B)FLUORANTHENE	620	7000	1800	2000	9000 D	3.7 U	730 D	3.7 U	230	220	NA	1200 D	3.6 U
BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	6300 D	3.7 U	370	3.7 U	100	110	NA	530 D	3.6 U
BENZO(K)FLUORANTHENE	6200	70000	240	1100	3300 D	3.7 U	310	3.7 U	80	67	NA	440 D	3.6 U
CHRYSENE	62000	70000	166	1700	3500 D	3.7 U	610	3.7 U	110	110	NA	880 D	3.6 U
DIBENZO(A,H)ANTHRACENE	62	700	33	190	1000	3.7 U	42	3.7 U	23	26	NA	140	3.6 U
FLUORANTHENE	230000	1000000	420	3000	3500 D	3.7 U	1500 D	3.7 U	200	180	NA	1900 D	3.6 U
FLUORENE	270000	1000000	77.4	130	140	3.7 U	260	3.7 U	10	7.4	NA	140	3.6 U
INDENO(1,2,3-CD)PYRENE	620	7000	200	490	7000 D	3.7 U	390	3.7 U	110	120	NA	590 D	3.6 U
NAPHTHALENE	5600	4000	176		59	3.7 U	67	3.7 U	5.9	4.3 U	NA	13	3.6 U
PHENANTHRENE	2200000	10000	204	1400	1400 D	3.7 U	2200 D	3.7 U	110	84	NA	1300 D	3.6 U
PYRENE	230000	1000000	195	2300	3800 D	3.7 U	1300 D	3.7 U	150	140	NA	1600 D	3.6 U

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
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**TABLE 2-4A
RIA 30B SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 3**

SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- RIA30BC- SD01	NAS- RIA30BC- SD01A	NAS- RIA30BC- SD02	NAS- RIA30BC- SD02A	NAS- RIA30BC- SD03	NAS- RIA30BC- SD03D	NAS- RIA30BC- SD04	NAS- RIA30BC- SD05	NAS- RIA30BC- SD05A
LOCATION_ID					RIA30BC- SD-01	RIA30BC- SD-01	RIA30BC- SD-02	RIA30BC- SD-02	RIA30BC- SD-03	RIA30BC- SD-03	RIA30BC- SD-04	RIA30BC- SD-05	RIA30BC- SD-05
SAMPLE_DATE					11/21/02	12/05/02	11/21/02	12/05/02	11/21/02	11/21/02	11/21/02	11/21/02	12/05/02
SITE					RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
AROCLOR-1260	220		59.8	230	NA	NA	85 P	38 U	NA	NA	NA	NA	NA
ALUMINIUM	7600		25500	8767.4	5480	5070	4920	5010	6570	6340	7900	4120	NA
ANTIMONY	3.1	20	2	1.355	2.3 B	1 B	0.88 B	1.1 B	1.1 B	1.2 B	1.7 B	0.85 B	NA
ARSENIC	0.39	20	9.79	8.9	3.3 B	4.1	3.1	6.7	2.6	2.8	3.3	2	NA
BARIUM	540	1000	48	202.48	47.6 B	18.8	22.9	12.3	23.1	21.9	23.6	13.1	NA
BERYLLIUM	15	100		0.46	0.66 U	0.28	0.26 B	0.25 B	0.26 B	0.26 B	0.34	0.21 B	NA
CADMIUM	3.7	2	0.99	1.95	1.5 B	0.27 B	1	0.27 B	2.8	2.2	0.85	0.43	NA
CALCIUM				13900	11600	1430	1280	1030	1060	1170	884	791	NA
CHROMIUM	210	30	43.4	11.92	20.7	9.5	14.5	7.4	10	9.3	9.9	7.3	NA
COBALT	900		50	25.7	3.4 B	5.5	2.5 B	4	2.8	3	3.1	2.5 B	NA
COPPER	310		31.6	53.3	22.3	12.5	10.2	9	10.4	10	1	6.4	NA
IRON	2300		20000	24000	8410	8250	7670	9930	8330	8670	12500	7570	NA
LEAD	400	300	35.8	200.86	119	6.1	54.3	5.1	47.5	37.2	51.5	18.1	NA
MAGNESIUM				1683	1220 B	2600	1290	2500	1560	1550	1700	1300	NA
MANGANESE	180		460	3690	461	115	104	172	181	152	166	89	NA
MERCURY	2.3	20	0.18	0.28	0.11 U	0.018 U	0.068 B	0.018 U	0.063	0.035 B	0.04 B	0.025 B	NA
NICKEL	160	20	22.7	11.71	9.3 B	8.5	6.3	7.5	8	7.6	6.8	4.8	NA

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
 U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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Naval Air Station South Weymouth
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**TABLE 2-4A
RIA 30B SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 3 OF 3**

SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- RIA30BC- SD01	NAS- RIA30BC- SD01A	NAS- RIA30BC- SD02	NAS- RIA30BC- SD02A	NAS- RIA30BC- SD03	NAS- RIA30BC- SD03D	NAS- RIA30BC- SD04	NAS- RIA30BC- SD05	NAS- RIA30BC- SD05A
LOCATION_ID					RIA30BC- SD-01	RIA30BC- SD-01	RIA30BC- SD-02	RIA30BC- SD-02	RIA30BC- SD-03	RIA30BC- SD-03	RIA30BC- SD-04	RIA30BC- SD-05	RIA30BC- SD-05
SAMPLE_DATE					11/21/02	12/05/02	11/21/02	12/05/02	11/21/02	11/21/02	11/21/02	11/21/02	12/05/02
SITE					RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
POTASSIUM				603.24	399 B	384	315 B	258 B	305	308	283 B	201 B	NA
SILVER	39	100	0.5	0.2	0.66 U	0.14 B	0.26 B	0.17 B	0.24 B	0.25 B	0.35 B	0.2 B	NA
SODIUM				2180	521 B	46.5 B	154 B	36.3 B	85.5 B	81.1 B	79.9 B	66.6 B	NA
THALLIUM	0.52	8			1.3 U	0.59	0.64 B	0.36 B	0.93	0.8	1.2	0.84	NA
VANADIUM	7.8	600	57	38.18	27.1	16.5	16.1	8.7	22.6	21	21.7	14	NA
ZINC	2300	2500	121	549	70.6	35	45.4	32.7	63.6	58.4	35.4	23.4	NA

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
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**TABLE 2-4B
RIA 30B SWALE – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	RIA30B-220-SB-01	RIA30B-320-SB-02	RIA30B-420-SB-03	RIA30B-770-SB-04
	LOCATION_ID					RIA30B-220-SB-01	RIA30B-320-SB-02	RIA30B-420-SB-03	RIA30B-770-SB-04
	SAMPLE_DATE					12/11/06	12/11/06	12/11/06	12/11/06
	SITE					RIA 30B Ditch	RIA 30B Ditch	RIA 30B Ditch	RIA 30B Ditch
VOLATILES (UG/KG)	2-BUTANONE	2200000	4000	270	330	--	--	--	5.6 J
	ACETONE	1400000	6000	9	416.84	--	--	--	34
SEMIVOLATILES (UG/KG)	BENZO(A)ANTHRACENE	620	7000	108	1400	12 U	30	382	--
	BENZO(A)PYRENE	62	2000	150	3446.5	11 J	43	706	98 J
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	14	65	917	137 J
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	12 U	34	469	--
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	12 U	25	302	--
	BIS(2-ETHYLHEXYL)PHTHALATE	35000	200000	890000	640	170 U	180 U	186	--
	CHRYSENE	62000	70000	166	1700	12 U	38	557	109 J
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	12 U	14 U	105 J	--
	FLUORANTHENE	230000	1000000	420	3000	11 J	63	827	237
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	12 U	55	648	116 J
	PHENANTHRENE	2200000	10000	204	1400	12 U	27	529	177 J
PYRENE	230000	1000000	195	2300	10 J	48	689	166 J	
HERBICIDES (UG/KG)	2,4-D	69000				91 D	50 U	48 U	--
PESTICIDES/PCBS (UG/KG)	AROCLOR-1260	220		59.8	230	18 U	20 U	26	--
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	4320	3820	7990	7220
	ARSENIC	0.39	20	9.79	8.9	1	1 B	2.6	1.9

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
 U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
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**TABLE 2-4B
RIA 30B SWALE – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	RIA30B-220-SB-01	RIA30B-320-SB-02	RIA30B-420-SB-03	RIA30B-770-SB-04
	LOCATION_ID					RIA30B-220-SB-01	RIA30B-320-SB-02	RIA30B-420-SB-03	RIA30B-770-SB-04
	SAMPLE_DATE					12/11/06	12/11/06	12/11/06	12/11/06
	SITE					RIA 30B Ditch	RIA 30B Ditch	RIA 30B Ditch	RIA 30B Ditch
	BARIUM	540	1000	48	202.48	8.8 B	9.6 B	26.2	19.1 B
	BERYLLIUM	15	100		0.46	0.31 B	0.32 B	0.52 B	0.44 B
	CADMIUM	3.7	2	0.99	1.95	0.28 B	0.47 B	0.95	--
	CALCIUM				13900	616	669	1220	1150
	CHROMIUM	210	30	43.4	11.92	5.6	5	12	8.2
	COBALT	900		50	25.7	2.9 B	2.6 B	4.8 B	3.9 B
	COPPER	310		31.6	53.3	5.8	4.3	10.1	6.9
	IRON	2300		20000	24000	7330	6800	13000	12200
	LEAD	400	300	35.8	200.86	6.1	14	38.6	14.7
	MAGNESIUM				1683	1550	1280	1790	1980
	MANGANESE	180		460	3690	88.3	85.3	130	161
	MERCURY	2.3	20	0.18	0.28	0.019 U	0.027 B	0.043	0.027 B
	NICKEL	160	20	22.7	11.71	4.7	4.4	7.3	5.9
	POTASSIUM				603.24	243 B	242 B	429 B	302 B
	VANADIUM	7.8	600	57	38.18	12.3	11.9	22.7	21.9
	ZINC	2300	2500	121	549	26.1	26.7	45.4	35.2

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-5
VIRGO STREET DITCH – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 1**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS-VSC-SD01	NAS-VSC-SD02
	LOCATION_ID					VSC-SD-01	VSC-SD-02
	SAMPLE_DATE					11/26/02	11/26/02
	SITE					RIA 061	RIA 061
SEMIVOLATILES (UG/KG)	2-METHYLNAPHTHALENE	5600	700	65		6	3.8 U
	ACENAPHTHENE	5600	4000	150	83	16	14
	ACENAPHTHYLENE	370000	1000	150	257.92	61	8.7
	ANTHRACENE	2E+06	1000000	57	435.6	110	43
	BENZO(A)ANTHRACENE	620	7000	108	1400	470 D	100
	BENZO(A)PYRENE	62	2000	150	3446.5	530 D	98
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	670 D	140
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	410	67
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	260	48
	CHRYSENE	62000	70000	166	1700	550 D	110
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	99	17
	FLUORANTHENE	230000	1000000	420	3000	1000 D	240
	FLUORENE	270000	1000000	77.4	130	40	15
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	410	72
	NAPHTHALENE	5600	4000	176		5.1	3.8
	PHENANTHRENE	2E+06	10000	204	1400	440 D	130
	PYRENE	230000	1000000	195	2300	910 D	180

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-6
CONNECTING SWALE – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 1**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS-CSC-SD01
	LOCATION_ID					CSC-SD01
	SAMPLE_DATE					12/4/2002
	SITE					RIA 061
SEMIVOLATILES (UG/KG)	2-METHYLNAPHTHALENE	5600	700	65		3.6 U
	ACENAPHTHENE	5600	4000	150	83	3.6 U
	ACENAPHTHYLENE	370000	1000	150	257.92	3.6 U
	ANTHRACENE	2E+06	1000000	57	435.6	3.6 U
	BENZO(A)ANTHRACENE	620	7000	108	1400	3.6 U
	BENZO(A)PYRENE	62	2000	150	3446.5	3.6 U
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	3.6 U
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	3.6 U
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	3.6 U
	CHRYSENE	62000	70000	166	1700	3.6 U
	DIBENZOFURAN	15000		420	57	3.6 U
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	3.6 U
	FLUORANTHENE	230000	1000000	420	3000	3.6 U
	FLUORENE	270000	1000000	77.4	130	3.6 U
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	3.6 U
	NAPHTHALENE	5600	4000	176		3.6 U
PHENANTHRENE	2E+06	10000	204	1400	3.6 U	
PYRENE	230000	1000000	195	2300	3.6 U	

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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Part 2 – Decision Summary**

**TABLE 2-7
BARRACKS DITCH – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 2**

FRACTION (UNITS)	LOCATION_ID	PRG	S1-GW1	ECODQL	BKG	BKD-100- SB-01	BKD-200- SB-02- AVG	BKD-300- SB-03	BKD-400- SB-04	BKD-500- SB-05	BKD-600- SB-06	BKD-700- SB-07
						BKD-100- SB-01	BKD-200- SB-02	BKD-300- SB-03	BKD-400- SB-04	BKD-500- SB-05	BKD-600- SB-06	BKD-700- SB-07
						12/14/06	12/14/06	12/14/06	12/14/06	12/15/06	12/15/06	12/15/06
						Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch
VOLATILES (UG/KG)	ACETONE	1400000	6000	9	416.84	14	6.35	5.9	4.4	3.8 U	6.4	5.8
	METHYLENE CHLORIDE	9100	100	370	21	3.9 U	3.85 U	3.4 U	9 B	3.8 U	5.9 B	5.2 B
SEMIVOLATILES (UG/KG)	ANTHRACENE	2200000	1000000	57	435.6	163	11 U	11 U	160 U	11 U	11 U	11 U
	BENZO(A)ANTHRACENE	620	7000	108	1400	355	11 U	11 U	160 U	11 U	11 U	10 J
	BENZO(A)PYRENE	62	2000	150	3446.5	305	11 U	11 U	160 U	11 U	11 U	7 J
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	384	11 U	11 U	160 U	11 U	11 U	11
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	120 J	11 U	11 U	160 U	11 U	11 U	11 U
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	149 J	11 U	11 U	85 J	11 U	11 U	11 U
	CARBAZOLE	24000			226.11	87 J	150 U	150 U	160 U	150 U	150 U	150 U
	CHRYSENE	62000	70000	166	1700	360	11 U	11 U	160 U	11 U	11 U	8 J
	FLUORANTHENE	230000	1000000	420	3000	839	6.25 J	8 J	163	11 U	11 U	16
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	155	11 U	11 U	160 U	11 U	11 U	11 U
	PHENANTHRENE	2200000	10000	204	1400	601	11 U	11 U	160 U	11 U	11 U	8 J
PYRENE	230000	1000000	195	2300	563	11 U	8 J	118 J	11 U	11 U	14	
HERBICIDES (UG/KG)	DINOSEB	6100				166 D	221 D	241 D	42 U	39 U	41 U	41 U
PESTICIDES/PCBS (UG/KG)	AROCLOR-1260	220		59.8	230	81	8.5 U	8 U	23 D	8 U	8 U	9 U

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
 U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-7
BARRACKS DITCH – 2006 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 2**

FRACTION (UNITS)	LOCATION_ID	PRG	S1-GW1	ECODQL	BKG	BKD-100- SB-01	BKD-200- SB-02- AVG	BKD-300- SB-03	BKD-400- SB-04	BKD-500- SB-05	BKD-600- SB-06	BKD-700- SB-07
						BKD-100- SB-01	BKD-200- SB-02	BKD-300- SB-03	BKD-400- SB-04	BKD-500- SB-05	BKD-600- SB-06	BKD-700- SB-07
						12/14/06	12/14/06	12/14/06	12/14/06	12/15/06	12/15/06	12/15/06
						Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch	Barracks Ditch
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	5240	4080	6640	4220	4110	4980	6110
	ARSENIC	0.39	20	9.79	8.9	1.1	0.91 B	1.4	1.8	1.1	1.4	1.5
	BARIUM	540	1000	48	202.48	19.6	15.5 B	25.5	15.3 B	14.4 B	19.5	16.7 B
	BERYLLIUM	15	100		0.46	0.34 B	0.375 B	0.39 B	0.43 B	0.40	0.58	0.51
	CALCIUM				13900	982	1010	1040	1240	919	1050	1050
	CHROMIUM	210	30	43.4	11.92	6.9	5.75	7.1	6.8	6.1	8	5.8
	COBALT	900		50	25.7	3.4 B	3.05 B	3.7 B	3.1 B	3.3 B	3.1 B	3.4 B
	COPPER	310		31.6	53.3	4.9	2.6	4.2	4.4	3.6	5	4.8
	IRON	2300		20000	24000	9220	6020	9590	8370	9410	8400	11000
	LEAD	400	300	35.8	200.86	16.5	3.45	7.4	15.9	3.9	7.2	7.2
	MAGNESIUM				1683	1480	835	1130	970	1010	1070	1470
	MANGANESE	180		460	3690	134	83	115	89.8	121	87.2	127
	NICKEL	160	20	22.7	11.71	5.2	2.85 B	3.9	3.9	3.1	5	4.6
	POTASSIUM				603.24	224 B	216 B	378 B	280 B	265 B	361 B	230 B
	VANADIUM	7.8	600	57	38.18	17.1	11.5	15.1	16.3	11.8	13.6	12.6
	ZINC	2300	2500	121	549	25.2	13.1	18.5	20.6	18.1	27.3	26.7

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-8
EAST MAT DITCH – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 3**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- EMDC- SD01	NAS- EMDC- SD02- AVG	NAS- EMDC- SD03	NAS- EMDC- SD03A
	LOCATION_ID					EMDC- SD-01	EMDC- SD-02	EMDC- SD-03	EMDC- SD-03
	SAMPLE_DATE					12/19/02	12/19/02	12/19/02	12/31/02
	SITE					RIA 061	RIA 061	RIA 061	RIA 061
VOLATILES (UG/KG)	ACETONE	1400000	6000	9	416.84	NA	NA	NA	NA
	ETHYLBENZENE	190000	40000	89		NA	NA	NA	NA
	O-XYLENE	27000	400000			NA	NA	NA	NA
SEMIVOLATILES (UG/KG)	2-METHYLNAPHTHALENE	5600	700	65		NA	NA	NA	NA
	4-METHYLPHENOL	31000		12		NA	NA	NA	NA
	ACENAPHTHENE	5600	4000	150	83	NA	NA	NA	NA
	ACENAPHTHYLENE	370000	1000	150	257.92	NA	NA	NA	NA
	ANTHRACENE	2200000	1000000	57	435.6	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	620	7000	108	1400	NA	NA	NA	NA
	BENZO(A)PYRENE	62	2000	150	3446.5	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	NA	NA	NA	NA
	CHRYSENE	62000	70000	166	1700	NA	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	NA	NA	NA	NA
	FLUORANTHENE	230000	1000000	420	3000	NA	NA	NA	NA
	FLUORENE	270000	1000000	77.4	130	NA	NA	NA	NA

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-8
EAST MAT DITCH – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 3**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- EMDC- SD01	NAS- EMDC- SD02- AVG	NAS- EMDC- SD03	NAS- EMDC- SD03A
	LOCATION_ID					EMDC- SD-01	EMDC- SD-02	EMDC- SD-03	EMDC- SD-03
	SAMPLE_DATE					12/19/02	12/19/02	12/19/02	12/31/02
	SITE					RIA 061	RIA 061	RIA 061	RIA 061
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	NA	NA	NA	NA
	NAPHTHALENE	5600	4000	176		NA	NA	NA	NA
	PHENANTHRENE	2200000	10000	204	1400	NA	NA	NA	NA
	PHENOL	1800000	1000	48		NA	NA	NA	NA
	PYRENE	230000	1000000	195	2300	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)	4,4'-DDD	2400	4000	4.88	730	NA	NA	NA	NA
	4,4'-DDT	1700	3000	4.16	290	NA	NA	NA	NA
	AROCLOR-1260	220		59.8	230	39 U	79	2900	450
	DIELDRIN	30	50	1.9	17	NA	NA	NA	NA
	ENDRIN ALDEHYDE	1800		2.22	11	NA	NA	NA	NA
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	3540	3840	5990	NA
	ANTIMONY	3.1	20	2	1.355	0.18 B	0.16 B	0.62 B	NA
	ARSENIC	0.39	20	9.79	8.9	1.3	1.55	2.2	NA
	BARIUM	540	1000	48	202.48	25.3	18.8	13	NA
	BERYLLIUM	15	100		0.46	0.11 U	0.13 B	0.28	NA
	CADMIUM	3.7	2	0.99	1.95	0.11 U	0.0825 B	0.16 B	NA
	CALCIUM				13900	1170	1480	463	NA

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
 U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-8
EAST MAT DITCH – 2002 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 3 OF 3**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS- EMDC- SD01	NAS- EMDC- SD02- AVG	NAS- EMDC- SD03	NAS- EMDC- SD03A
	LOCATION_ID					EMDC- SD-01	EMDC- SD-02	EMDC- SD-03	EMDC- SD-03
	SAMPLE_DATE					12/19/02	12/19/02	12/19/02	12/31/02
	SITE					RIA 061	RIA 061	RIA 061	RIA 061
CHROMIUM		210	30	43.4	11.92	3.4	3.3	7.8	NA
COBALT		900		50	25.7	1.2 B	1.7 B	4	NA
COPPER		310		31.6	53.3	1.8	2.2	7.9	NA
IRON		2300		20000	24000	3930	4450	9610	NA
LEAD		400	300	35.8	200.86	7.8	14	10.4	NA
MAGNESIUM					1683	1190	1320	2090	NA
MANGANESE		180		460	3690	95.2	94.4	139	NA
NICKEL		160	20	22.7	11.71	2.5	2.75	6.6	NA
POTASSIUM					603.24	248 B	276	230 B	NA
SELENIUM		39	400	1	0.6675	0.45 U	0.39 U	0.39 U	NA
SILVER		39	100	0.5	0.2	0.11 U	0.1 U	0.098 U	NA
SODIUM					2180	71.1 B	60 B	41.2 B	NA
THALLIUM		0.52	8			0.42 B	0.495 B	0.2 B	NA
VANADIUM		7.8	600	57	38.18	6.3	6.95	11	NA
ZINC		2300	2500	121	549	16.4	28.5	30.4	NA

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-9
TACAN TRIBUTARY – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS-TT-SD01	NAS-TT-SD01S	NAS-TT-SD01N	NAS-TT-SD02	NAS-TT-SD02N	NAS-TT-SD02S
	LOCATION_ID					TT-SD-01	TT-SD-01	TT-SD-01	TT-SD-02	TT-SD-02	TT-SD-02
	SAMPLE_DATE					11/13/03	11/13/03	11/13/03	11/13/03	11/13/03	11/13/03
	SITE					RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
VOLATILES (UG/KG)	ACETONE	1400000	6000	9	416.84	9	NA	NA	6 U	NA	NA
	BROMOFORM	62000	100	650		0.7 J	NA	NA	6 U	NA	NA
	CARBON DISULFIDE	36000		0.85		3	NA	NA	6 U	NA	NA
	METHYLENE CHLORIDE	9100	100	370	21	2 JB	NA	NA	6 U	NA	NA
SEMIVOLATILES (UG/KG)	BIS(2-ETHYLHEXYL) PHTHALATE	35000	200000	890000	640	57 JB	NA	NA	56 JB	NA	NA
PAHs (UG/KG)	FLUORANTHENE	230000	1000000	420	3000	7.2	NA	NA	7.7 U	NA	NA
PESTICIDES/PCBS (UG/KG)	4,4'-DDD	2400	4000	4.88	730	3.8	NA	NA	3.9 U	NA	NA
	AROCLOR-1260	220		59.8	230	35 U	34 U	84	39 U	37 U	35 U
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	2500	NA	NA	5300	NA	NA
	ARSENIC	0.39	20	9.79	8.9	1.1 U	NA	NA	1.5	NA	NA
	BARIUM	540	1000	48	202.48	11 U	NA	NA	20	NA	NA
	CALCIUM				13900	310	NA	NA	1700	NA	NA
	CHROMIUM	210	30	43.4	11.92	2.4	NA	NA	10	NA	NA
	COBALT	900		50	25.7	2.7 U	NA	NA	4.4	NA	NA
	COPPER	310		31.6	53.3	2.2	NA	NA	9.4	NA	NA
	IRON	2300		20000	24000	4600	NA	NA	8700	NA	NA

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
 U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-9
TACAN TRIBUTARY – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	NAS-TT-SD01	NAS-TT-SD01S	NAS-TT-SD01N	NAS-TT-SD02	NAS-TT-SD02N	NAS-TT-SD02S
	LOCATION_ID					TT-SD-01	TT-SD-01	TT-SD-01	TT-SD-02	TT-SD-02	TT-SD-02
	SAMPLE_DATE					11/13/03	11/13/03	11/13/03	11/13/03	11/13/03	11/13/03
	SITE					RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
LEAD		400	300	35.8	200.86	2.6	NA	NA	6.1	NA	NA
MAGNESIUM					1683	990	NA	NA	2300	NA	NA
MANGANESE		180		460	3690	74	NA	NA	150	NA	NA
NICKEL		160	20	22.7	11.71	2.7 U	NA	NA	5.8	NA	NA
POTASSIUM					603.24	100 B	NA	NA	310 B	NA	NA
SODIUM					2180	53 U	NA	NA	65	NA	NA
THALLIUM		0.52	8			1.1 U	NA	NA	1.3	NA	NA
VANADIUM		7.8	600	57	38.18	5.3	NA	NA	23	NA	NA
ZINC		2300	2500	121	549	13	NA	NA	29	NA	NA

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
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SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
1,2,4-TRIMETHYLBENZENE	5200				3 U	3 U	3 U	NA	NA	1.5 J
1,2-DIBROMO-3-CHLOROPROPANE	460				3 U	3 U	3 U	NA	NA	2 J
2-BUTANONE	2200000	4000	270	330	3 U	3 U	3 U	NA	NA	7.5
2-HEXANONE			22	8	3 U	3 U	3 U	NA	NA	6
ACETONE	1400000	6000	9	416.84	9	10	21	NA	NA	52.5
CARBON DISULFIDE	36000		0.85		3 U	0.9 J	1 J	NA	NA	4.5 U
METHYLENE CHLORIDE	9100	100	370	21	3 JB	2 JB	2 JB	NA	NA	2 J
NAPHTHALENE	5600	4000	176		3 U	3 U	3 U	NA	NA	7.5 J
N-BUTYLBENZENE	58000				3 U	3 U	3 U	NA	NA	1.5 J
SEC-BUTYLBENZENE	45000				3 U	3 U	3 U	NA	NA	4.5 U
TERT-BUTYLBENZENE	53000				3 U	3 U	3 U	NA	NA	4.5 U
TOLUENE	66000	30000	50	24.95	3 U	3 U	3 U	NA	NA	4.5 U
2-METHYLNAPHTHALENE	5600	700	65		405 U	40 J	450 U	NA	NA	385 U
ACENAPHTHENE	5600	4000	150	83	405 U	220 J	450 U	NA	NA	385 U
ACENAPHTHYLENE	370000	1000	150	257.92	405 U	60 J	450 U	NA	NA	385 U
ANTHRACENE	2200000	1000000	57	435.6	134 J	640	120	NA	NA	385 U

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
Part 2 – Decision Summary**

**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 6**

SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
BENZO(A)ANTHRACENE	620	7000	108	1400	60	1600	260	NA	NA	116 J
BENZO(A)PYRENE	62	2000	150	3446.5	405 U	1300	250	NA	NA	118
BENZO(B)FLUORANTHENE	620	7000	1800	2000	143	1800	360	NA	NA	131
BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	405 U	700	450 U	NA	NA	385 U
BENZO(K)FLUORANTHENE	6200	70000	240	1100	405 U	370 U	150 J	NA	NA	385 U
BIS(2-ETHYLHEXYL)PHTHALATE	35000	200000	890000	640	140 J	89 J	130 J	NA	NA	126 BJ
BUTYL BENZYL PHTHALATE	1200000		11000	273.46	405 U	370 U	450 U	NA	NA	385 U
CARBAZOLE	24000			226.11	405 U	280 J	450 U	NA	NA	385 U
CHRYSENE	62000	70000	166	1700	72.5	1500	280	NA	NA	124 J
DIBENZO(A,H)ANTHRACENE	62	700	33	190	405 U	370 U	450 U	NA	NA	385 U
DIBENZOFURAN	15000		420	57	405 U	130 J	450 U	NA	NA	385 U
FLUORANTHENE	230000	1000000	420	3000	145	3100	640 E	NA	NA	145 J
FLUORENE	270000	1000000	77.4	130	405 U	330 J	450 U	NA	NA	385 U
INDENO(1,2,3-CD)PYRENE	620	7000	200	490	405 U	720	450 U	NA	NA	385 U
NAPHTHALENE	5600	4000	176		405 U	100 J	450 U	NA	NA	385 U
PHENANTHRENE	2200000	10000	204	1400	68.5	2400	470 E	NA	NA	120 J

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
Part 2 – Decision Summary**

**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 3 OF 6**

SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
PYRENE	230000	1000000	195	2300	140	3200	640 E	NA	NA	134
2-METHYLNAPHTHALENE	5600	700	65		8.1 U	NA	9 U	NA	NA	7.7 U
ACENAPHTHENE	5600	4000	150	83	8.1 U	NA	42	NA	NA	7.7 U
ACENAPHTHYLENE	370000	1000	150	257.92	8.1 U	NA	9 U	NA	NA	7.7 U
ANTHRACENE	2200000	1000000	57	435.6	11.4	NA	100 J	NA	NA	7.7 U
BENZO(A)ANTHRACENE	620	7000	108	1400	51.5 J	NA	250 J	NA	NA	26.5
BENZO(A)PYRENE	62	2000	150	3446.5	65.5	NA	200 J	NA	NA	29.5 J
BENZO(B)FLUORANTHENE	620	7000	1800	2000	87 J	NA	280 J	NA	NA	47 J
BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	33.5	NA	100	NA	NA	25.5
BENZO(K)FLUORANTHENE	6200	70000	240	1100	36.5	NA	140	NA	NA	17.1
CHRYSENE	62000	70000	170	1700	67.5 J	NA	250 J	NA	NA	35.5
DIBENZO(A,H)ANTHRACENE	62	700	33	190	8.1 U	NA	32	NA	NA	6.6
DIBENZOFURAN	15000		420	57	8.1 U	NA	9 U	NA	NA	7.7 U
FLUORANTHENE	230000	1000000	420	3000	125 J	NA	550	NA	NA	53.5
FLUORENE	270000	1000000	77.4	130	8.1 U	NA	53	NA	NA	7.7 U
INDENO(1,2,3-CD)PYRENE	620	7000	200	490	38	NA	120	NA	NA	22
NAPHTHALENE	5600	4000	176		8.1 U	NA	9 U	NA	NA	7.7 U

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
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**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 4 OF 6**

SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
PHENANTHRENE	2200000	10000	204	1400	63.5 J	NA	470	NA	NA	23.5
PYRENE	230000	1000000	195	2300	115 J	NA	550	NA	NA	47 J
4,4'-DDD	2400	4000	4.88	730	16.5	52	40	NA	NA	3.45
4,4'-DDE	1700	3000	3.16	234.28	4 U	5.7 P	8.5 P	NA	NA	3.85 U
4,4'-DDT	1700	3000	4.16	290	4 U	3.7 U	4.4 U	NA	NA	6.5 P
ALPHA-BHC	90		6		2.05 U	1.9 U	2.3 U	NA	NA	1.95 U
ALPHA-CHLORDANE	1620		3.24	12	11.5	15	33	NA	NA	2.95 P
AROCLOR-1254	220		59.8		40.5 U	37 U	45 U	36 U	40 U	39 U
AROCLOR-1260	220		59.8	230	185	430	730	140 P	170	115
BETA-BHC	320		5		2.05 U	1.9 U	2.3 U	NA	NA	1.95 U
DIELDRIN	30	50	1.9	17	4 U	3.7 U	5.8 P	NA	NA	3.85 U
ENDOSULFAN SULFATE	37000		5.5	2.3	12 P	58	45 P	NA	NA	3.85 U
ENDRIN ALDEHYDE	1800		2.22	11	4 U	5.8 P	4.4 U	NA	NA	3.85 U
GAMMA-BHC (LINDANE)	440	3	2.37		2.05 U	1.9 U	2.3 U	NA	NA	1.95 U
GAMMA-CHLORDANE	1620		3.24	14	11.5	14	42 D	NA	NA	1.95 U
ALUMINUM	7600		25500	8767.4	4860	3370	3730	NA	NA	3200
ANTIMONY	3.1	20	2	1.355	0.765 B	0.62 B	0.72 B	NA	NA	1.1 U

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
 UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
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**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 5 OF 6**

SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
ARSENIC	0.39	20	9.79	8.9	1.55	2	1.7	NA	NA	1.15
BARIUM	540	1000	48	202.48	23.6	16.8	14.9	NA	NA	13
BERYLLIUM	15	100		0.46	0.255 U	0.23 B	0.34	NA	NA	0.32 U
CADMIUM	3.7	2	0.99	1.95	0.415	0.78	0.37	NA	NA	0.32 U
CALCIUM				13900	862	833	760	NA	NA	710
CHROMIUM	210	30	43.4	11.92	7.35	9.6	5.6	NA	NA	3.75
COBALT	900		50	25.7	2.55 B	2.2 B	2.3 B	NA	NA	2.65 U
COPPER	310		31.6	53.3	7.25	21.5	12.3	NA	NA	5.1
IRON	2300		20000	24000	8180	5920	9260	NA	NA	5050
LEAD	400	300	35.8	200.86	18.2	608	28.1	NA	NA	13
MAGNESIUM				1683	1320	959	1690	NA	NA	1080
MANGANESE	180		460	3690	162	60.1	173	NA	NA	96.5
MERCURY	2.3	20	0.18	0.28	0.0195 U	0.028 B	0.023 B	NA	NA	0.036 U
NICKEL	160	20	22.7	11.71	4.8	5.8	5	NA	NA	2.8
POTASSIUM				603.24	252 B	146 B	145 B	NA	NA	200
SILVER	39	100	0.5	0.2	0.39 B	1.7	0.54 B	NA	NA	1.6 U
SODIUM				2180	35.9 B	27.1 B	34 B	NA	NA	53.5 U

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
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**TABLE 2-10A
TACAN OUTFALL, DOWNSTREAM OF WEIR – EXPLORATORY (2002) AND CONFIRMATORY (2003) SEDIMENT ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 6 OF 6**

SAMPLE_ID					NAS-TACAN-SD01-2002-AVG	NAS-TACAN-SD02-2002	NAS-TACAN-SD03-2002	NAS-TACAN-SD02N	NAS-TACAN-SD02S	TACAN-SD08-2003-AVG
LOCATION_ID					TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-02	TAC-SD-02	TAC-SD-08
SAMPLE_DATE					12/20/02	12/20/02	12/20/02	8/8/2003	8/8/2003	11/26/03
SITE	PRG	S1-GW1	ECODQL	BKG	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
THALLIUM	0.52	8			0.48 B	0.25 B	0.24 U	NA	NA	1.1 U
VANADIUM	7.8	600	57	38.18	11.6	12.8	11.4	NA	NA	9.3
ZINC	2300	2500	121	549	38.2	55.4	38.6	NA	NA	17.5

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED;
UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
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**TABLE 2-10B
TACAN OUTFALL, UPSTREAM OF WEIR – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 5**

FRACTION (UNITS)	SAMPLE ID	PRG	S1-GW1	ECODQL	BKG	TACAN-SD01-2003	TACAN-SD01A	TACAN-SD02-2003	TACAN-SD03-2003	TACAN-SD04-2003	TACAN-SD05-2003	TACAN-SD06-2003	TACAN-SD07-2003
	LOCATION ID					TAC-SD-01	TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-04	TAC-SD-05	TAC-SD-06	TAC-SD-07
	SAMPLE DATE					11/11/03	11/25/03	11/11/03	11/11/03	11/13/03	11/13/03	11/14/03	11/14/03
	SITE					TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
VOLATILES (UG/KG)	1,2,4-TRIMETHYLBENZENE	5200				4 U	NA	3 U	3 U	3 U	4 U	4 U	3 U
	1,2-DIBROMO-3-CHLOROPROPANE	460				4 U	NA	3 U	3 U	3 U	4 U	4 U	3 U
	2-BUTANONE	2200000	4000	270	330	4 U	NA	3 U	3 U	3 J	4 U	4 U	3 U
	2-HEXANONE			22	8	4 U	NA	3 U	3 U	3 U	4 U	4 U	3 U
	ACETONE	1400000	6000	9	416.84	64	NA	10	10	16	15	87 B	48 B
	CARBON DISULFIDE	36000		0.85		4 U	NA	0.7 J	3 U	1 J	4 U	4 U	3 U
	METHYLENE CHLORIDE	9100	100	370	21	3 J	NA	2 J	2 J	2 JB	2 JB	3 JB	2 JB
	NAPHTHALENE	5600	4000	176		6	NA	3 U	3 U	3 U	4 U	4 U	3 U
	N-BUTYLBENZENE	58000				4 U	NA	3 U	3 U	3 U	4 U	4 U	3 U
	SEC-BUTYLBENZENE	45000				4	NA	3 U	3 U	3 U	4 U	4 U	3 U
	TERT-BUTYLBENZENE	53000				2 J	NA	3 U	3 U	3 U	4 U	4 U	3 U
TOLUENE	66000	30000	50	24.95	4 U	NA	3 U	3 U	3 U	4 U	4 U	9	
SEMIVOLATILES (UG/KG)	2-METHYLNAPHTHALENE	5600	700	65		71 J	8 U	390 U	400 U	360 U	380 U	350 U	370 U
	ACENAPHTHENE	5600	4000	150	83	400 J	8 U	390 U	400 U	360 U	380 U	350 U	370 U
	ACENAPHTHYLENE	370000	1000	150	257.92	410 U	8 U	390 U	400 U	360 U	380 U	350 U	70 J
	ANTHRACENE	2200000	1000000	57	435.6	760	8 U	390 U	60 J	360 U	380 U	46 J	80 J

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
Part 2 – Decision Summary**

**TABLE 2-10B
TACAN OUTFALL, UPSTREAM OF WEIR – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 5**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	TACAN-SD01-2003	TACAN-SD01A	TACAN-SD02-2003	TACAN-SD03-2003	TACAN-SD04-2003	TACAN-SD05-2003	TACAN-SD06-2003	TACAN-SD07-2003
	LOCATION_ID					TAC-SD-01	TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-04	TAC-SD-05	TAC-SD-06	TAC-SD-07
	SAMPLE_DATE					11/11/03	11/25/03	11/11/03	11/11/03	11/13/03	11/13/03	11/14/03	11/14/03
	SITE					TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
BENZO(A)ANTHRACENE	620	7000	108	1400	2000	8 U	390 U	150	360 U	380 U	170	200	
BENZO(A)PYRENE	62	2000	150	3446.5	1800	8 U	390 U	150	360 U	380 U	190	200	
BENZO(B)FLUORANTHENE	620	7000	1800	2000	2600	8 U	390 U	200	360 U	380 U	250	220	
BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	990	8 U	390 U	100	360 U	380 U	130	120	
BENZO(K)FLUORANTHENE	6200	70000	240	1100	900	8 U	390 U	76	360 U	380 U	92 J	110	
BIS(2-ETHYLHEXYL)PHTHALATE	35000	200000	890000	640	2400 B	NA	59 JB	87 JB	100 JB	80 JB	86 JB	50 JB	
BUTYL BENZYL PHTHALATE	1200000		11000	273.46	170 J	NA	390 U	400 U	360 U	380 U	350 U	370 U	
CARBAZOLE	24000			226.11	360 J	NA	390 U	41 J	360 U	380 U	39 J	370 U	
CHRYSENE	62000	70000	166	1700	2400	8 U	390 U	170	360 U	380 U	180	230 J	
DIBENZO(A,H)ANTHRACENE	62	700	33	190	260 J	8 U	390 U	400 U	360 U	380 U	350 U	370 U	
DIBENZOFURAN	15000		420	57	190 J	8 U	390 U	400 U	360 U	380 U	350 U	370 U	
FLUORANTHENE	230000	1000000	420	3000	3200	8 U	390 U	300 J	360 U	380 U	350 J	370 J	
FLUORENE	270000	1000000	77.4	130	360 J	8 U	390 U	400 U	360 U	380 U	350 U	40 J	
INDENO(1,2,3-CD)PYRENE	620	7000	200	490	920	8 U	390 U	94	360 U	380 U	110	110	
NAPHTHALENE	5600	4000	176		75 J	8 U	390 U	400 U	360 U	380 U	350 U	370 U	
PHENANTHRENE	2200000	10000	204	1400	2700	8 U	390 U	250 J	360 U	380 U	170 J	280 J	
PYRENE	230000	1000000	195	2300	4000		390 U	280	360 U	380 U	320	330 J	

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

**Record of Decision
Naval Air Station South Weymouth
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**TABLE 2-10B
TACAN OUTFALL, UPSTREAM OF WEIR – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 3 OF 5**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	TACAN-SD01-2003	TACAN-SD01A	TACAN-SD02-2003	TACAN-SD03-2003	TACAN-SD04-2003	TACAN-SD05-2003	TACAN-SD06-2003	TACAN-SD07-2003
	LOCATION_ID					TAC-SD-01	TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-04	TAC-SD-05	TAC-SD-06	TAC-SD-07
	SAMPLE_DATE					11/11/03	11/25/03	11/11/03	11/11/03	11/13/03	11/13/03	11/14/03	11/14/03
	SITE					TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)	2-METHYLNAPHTHALENE	5600	700	65		69	NA	7.7 U	8 U	7.2 U	7.5 U	7.1 U	11
	ACENAPHTHENE	5600	4000	150	83	340	NA	7.7 U	27	7.2 U	7.5 U	23	10
	ACENAPHTHYLENE	370000	1000	150	257.92	83	NA	7.7 U	14	7.2 U	7.5 U	9.5	62
	ANTHRACENE	2200000	1000000	57	435.6	680	NA	7.7 U	57	7.2 U	7.5 U	41	59
	BENZO(A)ANTHRACENE	620	7000	108	1400	2000 E	NA	12	140 J	9.2	9.4	150 J	190 J
	BENZO(A)PYRENE	62	2000	150	3446.5	1500 E	NA	8.2	130 J	8.7	9	170 J	180 J
	BENZO(B)FLUORANTHENE	620	7000	1800	2000	2700 E	NA	12	160 J	13	14	200 J	200 J
	BENZO(G,H,I)PERYLENE	230000	1000000	170	374.77	790	NA	NA	81 J	7.4	7.5 U	110 J	95 J
	BENZO(K)FLUORANTHENE	6200	70000	240	1100	1100 E	NA	7.7 U	71 J	7.2 U	7.5 U	86	88 J
	CHRYSENE	62000	70000	170	1700	2200 E	NA	9.8	160 J	12	13	170 J	220
	DIBENZO(A,H)ANTHRACENE	62	700	33	190	40	NA	NA	31	7.2 U	7.5 U	36	34
	DIBENZOFURAN	15000		420	57	180	NA	NA	13	7.2 U	7.5 U	11	9.4
	FLUORANTHENE	230000	1000000	420	3000	3400 E	NA	NA	300	18	18	300	320
	FLUORENE	270000	1000000	77.4	130	320	NA	7.7 U	29	7.2 U	7.5 U	19	32
	INDENO(1,2,3-CD)PYRENE	620	7000	200	490	160	NA	NA	74 J	7.2 U	7.5 U	100 J	100 J
	NAPHTHALENE	5600	4000	176		71	NA	7.7 U	8.6	7.2 U	7.5 U	7.1 U	8.5
	PHENANTHRENE	2200000	10000	204	1400	2100 E	NA	7.7 U	220	9.2	11	140	210
PYRENE	230000	1000000	195	2300	3600 E	NA	14	260 J	17	18	300 J	330	

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-10B
TACAN OUTFALL, UPSTREAM OF WEIR – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 4 OF 5**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	TACAN-SD01-2003	TACAN-SD01A	TACAN-SD02-2003	TACAN-SD03-2003	TACAN-SD04-2003	TACAN-SD05-2003	TACAN-SD06-2003	TACAN-SD07-2003
	LOCATION_ID					TAC-SD-01	TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-04	TAC-SD-05	TAC-SD-06	TAC-SD-07
	SAMPLE_DATE					11/11/03	11/25/03	11/11/03	11/11/03	11/13/03	11/13/03	11/14/03	11/14/03
	SITE					TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
PESTICIDES/ PCBS (UG/KG)	4,4'-DDD	2400	4000	4.88	730	39	NA	3.9 U	19	3.6 U	3.7 U	6.6	3.7 U
	4,4'-DDE	1700	3000	3.16	234.28	4.1 U	NA	3.9 U	4 U	3.6 U	3.7 U	3.5 U	3.7 U
	4,4'-DDT	1700	3000	4.16	290	4.1 U	NA	3.9 U	4 U	3.6 U	3.7 U	3.5 U	3.7 U
	ALPHA-BHC	90		6		2.1 U	NA	2 U	9.3	1.8 U	1.9 U	1.8 U	1.9 U
	ALPHA-CHLORDANE	1620		3.24	12	17	NA	2 U	3.8 P	1.8 U	1.9 U	4	1.9 U
	AROCLOR-1254	220		59.8		41 U	NA	39 U	40 U	36 U	37 U	35 U	37 U
	AROCLOR-1260	220		59.8	230	300	NA	39 U	400	36 U	37 U	130	37 U
	BETA-BHC	320		5		2.1 U	NA	2 U	3.4	1.8 U	1.9 U	1.8 U	1.9 U
	DIELDRIN	30	50	1.9	17	4.1 U	NA	3.9 U	4 U	3.6 U	3.7 U	3.5 U	3.7 U
	ENDOSULFAN SULFATE	37000		5.5	2.3	4.1 U	NA	3.9 U	4 U	3.6 U	3.7 U	3.5 U	3.7 U
	ENDRIN ALDEHYDE	1800		2.22	11	4.1 U	NA	3.9 U	4 U	3.6 U	3.7 U	3.5 U	3.7 U
	GAMMA-BHC (LINDANE)	440	3	2.37		2.1 U	NA	2 U	2.4	1.8 U	1.9 U	1.8 U	1.9 U
	GAMMA-CHLORDANE	1620		3.24	14	21	NA	2 U	6 P	1.8 U	1.9 U	4.3	1.9 U
METALS (MG/KG)	ALUMINUM	7600		25500	8767.4	5100	NA	4400	4900	3700	4000	3200	4700
	ANTIMONY	3.1	20	2	1.355	1.1 U	NA	1.1 U	1.1 U	1.1 U	1.1 U	0.97 U	1 U
	ARSENIC	0.39	20	9.79	8.9	1.6	NA	1.1 U	1.2	1.3	1.5	1.1	2.5
	BARIIUM	540	1000	48	202.48	21	NA	11 U	11 U	16	11 U	22	210

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-10B
TACAN OUTFALL, UPSTREAM OF WEIR – 2003 SEDIMENT CONFIRMATORY ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 5 OF 5**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1-GW1	ECODQL	BKG	TACAN-SD01-2003	TACAN-SD01A	TACAN-SD02-2003	TACAN-SD03-2003	TACAN-SD04-2003	TACAN-SD05-2003	TACAN-SD06-2003	TACAN-SD07-2003
	LOCATION_ID					TAC-SD-01	TAC-SD-01	TAC-SD-02	TAC-SD-03	TAC-SD-04	TAC-SD-05	TAC-SD-06	TAC-SD-07
	SAMPLE_DATE					11/11/03	11/25/03	11/11/03	11/11/03	11/13/03	11/13/03	11/14/03	11/14/03
	SITE					TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall	TACAN Outfall
BERYLLIUM		15	100		0.46	0.32	NA	0.32 U	0.52	0.33 U	0.33 U	0.29 U	0.3 U
CADMIUM		3.7	2	0.99	1.95	0.35	NA	0.32 U	0.32 U	0.33 U	0.33 U	0.44	0.36
CALCIUM					13900	1300	NA	970	900	750	650	620	520
CHROMIUM		210	30	43.4	11.92	7.5	NA	4.8	8.3	5.3	5	4.3	8.8
COBALT		900		50	25.7	3.6	NA	3.6	2.8	2.7 U	2.7 U	2.9	2.5
COPPER		310		31.6	53.3	11	NA	6.2	8.2	4.4	4.9	6.8	6.9
IRON		2300		20000	24000	9400	NA	7100	7900	5300	8100	5700	9500
LEAD		400	300	35.8	200.86	57	NA	4.6	17	4.8	5.6	16	18
MAGNESIUM					1683	1500	NA	1700	2100	1100	1600	1400	1400
MANGANESE		180		460	3690	140	NA	91	110	78	140	88	130
MERCURY		2.3	20	0.18	0.28	0.034 U	NA	0.036 U	0.036 U	0.033 U	0.038 U	0.033 U	0.032 U
NICKEL		160	20	22.7	11.71	3.6	NA	7.1	5.8	3.8	5.2	4	3.5
POTASSIUM					603.24	250 B	NA	210 B	200 B	160 B	160 B	170	240
SILVER		39	100	0.5	0.2	2.1	NA	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.5 U
SODIUM					2180	53 U	NA	54 U	53 U	54 U	55 U	48 U	50 U
THALLIUM		0.52	8			2.5	NA	1.1 U	1.1 U	1.1 U	1.1 U	0.97 U	1 U
VANADIUM		7.8	600	57	38.18	18	NA	14	12	9.6	11	11	15
ZINC		2300	2500	121	549	38	NA	27	32	20	21	31	20

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**TABLE 2-10C
2003 CONFIRMATORY PCB ANALYTICAL RESULTS - TACAN OUTFALL, UPSTREAM OF WEIR
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 1**

SAMPLE ID	SAMPLE DATE	AROCLOR-1254 (ug/kg)	AROCLOR-1260 (ug/kg)
TACAN-SD01	11/11/03	41 U	300
TACAN-SD01E	11/11/03	35 U	720
TACAN-SD01W	11/11/03	40	43 U
TACAN-SD01A	11/25/03	NA	NA
TACAN-SD02	11/11/03	39 U	39 U
TACAN-SD02E	11/11/03	47 U	47 U
TACAN-SD02W	11/11/03	35 U	35 U
TACAN-SD03	11/11/03	40 U	400
TACAN-SD03E	11/11/03	36 U	36 U
TACAN-SD03W	11/11/03	43 U	66
TACAN-SD04	11/13/03	36 U	36 U
TACAN-SD04E	11/13/03	37 U	320
TACAN-SD04W	11/13/03	36 U	36 U
TACAN-SD05	11/13/03	37 U	37 U
TACAN-SD05E	11/13/03	40 U	40 U
TACAN-SD05W	11/13/03	40 U	40 U
TACAN-SD06	11/14/03	35 U	130
TACAN-SD06E	11/14/03	38 U	82
TACAN-SD06W	11/14/03	40 U	590
TACAN-SD07	11/14/03	37 U	37 U
TACAN-SD07E	11/14/03	38 U	50
TACAN-SD07W	11/14/03	38 U	38 U

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.

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**TABLE 2-10D
2008 PCB ANALYTICAL RESULTS - TACAN OUTFALL, UPSTREAM OF WEIR
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 1**

SAMPLE ID	LOCATION DESCRIPTION	SAMPLE DATE	AROCOR-1260
TO-SS01-0608	W side of ditch, ~25 ft S of TO-100-SB-04 (TACAN-SD01)	6/18/2008	37 UJ
TO-SS01-DUP01-0608	W side of ditch, ~25 ft S of TO-100-SB-04 (TACAN-SD01)	6/18/2008	40 J
TO-SS02-0608	W side of ditch, ~25 ft N of TO-200-SB-06 (TACAN-SD02)	6/18/2008	38 U
TO-SS03-0608	W side of ditch, ~50 ft S of TO-300 and 50 ft N of TO-400 (TACAN-SD03/TACAN-SD04)	6/18/2008	36 U
TO-SS04-0608	E side of ditch, ~25 ft S of TO-100-SB-04 (TACAN-SD01)	6/18/2008	38 U
TO-SS05-0608	E side of ditch, ~25 ft S of TO-100-SB-04 (TACAN-SD01)	6/18/2008	60
TO-SS06-0608	W side of ditch, ~50 ft S of TO-300 and 50 ft N of TO-400 (TACAN-SD03/TACAN-SD04)	6/18/2008	38 U

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND; U - NOT DETECTED; UJ - DETECTION LIMIT APPROXIMATE; J - QUANTITATION LIMIT APPROXIMATE; NA - NOT ANALYZED

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**TABLE 2-11
STORM DRAINAGE SYSTEM - 2007 SOIL ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 1 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1- GW1	BKG	WEMD- DP-01- 7.5-9.5	WEMD- DP-02- 7.5-9.5	WEMD- DP-03- 8.7-10.7	WEMD- DP-04- 7.1-9.1	WEMD- DP-05-8- 10	WEMD- DP-06-11- 13-AVG	WEMD- DP-13- 9.9-11.9	WEMD- DP-14- 7.0-9.0
	LOCATION_ID				WEMD- DP-01	WEMD- DP-02	WEMD- DP-03	WEMD- DP-04	WEMD- DP-05	WEMD- DP-06	WEMD- DP-13	WEMD- DP-14
	TOP_DEPTH				7.5	7.5	8.7	7.1	8	11	9.9	7
	BOTTOM_DEPTH				9.5	9.5	10.7	9.1	10	13	11.9	9
	SAMPLE_DATE				08/02/07	08/02/07	08/01/07	08/02/07	08/02/07	08/02/07	08/01/07	08/01/07
	SITE				RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
VOLATILES (UG/KG)	ACETONE	1400000	6000	59.75	8.6 U	9.2 U	39	11	9 U	27.5	13	13
	CARBON DISULFIDE	36000			1.7 U	1.8 U	2 U	2 U	1.8 U	0.875 J	2.7 U	1.5 U
SEMIVOLATILES (UG/KG)	BIS(2-ETHYLHEXYL) PHTHALATE	35000	200000	205	270 U	270 U	270 U	280 U	300 U	295 U	335	165 J
PESTICIDES/ PCBS (UG/KG)	AROCLOR-1260	220	59.8	230	155	23	17 U	17 U	18 U	18 U	17 U	17 U
METALS (MG/KG)	ALUMINUM	7600		8518.54	5480	8250	6050	4780	3510	5160	6250	5710
	ANTIMONY	3.1	20	3.65	0.44 B	0.48 B	0.46 B	0.42 B	0.31 B	0.32 B	0.26 B	0.37 B
	ARSENIC	0.39	20	1.89	1.9	2	1.6	1.8	1.1	0.835 B	1.5	1.4
	BARIUM	540	1000	27.03	12.6 B	26.2	21.5	14.1 B	17 B	9.7 B	11.7 B	15.2 B
	BERYLLIUM	15	100	0.44	0.14 B	0.07 B	0.14 B	0.18 B	0.092 B	0.043 B	0.045 B	0.072 B
	CADMIUM	3.7	2	0.115	0.09 B	0.43	0.17 B	0.088 B	0.054 B	0.047 B	0.033 B	0.035 U
	CALCIUM			1546.58	1600	19700	6450	981	1020	964	1030	1040
	CHROMIUM	210	30	10.15	10.7	9.7	8.7	7.4	5.5	5.5	7.3	7.2
	COBALT	900		4.74	3.9 B	4.3	3.8 B	2.8 B	2.1 B	2.35 B	2.8 B	2.3 B
	COPPER	310		14.2	5	12.2	6.3	6	4.2	4.85	6.4	4.4

Note: PCB concentrations were screened against the Toxic Substances Control Act (TSCA) criterion of 1 mg/kg (1000 ug/kg) to determine the need for a removal action.
 GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
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**TABLE 2-11
STORM DRAINAGE SYSTEM - 2007 SOIL ANALYTICAL RESULTS
AREA OF CONCERN 61 – TACAN OUTFALL AND ASSOCIATED AREAS
NAS SOUTH WEYMOUTH, WEYMOUTH, MASSACHUSETTS
PAGE 2 OF 2**

FRACTION (UNITS)	SAMPLE_ID	PRG	S1- GW1	BKG	WEMD- DP-01- 7.5-9.5	WEMD- DP-02- 7.5-9.5	WEMD- DP-03- 8.7-10.7	WEMD- DP-04- 7.1-9.1	WEMD- DP-05-8- 10	WEMD- DP-06-11- 13-AVG	WEMD- DP-13- 9.9-11.9	WEMD- DP-14- 7.0-9.0
	LOCATION_ID				WEMD- DP-01	WEMD- DP-02	WEMD- DP-03	WEMD- DP-04	WEMD- DP-05	WEMD- DP-06	WEMD- DP-13	WEMD- DP-14
	TOP_DEPTH				7.5	7.5	8.7	7.1	8	11	9.9	7
	BOTTOM_DEPTH				9.5	9.5	10.7	9.1	10	13	11.9	9
	SAMPLE_DATE				08/02/07	08/02/07	08/01/07	08/02/07	08/02/07	08/02/07	08/01/07	08/01/07
	SITE				RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061	RIA 061
IRON		2300		11448.9	13200	10300	10300	8480	6500	6760	9680	7940
LEAD		400	300	9.27	9.2	12.2	8	6.3	3.5	3.8	5.8	5.5
MAGNESIUM				2246.08	2770	3360	2670	1760	1400	1620	2250	1520
MANGANESE		180		413.84	288	234	261	101	75	84.8	143	95.5
MERCURY		2.3	20	0.11	0.017 U	0.016 U	0.017 U	0.11	0.017 U	0.016 U	0.017 U	0.018 U
NICKEL		160	20	6.5	6.4	7.2	6.1	4.5	3.6	4.5	5.9	4.2
POTASSIUM				457.21	271 B	374 B	374 B	287 B	284 B	290 B	276 B	357 B
SODIUM				144	108 U	99.1 U	128 B	104 U	108 U	107 U	99.7 U	129 B
VANADIUM		7.8	600	17.08	16.2	15.1	15.5	11.8	11.8	10.8	11	12
ZINC		2300	2500	28.74	24.6	60.7	30.2	23.4	15.4	17.4	26.2	34.7
MISCELLANEOUS PARAMETERS (%)	PERCENT SOLIDS				87.2	93.1	NA	86.2	86.3	85.6	NA	NA

GREY - EXCEEDS RISK CRITERIA, BLACK - EXCEEDS SCREENING CRITERIA AND BACKGROUND; BOLD - EXCEEDS BACKGROUND;
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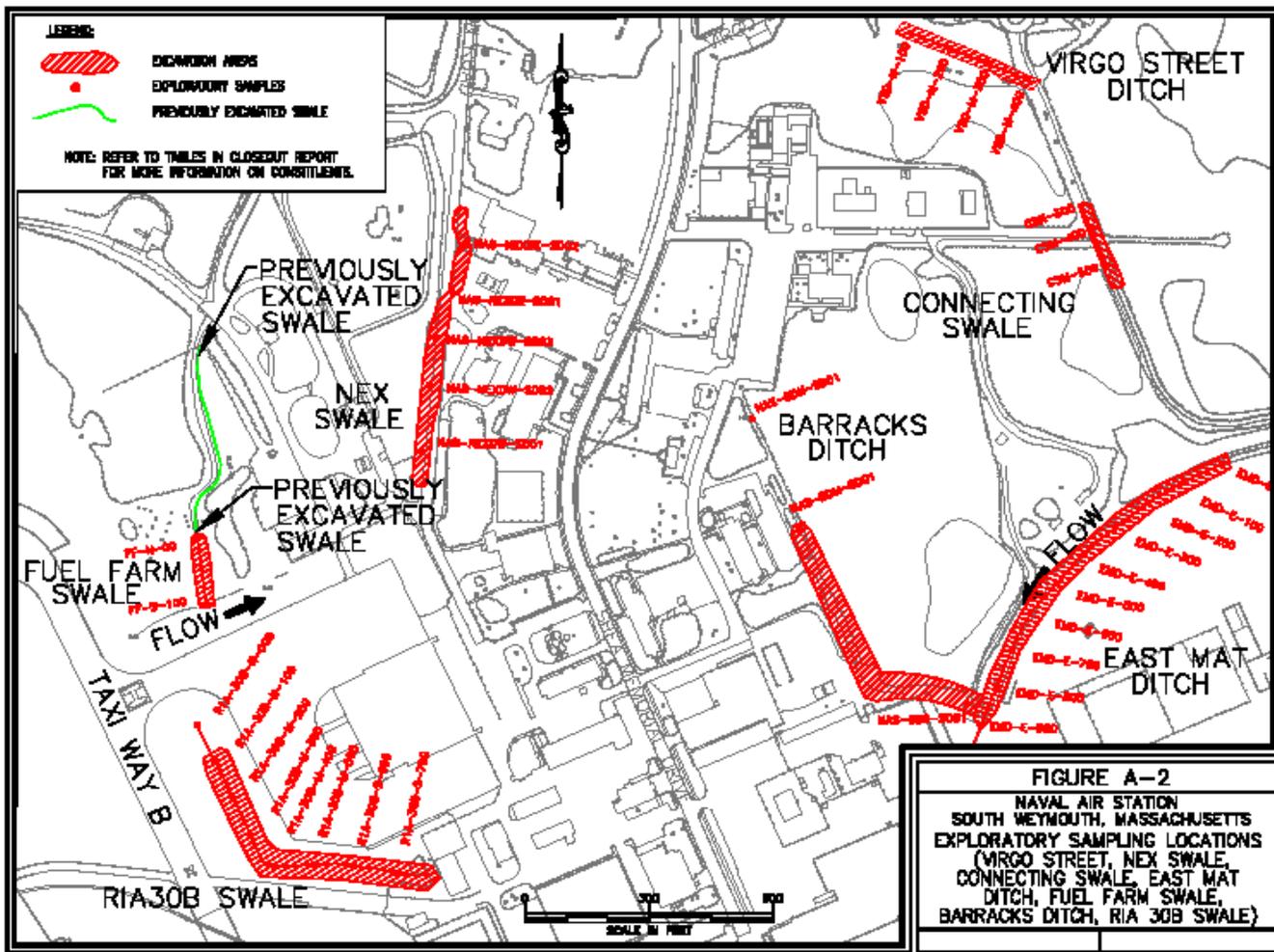


Figure 2-2: Northern Removal Action Excavation Limits and Exploratory Sample Locations

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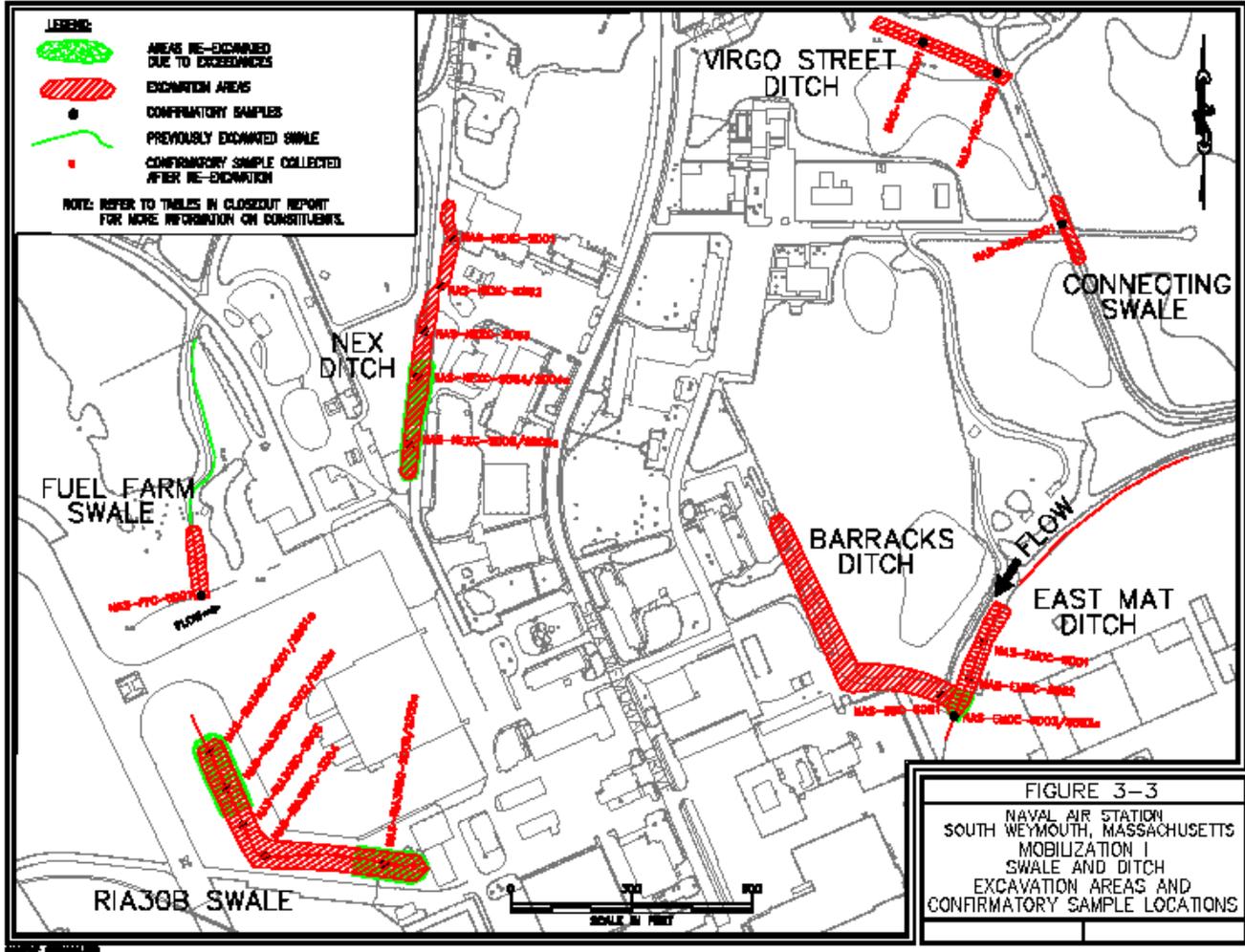


Figure 2-3: Mobilization I Swale and Ditch Excavation Areas and Confirmatory Sample Locations

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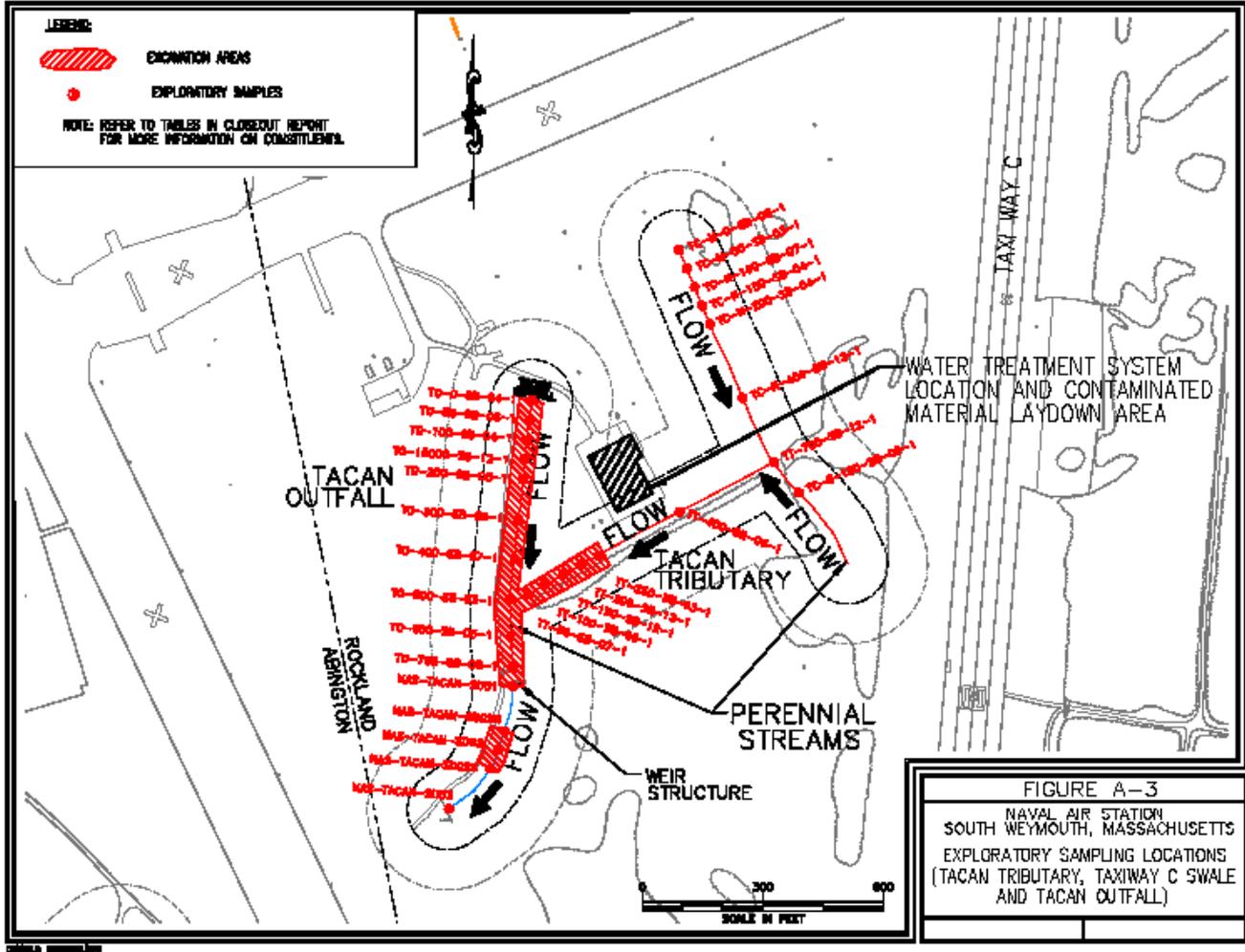


Figure 2-4: Southern Removal Action Excavation Limits and Exploratory Sample Locations

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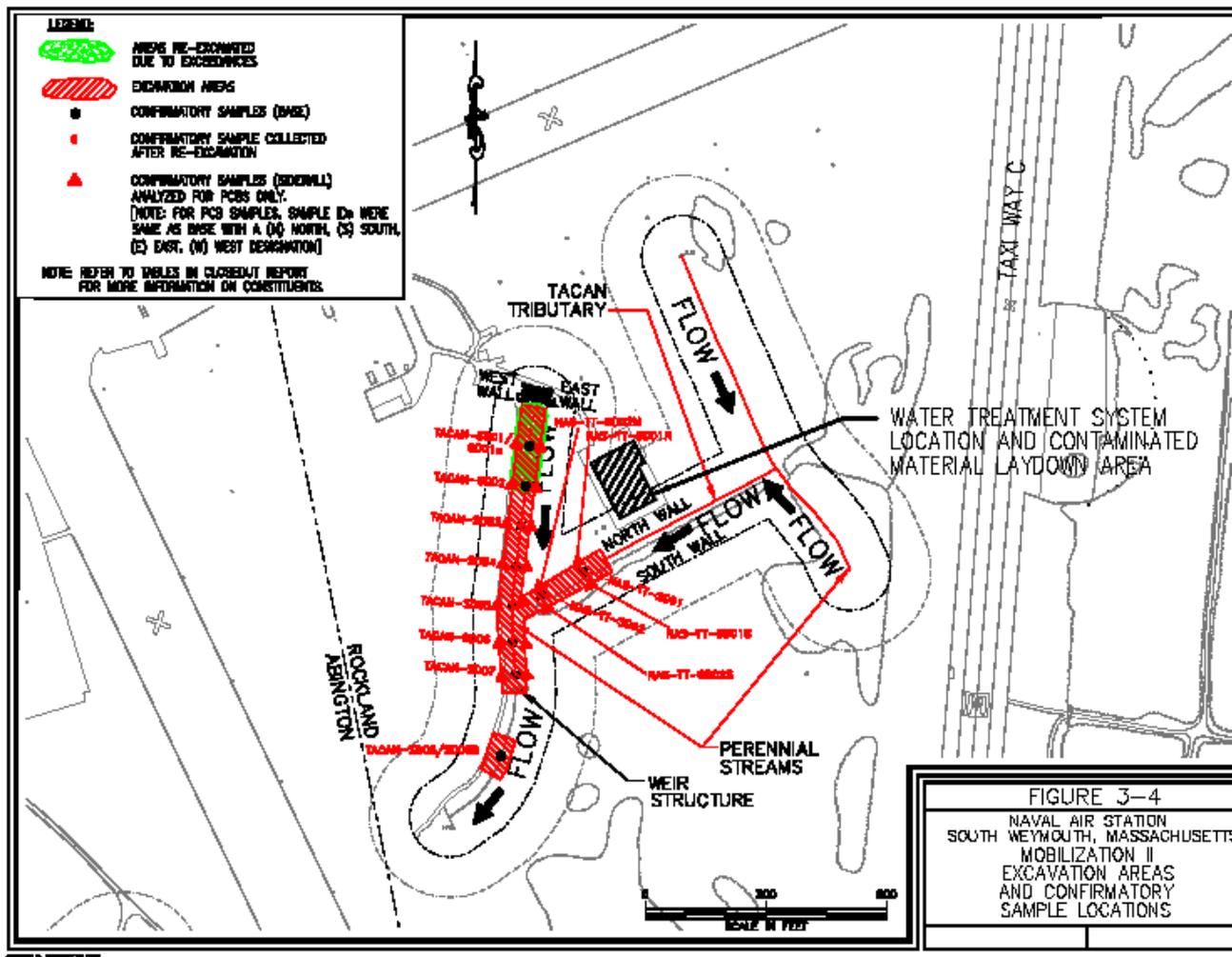


Figure 2-5: Mobilization II Excavation Limits and Confirmatory Sample Locations

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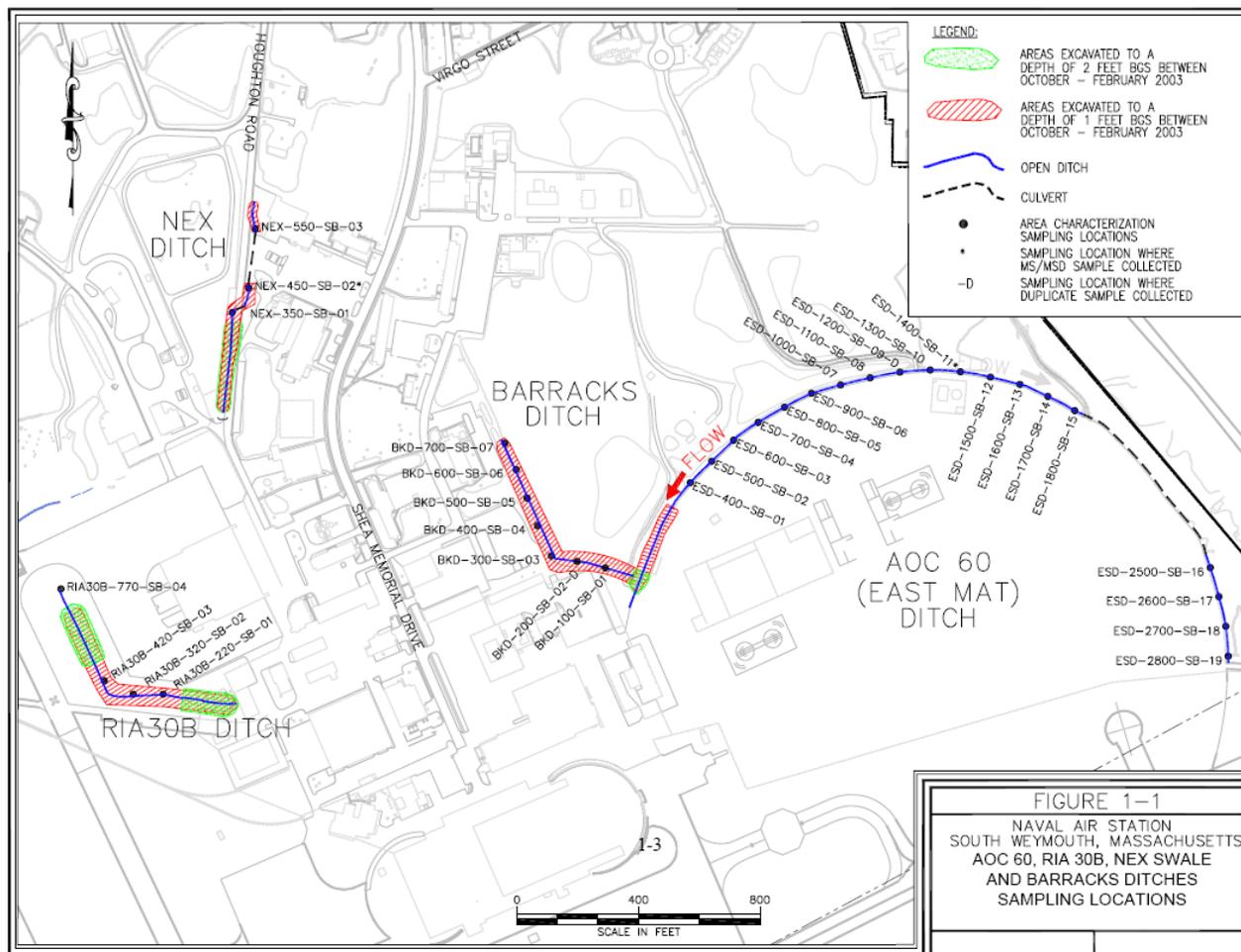


FIGURE 2-6

Figure 2-6: 2006 Sediment Sampling Locations

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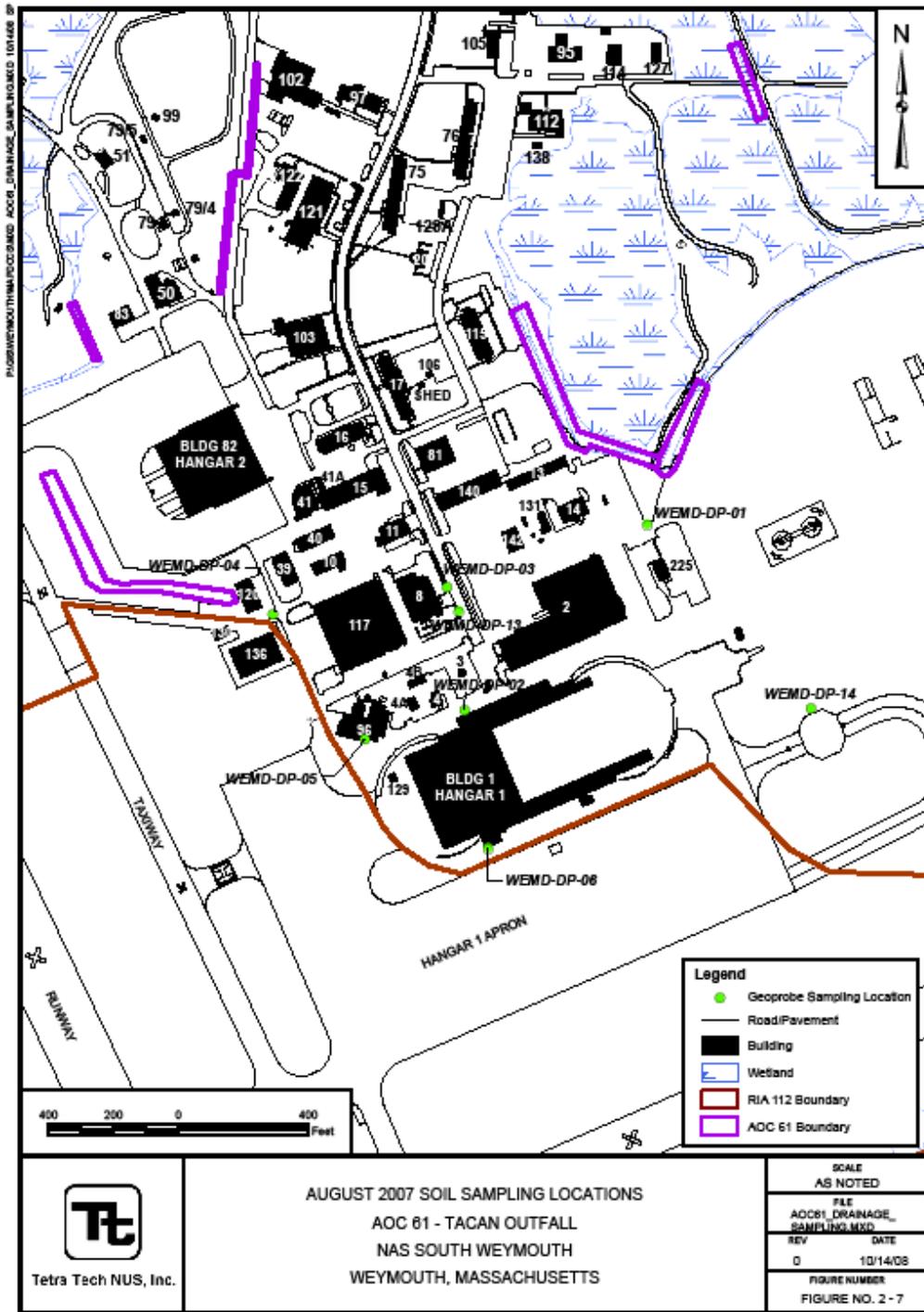


Figure 2-7: August 2007 Soil Sampling Locations

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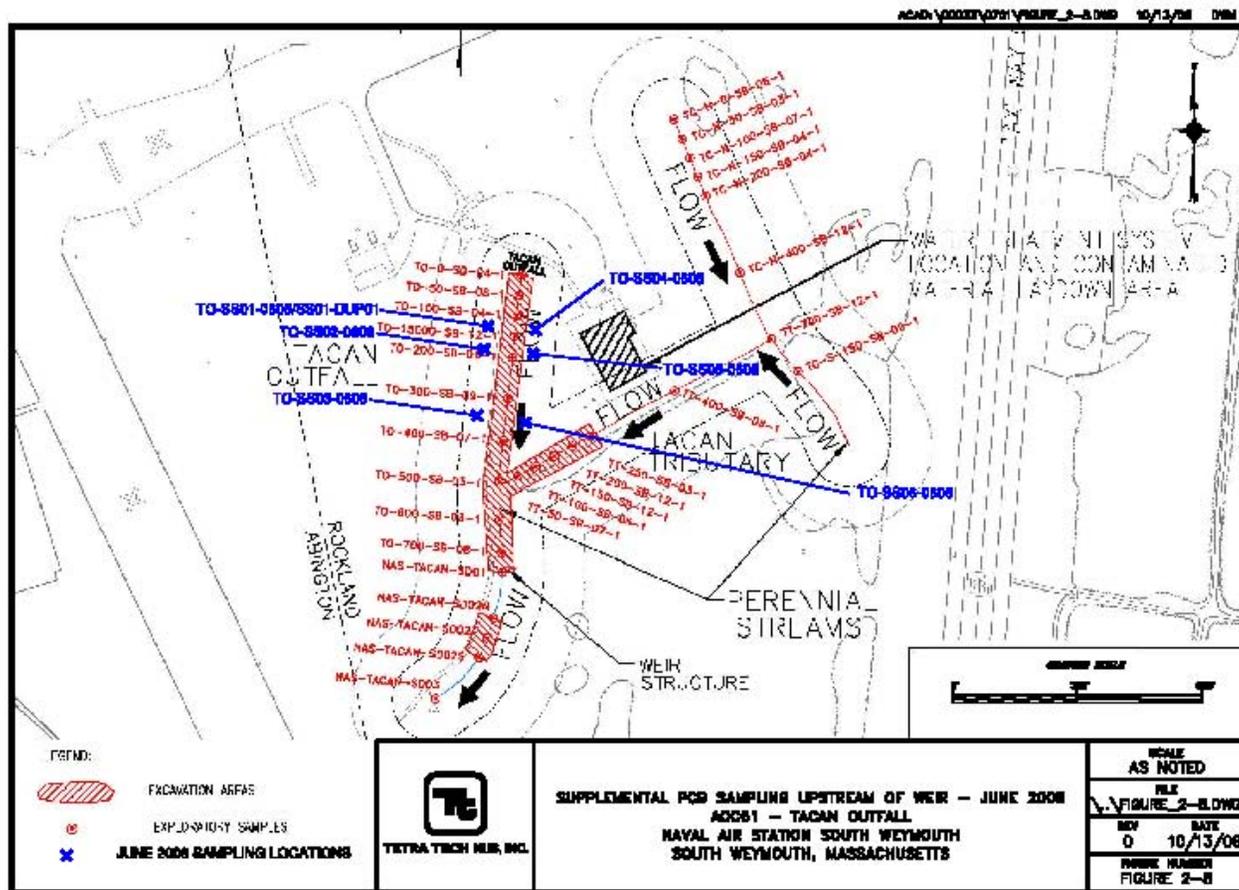


Figure 2-8 Supplemental PCB Sampling – June 2008

PART 3—RESPONSIVENESS SUMMARY

I. STAKEHOLDER ISSUES AND NAVY RESPONSES

The Navy held a Public Hearing for the Proposed Plan for Areas of Concern (AOCs) 60 and 61 on October 16, 2008; verbal comments were received from three individuals. A copy of the transcript for the public hearing is provided as Appendix E1. Responses to the verbal comments are provided in Section III of this Responsiveness Summary. No written comments concerning AOC 61 were received during the public comment period.

II. TECHNICAL AND LEGAL ISSUES

The Navy has reviewed all comments received and the Navy does not believe any of the public hearing comments necessitate a change from the No Further Action proposal for AOC 61.

Therefore, the Navy and EPA believe that there is sufficient technical basis to proceed with the No Further Action ROD for AOC 61. By proceeding with this ROD, the Navy has completed all required CERCLA actions/investigations at the site.

III. COMMENT RESPONSES

Verbal Comments and Response

Note that the following verbal comments are paraphrased. Refer to the hearing transcript (Appendix E.1) for the complete version of the comments recorded during the public hearing held on October 16, 2008.

1. Comment from Harvey Welch, Weymouth—Mr. Welch asked if there would be any other testing in the future now that Navy has confirmed there are no concerns at AOC 61.

Response—The process followed to investigate the site and to collect and evaluate the data led to a conclusion that the removal actions reduced the identified risks to a point where there is no unacceptable risk to human health or the environment. In accordance with CERCLA, if no unacceptable risks to human health or the environment are identified, No Further Action is required. EPA and MassDEP have concurred with this decision. As a result no other testing at this site is required.

2. Comment from Peter Scannell, Weymouth—Mr. Scannell expressed a concern that AOC 61 will not be identified in perpetuity as an area of concern. In addition, he stated that he feels it is unacceptable that there are acceptable levels of risk associated with the site.

Response— When property is transferred, the Finding of Suitability to Transfer (FOST) document is incorporated into the deed. The FOST will contain information about the environmental conditions on the property to be transferred, including closed environmental sites and a notice of any CERCLA hazardous substances known to have been present on the property. Therefore via the deed, future property owners would be informed of the environmental conditions of the property.

The data for the post-excavation samples collected during the removal action were screened against human health and ecological benchmarks, and basewide background levels. Based on the conclusion that the contaminants of concern had been removed or their concentrations significantly reduced, and no further action is required, there are no restrictions on the site regarding future use. The concentrations of various chemicals that remain at the site do not pose an unacceptable risk to human health or the

**Record of Decision
Naval Air Station South Weymouth
Part 3—Responsiveness Summary**

environment as defined by CERCLA. This conclusion is consistent with the CERCLA process used to evaluate risk at Superfund sites, including the sites at NAS South Weymouth.

3. Comment from James Cunningham, Weymouth—Mr. Cunningham commented that he thinks the Navy is doing a good job cleaning up the Base and is pleased that contaminated sediments and soils have been removed from these sites. He also expressed a concern that closing the Naval Air Station was a mistake and will prove detrimental to military recruitment and preparedness and will have an impact on the regional economy and national security.

Response—The Navy appreciates Mr. Cunningham's recognition of the work performed in cleaning up the environmental sites at the Base.

**Record of Decision
Naval Air Station South Weymouth
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**APPENDIX A: MASSACHUSETTS DEPARTMENT OF
ENVIRONMENTAL PROTECTION LETTER OF CONCURRENCE**

Refer to attached copy.



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

Mr. James T. Owens, Director
Office of Site Remediation and Restoration
U.S. Environmental Protection Agency
One Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Record of Decision
Area of Concern 61
Former South Weymouth NAS
MassDEP RTN 4-3002621
February 13, 2009

Dear Mr. Owens:

The Massachusetts Department of Environmental Protection (MassDEP) has reviewed the *Record of Decision, Area of Concern 61 – TACAN Outfall and Associated Areas, Naval Air Station South Weymouth*, dated December 2008. The Record of Decision (ROD) summarizes the results from the investigations conducted during the Environmental Baseline Survey (EBS) and the results from the removal actions that were conducted to address unacceptable risks to human health of the environment, and documents the Navy's rationale for selecting a No Further Action decision for the site. MassDEP concurs with the selected decision.

If you have any questions or comments, please contact David Chaffin, Project Manager (617-348-4005), or Anne Malewicz, Federal Facilities Section Chief (617-292-5659).

Sincerely,

Janine Commerford
Assistant Commissioner

CC: D. Barney, USN-S. Weymouth
K. Keckler, USEPA
Executive Director, SSTDC
RAB Members
J. Naparstek, MADEP-Boston

**Record of Decision
Naval Air Station South Weymouth
Appendices**

APPENDIX B: REFERENCES

Environmental Protection Agency (EPA), 2004b. Region 9 Preliminary Remediation Goals Table [URL: <http://www.epa.gov/region09/waste/sfund/prg/files/04prgtable.pdf>], October 2004.

EPA, 2004a. Comments on the Draft Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation at the Naval Air Station South Weymouth, Massachusetts. Correspondence from Patty Whittemore, EPA, to Mark Leipert, Navy. October 6, 2004.

Foster Wheeler, 2002. Draft Engineering Evaluation and Cost Analysis (Final EE/CA) for TACAN Outfall Sediment Removal and Storm Water Sewer System Cleaning at the Former Naval Air Station South Weymouth in South Weymouth, MA. October 23, 2002.

Foster Wheeler, 2003. TACAN Downstream Investigative Sampling Results. Correspondence from Tracey Martorano, Foster Wheeler Environmental Corporation to Frank Cellucci and Mark Leipert, Navy. September 4, 2003.

South Shore Tri-Town Development Corporation (SSTTDC), 2005a. Zoning and Land Use By-Laws for the Naval Air Station South Weymouth. May 5, 2005.

SSTTDC, 2005b. Reuse Plan for Naval Air Station South Weymouth. May 5, 2005.

Stone & Webster Environmental Technology & Services (Stone & Webster), 1996. Final Report, Phase I Environmental Baseline Survey. November 1996.

Stone & Webster, 2004. Environmental Baseline Survey Phase II, South Weymouth Naval Air Station – Project Memorandum. Correspondence from Kathleen Creighton, Stone & Webster to Mark Leipert, Navy. December 9, 2004.

Tetra Tech EC, Inc., (TtEC) 2005. Final Engineering Evaluation and Cost Analysis (Final EE/CA) for TACAN Outfall Sediment Removal and Storm Water Sewer System Cleaning at the Former Naval Air Station South Weymouth in South Weymouth, MA. April 1, 2005.

TtEC, 2007a. Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale, and Barracks Ditches at Naval Air Station South Weymouth, South Weymouth, Massachusetts. October 10, 2007.

TtEC, 2007b. Results of August 2007 Sampling Events for the West Mat and East Mat Storm Drainage Systems and Associated Outfalls at Naval Air Station, South Weymouth, Massachusetts. December 4, 2007.

Tetra Tech EC, Inc., (TtEC) 2008. Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation at the Naval Air Station South Weymouth, Massachusetts. August 25, 2008.

Tetra Tech NUS (TtNUS), 2007. Site Management Plan, Revision 7.0, Naval Air Station South Weymouth, Massachusetts. September 2007.

TtNUS, 2008. Technical Memorandum for Area of Concern 61, Tactical Air Navigation (TACAN) Outfall, Naval Air Station South Weymouth, Massachusetts. August 2008.

**Record of Decision
Naval Air Station South Weymouth
Appendices**

APPENDIX C: GLOSSARY

Area of Concern (AOC)—An area initially identified during the Environmental Baseline Survey as a Review Item Area (RIA) and currently being investigated under CERCLA. These sites require either removal actions or risk assessments to identify the potential current and future effects on human health and the environment.

Background Level—Chemicals or concentrations of chemicals present in the environment due to naturally occurring geochemical processes and sources, or to human activities not related to specific point sources or site releases.

Benchmark—Concentration of a chemical considered to be protective of human health or the environment.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)—A federal law passed in 1980 and amended in 1986 by the Superfund Amendments and Reauthorization Act. The Act created a special tax that goes into a Trust Fund, commonly known as Superfund, to investigate and clean up abandoned or uncontrolled hazardous waste sites. Navy compliance with CERCLA/Superfund Amendments and Reauthorization Act (see Installation Restoration Program definition) is funded by the Department of Defense under the Defense Environmental Restoration Act.

Contaminant of Potential Concern (COPC)—A compound or element identified as a possible source of risk, based upon a comparison between the chemical concentration and established screening levels.

Engineering Evaluation and Cost Analysis (EE/CA) — A description and engineering study of potential cleanup alternatives, e.g., removal actions, for a site.

Environmental Baseline Survey (EBS)—An environmental assessment conducted by the Navy at bases that have been closed under the Base Realignment and Closure (BRAC) Act.

Groundwater—Water found beneath the Earth's surface in soil pore spaces and fractures in geologic formations. When formations yield water in sufficient quantity and quality (i.e., an aquifer), groundwater is often used as a water supply.

National Priorities List (NPL)—U.S. Environmental Protection Agency's list of sites for priority cleanup under the Superfund program.

No Further Action—Under CERCLA, if remediation is conducted in order to achieve the condition of no unacceptable risk, then the site requires "no further action" under CERCLA.

Polycyclic Aromatic Hydrocarbons (PAHs)—Chemical compounds such as benzo(a)pyrene, naphthalene, anthracene, and phenanthrene, which are usually byproducts of incomplete combustion. PAHs can occur naturally (i.e. from forest fires) and as the consequence of human activities.

Preliminary Remediation Goals (PRGs) — Target cleanup concentrations for individual contaminants of concern in each media.

Proposed Plan—A CERCLA document that summarizes the lead agency's (in this case, the Navy's) preferred cleanup remedy for a site and provides the public with information on how they can participate in the remedy selection process.

**Record of Decision
Naval Air Station South Weymouth
Appendices**

Receptors—The ecological entity exposed to a stressor (i.e., any physical, chemical, or biological entity that can induce an adverse response to an individual organism or to an ecosystem).

Record of Decision (ROD)—A legal, technical, and public document under CERCLA that explains the rationale and final cleanup decision for a site. It contains a summary of the public's involvement in the cleanup decision.

Removal Action— A type of short-term cleanup that can be conducted at any time during the CERCLA process to address threats to human health or the environment. Typically, "time critical" removal actions are conducted when it is determined that less than 6 months are available before site activities must be initiated and when the site has less complex or less extensive contamination than sites that would require long-term cleanup. An Action Memorandum is prepared to outline the removal action.

Responsiveness Summary—A CERCLA document containing the responses to the formal comments submitted by the public regarding the Proposed Plan. This summary is issued as an appendix to the ROD.

Review Item Area (RIA)—A site identified during a Phase I EBS that required further study for potential contamination.

Toxic Substances Control Act (TSCA) – A federal law passed in 1976 to regulate industrial chemicals produced or imported into the United States. PCBs are regulated under TSCA.

**Record of Decision
Naval Air Station South Weymouth
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APPENDIX D: ADMINISTRATIVE RECORD INDEX

File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
1.0 SITE ASSESSMENT									
1.8 Environmental Baseline Survey									
1.8		1.8-1	R	Phase I Environmental Baseline Survey	11/96	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide
1.8		1.8-2	R	Phase I EBS Report Errata	11/10/97	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide
1.9 Work Plans									
1.9		1.9-1	R	Final Phase II Environmental Baseline Survey Sampling Work Plan (Rev. 1)	10/13/98	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide RIAs
1.9		1.9-2	L	Meeting Minutes Streamlined Risk Assessment Process South Weymouth Naval Air Station	9/00	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	Basewide
1.9		1.9-6	R	Draft Sampling Plan for AOC 60, RIA 30B, Barracks Ditches	9/20/06	TtEC	U.S. Department of the Navy	A.R. File	60, 61, 30B
1.9		1.9-7	L	[Comments on the] Draft Sampling Plan for AOC 60, RIA 30B, Barracks Ditches	10/5/06	MassDEP	U.S. Department of the Navy	A.R. File	60, 61, 30B
1.9		1.9-9	L	[Comments on the] Draft Sampling Plan for AOC 60, RIA 30B, Barracks Ditches	10/5/06	EPA	U.S. Department of the Navy	A.R. File	60, 61, 30B
1.9		1.9-11	R	Final Sampling Plan for AOC 60, RIA 30B, Barracks Ditches	12/06	TtEC	U.S. Department of the Navy	A.R. File	60, 61, 30B
1.9		1.9-13	L	[Comments on the] Final Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale, and Barracks Ditches	6/5/07	MassDEP	U.S. Department of the Navy	A.R. File	60, 61, 30B,
1.9		1.9-14	L	[Comments on the] Final Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale, and Barracks Ditches	6/18/07	EPA	U.S. Department of the Navy	A.R. File	60, 61, 30B,
3.0 REMEDIAL INVESTIGATION									
3.2 Sampling and Analysis Data									
3.2		3.2-1	R	Final Phase I Remedial Investigation	7/7/98	ENSR	U.S. Department of the Navy	A.R. File	Basewide

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File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
3.2		3.2-2	R	Final Summary Report of Background Data Summary Statistics for Naval Air Station South Weymouth	2/24/00	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide
3.2		3.2-3	R	Errata to the Final Summary Report of Background Data Summary Statistics	3/8/00	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide
3.2		3.2-4	R	Supplement to Final Summary Report of the Background Data Summary Statistics for NAS South Weymouth	11/08/02	Stone & Webster	U.S. Department of the Navy	A.R. File	Basewide
3.6 Remedial Investigation Reports									
3.6		3.6-1	R	Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation	7/26/04	TtEC	U.S. Department of the Navy	A.R. File	61
3.6		3.6-2	L	[Comments on the] Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation	3/31/05	EPA	U.S. Department of the Navy	A.R. File	61
3.6		3.6-7	R	Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale and Barracks Ditches	5/21/07	TtEC	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-8	L	[Comments on the] December 2006 Sampling Event, AOC 60 and AOC 61, Former South Weymouth NAS, MassDEP RTN 4-3002621	6/5/07	MassDEP	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-9	L	[Comments on the] December 2006 Sampling Event, AOC 60 and AOC 61, Former South Weymouth NAS, MassDEP RTN 4-3002621	6/18/07	EPA	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-10	R	Final Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale and Barracks Ditches (R1)	10/10/07	TtEC	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-11	L	[Comments on the] Final Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale and Barracks Ditches	10/31/07	EPA	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-12	R	Results of August 2007 Sampling Events for the West Mat and East Mat Storm	12/4/07	TtEC	U.S. Department of the Navy	A.R. File	61

**Record of Decision
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File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
				Drainage Systems and Associated Outfalls					
3.6		3.6-13	R	Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation	5/30/08	TtEC	U.S. Department of the Navy	A.R. File	61
3.6		3.6-14	L	[Comments on the] Closeout Report for Review Item Area 61, TACAN Outfall Excavation, Storm Water Drainage System Cleaning, and Associated Ditch/Swale Excavation	7/21/08	EPA	U.S. Department of the Navy	A.R. File	61
3.6		3.6-15	L	[Comments on the] December 2006 Sampling Event, AOC 60 and AOC 61, Former South Weymouth NAS, MassDEP RTN 4-3002621(R1)	9/5/08	EPA	U.S. Department of the Navy	A.R. File	60, 61
3.6		3.6-16	R	Results of August 2007 Sampling Events for the West Mat and East Mat Storm Drainage Systems and Associated Outfalls	9/8/08	TtEC	U.S. Department of the Navy	A.R. File	61
3.6		3.6-17	R	Final Results of December 2006 Sampling Event for AOC 60, RIA 30B, NEX Swale and Barracks Ditches (R2)	10/06/08	TtEC	U.S. Department of the Navy	A.R. File	60, 61
4.0 FEASIBILITY STUDY									
4.0		4.0-1	R	Draft EE/CA for TACAN Outfall Sediment Removal and Storm Sewer System Cleaning	10/23/02	Foster Wheeler	U.S. Department of the Navy	A.R. File	60, 61
4.0		4.0-2	R	Final EE/CA for TACAN Outfall Sediment Removal and Storm Sewer System Cleaning	4/1/05	TtEC	U.S. Department of the Navy	A.R. File	60, 61
4.8 Proposed Plans for Selected Remedial Action									
4.8		4.8-1	R	Final Proposed Plan, AOC 60 & 61, Naval Air Station South Weymouth, Weymouth, Massachusetts	10/01/08	U.S. Department of the Navy	Public	A.R. File	60, 61

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File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
5.0 RECORD OF DECISION									
5.3 Responsiveness Summaries									
5.3		5.3-1	L	Copy of Public Comments Received on the Proposed Plan for AOC 61 (included as Appendix E.2 of the Record of Decision)	[pending]	Public	U.S. Department of the Navy	A.R. File	61
5.3		5.3-2	R	Transcript of the Public Hearing on the Proposed Plan for the AOC 61 (included as Appendix E.1 of the Record of Decision)	[pending]	Public	U.S. Department of the Navy	A.R. File	61
5.3		5.3-3	R	Responsiveness Summary (included as Part 3 of the Record of Decision)	[pending]	U.S. Department of the Navy	Public	A.R. File	61
5.4 Record of Decision									
5.4		5.4-1	R	Record of Decision (Parts 1 and 2), Area of Concern 61 – TACAN Outfall and Associated Areas, Naval Air Station South Weymouth, Massachusetts	[pending]	U.S. Department of the Navy and EPA	Public	A.R. File	61
10.0 ENFORCEMENT/NEGOTIATION									
10.16 Federal Facility Agreements									
10.16		10.16-1	L	Federal Facility Agreement for South Weymouth Naval Air Station National Priorities List Site	4/00	EPA	U.S. Department of the Navy	A.R. File	Basewide
13.0 COMMUNITY RELATIONS									
13.2 Community Relations Plan									
13.2		13.2-1	R	Community Relations Plan Naval Air Station South Weymouth, Massachusetts	7/98	U.S. Department of the Navy	Public	A.R. File	Basewide

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APPENDIX D: ADMINISTRATIVE RECORD INDEX (cont.)

File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
13.4 Public Meetings/Hearings									
13.4		13.4-1		Restoration Advisory Board Workshop Guidebook	7/94	EPA	Public	A.R. File	Basewide
13.4		13.4-3		Public Notice: Notification of Restoration Advisory Board Meetings (Monthly)	1995-2007	Tetra Tech NUS and EA Engineering, Science, and Technology	Public	A.R. File	Basewide
13.4		13.4-4		Restoration Advisory Board Meeting Minutes (Monthly)	1995-2007	U.S. Department of the Navy	Public	A.R. File	Basewide
13.4		13.4-5		Legal Notice: Availability of the Proposed Plan, and Notification of Public Meeting and Comment Period	[pending]	Tetra Tech NUS	Public	A.R. File	61
13.4		13.4-6		Legal Notice, Record of Decision Available For AOC 61	[pending]	Tetra Tech NUS	Public	A.R. File	61
13.5 Fact Sheets/Information Updates									
13.5		13.5-1	R	The Former Naval Air Station South Weymouth Environmental Fact Sheet	2/98	EA Engineering, Science, and Technology	Public	A.R. File	Basewide
13.6 Mailing Lists									
13.6		13.6-1		Community Relations Mailing List: State, Federal and Local Agencies (including Media and Public Libraries)	N/A	U.S. Department of the Navy	N/A	A.R. File	Basewide
13.6		13.6-2		Community Relations Mailing List: Other Parties (e.g., general public) – CONFIDENTIAL (due to potential Privacy Act violations)	N/A	U.S. Department of the Navy	N/A	A.R. File	Basewide

**Record of Decision
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APPENDIX D: ADMINISTRATIVE RECORD INDEX (cont.)

File No.	Vol.	Document No.	Document Type ^(a)	Document Title	Document Date	Document Author	Document Recipient	Document Location	Area of Concern
17.0 SITE MANAGEMENT RECORDS									
17.6 Site Management Plans and Reviews									
17.6		17.6-1	R	Site Management Plan Naval Air Station South Weymouth, Massachusetts	10/99	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-2	R	Site Management Plan Revision 1.0 Naval Air Station South Weymouth, Massachusetts	10/00	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-3	R	Site Management Plan Revision 2.0 Naval Air Station Weymouth, Massachusetts	11/01	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-4	R	Site Management Plan Revision 3.0 Naval Air Station South Weymouth, Massachusetts	4/03	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-5	R	Site Management Plan Revision 4.0 Naval Air Station South Weymouth, Massachusetts	12/04	EA Engineering, Science, and Technology	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-6	R	Draft Site Management Plan Revision 5.0 Naval Air Station South Weymouth, Massachusetts	8/05	Tetra Tech NUS	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-7	R	Site Management Plan Revision 6.0 Naval Air Station South Weymouth, Massachusetts	10/31/06	Tetra Tech NUS	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-8	R	Site Management Plan Revision 7.0 Naval Air Station South Weymouth, Massachusetts	09/07	Tetra Tech NUS	U.S. Department of the Navy	A.R. File	IR Sites
17.6		17.6-9	R	Draft Site Management Plan Revision 8.0 Naval Air Station South Weymouth, Massachusetts	09/08	Tetra Tech NUS	U.S. Department of the Navy	A.R. File	IR Sites

(a) R = Report; L = Letter.

NOTES:

AOC = Area of Concern

A.R. File = Administrative Record File

EBS = Environmental Baseline Survey

EPA = (U.S.) Environmental Protection Agency (Region 1)

N/A = Not Applicable

NAS = Naval Air Station

RIA = Review Item Area Description

MassDEP = Massachusetts Department of Environmental Protection

Record of Decision
Area of Concern 61
Naval Air Station South Weymouth, Massachusetts

Version: FINAL
Date: December 2008
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**APPENDIX E.1: TRANSCRIPT OF PUBLIC HEARING ON THE PROPOSED PLAN
FOR AOC 61**

Refer to attached copy.

NAVAL AIR STATION, SOUTH WEYMOUTH
AREAS OF CONCERN 60 AND 61
PUBLIC HEARING

Thursday, October 16, 2008
Conference Center
Shea Memorial Drive
Naval Air Station
South Weymouth, MA
8:15 p.m.

Leavitt Reporting, Inc.

1207 Commercial Street, Rear
Weymouth, MA 02189
www.leavittreporting.com

Tel. 781-335-6791
Fax: 781-335-7911
leavittreporting@comcast.net

Hearings ♦ Conferences ♦ Legal Proceedings

1 Knowing that it has been deemed that
2 there are acceptable levels of risk associated
3 with these plans, I find that in itself to be
4 unacceptable.

5 MR. CUNNINGHAM: James Cunningham. I
6 think the Navy is doing a good job of cleaning up
7 polluted areas of the Base and I am happy that the
8 highly polluted sediments and soils have been
9 removed.

10 But I truly believe that closing the
11 South Weymouth Naval Air Station was a serious
12 mistake on the part of the government and will prove
13 to be a detriment to military recruitment and
14 preparedness and will prove to have a serious impact
15 on our regional economy and the security of our
16 nation.

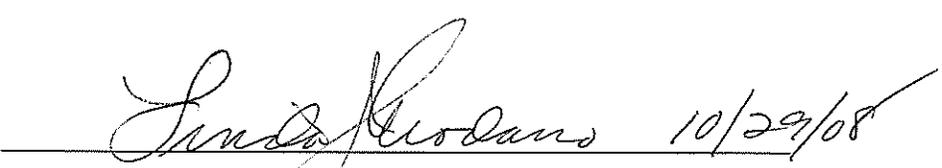
17 MS. SKELTON ROBERTS: Any others? Okay.
18 You can also submit written comments on the back of
19 the Proposed Plan. You can send them by e-mail.

20 Any other questions or comments? Okay.
21 Well, thank you very much. This concludes this
22 portion of the public hearing.

23 (Whereupon at 8:20 p.m. the hearing concluded.)

C E R T I F I C A T E

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2
3
4 I hereby certify that the foregoing 3 pages
5 contain a full, true and correct transcription of all
6 my stenographic notes to the best of my ability taken
7 in the above-captioned matter held at the Conference
8 Center at the Naval Air Station in South Weymouth on
9 Thursday, October 16, 2008, commencing at 8:15 p.m.

10
11
12 
13 Linda J. Modano, Registered Professional Reporter

14 My commission expires June 2, 2011
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