



DEPARTMENT OF THE NAVY
NAVAL DISTRICT WASHINGTON
WEST AREA
101 STRAUSS AVENUE
INDIAN HEAD, MARYLAND 20640-5035

IN REPLY REFER TO

5090
Ser 044SJ/44
24 May 04

Mr. Elmer Biles
6315 Indian Head Highway
Indian Head, MD 20640

Dear Mr. Biles:

We are forwarding the minutes from our tour of Stump Neck that was held on Monday, May 10, 2004 from 9:30 am to 12:30 pm. Hopefully, the tour was informative and will help you visualize the sites as you review future sampling plans.

As a reminder, our next Restoration Advisory Board meeting, which is scheduled for June 17, 2004, will be a poster session to present the no further action proposed plans for Sites 13 and 25. The public comment period will be from May 28 to June 28, 2004. Copies of the proposed plan documents are enclosed. As required, a copy of each proposed plan will be placed in the Information Repository, which is located at the following address:

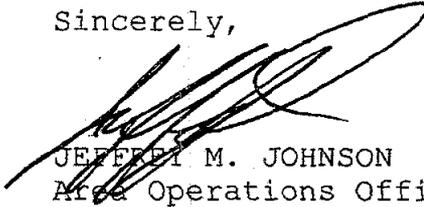
Naval District Washington, Indian Head
General Library
Building 620 (The Crossroads)
101 Strauss Avenue
Indian Head, MD 20640.:

Additional copies of the proposed plan documents are available through Ms. Tara Landis, the Naval District Washington, Indian Head (NDW-IH) Public Affairs Officer and through Mr. Shawn Jorgensen, the NDW-IH Remedial Project Manager. Ms. Landis can be reached on (301) 744-4627 and Mr. Jorgensen can be reached on (301) 744-2263. Therefore, if you know of anyone who would be interested in reviewing the documents, please let them know of their availability.

5090
Ser 044SJ/44
24 May 04

If you have any comments or questions concerning these matters, please contact Mr. Shawn Jorgensen on (301) 744-2263.

Sincerely,



JEFFREY M. JOHNSON
Area Operations Officer

Enclosures: 1. Minutes from Tour of Stump Neck on 10 May 04
2. Proposed Plan for Site 13
3. Proposed Plan for Site 25

Copy to:
RAB Members
CH2M Hill (A. Estabrook) (w/o encls [2] and [3])
TetraTech (G. Latulippe)

INSTALLATION RESTORATION PROGRAM



NAVAL DISTRICT WASHINGTON,
INDIAN HEAD
101 STRAUSS AVENUE
INDIAN HEAD, MARYLAND
20640-5035



RESTORATION ADVISORY BOARD (RAB) TOUR OF STUMP NECK

Date of Tour: May 10, 2004

Restoration Advisory Board (RAB) Member Participants:

Mr. Elmer Biles (C)	Mr. Vincent Hungerford (C)*
Mr. Scott Bohnhoff (N)*	Mr. Shawn Jorgensen (N)
Mr. Gary Davis (L)	Mr. Joseph Rail (N)
Mr. Curtis DeTore (S)	Ms. Karen Wigger (L)
Mr. Jerry Hamrick (L)	

RAB Members Not in Attendance:

Mr. Jeff Morris (N)	Mr. Dennis Orenshaw (F)
Mr. Wayne McBain (C)	Mr. Fred Pinkney (F)

Additional Attendees:

Ms. Dawn Cave (N)	Ms. Tara Landis (N)
Mr. Jeffrey Johnson (N)	Ms. Susan Prien (N)

* Co-Chair

C = Community
F = Federal Official
L = Local Official
N = Navy Official
S = State Official

Stump Neck Site Tour Synopsis

Attendees met at the Naval District Washington (NDW), Indian Head Pass Office. Mr. Shawn Jorgensen provided a handout listing sites to be visited and fact sheets on these sites from the May 2003 Site Management Plan. These items are included as Attachments A and B. In addition, Mr. Jorgensen provided attending RAB members with NDW, West Area letter 5090, Ser 044SJ/38 of 7 May 04, which forwards various documents to RAB members for review and comment.

Mr. Jorgensen then provided visitors with badges to get onto Stump Neck and everyone traveled to Stump Neck in two mini-vans. At Stump Neck, the attendees met with Ms. Dawn Cave, who drove everyone to the Installation Restoration (IR) sites at Stump Neck in a 15-passenger van.

Prior to beginning the site visit, Mr. Jeffrey Johnson, the Deputy Area Operations Officer, and currently the Acting Area Operations Officer for the NDW West Area, met with the attendees to give his regards and he asked if anyone had any questions for him. No questions were asked of Mr. Johnson at that time. Regrettably, Mr. Johnson informed the attendees that he and Mr. Scott Bohnhoff had to attend a meeting back at Indian Head and would not be able to attend the site tour.

Mr. Jerry Hamrick, the new Restoration Advisory Board member representing the Town of Indian Head, formerly worked for the Naval Explosive Ordnance Disposal Technology Division (1973 - 1993) at Stump Neck. Mr. Hamrick was kind enough to provide a general description of the buildings and operations that took place at Stump Neck while heading to the first IR site on the tour.

The site tour proceeded to the tip of the Stump Neck peninsula at Range 6, IR Site 61 and continued in the order listed in Attachment C. The tour ended at the Rum Point Landfill, IR Site 38. A majority of the sites have transferred to the Military Munitions Response Program (MRP). These sites potentially contain Munitions and Explosives of Concern (MEC). Funding for MRP sites will not be available until fiscal year 2007. The status of each site, as of May 2003, is also contained in Attachment C.

A few RAB members requested a map showing the locations of the sites at Stump Neck. Therefore, a map of the sites at Stump Neck is provided in Attachment D.

Five of the sites visited will be studied, or further studied, this summer. They include Site 33 (Scrap Metal Pit), Site 36 (Closed Landfill), Site 38 (Rum Point Landfill), Solid Waste Management Unit (SWMU) 14 (Photographic Lab Septic Tank System), and SWMU 30 (Building 2015 Dry Well). The other sites are all either still active, have been moved into the MRP, or have a signed No Action Decision Document, as shown in Attachment B.

Sites 33, Scrap Metal Pit, and 36, Closed Landfill, were examined in 2002 and the results are presented in the Site Screening Process (SSP) Report for Sites 32, 33, 34, 36, 37, 51, and 52 of March 2003. For Site 33, a geophysical survey was conducted and test pits were dug based on the results of the geophysical survey. In addition, six subsurface soil samples and three shallow groundwater samples from temporary monitoring wells were taken and analyzed. One shallow groundwater sample taken had an arsenic concentration exceeding EPA Maximum Contaminant Levels (MCLs) for drinking water. However, the sample was turbid. Turbid samples contain soil particles and metals adhere to soil particles. Therefore, the result may not be representative of the shallow groundwater. The Navy, EPA, and MDE are currently discussing whether or not additional samples are necessary at this site, since the filtered shallow groundwater sample for this one well did not exceed the MCL for arsenic.

Site 36, Closed Landfill, was also examined in the SSP Report of March 2003. Only a geophysical survey was performed at the site and metals were detected. The report recommended that the site move into the Remedial Investigation/Feasibility Study phase.

Site 38, Rum Point Landfill, was sampled as a result of the Resource Conservation and Recovery Act (RCRA) Corrective Actions Permit for Stump Neck Annex. The draft RCRA Facility Investigation (RFI)/Verification Investigation (VI) Report dated January 1998 recommended no further action for the site. However, because it is a landfill, we may need to perform additional work at the site.

SWMU 14, Photographic Lab Septic Tank System, and SWMU 30, Building 2015 Dry Well, have not been sampled to date. Therefore, we plan to perform a site screening assessment on them to determine if any contamination exists at these sites. Depending on the results, the sites will either continue through the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) process of the program or a No Action Decision Document will be prepared to remove the site or sites from the IR Program.

Mr. Jerry Hamrick provided additional information during the tour that may be helpful with the sites, including areas of past operations and activities performed at Stump Neck. The first area includes a former 5,000-gallon tank of CF12 solvent and trailer that was used for an oxygen cleaning operation. The trailer existed across Archer Road from Building 2096. Mr. Hamrick does not recall any spills from the tank or operation.

The second area includes the swamp near the old disassembly facility, Building 2010, in the vicinity of Site 36. According to Mr. Hamrick, disassembled mines and torpedoes were deposited in the swamp for years. Most likely, these objects are all part of Site 36, the Closed Landfill. However, additional items may be out in the swamp and not contained within the landfill. Any items in the swamp area will be addressed in the MRP with Site 30, Stump Neck Impact Area.

The third comment that Mr. Hamrick made concerns Building 2015 and the dry well. Mr. Hamrick stated that a photographic laboratory existed in the rear of Building 2015 and the discharge from the process may have been released to the dry well. The sampling of the dry well and surrounding area in the late summer will help us to determine if there are any unacceptable risks to human health or the environment from contaminants that were released to the dry well.

The two mini-vans returned to the NDW, Indian Head Pass Office at approximately 12:30 pm. Mr. Jorgensen concluded the tour by thanking everyone in attendance.

STUMP NECK INSTALLATION RESTORATION SITES TOUR
May 10, 2004

Site #	Name (Status or Alternate Program)	Location
30	Stump Neck Impact Area (MRP)	Roach Road
31	Old Demolition Range (MRP)	Porter Avenue
32	Suspected Tool Burial Site (No Action Decision April 2003)	By Bldgs. 2083/2084
33	Scrap Metal Pit (SSA or Desk-top Audit)	Behind Bldgs. 2116/2136
34	Tool Burial Site (No Action Decision April 2003)	By Bldg. D-21C
35	Torpedo Burial Site (MRP)	Behind Bldg. 2075
36	Closed Landfill (SSA recommended RI/FS)	Roach Road
37	Causeway (MRP)	Causeway by Roach Road
38	Rum Point Landfill (SSA)	Rum Point
58	Range 3 (Removed from IR program, still active)	Archer Avenue near Range 6
59	Chicamuxen Creek's Edge Dump Site A (See Site 58)	Under Range 3
60	Chicamuxen Creek's Edge Dump Site B (See Site 31)	By Old Demo Range (Porter Avenue)
61	Range 6 (Removed from IR program, still active)	Tip of Peninsula
62	Air Blast Pond (MRP)	Dirt road across Archer Avenue from Bldg 2174
63	Area 8 (MRP)	Roach Road
64	Improvised Explosive Devices (IED) (MRP)	By Bldgs. 2087/2090
65	Inert Ordnance Disposal (MRP)	Road across from IED Training Bldg 2096
SWMU14	Photographic Lab Septic Tank System (SSA)	Near Bldgs 22SN and 2009
SWMU28	Old Skeet and Trap Range (MRP)	West of Building 2012SN and near Causeway
SWMU29	Pistol Range (MRP)	Rum Point
SWMU30	Building 2015 Dry Well (SSA)	By Bldg. 2015

MRP = Military Munitions Response Program
 SSA = Site Screening Assessment
 RI/FS = Remedial Investigation / Feasibility Study

Site Management Plan
for
Installation Restoration Program
Indian Head Division
Naval Surface Warfare Center
Indian Head, Maryland



**Engineering Field Activity, Chesapeake
Naval Facilities Engineering Command**

**For Fiscal Years
2003 - 2004**

REVISED:
May 2003

STUMP NECK IMPACT AREA
(OLD MAP GRID F16, G16)
IR Site 30
(Stump Neck Annex SWMU 22)
Fact Sheet

1. Contamination:

Exploded ordnance.

2. Location:

The area is approximately 40 acres of marshland.

3. From:

According to facility representatives, this area was used for testing of single-base, powder-fired projectiles.

4. When:

The unit was reportedly used before World War II.

5. Generated By:

Projectile testing.

6. Amount:

Unknown.

7. Work Completed:

No projectiles have been recovered from the area.

The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000010.

OLD DEMOLITION RANGE

IR Site 31 (Stump Neck Annex SWMU 23) Fact Sheet

1. Contamination:

Small quantities of shrapnel and casings from detonation of explosives.

2. Location:

The area is approximately one acre in size. This unit is in the immediate vicinity of the Chicamuxen Creek's Edge Dump Site B (SWMU 4).

3. From:

Training activities at the site are believed to have been similar to those now practiced at Range 6 (SWMU 5), an explosive ordnance disposal training range.

4. When:

Used in 1962, and for many years prior to 1962, as an old demolition training ground.

5. Generated By:

Explosive ordnance disposal training.

6. Amount:

Small quantities of shrapnel and casings.

7. Work Completed:

The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000007.

SUSPECTED TOOL BURIAL SITE

IR Site 32 (Stump Neck Annex SWMU 11) Fact Sheet

1. Contamination:

Beryllium-copper alloy.

2. Location:

Vicinity of Building 31 Stump Neck.

3. From:

Hand tools used in explosive ordnance disposal work.

4. When:

Unknown.

5. Generated By:

This unit is suspected to contain special beryllium-copper alloy hand tools used in explosive ordnance work.

6. Amount:

Unknown.

7. Work Completed:

a. During the visual site inspection, the unit was covered with grass and rimmed by sparse woods. Facility representatives indicated the burial site's approximate size was 10 feet by 10 feet.

b. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

c. This site was subjected to a site screening assessment (SSA) during 2002. Because the site is so similar to Site 34 with respect to the potential sources of contamination, the work plan allowed for not pursuing the investigation of Site 32 if the results from the Site 34 investigation indicated that no action was appropriate. Since the results of the Site 34 investigation indicated no reason to pursue Site 32, no field investigation was performed.

d. The final SSP Report was completed in March 2003.

8. Current Status:

A draft SSP decision document, which recommends no action, is currently being reviewed.

SCRAP METAL PIT
(OLD MAP GRID O16)
IR Site 33
(Stump Neck Annex SWMU 7)
Fact Sheet

1. Contamination:

Metal parts of mines, torpedoes, and other explosive-inert items.

2. Location:

The exact location of the Scrap Metal Pit could not be identified. The area is southwest of Building 2117.

3. From:

Used as a disposal pit for mines and torpedoes. This unit is an outdoor, unlined earthen area that measures approximately 10 feet by 30 feet by 10 feet deep.

4. When:

Prior to 1983

5. Generated By:

Disposed wastes include metal objects (parts of mines, torpedoes, and other inert materials) derived from the manufacture of explosives.

6. Amount:

Unknown.

7. Work Completed:

a. During the visual site inspection, the area was covered with grass and brier and was sparsely lined with trees. The area had been approximately two years earlier.

b. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

c. A site screening assessment (SSA) field investigation was completed in 2002. The field investigation included a geophysical survey; temporary monitoring wells with groundwater samples analyzed for Target Analyte List (TAL) metals and explosive; subsurface soil samples analyzed for TAL metals and explosives; and test pits located based on the results of the geophysical survey.

8. Current: Status

The draft SSA report is currently undergoing Navy and regulatory review. The final SSA report was completed in March 2003

A supplemental sampling investigation is recommended before determining if an RI is justified.

TOOL BURIAL SITE
(OLD MAP GRID E15)
IR Site 34
(Stump Neck Annex SWMU 8)
Fact Sheet

1. Contamination:

Beryllium-copper alloy.

2. Location:

Located approximately 60 to 70 feet into a wooded area southeast of Building D21C.

3. From:

Two unlined burial pits, each measuring about 5 feet by 15 feet by 12 feet deep. The volume of tools in each pit is said to be about 5 feet by 8 feet by 2 feet.

4. When:

Used once in 1972 or 1973. Beryllium-copper alloy hand tools were disposed in the pits. These tools were discarded because they did not pass a magnetometer test and were considered unserviceable.

6. Amount:

Unknown.

7. Work Completed:

a. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

b. A site screening assessment (SSA) field investigation was completed in 2002. The field investigation included a geophysical survey; temporary monitoring wells with groundwater samples analyzed for beryllium and copper; subsurface soil samples analyzed beryllium, copper, and explosives; and test pits located based on the results of the geophysical survey.

c. The final SSP Report was completed in March 2003.

8. Current Status:

A draft SSP decision document, which recommends no action, is currently being reviewed.

TORPEDO BURIAL SITE
(OLD MAP GRID E14, E15)
IR Site 35
(Stump Neck Annex SWMU 9)
Fact Sheet

1. Contamination:

Torpedoes and associated hardware, possibly containing fuzes and parts which are not rendered safe.

2. Location:

Located near Building 2075.

3. From:

The unit is an unlined earthen pit. Inert objects disposed in this unit included discarded torpedo shells and associated hardware.

4. When:

Used in the late 1940s and early 1950s and inactive since the early 1950s

5. Generated By:

The waste was transported from a torpedo station near Washington, D.C.

6. Amount:

Unknown.

7. Work Completed:

During the visual site inspection the area appeared flat and was covered with green grass. The perimeter of the unit is wooded and an unnamed creek dissects the area.

The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000012.

CLOSED LANDFILL

(OLD MAP GRID H14, H15)
IR Site 36
(Stump Neck Annex SWMU 10)
Fact Sheet

1. Contamination:

Inert metal casings, mines, bombs, and torpedoes.

2. Location:

Unknown.

3. From:

Objects disposed in the landfill included metal casings, mines, bombs, and torpedoes, which reportedly were inert and contained no explosives or chemicals when buried.

4. When:

Used from 1972 to 1974; inactive since 1974.

5. Generated By:

Unknown.

6. Amount:

Unknown.

7. Work Completed:

a. The NACIP IAS report describes a landfill that consists of two distinct adjacent areas. The unit is an unlined, earthen area, approximately one to two acres in size, and is covered with grass and other low vegetation. The unit is contiguous with a wetland area and is rimmed by sparse woods.

b. During the visual site inspection, tall grass-covered the area and the soil was dark with a low brier ground cover.

c. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

d. A site screening assessment (SSA) field investigation was completed in 2002. According to the work plan, the field investigation was limited to a geophysical survey.

e. The final SSA report was completed in March 2003.

8. Current Status:

The SSA report recommends moving into the RI/FS phase.

CAUSEWAY

(OLD MAP GRID E13)
IR Site 37
(Stump Neck Annex SWMU 24)
Fact Sheet

1. Contamination:

Causeway fill, which is primarily rubble partly composed of old torpedo casings.

2. Location:

The access road to the ranges at Stump Neck crosses a narrow neck of land. The causeway is directly adjacent to the Potomac River.

3. From:

The narrow neck of land has been built up with fill material.

4. When:

Unknown.

5. Generated By:

Shore stabilization.

6. Amount:

Unknown.

7. Work Completed:

a. Observation of the area indicated the presence of a raised land area and use of concrete blocks and rock to protect the Potomac River side of the roadway from erosion for a distance of 300 to 400 feet. Along the river's edge, there was a small beach which was rimmed with rip-rap wrapped in wire mesh. During the visual site inspection, the unit appeared relatively flat and grassy.

b. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

c. A site screening assessment (SSA) field investigation was completed in 2002. The field investigation included the installation of temporary monitoring wells with groundwater samples analyzed for Target Compound List (TCL) volatile and semi-volatile organic compounds including pesticides and PCBs, Target Analyte List (TAL) metals, and explosives; subsurface soil samples analyzed for the same analytes; and surface water and sediment samples also analyzed for the same analytes.

d. The final SSA report was completed in March 2003.

**CAUSEWAY
IR Site 37
(Stump Neck Annex SWMU 24)
Fact Sheet
(Continued)**

8. Current Status:

The SSA report recommends moving into the RI/FS phase. It is recommended that the RI should also include further evaluation of ecological COPCs.

Currently designated as Munitions Response Program site UXO 000003.

RUM POINT LANDFILL(OLD MAP GRID U7)

**IR Site 38
(Stump Neck Annex SWMU 1)
Fact Sheet**

1. Contamination:

Various unknown containers and metals in addition to ash from a thermal treatment tank.

2. Location:

West of Rum Point Road.

3. From:

The unit is an unlined landfill that is approximately 1.5 to 2 acres in size.

4. When:

Until December 1989.

5. Generated By:

Ash from a thermal treatment tank, located on Range 3 Burn Point, was reportedly disposed here one time.

6. Amount:

Unknown.

7. Work Completed:

a. The site was identified in the Initial Assessment Study (IAS) of the Naval Assessment for the Control of Industrial Pollutants (NACIP) Program. The IAS report indicated disposal of several metal objects, including garbage cans and drums.

b. As required by the NEODTC RCRA Corrective Action Permit, an RFI/VI Report was completed in draft in January 1998. That document recommended that a No-Further-Action decision be considered for this site.

8. Current Status:

Awaiting Initiation of Site Screening Process.

RANGE 3 BURN POINT

IR Site 58 (Stump Neck Annex SWMU 2) Fact Sheet

1. Contamination:

Unknown explosives, waste ash, and petroleum.

2. Location:

Bank of Chicamuxen Creek. This unit is located downhill and slightly southwest of the Pink Water Treatment Tank (SWMU 13). The Range 3 Burn Point is located within the 100-year flood plain.

3. From:

The unit is used for burning or thermal treatment of explosive wastes, explosive-contaminated materials, and carbon.

4. When:

Currently in use.

5. Generated By:

The Range 3 Burn Point is used to periodically burn or thermally treat explosive wastes generated at the facility and is a RCRA-regulated unit. The wastes are burned either directly on bare soil using gasoline as an ignition source in a Thermal Treatment Tank (SWMU 16) that rests on bare soil approximately 30 feet from the Creek's edge. This area also contains a metal container used to test small blasting caps (squibs).

6. Amount:

Unknown.

7. Work Completed:

a. During the visual site inspection, burned scraps were observed in the container, and charred debris was observed on the soil in the immediate vicinity of the Thermal Treatment Tank. A paint solvent or paint odor was detected close to the creek, approximately 15 feet from the Thermal Treatment Tank.

b. As required by the NEODTC RCRA Corrective Action Permit, an RFI/VI Report was completed (draft) in January 1998. That document recommended that a No-Further-Action decision be considered for this site.

8. Current Status:

Awaiting Initiation of Site Screening Process.

CHICAMUXEN CREEK'S EDGE DUMP SITE A

IR Site 59 (Stump Neck Annex SWMU 3) Fact Sheet

1. Contamination:

Unknown

2. Location:

This unit is located directly under the Range 3 Burn Point (SWMU 2). Exactly what was dumped in this unit is not known. There are indications that the earthen area which comprises this unit and the Range 3 Burn Point (SWMU 2) are man-made fill areas. The unit is located adjacent to Chicamuxen Creek within the 100-year flood plain. The unit is surrounded on three sides by a rip-rap berm covered with wire mesh.

4. When:

Unknown.

5. Generated By:

Unknown.

6. Amount:

The unit is approximately 2 acres in size and is covered with bare soil.

7. Work Completed:

As required by the NEODTC RCRA Corrective Action Permit, a VI/RFI Report was completed (draft) in January 1998. That document recommended that a No-Further-Action decision be considered for this site.

8. Current Status:

Awaiting Initiation of Site Screening Process.

CHICAMUXEN CREEK'S EDGE DUMP SITE B

IR Site 60 (Stump Neck Annex SWMU 4) Fact Sheet

1. Contamination:

This unit was used as a dump site but facility representatives were uncertain of the exact nature of materials disposed.

2. Location:

Immediate vicinity of the Old Demolition Range (SWMU 23).

3. From:

This unit is an unconfined earthen area located adjacent to Chicamuxen Creek.

4. When:

Unknown.

5. Generated By:

Unknown.

6. Amount:

Unknown.

7. Work Completed:

a. No release controls associated with this unit. During the visual site inspection, the unit was covered with grass, and a sparse stand of trees separated the area from the water's edge.

b. As required by the NEODTC RCRA Corrective Action Permit, an RFI/ VI Report was completed (draft) in January 1998.

8. Current Status:

Awaiting Initiation of Site Screening Process.

RANGE 6

IR Site 61 (Stump Neck Annex SWMU 5) Fact Sheet

1. Contamination:

Explosives. The area was used as a demolition range. The site consists of five ranges that were used for open detonation training. Small amounts (less than two to three pounds) of explosives were used. Unexploded ordnance was open-detonated in place.

2. Location:

Range 6 is located at the end of Archer Avenue, on a point of land extending into the Potomac River and Chicamuxen Creek. This unit is located within the 100-year flood plain.

3. From:

Wastes that were managed in this unit include small quantities of shrapnel and casings from detonation of explosives.

4. When:

This unit has been phased out since the EOD school relocated to Florida during early 1998. The range is currently inactive.

5. Generated By:

EOD school training.

6. Amount:

This unit was used on a weekly basis, depending on the number of recruits at any given time.

7. Work Completed:

a. A verification investigation was completed in June 1996. The report on the investigation recommended that additional field investigations be conducted at the site.

b. As required by the NEODTC RCRA Corrective Action Permit, an RFI/VI Report was completed in draft in January 1998. That document recommended consideration for implementing a feasibility study or land use restrictions.

8. Current Status:

Awaiting Initiation of Site Screening Process.

AIR BLAST POND

(OLD MAP GRID F15)

IR Site 62

(Stump Neck Annex SWMU 6)

Fact Sheet

1. Contamination:

Explosives include Pentolite, HBX1, HBX2, H6, and C4 Propellant (similar to lead azide).

2. Location:

Adjacent to Chicamuxen Creek near industrial outfall IW 32.

3. From:

Explosives testing.

4. When:

Used by the facility from 1955 to 1975; has not been in service for 15 to 20 years.

5. Generated By:

The unit consists of an unlined earthen pit, measuring approximately 100 feet in diameter, with a capacity of 1.3 million gallons. During operation, explosives were detonated above water and in water during testing. The pit was filled with water from Chicamuxen Creek through a steel, 14-inch-diameter pipe at a rate of 1,300 gallons per minute. Wire was strung across the pit to measure the concussion factor of explosives above water. The water in the pond was periodically discharged into Chicamuxen Creek through the same pipe (IW 32). The pond was emptied two to three times per year. The unit is located in a wooded area of the facility.

6. Amount:

According to an interview of a former facility employee conducted by the Naval Explosive Ordnance Disposal Technology Center, a maximum of eight pounds of explosives were used per detonation event (shot). During the unit's period of operations, three to four shots were conducted per day, with an estimated total of 1,500 shots over the unit's active life.

7. Work Completed:

As required by the NEODTC RCRA Corrective Action Permit, a VI/RFI Report was completed (draft) in January 1998. That document recommended consideration of a No-Action-Decision for this site.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000001.

AREA 8

IR Site 63 (Stump Neck Annex SWMU 25) Fact Sheet

1. Contamination:

Area 8 is an active facility used to train military personnel to defuse explosive devices. Explosives were detected in sediment samples collected at Area 8.

2. Location:

Located on Roach Road. Access to the site is controlled by a fence and a gate located on Archer Avenue. Area 8 is approximately 9.6 acres in size.

3. From:

At the water-shot locations, the explosive is placed 2 to 5 feet below the water surface. At the air-shot locations, the explosive is suspended (on wire) approximately 2 feet above ground. The types of ordnance that is used includes TNT stock, PETN, military dynamite, blasting caps, detonation cord, and similar devices.

4. When:

EOD School relocated in 1998.

5. Generated By:

EOD School training.

6. Amount:

Training exercises at Area 8 are performed 10 months a year. It is estimated that approximately 50 to 75 pounds (net explosive weight) of explosives are used at this training facility each year. No more than 0.5 pound of explosives is used at the air- or water-shot locations during training exercises.

7. Work Completed:

A verification investigation was completed in January 1996. The report recommended no further remedial action for the site, because contaminants detected at the site are unlikely to pose a risk to human health and the environment based on a future industrial land use scenario.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000002.

IMPROVISED EXPLOSIVE DEVICES (IED) SITE

IR Site 64 (Stump Neck Annex SWMU 26) Fact Sheet

1. Contamination:

Training operations were performed at this site to demonstrate that household and other easily obtained chemicals could be used to make IEDs. During these operations, small amounts of residual waste were discarded on the ground. These waste chemicals included small amounts of silver nitrate.

2. Location:

Near Building 2118.

3. From:

Residual waste discarded on the ground.

4. When:

Since November 1957, the IED has been used to test and demonstrate the explosive potential of chemical mixtures.

5. Generated By:

Training demonstrations.

6. Amount:

Unknown.

7. Work Completed:

A verification investigation was completed in January 1996. The report recommended no further remedial action for the site, because contaminants detected at the site are unlikely to pose a risk to human health and the environment based on a future industrial land use scenario.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as a closed range.

INERT ORDNANCE DISPOSAL SITE (IOD)

IR Site 65 (Stump Neck Annex SWMU 27) Fact Sheet

1. Contamination:

Inert Ordnance Disposal Site. This site consists of a cement bunker where inert ordnance and inert training aids were discarded.

2. Location:

3.

South of Building 2074SN.

3. From:

Historical activities at the IOD are not well documented, but the site was apparently used for disposal of inert ordnance.

4. When:

The initial date when the scrap metal was discarded is unknown.

5. Generated By:

Based on current information, only inert metal scrap was placed in this bunker. A layer of cement was poured over the metal scrap.

6. Amount:

Unknown.

7. Work Completed:

A verification investigation was completed in January 1996. The report recommended no further remedial action for the site, because contaminants detected at the site are unlikely to pose a risk to human health and the environment based on a future industrial land use scenario.

8. Current Status:

Awaiting Initiation of Site Screening Process.

Currently designated as Munitions Response Program site UXO 000005.

OLD SKEET AND TRAP RANGE

IR AOC (Stump Neck Annex SWMU 28) Fact Sheet

1. Contamination:

This area lies on what was originally identified as SWMU 20, Disposal Area 2, in the RCRA corrective action permit. The permit states that, "During the visual site inspection, the area was covered with grass and is currently used as a skeet and trap shooting area." In addition, the permit states, "EPA has determined that no further action is necessary at this time." However, since the draft RFA was written, use of the skeet range has been discontinued. The skeet range was used mainly for recreational purposes. Clay pigeons were used as targets. Therefore, lead shots remain on the ground at the skeet range and in the Potomac River.

2. Location:

West of Building 2012SN.

3. From:

Unknown.

4. When:

Operations began more than 25 years ago and ended in June 1991. The range is currently inactive.

5. Generated By:

Unknown.

6. Amount:

Unknown.

7. Work Completed:

This unit was included in the January 2002 Desktop Audit Decision Document, which was signed by all Remedial Project Managers on April 23, 2002.

8. Current Status:

The decision reached during the desktop audit was that this unit should be subjected to the site screening process.

Currently designated as Munitions Response Program site UXO 000015.

SMALL ARMS RANGE (PISTOL RANGE)

**(OLD MAP GRID V7)
IR AOC
(Stump Neck Annex SWMU 29)
Fact Sheet**

1. Contamination:

The facility Security Department used this site for training for approximately seven years, ending in August 1991. Rounds were fired into the side of a hill. The side of the hill contains lead shots.

2. Location:

Near Building 2070SN.

3. From:

Unknown.

4. When:

Approximately seven years, ending in August 1991

5. Generated By:

Unknown.

6. Amount:

Unknown.

7. Work Completed:

This unit was included in the January 2002 Desktop Audit Decision Document, which was signed by all Remedial Project Managers on April 23, 2002.

8. Current Status:

The decision reached during the desktop audit was that, due to lack of information available, this unit should be retained as an area of concern pending additional investigation.

Currently designated as a closed range and included in the Munitions Response Program as site UXO 000017.

PHOTOGRAPHIC LAB SEPTIC TANK SYSTEM

IR AOC (Stump Neck Annex SWMU 14) Fact Sheet

1. Contamination:

Possible dilute amounts of silver, sodium thiosulfate, and hydroquinone.

2. Location:

Near Photographic Lab, Building 22SN and Xray facility, Building 2009, below-ground tank and associated collection and discharge lines and drain field.

3. From:

Discharge of spent fixer and developer from film development.

4. When:

Unknown.

5. Generated By:

In the past, this unit handled wastewater from the photographic lab, which may have contained dilute amounts of silver, sodium thiosulfate, and hydroquinone.

Waste fixers containing silver were drummed and transported off site for silver recovery. The unit handled sanitary wastewater only and was inspected weekly; in accordance with NPDES permit conditions sampling is conducted monthly.

The effluent is chlorinated and discharged to the Potomac River under NPDES permit MD0020885, which was issued in May 1988 and expired in April 1993.

In addition, dilute photographic wastewater is discharged to the Potomac River via NPDES permit #NMOOO3158(EPA) and #88-DP-2515 (MDE).

7. Work Completed:

a. After the visual site inspection, a new septic system was installed, eliminating surface discharge to the Potomac River.

b. The 1990 EPA RCRA Corrective Action Permit stated that no further action was necessary at the time.

c. This unit was included in the January 2002 Desktop Audit Decision Document, which was signed by all Remedial Project Managers on April 23, 2002.

8. Current Status:

The decision reached during the desktop audit was that, due to lack of information available, this unit should be retained as an area of concern pending additional investigation.

BUILDING 2015 DRY WELL
IR AOC
(Stump Neck Annex SWMU 30)
Fact Sheet

1. Contamination:

This site consists of a dry well that is connected to a laboratory located in Building 2015.

2. Location:

Industrial Wastewater Outfall 64 (IW 64), Building 2015.

3. From:

Spent chemical reagents from the laboratory were discarded by pouring them down the drain. Currently, only wash water from a hand sink is discharged to the dry well.

4. When:

Approximately 10 years.

5. Generated By:

The overflow from the dry well enters permitted NPDES Outfall IW 64.

6. Amount:

Unknown.

7. Work Completed:

This unit was included in the January 2002 Desktop Audit Decision Document, which was signed by all Remedial Project Managers on April 23, 2002.

8. Current Status:

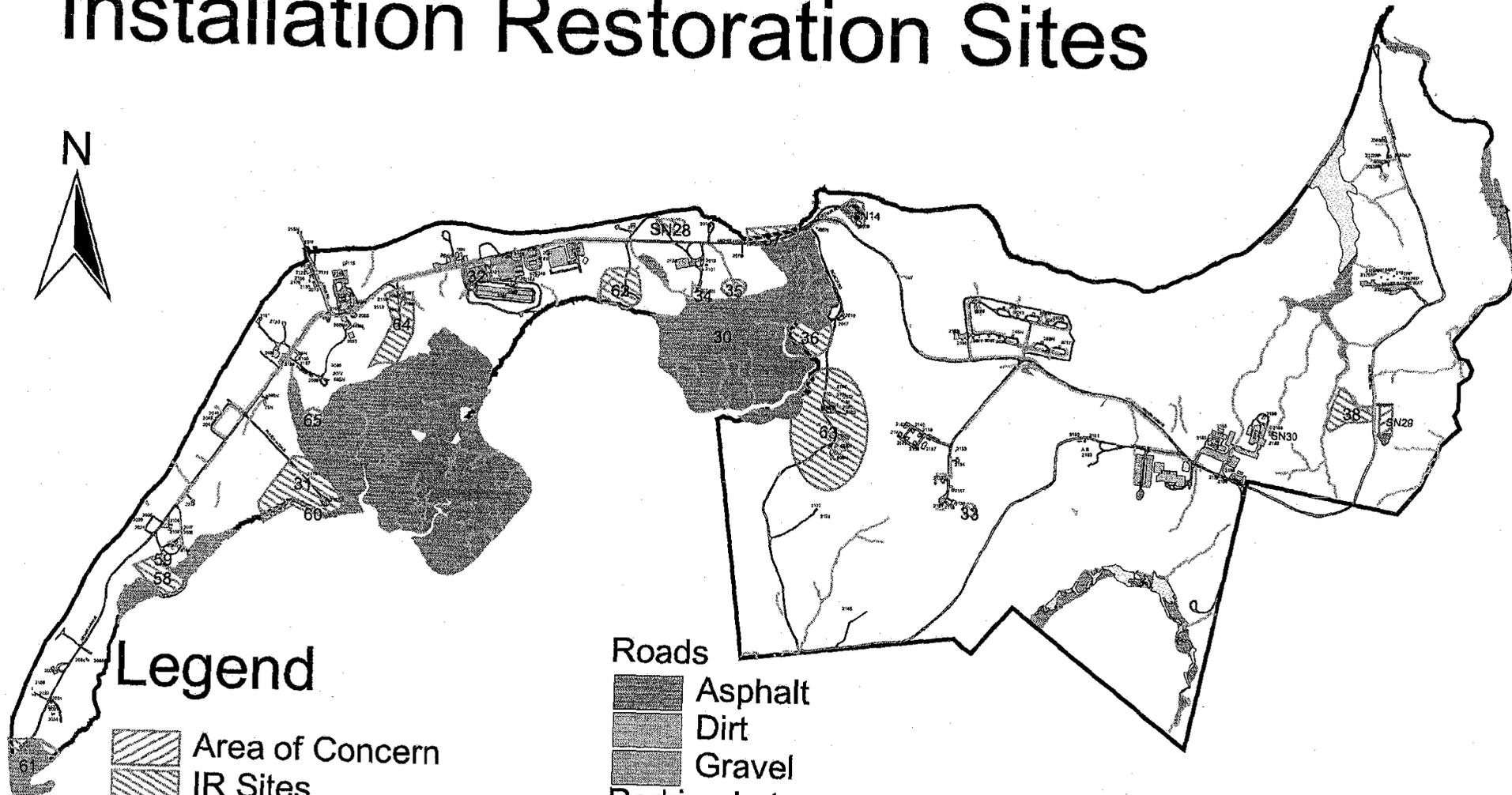
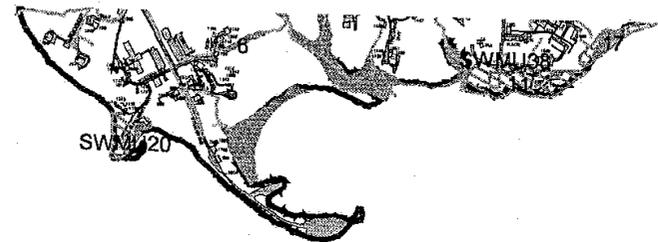
The decision reached during the desktop audit was that, due to lack of information available, this unit should be retained as an area of concern pending additional information.

STUMP NECK INSTALLATION RESTORATION SITES TOUR
(Sorted by Site Visit Order)
May 10, 2004

Site #	Name (Status or Alternate Program)	Location
61	Range 6 (Removed from IR program, still active)	Tip of Peninsula
58	Range 3 (Removed from IR program, still active)	Archer Avenue near Range 6
59	Chicamuxen Creek's Edge Dump Site A (See Site 58)	Under Range 3
31	Old Demolition Range (MRP)	Porter Avenue
60	Chicamuxen Creek's Edge Dump Site B (See Site 31)	By Old Demo Range (Porter Avenue)
65	Inert Ordnance Disposal (MRP)	Road across from IED Training Bldg 2096
64	Improvised Explosive Devices (IED) (MRP)	By Bldgs. 2087/2090
32	Suspected Tool Burial Site (No Action Decision April 2003)	By Bldgs. 2083/2084
62	Air Blast Pond (MRP)	Dirt road across Archer Avenue from Bldg 2174
34	Tool Burial Site (No Action Decision April 2003)	By Bldg. D-21C
35	Torpedo Burial Site (MRP)	Behind Bldg. 2075
SWMU28	Old Skeet and Trap Range (MRP)	West of Building 2012SN and near Causeway
37	Causeway (MRP)	Causeway by Roach Road
30	Stump Neck Impact Area (MRP)	Roach Road
36	Closed Landfill (SSA recommended RI/FS)	Roach Road
63	Area 8 (MRP)	Roach Road
SWMU14	Photographic Lab Septic Tank System (SSA)	Near Bldgs 22SN and 2009
33	Scrap Metal Pit (SSA or Desk-top Audit)	Behind Bldgs. 2116/2136
SWMU30	Building 2015 Dry Well (SSA)	By Bldg. 2015
SWMU29	Pistol Range (MRP)	Rum Point
38	Rum Point Landfill (SSA)	Rum Point

MRP = Military Munitions Response Program
SSA = Site Screening Assessment
RI/FS = Remedial Investigation / Feasibility Study

Stump Neck Installation Restoration Sites



Legend

-  Area of Concern
-  IR Sites
-  Streams/Ditches
-  Standing Surface Water
-  SIDEWALK
-  Soil Placement Areas
-  Buildings

- Roads**
-  Asphalt
-  Dirt
-  Gravel
- Parking Lots**
-  Asphalt
-  Concrete
-  Gravel
-  Wetland
-  Boundary

