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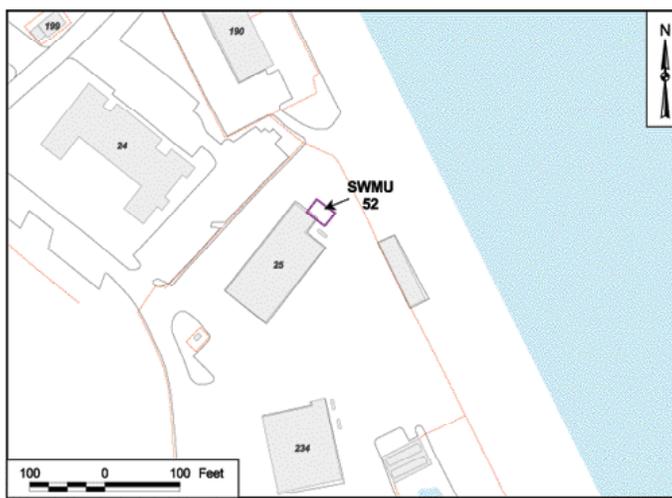
STATEMENT OF BASIS FOR SOLID WASTE MANAGEMENT UNIT 52 NS MAYPORT FL  
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**STATEMENT OF BASIS**  
**Solid Waste Management Unit 52**  
**Naval Station Mayport**  
**Jacksonville, Florida**



**USEPA ID #FL9 170 024 260**

**April 14, 2014**



**Facility/Unit Type:** Naval Station  
**Contaminants:** No Contaminants Exceeding Florida Cleanup Target Levels  
**Media:** Soil and Groundwater  
**Corrective Action:** Soil and Groundwater – No Action

## **SUMMARY**

The proposed **corrective measure** for **Solid Waste Management Unit (SWMU) 52** at Naval Station (NAVSTA) Mayport is **No Action** for **surface soil, subsurface soil, and groundwater**. Oily stains had been observed on the asphalt in the vicinity of a waste oil bowser at SWMU 52 during the **Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)** in 1989. Sample results collected during the RFA Visual Site Inspection (VSI) and the Group III **RCRA Facility Investigation (RFI)** have shown that surface and subsurface soil contamination is not of concern for SWMU 52. Also, groundwater sample results associated with the RFA-VSI have shown that groundwater contamination is not of concern for SWMU 52. No surface water exists at SWMU 52.

The public is invited to comment on this proposed corrective action or any other corrective measure alternative including those not previously studied. Information on how the public may participate in this decision-making process is provided in the Public Participation section of this document.

## **INTRODUCTION**

Pursuant to RCRA, as amended by the 1984 **Hazardous and Solid Waste Amendments (HSWA)**, the **Florida Department of Environmental Protection (FDEP)** issued the current HSWA **permit** to NAVSTA Mayport on August 30, 2005.

This **Statement of Basis (SB)** identifies the proposed corrective action for SWMU 52, explains the rationale for its selection, describes alternatives evaluated as part of the **Corrective Measures Study (CMS)**, solicits public review and comment on this decision, and provides information as to how the public can be involved in the corrective action selection process. Additional details regarding the facility, environmental investigations, and the evaluation of the corrective measure alternatives may be found in the RFA-VSI and CMS Reports. These documents are kept as part of the Administrative Record at the **Information Repository**. Refer to the Public Participation section of this document for their location. A glossary, which defines some of the technical terms contained herein, is included at the end of this document.

The corrective measures reflected in this SB are those proposed by the United States Navy and the FDEP for implementation at SWMU 52. Changes to the proposed corrective action or a change from the proposed corrective action to another appropriate solution will require public participation.

## PROPOSED CORRECTIVE ACTION

The proposed corrective action for surface soil, subsurface soil, and groundwater at SWMU 52, NAVSTA Mayport, is No Action.

## FACILITY BACKGROUND

NAVSTA Mayport is located near the town of Mayport within the city limits of Jacksonville, Florida, in northeastern Duval County on the southern shore of the confluence of the St. Johns River and the Atlantic Ocean (see Figure 1). SWMU 52, the Public Works Department (PWD) Service Station Storage Area, is located at Building 25 in the central portion of NAVSTA Mayport near the Mayport Turning Basin (see Figure 2).

Figure 1. Naval Station Mayport Location Map

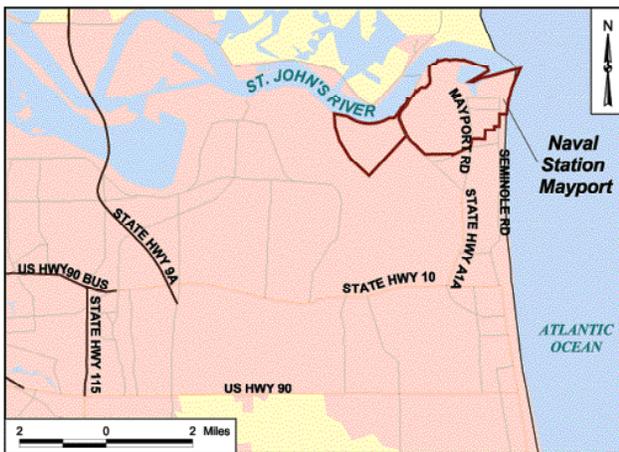
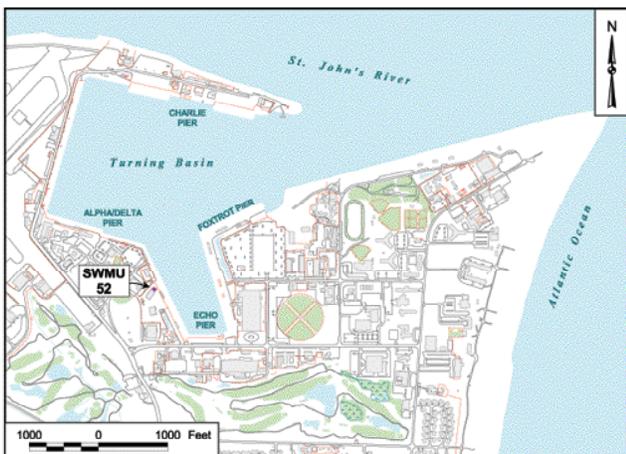


Figure 2. SWMU Location Map



SWMU 52, the PWD Service Station Storage Area, is located on and adjacent to a concrete slab that is 30 feet long and 20 feet wide and is situated along the northeastern wall of Building 25. At the time of the RFA in 1989, 55-gallon drums, a waste oil bowser, and a drain leading to a nearby oil-water separator were items of potential concern at SWMU 52. Facility personnel indicated that at least four drums stored on the concrete slab contained window washing fluid, coolant, and waste oil. Another drum had an open bung and appeared to be one quarter full of an oily substance. A 300-gallon capacity oil bowser was located on the asphalt just off the northeastern edge of the concrete slab. The bowser was reported to be emptied periodically and the oil taken offsite to be recycled. Dark asphalt stains were noted beneath the waste oil bowser. During a site visit by ABB Environmental Services, Inc. (ABB-ES) personnel on May 5, 1994, the site appeared generally as described in the 1989 RFA. However, no drums were present, and a small tank (approximately 250 gallons) within a metal containment tub was in place of the former waste oil bowser. No staining in the area of the tank was observed.

Limited confirmatory sampling was conducted by ABB-ES in May to June 1995 at SWMU 52 as part of the RFA-VSI. No stains or signs of releases were observed at that time. Field activities included the collection of one surface and one subsurface soil samples and the installation and sampling of one shallow groundwater monitoring well. No additional samples were collected due to the relatively small size of the SWMU footprint. The soil and groundwater samples were analyzed for volatile organic compounds, semivolatile organic compounds, pesticides, inorganics, total petroleum hydrocarbons (groundwater only), and miscellaneous parameters (groundwater only). The target analytes were compared to FDEP Cleanup Target Levels (CTLs) and NAVSTA Mayport Background Screening Values (BSVs). The surface soil results exceeded the FDEP Soil Cleanup Target Level (SCTL) of 100 micrograms per kilogram (mg/kg) for benzo(a)pyrene equivalents. Due to the surface soil detection in asphalt-covered parking lot areas, the occurrence of benzo(a)pyrene was not believed to be a result of a release at SWMU 52. No target analytes exceeded FDEP Groundwater Cleanup Target Levels (GCTLs) in the subsurface sample. Manganese exceeded the FDEP GCTL of 50 micrograms per liter ( $\mu\text{g/L}$ ); however, it did not exceed the NAVSTA Mayport BSV of 141  $\mu\text{g/L}$ . Manganese is not considered a **contaminant of concern** (COC) for groundwater at SWMU 52.

## SUMMARY OF FACILITY RISKS

The FDEP CTLs are based upon human health risk criteria. Sample results that exceed the FDEP CTLs indicate a potential concern for SWMU 52.

### Human Health Baseline Risk Assessment

Soil. Benzo(a)pyrene exceeded the FDEP SCTL of 100 mg/kg in surface soil. The sample location was in an asphalt parking area; therefore, the sample result was not attributed to SWMU 52. No subsurface soil sample results were detected at concentrations exceeding residential SCTLs. Therefore, no human health risks were identified.

Groundwater. One contaminant (manganese) in groundwater was identified at SWMU 52 at a level exceeding health-based risk criteria including the Florida GCTL. However, the detected concentration of manganese was found to be less than NAVSTA Mayport BSVs; therefore, manganese was not retained as a COC.

### Conclusions

No COCs were identified for surface soil, subsurface soil, or groundwater at SWMU 52.

## SCOPE OF CORRECTIVE ACTION

No COCs were identified for SWMU 52. Therefore, contamination maps were not prepared and no excavation volumes were estimated.

## SUMMARY OF ALTERNATIVES

No contaminants are identified as COCs at SWMU 52; therefore, No Action is recommended for addressing the surface soil, subsurface soil, and groundwater at SWMU 52.

## PUBLIC PARTICIPATION

The FDEP will make a final decision and incorporate corrective measures into the HSWA permit, and is soliciting public review and comment on this SB for the proposed corrective action for SWMU 52 at NAVSTA Mayport. The 40 Code of Federal Regulations (CFR) 124.10(6) requires a 45-day comment period for a permit modification request made by the permittee under RCRA. The FDEP has undertaken the lead role on this request initiated by the Navy (the permittee). The comment period will begin on April 14, 2014, and will be published in the *Jacksonville Daily Record*.

Copies of the RFI, CMS Report, and the SB are available for public review at the Information Repository located

at the Jacksonville Public Library - Beaches Branch, 600 3rd Street, Neptune Beach, Florida, 32266 [Phone (904) 241-1141].

A public hearing will be held if one is requested. To request a public hearing, to obtain more information about this SB, or to submit written comments, please contact Paul Malewicki or John Winters (contact information provided below).

All comments must be postmarked no later than May 30, 2014.

### Contact Persons

#### NAVY

Paul Malewicki  
Environmental Department  
Naval Station Mayport  
Jacksonville, FL 32228-0067  
(904) 270-3188  
[Paul.G.Malewicki@navy.mil](mailto:Paul.G.Malewicki@navy.mil)

#### FDEP

John Winters, PG (MS 4535)  
FDEP, Bob Martinez Center  
Federal Programs Section  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
(850) 245-8999  
[John.Winters@dep.state.fl.us](mailto:John.Winters@dep.state.fl.us)

### Next Steps

The FDEP will modify the HSWA permit to incorporate the final decision on the RCRA permit modification request when the permit is renewed, unless otherwise indicated. The final decision will detail the No Action corrective measure chosen for SWMU 52 and will include responses to comments received during the **public comment period** in a **Response to Comments Summary**.

Notice will be given to the Navy and to each person who has submitted written comments or who has requested notice of the final decision when the permit is modified. The final permit decision shall become effective 30 days after the issuance of the notice of the decision unless a later date is specified or review is requested under 40 CFR 124.19. The final permit modification shall become effective immediately upon issuance if no comments are received requesting a change in the draft permit.

## KEY WORDS

ABB-ES	ABB Environmental Services, Inc.	µg/L	Microgram per Liter
BSV	Background Screening Value	NAVSTA	Naval Station
CFR	Code of Federal Regulations	PWD	Public Works Department
CMS	Corrective Measures Study	RCRA	Resource Conservation and Recovery Act
COC	Contaminant of Concern	RFA	RCRA Facility Assessment
CTL	Cleanup Target Level	RFI	RCRA Facility Investigation
FDEP	Florida Department of Environmental Protection	SB	Statement of Basis
GCTL	Groundwater Cleanup Target Level	SCTL	Soil Cleanup Target Level
HSWA	Hazardous and Solid Waste Amendments	SWMU	Solid Waste Management Unit
		VSI	Visual Site Inspection

## GLOSSARY

**Aquifer:** An underground layer of permeable rock, sediment, or soil capable of storing and transporting water within cracks and pore spaces or between grains.

**Contaminant of Concern (COC):** A contaminant detected in environmental media at a concentration that may adversely affect human health or ecological receptors.

**Corrective Measure:** Includes corrective action necessary to protect human health and the environment for releases of hazardous constituents from any SWMU at the facility regardless of the time at which waste was placed at the location as required by 40 CFR 264.101. Actions may address releases to air, soils, surface water, or groundwater.

**Corrective Measures Study (CMS):** A step in the RCRA corrective action process where the owner and operation identifies and evaluates cleanup alternatives for addressing contamination at a SWMU.

**Florida Department of Environmental Protection (FDEP):** The state agency responsible for implementing Florida environmental laws.

**Groundwater:** Water found within an aquifer.

**Hazardous and Solid Waste Amendments (HSWA):** Amendments to RCRA, passed in 1984, which greatly expand the nature and complexity of activities covered under RCRA.

**Human Health Baseline Risk Assessment:** Study to determine the likelihood that a given exposure or series of exposures may have damaged or will damage human health.

**Information Repository:** A public file containing technical reports, reference documents, and other materials relevant to the SWMU cleanup.

**No Action:** Recommendation or decision indicating no contaminants above regulatory limits.

**Permit:** A RCRA permit, issued for NAVSTA Mayport, establishes the facility's operating conditions for managing hazardous waste.

**Public Comment Period:** A legally required opportunity for the community to provide written and oral comments on a proposed environmental action.

**RCRA Facility Assessment (RFA):** Gathers information on releases at RCRA facilities, evaluates the nature and extent of the releases of hazardous waste, and determines if releases warrant further investigation or other action.

**RCRA Facility Investigation (RFI):** Evaluates the nature and extent of the releases of hazardous waste.

**Resource Conservation and Recovery Act (RCRA) of 1976:** Requires each hazardous waste treatment, storage, and disposal facility to manage hazardous waste in accordance with a permit issued by the USEPA or a state agency that has a hazardous waste program approved by the USEPA.

**Response to Comments Summary:** A document summarizing the public comments received and the responses to the comments.

**Risk Assessment:** A study estimating the potential risk a SWMU poses to human health and the environment.

**Solid Waste Management Unit (SWMU):** Any discernable unit (to include regulated units) at which RCRA regulated waste has been placed at any time,

## GLOSSARY

irrespective of whether the unit was intended for the management of solid or hazardous waste.

**Statement of Basis (SB):** A public participation document detailing the proposed corrective action at a SWMU.

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**Surface Soil:** Soil found from 0 to 2 feet below land surface.

**Subsurface Soil:** Soil found 2 feet below land surface and deeper.

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**Comments on the Statement of Basis for  
Solid Waste Management Unit 52**

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JOHN WINTERS PG (MS 4535)  
FEDERAL PROGRAMS SECTION  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BOB MARTINEZ CENTER  
2600 BLAIR STONE ROAD  
TALLAHASSEE FL 32399-2400