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STATEMENT OF BASIS FOR SOLID WASTE MANAGEMENT UNIT 19 NS MAYPORT FL
4/14/2014
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STATEMENT OF BASIS
Solid Waste Management Unit 19
Naval Station Mayport
Jacksonville, Florida



USEPA ID #FL9 170 024 260

April 14, 2014



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

SUMMARY

The proposed corrective action at **Solid Waste Management Unit (SWMU) 19**, Naval Air Station Depot (NADEP) Blasting Area, at Naval Station (NAVSTA) Mayport is **No Action** for **soils** and **groundwater**. SWMU 19 was used for abrasive blasting of unpainted aircraft carrier parts including catapult and arresting gear for carrier flight decks. The SWMU is located north of NADEP Buildings 1470 and 1471 approximately 25 feet from the St. Johns River. No **contaminants of concern (COCs)** were identified in any media at SWMU 19.

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 the **Resource Conservation and Recovery Act (RCRA)**, as amended by the 1984 **Hazardous and Solid Waste Amendments (HSWA)**, the **Florida Department of Environmental Protection (FDEP)**

issued the renewed HSWA **permit** to NAVSTA Mayport on August 17, 2009.

This **Statement of Basis (SB)** identifies the proposed corrective action for SWMU 19, explains why the selected corrective action was chosen, 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 **RCRA Facility Assessment Sampling Visit (RFA-SV)** and **Corrective Measures Study (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 19. Changes to the proposed corrective measure or a change from the proposed corrective action to another appropriate solution will require public participation as described in this document.

PROPOSED CORRECTIVE ACTION

The proposed corrective action at SWMU 19 at NAVSTA Mayport is No Action for soils and groundwater.

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 19, the NADEP Blasting Area, is located north of NADEP Buildings 1470 and 1471 approximately 25 feet from the St. Johns River (see Figure 2).

Figure 1. Naval Station Mayport Location Map

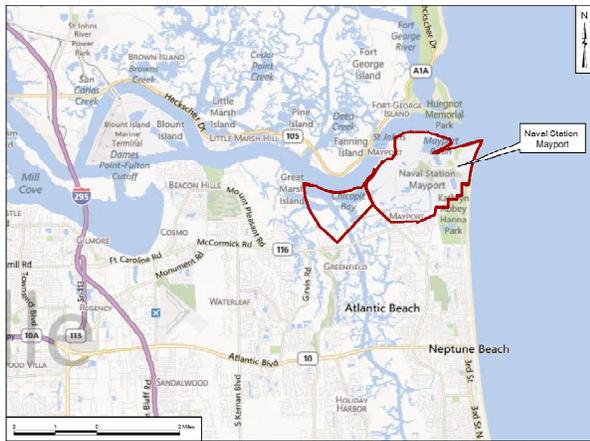
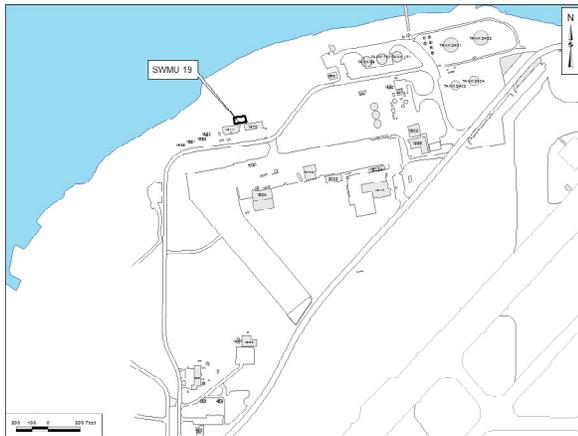


Figure 2. SWMU Location Map



SWMU 19 was used for abrasive blasting of unpainted aircraft carrier parts including catapult and arresting gear for carrier flight decks. Abrasive blasting was conducted in this area from approximately 1981 to 1989. The area, approximately 75 feet in diameter, is outside, and blasting occurred on a blasting rack that was located over bare soil.

The investigation at SWMU 19 was conducted by ABB Environmental Services, Inc., in June 1994 as part of the Group II RFA-SV. Field activities included the collection of surface soil, subsurface soil, and sediment samples; installation of monitoring wells; and collection of discrete samples for analysis using toxicity characteristic leaching procedure (TCLP). During the RFA-SV, six surface soil samples, six subsurface soil samples, and three sediment samples were collected. One site-specific reference sample was also collected from surface soil, subsurface soil, and sediment. In addition, three discrete samples of Black Beauty[™] blasting media were collected for analysis using TCLP. These samples were analyzed for volatile organic compounds, semivolatile organic compounds, pesticides, polychlorinated biphenyls, metals, and cyanide. The groundwater was sampled in June 1998 to verify there was no impact to groundwater downgradient of SWMU 19.

The detected concentrations of analytes for each environmental medium were compared to FDEP Cleanup Target Levels (CTLs) (Chapter 62-777, Florida Administrative Code) for surface soil, subsurface soil, and groundwater, as appropriate. This comparison showed three contaminants (chlorobenzilate, endrin ketone, and cyanide) have the potential to leach from the soil and impact groundwater and surface water. However, there were no detectable levels of chlorobenzilate, endrin ketone, or cyanide in the groundwater samples collected from nearby monitoring wells. Therefore, these constituents will not be COCs due to leachability. No contaminants in surface or subsurface soil samples exceeded FDEP residential direct-exposure soil CTLs or NAVSTA Mayport Background Screening Values. No contaminants were selected as COCs for soil or groundwater

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 19.

Human Health Risk Assessment

Soil. No analytes were detected at concentrations exceeding residential screening values; therefore, no human health risks were identified.

Groundwater No analytes were detected at concentrations exceeding residential screening values; therefore, no human health risks were identified.

SCOPE OF CORRECTIVE ACTION

No COCs are identified in the soils or groundwater at SWMU 19; therefore, No Action is proposed at SWMU 19.

SUMMARY OF ALTERNATIVES

No Action is the only alternative selected.

EVALUATION OF THE PROPOSED REMEDY AND ALTERNATIVES

No evaluation of alternatives is required.

RECOMMENDATIONS

No Action is recommended for the soil and groundwater at SWMU 19.

PUBLIC PARTICIPATION

To make a final decision and incorporate corrective measures into the HSWA permit, the FDEP is soliciting public review and comment on this SB for the proposed corrective action for SWMU 19 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 RFA-SV, 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

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Next Steps

Unless otherwise indicated, the FDEP will modify the HSWA permit to incorporate the final decision on the RCRA permit modification request when the permit is renewed. The final decision will detail the corrective measure chosen for SWMU 19 and will consider comments received during the **public comment period** in a **Response to Comments Summary**.

When the permit is modified, 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. 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. If no comments are received requesting a change in the draft permit, the final permit modification shall become effective immediately upon issuance.

KEY WORDS

CFR	Code of Federal Regulations	NAVSTA	Naval Station
CMS	Corrective Measures Study	RCRA	Resource Conservation and Recovery Act
COC	Contaminant of Concern	RFA-SV	RCRA Facility Assessment-Site Visit
CTL	Cleanup Target Level	SB	Statement of Basis
FDEP	Florida Department of Environmental Protection	SCTL	Soil Cleanup Target Level
HSWA	Hazardous and Solid Waste Amendments	SWMU	Solid Waste Management Unit
NADEP	Naval Air Depot	TCLP	Toxicity Characteristic Leaching Procedure

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 chemical detected in environmental media at a concentration that may adversely affect human health or ecological receptors.

Corrective Measure: The actual construction or cleanup phase following the selection of cleanup alternatives.

Corrective Measures Study (CMS): An engineering analysis and report that identifies, evaluates, and compares the most appropriate technical approaches 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-Site Visit (RFA-SV): A site investigation regulated under RCRA that is used to determine the nature and extent of contamination at a particular location.

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.

Soils: Soils include surface soil, which is soil from 0 to 2 feet below land surface, and subsurface soil, which is soil 2 feet below land surface and deeper.

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

United States Environmental Protection Agency (USEPA): The federal agency responsible for implementing United States environmental laws.

**Comments on the Statement of Basis for
Solid Waste Management Unit 19**

Place
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