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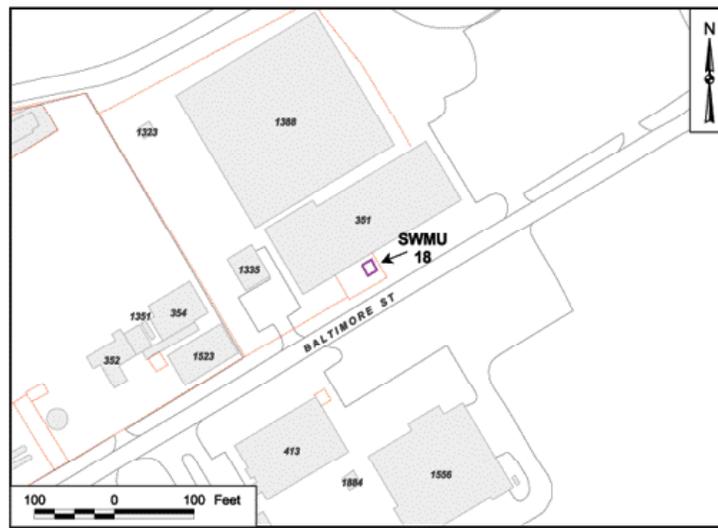
STATEMENT OF BASIS FOR SOLID WASTE MANAGEMENT UNIT 18 NS MAYPORT FL
4/14/2014
TETRA TECH

STATEMENT OF BASIS
Solid Waste Management Unit 18
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 action for **Solid Waste Management Unit (SWMU) 18** at Naval Station (NAVSTA) Mayport is **No Action** for **surface soil, subsurface soil, and groundwater**. SWMU 18 is a diesel generator sump associated with the Firefighting Training Area (FFTA). Soil sample results collected during the **Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI)** have shown that neither surface nor subsurface soil contamination is of concern for SWMU 18. Also, groundwater sample results associated with the RFI have shown that groundwater contamination is not of concern for SWMU 18. No surface water exists at SWMU 18.

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 17, 2009.

This **Statement of Basis (SB)** identifies the proposed corrective action for SWMU 18, 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 RFI 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 18. Changes to the proposed corrective action or a change from the proposed corrective action to another appropriate solution will require public participation.

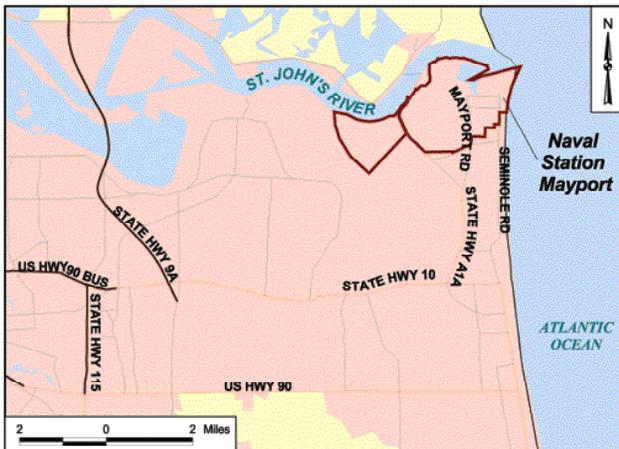
PROPOSED CORRECTIVE ACTION

The proposed corrective action for surface soil, subsurface soil, and groundwater at SWMU 18, NAVSTA Mayport, is No Action.

FACILITY BACKGROUND

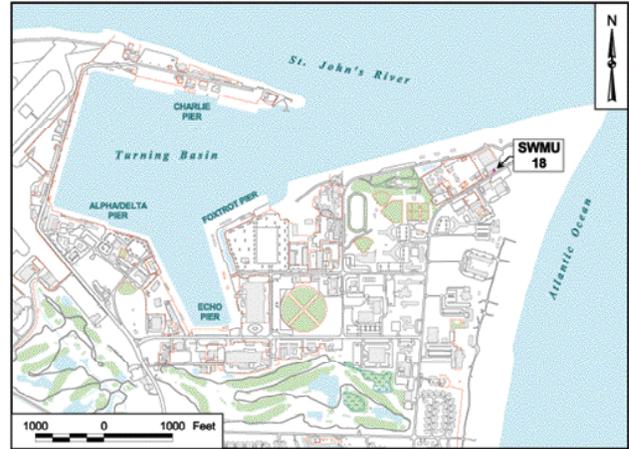
NAVSTA Mayport is located near the town of Mayport within the city limits of Jacksonville, Florida, in northeastern Duval County on the southern shore of the confluence of the St. Johns River and the Atlantic Ocean (see Figure 1). SWMU 18, the Fleet Training Center (FTC) Diesel Generator Sump Area, is located at the FFTA which is part of the FTC due south of the St. Johns River, approximately 1,000 feet west of the Atlantic Ocean in the northeastern portion of NAVSTA Mayport (see Figure 2).

Figure 1. Naval Station Mayport Location Map



SWMU 18 is the FTC Diesel Generator Sump and consists of a concrete containment structure in which a diesel generator is located. The generator has been at this location since approximately 1982. The sump is approximately 5 feet wide and 10 feet long with 6-inch high sides. A drainpipe exists in one side of the sump to drain stormwater that accumulates in the sump. During the RCRA Facility Assessment in 1989, surface soil staining was observed outside of the sump under the drainpipe's valve and within the flow path extending towards an open stormwater ditch 4 feet to the south. The flow path continued down the ditch to a stormwater sewer catch basin approximately 10 feet to the southwest. Stormwater collected at the catch basin

Figure 2. SWMU Location Map



appeared to discharge from an outlet on the eastern side of Building 351, but could flow to the fire-fighting apron/retention area. In addition, FFTA waste petroleum liquids were reported to have entered the ditch during overflow at an upstream manhole.

An RFI was conducted from March through October 1995 to delineate the nature and extent of contamination. Field activities consisted of a preliminary screening of groundwater samples using a gas chromatograph, the collection of surface and subsurface soil samples, and the installation and sampling of monitoring wells. None of the analytes detected in the surface and subsurface soil samples exceeded the FDEP Residential Soil Cleanup Target Levels; therefore, no soil **contaminants of concern** (COCs) are identified at SWMU 18. Manganese, at 78.4 micrograms per liter ($\mu\text{g/L}$), is the only analyte that was detected in groundwater at a concentration exceeding the FDEP Groundwater Cleanup Target Level (GCTL) of 50 $\mu\text{g/L}$; however, it was not present at concentrations exceeding the NAVSTA Mayport Background Screening Value (BSV) of 141 $\mu\text{g/L}$. Therefore, manganese is not considered a COC for groundwater at SWMU 18.

SUMMARY OF FACILITY RISKS

The FDEP Cleanup Target Levels (CTLs) are based upon human health risk criteria. Sample results that exceed the FDEP CTLs indicate a potential concern for SWMU 18.

Human Health Baseline Risk Assessment

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

Groundwater. One contaminant (manganese) in groundwater was identified at SWMU 18 at a level

exceeding health-based risk criteria including the FDEP GCTLs. The detected concentration of manganese was 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 18.

SCOPE OF CORRECTIVE ACTION

No COCs were identified for SWMU 18.

SUMMARY OF ALTERNATIVES

No contaminants are identified as COCs at SWMU 18; therefore, No Action is recommended for addressing the surface soil, subsurface soil, and groundwater at SWMU 18.

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 18 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

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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 18 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

BSV	Background Screening Value	GCTL	Groundwater Cleanup Target Level
CFR	Code of Federal Regulations	HSWA	Hazardous and Solid Waste Amendments
CMS	Corrective Measures Study	µg/L	Microgram per Liter
COC	Contaminant of Concern	NAVSTA	Naval Station
CTL	Cleanup Target Level	RCRA	Resource Conservation and Recovery Act
FDEP	Florida Department of Environmental Protection	RFI	RCRA Facility Investigation
FFTA	Firefighter Training Area	SB	Statement of Basis
FTC	Fleet Training Center	SWMU	Solid Waste Management Unit

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 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, 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.

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

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

**Comments on the Statement of Basis for
Solid Waste Management Unit 18**

Place
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Here

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