

**MAINE PUBLIC DRINKING WATER
SOURCE WATER ASSESSMENT PROGRAM
US NAVY SERE SCHOOL
FIRE POND, DALLAS PLANTATION MAINE**

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PREPARED BY

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DRINKING WATER PROGRAM
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Introduction

The Maine Drinking Water Program, a state agency within the Department of Human Services, Bureau of Health, has completed an assessment of the susceptibility to contamination of the water supply serving the US Navy SERE School, a transient surface water supply located in Dallas Plantation, Maine. The assessment is a requirement of the Federal Safe Drinking Water Act, a law originally passed in 1974 in an effort to ensure the safety of public water supplies. The Transient Water Supplier (TWS) has voluntarily cooperated with the Drinking Water Program in completing this assessment. In the following sections, the water system and source are described and two maps of the source location are provided which show the watershed and intake area. The risk of contamination of the source is evaluated, and recommendations for action on the part of the water supplier are provided.

Maps of the Source

See Figures 1 and 2 in the back of the report.

Water System Description

PWSID #: 94403

Water System Name: US Navy SERE School c/o BNAS

Water System Location: Dallas Plantation, Maine

Source Name: Fire Pond

Source size: ?

Source perimeter: ?

Watershed Size: ~700 acres

Watershed Perimeter: ~1.3 miles

Water System Type: Transient non-community

Operating Season: Jan. 1 – Dec. 31

Population served: 33

Number of Intakes: 1

Location of intakes in relation to any adjacent property: in front of pumphouse

Approximate distance of intake from the shoreline: 8 feet offshore

Approximate depth of the intake: 3 feet

Approximate distance of the intake from the bottom: ?

The intake is protected by a screen, there are no buoys, but the intake can be clearly seen in the water.

Number of Individuals served daily: ~33

Number of Ground Water Sources: 0

Number of Surface Water Sources: 1

The water from the surface source is not combined with any other sources of water.

Treatment:

Disinfection: Post Hypo chlorination Filtration: Yes

Estimated Daily Water Use: ?

Potential Risk of Contamination to the Source

Transient water systems are regulated by the Drinking Water Program for pathogens and nitrate/nitrite since the individuals consuming the water are not the same ones from one day to the next. In general, no individual consumes the water for an extended period of time and therefore contaminants, which pose a long-term health risk, are not significant. For this reason, evaluation only of the intake zone was completed. The report includes a map of the shoreline adjacent to the intake.

Assessment Zones

Watershed: The estimated size of the Fire Pond watershed is over 700 acres. The watershed is in Dallas Plantation, and is owned entirely by the U.S. Navy. The stream bed above the Fire Pond source is composed of glacial cobble. Upon review of the Maine Department of Environmental Protection (MDEP) "Threats to Groundwater" database, there appear to be no threats within the Fire Pond watershed.

Immediate Shore land: The shoreline is covered in riprap on all four sides. There are no roads within 100 feet of the shoreline. There is nothing around or above the pond, with the exception of trees and rocks. There appears to be low potential for erosion problems.

Intake (1,000 ft. radius): The intake is about 8 feet from the shoreline, and about 3 feet below the surface of the pond. The intake is protected by a screen but is not marked off by buoys or signage. There are no conditions that are currently affecting the water quality and there are no signs of viral, bacteriological or Nitrate/Nitrite contamination.

SWAP Ranking:

The SWAP assessment factors indicate that the overall susceptibility of the water quality in Fire Pond is **low**. This conclusion is based on the general conditions observed around the intake and shore land zone, the presence of few threats in the DEP database and the relatively small watershed.

Discussion and Recommendations

The susceptibility of the Fire Pond surface water source to be impaired is low. There are no potential threats identified by the MDEP within the watershed. The operator may want to consider marking the intake with buoys.