

**MAINE PUBLIC DRINKING WATER
SOURCE WATER ASSESSMENT PROGRAM
TWO LAKES (CAMPING) MUSKEGON
OXFORD, MAINE**

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PREPARED BY

**SOURCE WATER ASSESSMENT PROGRAM
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 a draft assessment of the susceptibility to contamination of the water supply serving Two Lakes (Camping) Muskegon, a transient surface water supply located in Oxford, 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 report the water system and source are described and a photo of the source is included. The risk of contamination of the source is evaluated, and recommendations for action on the part of the water supplier are provided.

Water System Description

PWSID #: 105684
Water System Name: Two Lakes (Camping) Muskegon
Water System Location: Oxford, Maine
Source Name: Hogan Pond
Source size: ~360 acres (This includes both Whitney & Hogan Pond)
Source perimeter: 8.87 miles (This includes both Whitney & Hogan Pond)
Watershed Size: 858.90 acres (Just Hogan Pond Watershed)
Watershed Perimeter: 5.05 miles (Just Hogan Pond Watershed)
Water System Type: Transient non-community
Operating Season: May 15-October 15
Population served: a total of 119 sites, 108 sites have access to water at them.
Number of Intakes: 1
Location of intake in relation to any adjacent property: in front of camp property
Approximate distance of the intake from the shoreline: ~140 feet offshore
Approximate depth of the intake: ~25 feet
Approximate distance of the intake from the bottom: ~2 feet
The intake is not marked with buoys in the water and there are no signs on the shoreline identifying the drinking water supply.
Number of Individuals served daily: ~150 a day from May to September.
Number of Ground Water Sources: 1 well is used as a backup source
Number of Surface Water Sources: the surface water intake is the primary source.
The surface water source is not combined with any other sources. The well is a secondary source for the campground.
Treatment:
Disinfection: Post hypo chlorination
Filtration
Estimated Daily Water Use: ~1,500 gallons a day

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.

Assessment Zones

Watershed: The Hogan Pond watershed has a 5.05-mile perimeter and is 858.90 acres. The watershed is completely within the town of Oxford, Maine. Upon review of the Maine Department of Environmental Protection (MDEP) “Threats to Groundwater” database, there are no threats within the Hogan Pond Watershed boundary.

Immediate Shore land: The shoreline near the intake follows a North-South orientation. The area includes a stretch of sandy beach along the shoreline. A very low sloping bank meets the sandy shoreline. Much of the property immediate to the intake is forested. There are some small trees on the beach and there is some tall (marsh) grass growing at the edge of the water. The camp property includes a sandy spit that extends just to the south of the swimming beach. The shoreline is adequately vegetated and there appears to be very low potential for erosion problems.

Intake (1,000 ft. radius): The intake is ~140 feet from the shoreline in ~27 feet of water. The intake is ~25 feet below the surface and ~2 feet off the bottom. The intake is protected by a screen and backflow valve and is covered with a tripod to protect it from above. There is a float attached to the valve to keep it up off the bottom. The intake line is 2 inch black PVC and is buried beneath the sand on the beach and runs up into the main part of the house through the basement wall. In the lake a steel casing protects the 2-inch pipe. There are no conditions that are currently affecting the water quality and there are no signs of viral, bacteriological or Nitrate/Nitrite contamination. There are two leach fields on the property; one by the lodge and one near the boathouse. There is a dirt boat launch just to the south of the intake area. Swimming and boating are allowed near the intake area. This is an area of some concern because swimmers are allowed in the water within 1,000 feet of the intake.

SWAP Ranking:

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

Discussion and Recommendations

The susceptibility of the Two Lakes (Camping) Muskegon surface water source (Hogan Pond) to be impaired is low. There are no threats that were identified by the Maine DEP. The threats that were identified during the site visit (leach fields, swimming area, boating area) do pose a slight threat to the water system because of their proximity

to the intake. The operator may want to consider moving the intake (if possible) to a location that is away from many of the day-to-day campground activities. The system appeared to be very well designed and efficiently maintained. The system has shut off valves in numerous locations and there is a second pump on hand in case of an emergency. There is a well that could be used as a backup source if necessary and there is also a generator in case power is lost.