



CONTINGENCY PLAN Municipality of Machin

Vermilion Bay Water Treatment & Distribution Systems

Problem: **Contaminated Water in Clearwell
(Microbiological Parameter)**

Contact Info: Overall Responsible Operator (ORO)
Operator-In-Charge (OIC)

- Procedures:**
1. If contaminant concentrations exceed amounts determined to be adverse by O. Reg. 169/03, immediately refer to the appropriate contingency for Adverse Water Quality. It is unlikely (due to the delay between collecting the sample and receiving results) that the contaminated water is or can be isolated in the clearwell. Immediately contact the Operations Manager, ORO and OIC.
 2. Determine the nature of contamination. If contamination is related to raw water quality, refer also to the contingency for Contaminated Raw Water Source (Microbiological Parameter). If contamination is related to plant performance, refer also to the contingency for Poor Treatment Plant Performance.
 3. Steps 4 through 7 should be followed in instances of severe microbiological contamination.
 4. Once the source of contamination has been determined and eliminated, both reservoirs and clearwells should be decontaminated, cleaned and disinfected. Contaminated water can be pumped from the clearwell to the sludge holding tank. From the sludge holding tank the contaminated water can be disposed of into the sewage collection system.

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5. Once the reservoir has been emptied of contaminated water and properly cleaned and disinfected, the operator can begin filling the reservoir with potable water.
6. After verifying that the contaminant is no longer present and after the required contact time has been provided to ensure primary disinfection, the operator may resume high lift pumping operations from the reservoir which has been decontaminated, properly cleaned and disinfected.
7. Determine the severity of contamination in the distribution system. Refer to the appropriate contingency for contaminated water in the Distribution System as required.