STANDARD OPERATING PROCEDURE				
SOP # 18 REASON CODE: H—Waterborne disease outbreak in the community			REV: 0 DATE: Dec. 2015	
BWA CAUSE IDENTIFICATION Take appin conjurted and Community Control of the contamination	corrective Measures repropriate emergency responses nction with Department of Health munity Services - Disease Manual (HCS, 2013) and input her government departments ng Service NL and MAE). ate source water and distribution for sources of pathogenic mation via human or animal such as on-site septic systems, onnections, sewer overflows, feeces (domestic and wildlife), unoff, broken sewer mains/s, and other sources of sewage. The pathways for pathogens into king water system. Pathways may non-potable water intrusion into ribution system (e.g., via pressure pass-connections, fire fighting/flush storage and corrosion tubercles, and buildup in pipes and storage ack of vermin proof well caps, tank tot., vandalism, exposure of water locture components (e.g., pipes), or of preventative maintenance. Schould assess performance of all treatment or disinfection es are required. Schould increase disinfection in accordance with provincial	Confirm Operation and Lift BWA Owner to test disinfectant residuals to confirm compliance with the Drinking Water Treatment Standards. Owner to contact Service NL office to request an Environmental Health Officer to re-sample the drinking water system for compliance with provincial drinking water bacteriological and disinfection standards. Implement Long Term Corrective Measures Owner should provide opportunities for training to increase operators knowledge associated with cause and corrective measures. Owner should ensure operators have appropriate level of training/education to allow operators to be eligible for certification in accordance with provincial standards. Operator training may be obtained via ACWWA, on-line courses, and MAE Operator Education, Training and Certification.		IMPLEMENT PREVENTATIVE MAINTENANCE DAILY Measure and record flow rates. Complete daily disinfection and treatment logs. Visual inspection of chemical feed pumps and feed lines. Measure and record chemical usage. Measure and record free and total chlorine residual throughout the distribution system (first user, end of main and branch lines). WEEKLY Visual inspection of chlorine injector for leaks and ensure operating normal. MONTHLY Inspect and clean intake structure, intake screens and pipeline. Inventory all consumables and order supplies as necessary. If a back-up metering pump is available, replace operating pump with back-up pump and inspect internal components. 3 MONTHS Clean chemical feed lines and solution tanks. 6 MONTHS Inspect watershed for potential sources of contamination (including development activity, storage of chemicals/fuels and animal activity). ANNUAL Inspect dam and spillway for signs of deterioration, malfunction, blockages and public safety. For more detailed information on preventative maintenance schedules for water infrastructure visit http://www.mae.gov.nl.ca/waterres/waste/community.html