



## CONTINGENCY PLAN Municipality of Machin

### Vermilion Bay Water Treatment & Distribution Systems

**Problem:** Poor Treatment Plant Performance

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

- Procedures:**
1. Notify the ORO and OIC.
  2. Collect and analyze raw water samples. Any significant changes in raw water quality may require jar tests to be performed. For severe fluctuations in raw water quality, refer to the appropriate contingency on Contaminated Raw Water Source.
  3. If the raw water quality has not changed significantly, check chemical feed systems and verify chemical feeder output/chemical dosages (perform drawdowns). Typical chemical dosages are PAC1 - 20 to 30 mg/L. Typical lime dosages are 3-6 mg/L. If a problem is discovered, refer to contingency for Chemical Feed System Failure.
  4. Check raw water flow rates. For excessive flow rates, reduce flow rate to normal levels.
  5. If flow rates are normal, proceed to make qualitative and quantitative observations of the treatment units. Verify the operation of flocculation tank motors. Check the clarity/turbidity of clarifier effluent. Check sludge blanket levels.
  6. Initiate a manual backwash of one of the affected filters and verify proper backwash sequence (backwash flow rates and durations).
  7. When the cause is determined and resolved, the trains can be run filter-to-waste until acceptable water quality is restored.
  8. If these steps fail to identify the cause of poor plant performance, contact the ORO for further instructions.