

## **ATTACHMENT G – GENERIC TOXICITY REDUCTION EVALUATION (TRE) WORKPLAN (POTW)**

### **I. Information and Data Acquisition**

#### **A. Operations and performance review**

1. NPDES permit requirements
  - a. Effluent limitations
  - b. Special conditions
  - c. Monitoring data and compliance history
2. POTW design criteria
  - a. Hydraulic loading capacities
  - b. Pollutant loading capacities
  - c. Biodegradation kinetics calculations/assumptions
3. Influent and effluent conventional pollutant data
  - a. Biochemical oxygen demand (BOD<sub>5</sub>)
  - b. Chemical oxygen demand (COD)
  - c. Suspended solids (SS)
  - d. Ammonia
  - e. Residual chlorine
  - f. pH
4. Process control data
  - a. Primary sedimentation - hydraulic loading capacity and BOD and SS removal
  - b. Activated sludge - Food-to-microorganism (F/M) ratio, mean cell residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD and COD removal
  - c. Secondary clarification - hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
5. Operations information
  - a. Operating logs
  - b. Standard operating procedures
  - c. Operations and maintenance practices
6. Process sidestream characterization data
  - a. Sludge processing sidestreams
  - b. Tertiary filter backwash
  - c. Cooling water
7. Combined sewer overflow (CSO) bypass data
  - a. Frequency
  - b. Volume
8. Chemical coagulant usage for wastewater treatment and sludge processing
  - a. Polymer
  - b. Ferric chloride
  - c. Alum

**B. POTW influent and effluent characterization data**

1. Toxicity
2. Priority pollutants
3. Hazardous pollutants
4. SARA 313 pollutants
5. Other chemical-specific monitoring results

**C. Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data**

1. EP toxicity
2. Toxicity Characteristic Leaching Procedure (TCLP)
3. Chemical analysis

**D. Industrial waste survey (IWS)**

1. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
2. Number of IUs
3. Discharge flow
4. Standard Industrial Classification (SIC) code
5. Wastewater flow
  - a. Types and concentrations of pollutants in the discharge
  - b. Products manufactured
6. Description of pretreatment facilities and operating practices
7. Annual pretreatment report
8. Schematic of sewer collection system
9. POTW monitoring data
  - a. Discharge characterization data
  - b. Spill prevention and control procedures
  - c. Hazardous waste generation
10. IU self-monitoring data
  - a. Description of operations
  - b. Flow measurements
  - c. Discharge characterization data
  - d. Notice of sludge loading
  - e. Compliance schedule (if out of compliance)
11. Technically based local limits compliance reports
12. Waste hauler monitoring data manifests
13. Evidence of POTW treatment interferences (i.e., biological process inhibition)