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

1. Information and Data Acquisition
   a. Operations and performance review
      i. NPDES permit requirements
         (1) Effluent limitations
         (2) Special conditions
         (3) Monitoring data and compliance history
      ii. POTW design criteria
          (1) Hydraulic loading capacities
          (2) Pollutant loading capacities
          (3) Biodegradation kinetics calculations/assumptions
      iii. Influent and effluent conventional pollutant data
           (1) Biochemical oxygen demand (BOD₅)
           (2) Chemical oxygen demand (COD)
           (3) Suspended solids (SS)
           (4) Ammonia
           (5) Residual chlorine
           (6) pH
      iv. Process control data
          (1) Primary sedimentation - hydraulic loading capacity and BOD₅ and SS removal
          (2) Activated sludge - Food-to-microorganism (F/M) ratio, mean cell residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD₅ and COD removal
          (3) Secondary clarification - hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
      v. Operations information
         (1) Operating logs
         (2) Standard operating procedures
         (3) Operations and maintenance practices
      vi. Process sidestream characterization data
          (1) Sludge processing sidestreams
          (2) Tertiary filter backwash
          (3) Cooling water
      vii. Combined sewer overflow (CSO) bypass data
          (1) Frequency
          (2) Volume
      viii. Chemical coagulant usage for wastewater treatment and sludge processing
           (1) Polymer
           (2) Ferric chloride
           (3) Alum
b. **POTW influent and effluent characterization data**
   i. Toxicity
   ii. Priority pollutants
   iii. Hazardous pollutants
   iv. SARA 313 pollutants
   v. Other chemical-specific monitoring results

c. **Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data**
   i. EP toxicity
   ii. Toxicity Characteristic Leaching Procedure (TCLP)
   iii. Chemical analysis

d. **Industrial waste survey (IWS)**
   i. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
   ii. Number of IUs
   iii. Discharge flow
   iv. Standard Industrial Classification (SIC) code
   v. Wastewater flow
      1. Types and concentrations of pollutants in the discharge
      2. Products manufactured
   vi. Description of pretreatment facilities and operating practices
   vii. Annual pretreatment report
   viii. Schematic of sewer collection system
   ix. POTW monitoring data
      1. Discharge characterization data
      2. Spill prevention and control procedures
      3. Hazardous waste generation
   x. IU self-monitoring data
      1. Description of operations
      2. Flow measurements
      3. Discharge characterization data
      4. Notice of sludge loading
      5. Compliance schedule (if out of compliance)
   xi. Technically based local limits compliance reports
   xii. Waste hauler monitoring data manifests
   xiii. Evidence of POTW treatment interferences (i.e., biological process inhibition)