

## Attachment G— Generic Toxicity Reduction Evaluation (TRE) Workplan

### 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 (BOD<sub>5</sub>)
- (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 BOD 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 BOD 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 slug loading
    - (5) Compliance schedule (if out of compliance)
  - xi. Technically based local limits compliance reports
  - xii. Waste hauler monitoring data and manifests
  - xiii. Evidence of POTW treatment interferences (i.e., biological process inhibition)