Monitoring and Research Department Goals and Objectives for 2018

Goal – Establish baseline odor conditions for the Calumet WRP East and West Solids Drying Sites and Harlem Avenue, Lawndale Avenue, Vulcan and Marathon Solids Management Areas.

Objective
To identify and monitor locations within the biosolids processing areas that have high odors to establish baseline odor conditions for these areas.

Description
Environmental Monitoring and Research Division staff will visit the biosolids processing areas, become familiar with the biosolids production processes, identify locations with high odors, and conduct monitoring activities in the six processing areas.

Measurability
Baseline values will be established at identified locations for the following: Number of locations with high odors, H_2S concentrations, and olfactometry results.

Effect on Biosolids Production
Establishing baseline odors will help the District to better understand the odor condition at the processing areas and help determine further actions needed to reduce odors.

Relevant EMS Outcomes
Environmental performance, relations with interested parties, and quality biosolids management practices.

Action Plan
Baseline monitoring will be completed at various times throughout 2018. Odor data using a hand held Jerome meter and a Nasal Ranger olfactometer will be completed once a week. A minimum of three air samples will be collected from within each of the six biosolids processing areas for Olfactometry testing (dilution to threshold, D/T) by a third party laboratory. Continuous H_2S data will be collected for a minimum of two weeks at each biosolids processing area. A summary report will be completed by the end of 2018.

Tracking Progress
An Environmental Research Scientist will schedule all sample collection/analysis and monitoring, review/validate data, maintain monitoring database and a draft report.

Responsible Person(s)
Environmental Research Scientist.

Funds/Resources
Funds are budgeted for 2018.

Target Date
December 2018.