

# *2021 Annual Report*

## **Stormwater Management Program City of Ansonia, Connecticut**



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## Summary of requirements:

In 2004, the City of Ansonia had a five-year Phase II stormwater Management Plan designed as required by the Connecticut department of environmental Protection. The General permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems is comprised of six components to reach compliance to the departments standards. These are as follows:

- 1) Public education and outreach
- 2) Public involvement and participation
- 3) Illicit discharge detection and elimination
- 4) Construction of site stormwater runoff control
- 5) Post-construction stormwater management
- 6) Pollution prevention and well maintained operations

Along with the six components listed above, the City was required to perform tests on water samples taken from six different drainage outfall locations throughout the City. The selected locations must represent areas of industrial, commercial, and residential development required by the General Permit. The samples laboratory test results are included in Appendix A.

In 2017, the City of Ansonia prepared a new stormwater management plan by PRIME AE Group, Inc. This plan updated the previously approved 2004 plan.

The City is required by the General Permit to submit annual reports, which exhibit the progress in each of the six categories and outline future goals and objectives. Included is the 2020 calendar year report of the City's activities under the General Permit.

### 2021 Compliance

Throughout the 2020 year the city of Ansonia continued to work toward completing each of the six requirements stated in the Stormwater Management Plan. The goals that were reached in each category of the plan are discussed below. This program has been re-issued.

- 1. Public education and outreach:** In 2020 the Annual Report was available for public viewing at the public library. In addition to the report, information was published in the Household Hazardous Waste Program (HHW) flier and the Long Island Sound Study flier called "Step by Step": A Citizen's Guide to Curbing Polluted Runoff', which was made

accessible to the public at the public library as was as the City Hall. Development of educational fliers and literature for public viewing continues.

2. **Public involvement and participation:** To bring awareness and to promote involvement the stormwater management team met several times throughout the year to review the status of the regulations and ways to achieve goals for the year. The team consisted of the Head of Ansonia Public Works Department, Michael D'Alessio and other members are Mr. Fred D'Amico, Ansonia City Engineer, and the Director of the Ansonia Nature Center.
3. **Illicit discharge detection and elimination:** The city of Ansonia had retained Stearns and Wheler to compile a composite map of all Stormwater outfalls from the City's properties in 2004. This included only the 12inch diameter or greater outfalls. From 2005 to 2008 no outfalls were placed or removed. The map was updated in 2017 by Prime. The IDDE Plan is currently being written and should be complete in 2021. The detailed MS4 infrastructure mapping will be complete in 2022. Reference page 11 of the Stormwater Management Plan
4. **Construction site stormwater runoff control:** In compliance with the *Connecticut Guidelines for Soil erosion and Sediment Control (CTDEP 2002)* the City's land use commission requires all new construction to meet these regulations upon review of the plans and site inspections. This has brought awareness to the contractors and developers of the effects stormwater can have from the sites and the importance of installing adequate stormwater controls. As well as drainage calculations and the installation of stormwater retention systems when needed.
5. **Post-construction stormwater management in new developments and redevelopments:** For new developments the land use requirements state that a zero increase in net runoff be attained. To store additional volumes of runoff stormwater basins and structures are needed along with water quality structures such as below grade chambers, deeper catch basins sumps to reduce the sediments and debris that could potentially be harmful if they were not detained. To insure this is being followed, during Inland wetlands commission and Planning and Zoning commission reviews for all subdivisions and other proposed developments it is assured that best managements practices are utilized.
6. **Pollution prevention/good housekeeping for municipal operations:** The purchase of a street sweeper in 2005 and an addition street sweeper was purchased in 2007. A new Street sweeper was purchased in 2015. Combined they collected an estimated 3300 cubic yards of debris during 2020. Also to reduce the amount of debris on the roadways the City has

switched from the use of sand, to salt as per the DEEP recommendations that salt causes less contamination than sand, which keep the roadways clear from snow and ice.

7. **Stormwater monitoring:** Laboratory tests are performed on samples from six different locations in the City as per the General Permit. The test checks the samples for contaminants from a specific parameter provided by the General Permit and these are:
  - 1) pH (SU)
  - 2) Hardness (mg/1)
  - 3) Conductivity (Umos)
  - 4) Oil and grease (mg/1)
  - 5) Chemical oxygen demand (mg/1)
  - 6) Turbidity (NTU)
  - 7) Total suspended Solids (mg/1)
  - 8) Total phosphorus (mg/1)
  - 9) Ammonia (mg/1)
  - 10) Total Kjeldahl Nitrogen (mg/1)
  - 11) Nitrate plus Nitrite Nitrogen (mg/1)
  - 12) E. coli (col/100ml)

### Intended implementation for 2021

The City of Ansonia has the following tasks planned for 2021.

- 1) **Public education and outreach:** Copies of the 2021 annual report will be located at the public library for the public's viewing.
- 2) **Public involvement/participation:** The City will review the written participation plan. Semi-annual Stormwater Team meetings will be held. Tentative dates for these meetings are May and September 2021. Additional stormwater members will try to be added.
- 3) **Illicit discharge detection and elimination:** The drainage outfall map will be edited to include any new discharges that have been installed and/or discovered. The annual stormwater monitoring results will be evaluated to decide if further action is required. The City has not had any illicit discharge, detection or elimination programs in the past, but if necessary will have inspections of drainage systems if evidence of any illicit discharge is discovered during 2021.
- 4) **Construction site stormwater runoff control:** The City will continue to review its land use regulations to keep current with the requirements of the Stormwater Management Plan and the *Connecticut Guidelines for Soil*

*Erosion and Sediment Control.* The City will also continue to evaluate the Current Connecticut Stormwater Quality Manual to see if the city will include additional portions of it in the land use regulations.

- 5) **Post-construction stormwater management in new development and redevelopment:** When the City and/or land use commission review plans for new or redevelopment they will monitor the contractors and developers compliance to make sure they remain consistent with requirements of the Stormwater Management Plan.
- 6) **Pollution prevention/good housekeeping for municipal operations:** All new City employee training will include stormwater items. Public streets will continue to be swept twice a year, and catch basins will be cleaned as required. In areas of development catch basins and street sweeping will be done more frequently to keep the roads clear of any possible debris.
- 7) **Stormwater Monitoring:** All wet weather monitoring is to be completed by June 30, 2021. This included all MS4 outfalls to the Naugatuck River tested for bacteria and all MS4 outfalls to the Two Mile Brook tested for turbidity.