

ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM



City of Winston-Salem
**Stormwater &
Erosion Control**

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- Stormwater System Inventory
- Illicit Discharge Detection
- Tracking Discharges To A Source
- Enforcement



CITY OF WINSTON-SALEM STORMWATER INVENTORY MAPPING

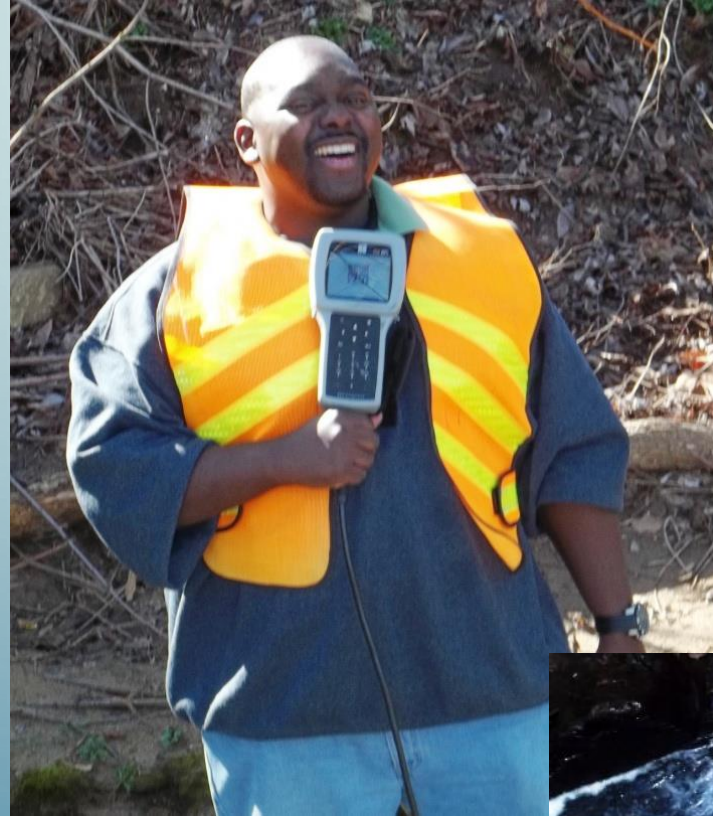


STREAM WALKING



WATER QUALITY INDEX (WQI)

- Sanitary Sewer Overflow Detection
- Approximately 35 sites are sampled quarterly
- YSI Meter probe is used to test at the sampling site
- CHEMetrics Kits (Ammonia and Nitrate) are used to take water samples.



REPORT-A-POLLUTER HOTLINE

- Anyone can call CityLink 311 or 336-727-8000 to report suspected spills or dumping into storm drains, ditches or waterways
- CityLink takes illicit discharge related calls 24 hours a day and submits them to Stormwater Division Staff for follow up and investigation



EMPLOYEE TRAINING

- City Employees are trained to identify and report illicit discharges as part of our Good Housekeeping and Pollution Prevention Programs.
- Each City Employee receives a Stormwater Runoff Handbook as part of their training.
- For the 2017-2018 Fiscal Year, a total of 657 City Employees were trained.

STORMWATER RUNOFF

Municipal Good Housekeeping and Pollution Prevention



TRACKING ILLICIT DISCHARGES



ENFORCEMENT OF ILLICIT DISCHARGE

VERSION: **MAR 4, 2019 (CURRENT)** ▾

➤ Chapter 62 - SANITATION

➤ Chapter 66 - SEWERS AND SEWAGE DISPOSAL

➤ Chapter 70 - SIGNS

➤ Chapter 74 - STREETS AND SIDEWALKS

▾ Chapter 75 - STORMWATER MANAGEMENT

➤ **ARTICLE I. - ILLICIT STORMWATER DISCHARGES AND CONNECTIONS**

➤ ARTICLE II. - STORM DRAINAGE IMPROVEMENTS

➤ ARTICLE III. - STORMWATER MANAGEMENT UTILITY

➤ ARTICLE IV. - POST CONSTRUCTION STORMWATER

➤ Chapter 78 - VEHICLES FOR HIRE

➤ Chapter 79 - SMALL WIRELESS FACILITIES

Chapter 75 - STORMWATER MANAGEMENT



ARTICLE I. - ILLICIT STORMWATER DISCHARGES AND CONNECTIONS



Sec. 75-1. - Purpose/intent.



The purpose of this article is to provide for the health, safety, and general welfare of the citizens of Winston-Salem by controlling the introduction of pollutants into the Municipal Separate Storm Sewer System (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this article are:

- (1) To enforce the city's stormwater quality management program;
- (2) To reduce or prevent pollutants in the MS4 to the maximum extent practicable;
- (3) To prohibit illicit connections and discharges to the MS4;
- (4) To prevent improper disposal of materials that degrade water quality; and
- (5) To authorize all inspections, surveillance and monitoring procedures necessary to ensure compliance with this article.

(Ord. No. 4536, § 1, 10-24-05)

IDDE EXAMPLE #1 – INITIAL COMPLAINT

Stormwater division received report of laundry machine wash water coming out of a storm drain pipe into a ditch line



IDDE EXAMPLE #1 - TRACKING



IDDE EXAMPLE #1 – NOTICE OF VIOLATION



**Stormwater/Erosion
Control Department**

City of Winston-Salem
P.O. Box 2511
Winston-Salem, NC 27102
City Link 311 (336.727.8000)
Fax 336.748.3173
www.stormwatersmart.com

April 11, 2019

Mr. John Doe
123 Property Owner Drive
Winston-Salem, NC 27127

RE: NOTICE OF VIOLATION

Illicit discharge of washing machine water and utility sink water to the storm drain at 123 Laundry Lane.

Dear Mr. Doe:

This letter will serve as a Notice of Violation (NOV) of the illicit discharge of washing machine water and utility sink water at 123 Laundry Lane, Winston-Salem, NC 27105. City Ordinance Section 75-6(a)(1) states, "It shall be unlawful for any person to allow, directly or indirectly, anything other than stormwater, whether solid, liquid, or vegetative, to be discharged, deposited, or placed in such a location that may reach, or be blown or scattered into the municipal separate storm sewer system (MS4) ...". The MS4 is defined as all storm drain systems, watercourses, and water of the State within the City limits and any of the City's extra territorial jurisdictions. All discharges to the stormwater drainage system must be monitored and controlled in order to eliminate pollution sources from entering the waters of the State.

IDDE EXAMPLE #1 - RESOLUTION



IDDE EXAMPLE #2 – INITIAL COMPLAINT AND NOV

- Stormwater staff received an odor complaint related to the property and followed up for investigation.
- Stormwater staff found: pressure washing of the bay areas, a leaking dumpster, leaking onsite vehicle maintenance, floor drains connected to the storm drain system and leaking fluids from transfer trucks
- NOV was issued and action items were included to address all of the above violations



IDDE EXAMPLE #2 – FOLLOW UP



IDDE EXAMPLE #2 – CIVIL PENALTY AND SECOND NOV

- Civil penalty for the first NOV was levied and a hearing was scheduled
- Because repeat illicit discharges were discovered during unannounced inspections, a second NOV was issued



IDDE EXAMPLE #2 - RESOLUTION

- An appeal hearing was convened to discuss the violations and civil penalty
- Following the appeal hearing, a settlement was reached and the civil penalty was reduced
- Ultimately, the owner went out of business and the facility was shut down



QUESTIONS?