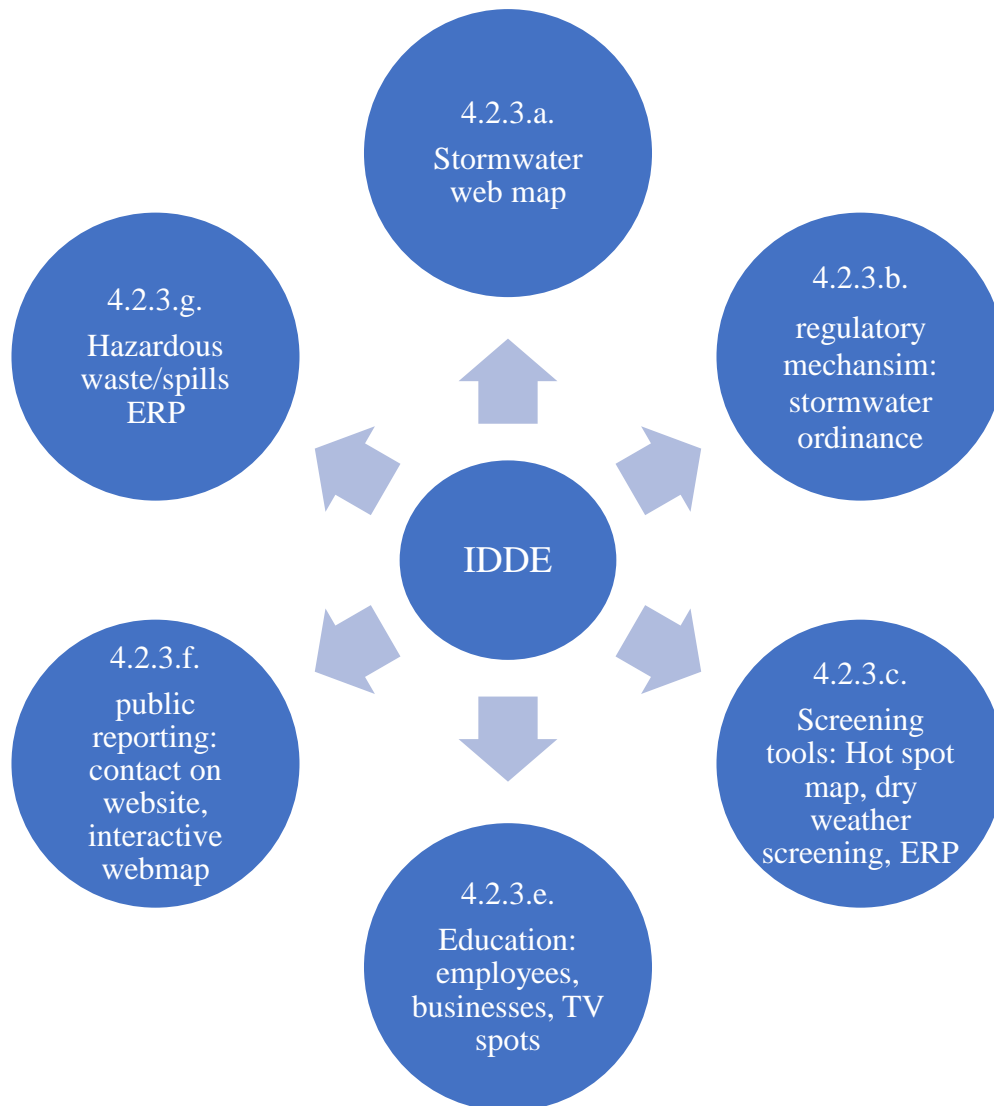


4.2.3. Illicit Discharge Detection Elimination (IDDE) Overview:

The City of Murfreesboro has a program in place to detect and eliminate illicit discharges through mapping, screening, tracking and enforcement/education. The following briefly describes the program. Accompanying procedures/forms are found in SWMP.



a. Storm sewer map:

- **Stormwater infrastructure features:** GPS located and inventoried in geodatabases and web map services.

- **Using mapping to screen and locate suspected illicit discharges:** pipes and inlets share ID's with associated outfalls, outfalls share identifier with stream segments, pipe symbolized to show flow direction, outfall catchments delineated.
- **Product Availability:** web maps for public, web map services for employees, screening apps for WQ team.

b. Regulatory mechanism:

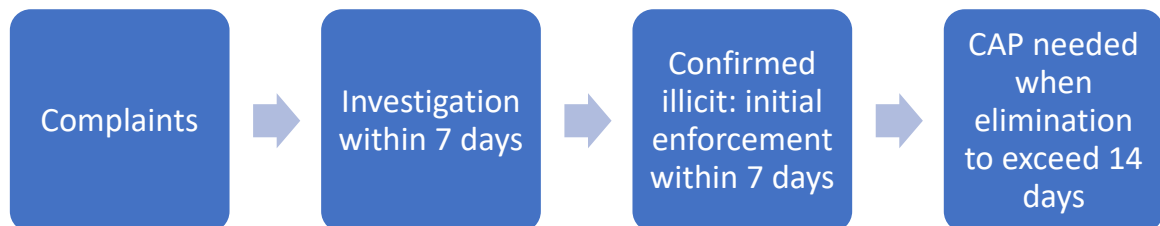
- **Stormwater Ordinance - Murfreesboro City Code, Chapter 27 ½ :** illicit discharged defined in 27 ½ -2, explained in 27 ½ -13, means to enforce in 27 1/2 -14

c. Illicit discharge screening, detection, and enforcement program:

Dry weather screening activities must be done after 48 hours with no measurable precipitation

Type of detection	Description	Frequency/schedule
Dry Weather Outfalls Screening	Float or walk to outfalls using outfall layer in mobile map. Note condition and photo in GIS.	Rotate streams annually/Aug.- Oct.
Hot spot	Use city's hot spot map to screen drainage system in areas most likely to produce illicit discharges.	Annual/Aug. – Oct.
Grid Method	Certain inlets throughout the draianage system assigned flags. Random flagged inlets screened.	Annual/Aug.- Oct.
Complaint	Staff investigates source.	Investigation within 7 days

- **GIS Database:** All illicit discharge investigations are stored in a simple GIS point feature class for statistical analysis, including hot spot polygons.
- **Stormwater project files and searchable access database:** most all illicit discharge investigations are entered into the stormwater access database. Investigations resulting in photos, forms, enforcement, etc.. are stored in an individual, physical file.
- **Elimination Enforcement Response Plan (ERP):**



d. City defines illicit discharge and exceptions: 27 ½ -13

- Groundwater discharges that are a result of development (e.g.: elevator shafts, footing sump pumps, encapsulated springs) are permissible if they can be demonstrated to be uncontaminated. However, these discharges are subject to screening to ensure pollution prevention.
- MWRD maintains database of groundwater discharges to drainage system called “IDDE groundwater discharges.”

e. Educational and training programs for illicit discharges and hazardous waste:

- See also PIE plan and pollution prevention/good housekeeping plans.
- Audiences: public employees, businesses, general public (tracked individually).
- Watershed/hot spot-based education (ex. letters, door hangers, brochures to auto businesses in Town Creek watershed due to poor businesses practices in regards to dumpsters, grease bins, etc..)
- YouTube videos about illicit discharges.
- “Only rain down the drain”... branding/ TNSA materials.
- MOU with MTSU to provide various types of outreach on illicit discharges.

f. Public reporting programs:

- Report on City of Murfreesboro website.
- Citizen reporting mapping
- Citizen screening initiatives:
 - Greenway bike brigade (outfall screening web map for greenway bike riders: many outfalls are viewable from greenway, groups can get service hours for screening outfalls, outfall stakeholders to screen).

g. Hazardous spill response: ERP details hazardous spill response.

