

#### The 2020 Decennial Census and the Texas Phase II Municipal Separate Storm Sewer System (MS4) Program

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October 19, 2023

# The U.S. Census Bureau and Phase II Stormwater Regulations *How are they related?*

To be a regulated Municipal Separate Storm Sewer System (MS4) under TCEQ's current 2019 Phase II Small MS4 General Permit (TXR040000) you must:

- 1. Operate an MS4 which is:
  - a. Publicly Owned or Operated;
  - b. Designed or used for collecting or conveying stormwater;
  - c. Not a combined sewer; and
  - d. Not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2
- 2. Be fully or partially located within an *urbanized area (UA),* as determined in the 2000 or 2010 Decennial Censuses by the U.S. Census Bureau





#### **Terminology in the 2000 & 2010 Decennial Censuses**

- Although the full urban area definition is complex, the Census Bureau's general definition of an urban area is based on **population** and **population density**.
- The Census Bureau delineated these densely populated urban areas into two categories:
  - "Urbanized Areas (UAs)" of 50,000 or more people;
  - "Urban Clusters (UCs)" of at least 2,500 and less than 50,000 people.



U.S. Census (2010). 2010 Census – Urbanized Area Reference Map: Brownsville, TX. https://www2.census.gov/geo/maps/dc10map/UAUC\_Ref Map/ua/ua10972\_brownsville\_tx/DC10UA10972.pdf



### **Terminology Changes in the 2020 Decennial Census**

As of March 24, 2022, the Census Bureau stopped distinguishing urbanized areas and urban clusters and **only identified urban areas**.

In response, EPA published a final rule on June 12, 2023, which replaced the term "urbanized area" in Federal Phase II MS4 regulations with "**urban areas with a population of at least 50,000**"

• This change requires permitting authorities to use 2020 Census and future census data consistent with existing longstanding regulatory practice.

The Census Bureau <u>will no longer</u> publish PDF maps of each area like in the past. Instead, they have published the following resources:

- Shape files of the urban areas across the nation for mapping purposes
  - <u>https://www.census.gov/programs-</u> surveys/geography/guidance/geo-areas/urban-rural.html
- Interactive web map with the 2020 urban areas TIGERweb
  - <u>https://tigerweb.geo.census.gov/tigerweb/</u>



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#### **Terminology Changes in the Federal Phase II MS4 Rules**

As of July 12, 2023, the Federal Phase II MS4 Regulations are revised to remove references to "urbanized areas" and instead include the "urban area with a population of 50,000 or more people" phrasing

#### Below is an example of how part of the federal rule language was revised:

- § 122.28 General permits (applicable to State NPDES programs, see § 123.25).
  - (a) *Coverage.* The Director may issue a general permit in accordance with the following:
    - (1) Area. The general permit shall be written to cover one or more categories or subcategories of discharges or sludge use or disposal practices or facilities described in the permit under <u>paragraph (a)(2)(ii)</u> of this section, except those covered by individual permits, within a geographic area. The area should correspond to existing geographic or political boundaries such as:

(i) Designated planning areas under sections 208 and 303 of CWA;

(ii) Sewer districts or sewer authorities;

(iii) City, county, or State political boundaries;

(iv) State highway systems;

(v) Standard metropolitan statistical areas as defined by the Office of Management and Budget;

(vi) <del>Urbanized areas as designated by the <u>Urban areas with a population of 50,000 or more people as determined by the</u> <u>latest Decennial Census by the Bureau of the Census <del>according to criteria in 30 FR 15202 (May 1, 1974);</del> or</del></u>

(vii) Any other appropriate division or combination of boundaries





#### Implications for the 2024 Renewal of the TXR040000 General Permit Urban areas with a population of at least 50,000 – New term, same intent

From 2007-2019, the criteria for being regulated under the general permit was:

1.Operate a small MS4

2.Be fully or partially located within a UA, as determined by the 2000 or 2010 Decennial Censuses The 2024 proposed general permit has been updated. The criteria is now:

1.Operate a small MS4

2.Be fully or partially located within an <u>urban area with a</u> <u>population of at least 50,000</u> <u>people</u> as determined by the 2000, 2010, or 2020 Decennial Censuses



#### **2020 Decennial Census and the Regulated MS4 Universe**

- As the urban areas with a population of 50,000 or more develop and expand, the amount of small MS4s regulated by TCEQ and subject to the requirements of the general permit will grow as well
  - Estimated to regulate upwards of 200 new entities
- TCEQ is currently identifying newly regulated small MS4 operators
  - Will send notification letters to each identified operator
- The Census changes will not de-regulate any existing small MS4 operators
  - Once regulated, Always regulated
- The proposed permit was also revised to clarify that the small MS4 level criteria is based on 2020 Decennial Census data



Level 4 • Population of 100,000 or more



#### **2020 Decennial Census** *Example using U.S. Census Bureau Resources*

Urban Area Name	<b>Urban Area Population</b>
San Antonio	1,992,689
New Braunfels	100,736
Boerne	18,320
San Marcos	70,801
Floresville	6,313

- *"Urban Area with a population of 50,000 or more people"* 
  - Refers to the population of the urban area
  - Does not refer to the individual municipalities within the urban area





#### **Simplified Urban Area Illustration:**







#### **Example 1: Population Growth & Expansion of Urban Area**

- **Q**: The City of Smalltown, TX has been regulated under this general permit since 2007.
- The urban area has grown considerably from the 2010 to 2020 Census and now the whole city is located within an "urban area with a population of at least 50,000".
- The population of the city itself has increased from 32,000 to 41,000 residents.
- What must be done?



- A: Where the urban area has expanded to include additional areas of the city, an MS4 operator will now need to:
  - include these areas in their Stormwater Management Program and
  - implement their program throughout this new area.
- Due to the increase in the city's population, it is now regulated as a Level 3 MS4 and has some additional permit requirements.



## **Example 2: Population Loss & Urban Area Shrinking**

- Q: Due to some unforeseen circumstance the City of Happy, TX experienced a major population loss.
- It is no longer located in an "urban area with a population of at least 50,000" under the 2020 Census.
- Do they still need permit coverage?



- A: Yes, under the federal Phase II MS4 rules, once an operator is regulated, it will always be required to maintain coverage.
- Regulated area will be based on previous Decennial Censuses.
- Changes in the population based on the 2020 Census may change the applicable MS4 level under the general permit.



## Resources



- Shape files of the urban areas across the nation for mapping purposes
  - <u>https://www.census.gov/programs-</u> <u>surveys/geography/guidance/geo-areas/urban-</u> <u>rural.html</u>
- Interactive web map with the 2020 urban areas TIGERweb
  - https://tigerweb.geo.census.gov/tigerweb/
- Final NPDES Small MS4 Urbanized Area Clarification Rule
  - <u>https://www.govinfo.gov/content/pkg/FR-2023-06-</u> <u>12/pdf/2023-12494.pdf</u>
- 2020 Census and Urban Areas, new TCEQ webpage:
  - <u>https://www.tceq.texas.gov/permitting/stormwater/ms4/u</u>
    <u>rbanareas</u>
- Urban Area Factsheet prepared by EPA
  - <u>https://www.epa.gov/system/files/documents/2023-</u> 09/EPA-Stormwater-Phase-II-Final-Rule-Factsheet-2.2-Urban-Area.pdf



#### **TXR040000 Renewal Timeline**



https://www.tceq.texas.gov/permitting/stormwater/ms4



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## Questions?

#### Thank you for coming to the 2023 Water Quality/Stormwater Seminar!