Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
Wastewater Outfalls

1.2. Summary description of the data:
This database shows the location of publicly owned treatment works, and other significant point source discharges to surface waters at or near the contiguous U.S. coastline. Three types of features are provided in this database; facility location, outfall pipes, and the outfall discharge point. Outfall pipes and discharge points may not be present for some facilities due to a lack of source data. A facility can be linked to its outfall pipe, discharge point and other National Pollution Discharge Elimination System records using the provided key field.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
One-time data collection

1.4. Actual or planned temporal coverage of the data:
2022

1.5. Actual or planned geographic coverage of the data:
W: -177, E: 173.25, N: 72, S: -14.5

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Map (digital)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:
2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:

2.2. Title: Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:

2.5. Phone number:

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

3.2. Title: Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"): 

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Process Steps:

- Subject matter experts from the NOAA National Centers for Coastal Ocean Science, and the NOAA Office for Coastal Management conducted two pilot studies to
evaluate data sources and to inform the design of the proposed data product. These pilots were shared with peers to elicit input on the final data product design.

- Outfall Pipes: All data source that could contain a pipeline feature were reviewed, pipeline feature were aggregated, cleaned and flagged with a unique identifier (PGM_SYS_ID) of the coincident facility. Pipeline positions were verified when visible in orthoimagery. Visually verifiable features were retained and superseded any record originating from the ENC and RNC sources. Any ENC or RNC feature that exhibited a break, edge of data offset, or duplicate was edited manually in ArcGIS to repair or remove the error.

- 2021-01-01 00:00:00 - Facilities: Through visual inspection, facilities were removed from the source data if they were outside of the vicinity of the coast and the immediate navigable waterways. Duplicate facility records were removed. Facilities that could not be defined as Publicly Owned Treatment Works, or as another significant contributor were removed. Facility locations were adjusted when their location was clearly in error.

- Outfall: For each facility an attempt was made to identify the primary outfall location if it discharged into surface waters. Source data for an outfall location included examples such as; EPA FRS records, permits, NOAA RNC, and the end of an outfall pipeline. Generally only one outfall was mapped per facility. Each outfall point feature was flagged with an identifier (PGM_SYS_ID) that links it to the relevant facility and pipe.

- Quality control testing for completeness, accuracy, and representativeness was conducted by personnel not directly involved in the hands-on development and editing of the data.

- 2022-08-08 00:00:00 - An update was made to the MWRA outfall pipe location and the MWRA outfall location with the EPA FRS Registry Identifier = 110025247720. The source of the update was Raster Nautical Chart 13270, Edition 66, 2018-12-01, compiled at a scale ratio of 1 to 25,000. This supersedes the previous record which was sourced from Raster Nautical Chart 13267, Edition 37, 2019-09-01, compiled at a scale ratio of 1 to 80,000.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?
6.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:
- 1.7. Data collection method(s)
- 2.1. Point of Contact Name
- 2.4. Point of Contact Email
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
  - 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.2. Name of organization of facility providing data access
  - 7.2.1. If data hosting service is needed, please indicate
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.2. Data storage facility prior to being sent to an archive facility
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

https://www.fisheries.noaa.gov/inport/item/66706

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides...
information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:
   https://marinecadastre.gov/data/
   https://marinecadastre.gov/downloads/data/mc/WastewaterOutfall.zip

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection
The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:
(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):
   North Charleston, SC
8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive? 
Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions
Line and Staff Offices may extend this template by inserting additional questions in this section.