

2023-2024 MS4 Annual Report

REPORTING PERIOD 7/1/2023 – 6/30/2024

***CT DEEP National Pollutant Discharge Elimination System Permit for
the Discharge of Stormwater from Municipal Separate Storm Sewer
Systems (MS4)***

NPDES Permit #CT0030279

for

*City of Stamford
888 Washington Boulevard
Stamford, CT 06901*



Prepared By:

**Barton
& Loguidice**

855 Winding Brook Drive
Glastonbury, CT 06033
T: 860.633.8770
bartonandloguidice.com

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1.0 INTRODUCTION

1.1 Introduction & Overview

The City of Stamford (the City) was issued its current NPDES Permit (No. CT0030279) for discharge of stormwater from its municipal separate storm sewer system (MS4) on June 4, 2013. Renewal for this permit was submitted to Connecticut Department of Energy and Environmental Protection (CTDEEP) on August 6, 2021. This permit requires many actions to reduce pollution from stormwater runoff.

This Annual Report (Report) covers the period from **July 1, 2023**, through **June 30, 2024** (Reporting Period). It summarizes the activities conducted and measures taken to comply with the previous and current NPDES Permit during this Reporting Period. This Annual Report was prepared in accordance with the terms and conditions of the NPDES Permit, as well as the Stormwater Management Plan, City of Stamford, Stamford, Connecticut, issued September 2, 2014 and revised August 2020 (the SMP).

The 2022-2023 MS4 final Annual Report was submitted to CTDEEP on January 31, 2024.

On January 2, 2016, the City submitted an application for modification of its NPDES Permit. The City, in conjunction with CTDEEP, completed many efforts to work through the requested permit modification items during the 2016-17 fiscal year. Many meetings, phone calls, emails, and letters related to the process were conducted over a period of two years to complete the permit modification process. CTDEEP worked with the City and the Environmental Protection Agency (EPA) in efforts to complete the process. An NPDES Permit Modification for the City of Stamford was issued by CTDEEP on August 14, 2017.

On February 6, 2018, the City submitted a permit renewal application for the newly modified NPDES Permit, which was set to expire on June 3, 2018. The City received minimal comments from CTDEEP's review of the application and has since submitted all of the requested information. The new permit is pending renewal from CTDEEP.

Notice of Sufficiency from CTDEEP was received on July 9, 2019. The letter indicates the application is in technical review and permit # CT 0030279, which expired on June 3, 2018 will continue to be effective until the commissioner disposes of the renewal application. The Stormwater Management Department (SMD) operated under this direction for the entirety of the 2023-2024 reporting year.

1.2 SWMP Development Team

| Table 1.1 SWMP DEVELOPMENT TEAM | | |
|---------------------------------|--|--|
| Name | Organization & Title | Address & Phone |
| Thomas Turk | City of Stamford, Road Maintenance Division Manager | 90 Magee Ave, Stamford, CT 06902 (203) 977-5919 |
| Tyler Theder | City of Stamford, Stormwater Management Department Regulatory Compliance and Administrative Officer | 90 Magee Ave, Stamford, CT 06902 (203) 977-5281 |
| Matthew Quinones | City of Stamford, Office of Operations Director of Operations | 888 Washington Blvd, Stamford, CT 06901 (203) 977-4141 |
| Ralph Blessing | City of Stamford Land Use Bureau Chief | 888 Washington Blvd, Stamford, CT 06901 (203) 977-4714 |
| Daniel J. Trapp | City of Stamford, Land Use Bureau (Acting) Zoning Enforcement Officer | 888 Washington Blvd, Stamford, CT 06901 (203) 977-4717 |
| Louis Casolo | City of Stamford, Engineering City Engineer | 888 Washington Blvd, Stamford, CT 06901 (203) 977-5796 |
| Robert Clausi | City of Stamford, Environmental Protection Board Executive Director | 888 Washington Blvd 5th floor, Stamford, CT 06901 (203) 977-1541 |
| Cindy Barber | City of Stamford, Land Use Bureau - Information Technology | 888 Washington Blvd, Stamford, CT 06901 (203) 977-5360 |
| Jeff Bogoian | Barton and Loguidice Project Manager | 855 Winding Brook Dr, Glastonbury, CT 06033 (860) 633-8770 |
| Michael Estremera | City of Stamford, Stormwater Management Department Environmental Enforcement Officer | 90 Magee Avenue Stamford, CT 06902 (203) 977-0826 |
| Danielle Petretta | City of Stamford, Environmental Sustainability Coordinator | 888 Washington Boulevard Stamford, CT 06902 (203) 977-2815 |

2.0 PROGRAM EVALUATION

2.1 Stormwater Management Plan (SMP) Objectives

The City of Stamford (the City) was issued an NPDES Permit for discharge of stormwater from its municipal separate storm sewer system (MS4) on June 4, 2013. This permit was renewed in February 2018. The new modified permit renewal is pending approval from CTDEEP. The City developed and is implementing a Stormwater Management Plan (SMP) based on the requirements of the NPDES Permit.

The SMP provides the framework for compliance with the terms and conditions of the NPDES Permit with the overall objective of improving the quality of stormwater runoff and protecting the surface waters of the State. The SMP seeks to achieve this objective through:

- Establishment of a Pollution Prevention Team
- Development of Stormwater Mapping
- Establishment and Implementation of Control Measures, including:
 - Public Education and Involvement
 - Source Controls for Pollution Prevention
 - Future Land Disturbance and Development Management
 - Infrastructure Operations and Maintenance
- Establishment and Implementation of an Illicit Discharge Detection and Elimination (IDDE) Program
- Establishment and Implementation of a Water Quality Monitoring Program
- Establishment and Implementation of Legal Authority to Control Discharges
- Establishment and Implementation of Procedures to Coordinate Stormwater Activities between various Departments and Agencies
- Maintaining Consistency with Other Plans and Permits

In 2022, the Stormwater Management Department (SMD) worked with Fuss & O'Neill to update the Stormwater Management Plan (SMP). A draft version of the document was produced, but there were a few remaining coordination items remaining and the 2022 version of the SMP has not been made available to the public on the City of Stamford Stormwater Management Department website. The City anticipates completing this and making it available during the 2024-2025 reporting year.

Additional details on each of these of these methods to achieve the objectives of the SMP are presented in the Summary Table of SMP Components (Section 3.0) and the Narrative Report (Section 4.0).

2.2 Major Findings

The objective of the SMP is to improve stormwater runoff quality and protect the surface waters of

the State. This discussion of major findings should provide an overall evaluation as to whether stormwater and surface water quality in the City and from the City's MS4 is improving or degrading in the City.

The major findings during this Reporting Period of the modified NPDES Permit are the steps that the City has taken to implement the permit requirements, including but not limited to:

- Continued development of an understanding of the permit requirements and the resources necessary to achieve compliance.
- Continued allocation of additional resources (personnel, equipment, and budget) to/within the Road Maintenance Division to specifically address stormwater management and stormwater runoff quality improvement issues.
- Continued coordination of the Stormwater Pollution Prevention Team with City Departments for stormwater-related issues
- Implementation of the SMP and associated public outreach activities.
- Continuation of city-wide geographic information system (GIS) mapping related to stormwater infrastructure and management.
- Continued development of legal authority and zoning regulations to address stormwater discharges and quality.
- Continued coordination of public outreach with local environmental and business groups.
- Continued coordination with consultants to assist in the implementation of the SMP and to perform surface water, stormwater, and outfall monitoring.

2.3 EPA Review of the Status of the NPDES Permit

Representatives from the US Environmental Protection Agency (EPA) and CTDEEP visited with members of the City's Stormwater Pollution Prevention Team on June 15 and 16, 2015 to conduct a compliance audit of the City's NPDES Permit. The compliance audit included a "five-year look-back" period. After the compliance audit, the EPA indicated that several areas of the permit needed improvement, which are outlined in Section 2.3.1 of the 2014 & 2015 Annual Report.

The EPA issued an Administrative Order and Request for Information, regarding the compliance audit, to the City of Stamford on October 1, 2015. The City of Stamford has been working with the EPA of this Reporting Period to address items identified during the compliance audit.

Per the request of CTDEEP, on September 17, 2018, the City of Stamford provided CTDEEP with a 52-page document discussing the status of the findings of the EPA's Violation and Order for Compliance – Docket No. CWA-01-AO-15-012, September 30, 2015.

2.4 Future Direction of the SMP

The SMP will continue to be evaluated in greater detail as part of the 2024-25 Reporting Period.

A component of that evaluation will be a review of goals, schedules, and procedures referenced in the SMP as “to be established” and a detailed analysis of the status of these items.

The City considers the SMP to be a dynamic document and will continue to work towards updating and revising it as conditions and regulations change in an effort to maximize its ability to be utilized as a tool to manage and improve stormwater runoff quality.

The City will continue to focus more of its resources in the coming years to achieving compliance with the SMP, particularly in the areas of:

- Public education and involvement
- Stormwater mapping
- Illicit discharge detection and elimination
- Control measures
- Infrastructure operations and maintenance
- Legal authority and regulatory changes
- Water quality monitoring

Specific goals or requirements are discussed in the Narrative Report, Section 4.0, of this Annual Report. The Team Coordinator and Regulatory Compliance and Administrative Officer will continue to be responsible for closely tracking individual activities and events in each of these areas.

2.5 NPDES Permit Modification SMP Updates

On August 14, 2017, a permit modification was issued for the City’s NPDES Permit. During the 2017- 18 Reporting Period, the City reviewed the permit modification for any new requirements. During the 2019-20 Reporting Period, the City received a draft revised SMP from Fuss & O’Neill that was finalized in August 2020.

3.0 SUMMARY TABLE OF SMP COMPONENTS

A summary table of SMP components was not completed for this Reporting Period. Appendix B is intentionally left blank.

4.0 NARRATIVE REPORT

4.1 Pollution Prevention Team

The Pollution Prevention Team (Team), Section 1.2, was established to implement the SMP, to keep it up to date as conditions and/or regulations change, to maintain the control measures to improve stormwater quality, and to take corrective actions, as necessary. With the issuance of

the new NPDES Permit in 2013, the City decided to transfer the majority of the responsibility for compliance with the permit from the SWPCA to the Traffic and Road Maintenance Division. Responsibility for Traffic functions within this department has since been shifted to the newly created Traffic, Transportation, and Planning Department, as of approximately 2017.

The Team that has been established under the current SMP (see Appendix B of the SMP and Section 1 of this report) consists of personnel from many City departments whose operations may affect the current and future stormwater quality. Team members supply the City with a wide range of experience and expertise in managing and controlling stormwater runoff quality.

Since 2013, the Team has continued improving their understanding of the new NPDES Permit requirements, communicating these requirements amongst themselves, establishing areas of responsibility and cooperation, brainstorming on public education and control measure ideas, and working with the appropriate legal counsel to establish legal authority and new regulations.

The Team's activities are coordinated by the Road Maintenance Division Manager. Many of the day-to-day stormwater permit compliance activities are managed by the Regulatory Compliance and Administrative Officer; this position was created in early 2014 specifically due to the issuance of the current NPDES Permit.

As of 2014, the City created and filled five positions under the direction of the Regulatory Compliance and Administrative Officer. During the 2023-24 Reporting Period, staff in the stormwater management department consisted of nine Heavy Equipment Operators and one Environmental Enforcement Officer. Additional information regarding this is available on the city's OPM budget page. See Appendix N for reference.

It is anticipated that the Team will continue these activities during the next year of the discharge permit as well as develop and coordinate additional specific goals with the objective of improving the overall quality of stormwater runoff in the City of Stamford.

4.2 Mapping

The City maintains a strong GIS department that can coordinate city-specific, as well as environmental data, available from the DEEP and other sources. Information that has been mapped includes city roadways, city properties, aerial photography, topography, zoning maps, surface water bodies, watershed areas, surface water quality classifications, impaired waters, mapped inland wetlands, mapped tidal wetlands, and the coastal boundary.

The City continues to update and reuse mapping for sanitary sewer lines, stormwater lines, and stormwater outfalls. Mapping efforts continue city wide and occur frequently as new structures are located or built. Initially, 154 stormwater outfalls were mapped. Several of the initially mapped outfall locations were determined to be inaccurate and 90 MS4 outfalls have

been confirmed/identified/mapped. Two of the previous 92 MS4 outfalls were eliminated from the list, outfalls number SON-0021 and SON-0060. These outfalls were removed from the monitoring list because one was identified as the SWPCA's Facility discharge location, and the other was a structure inlet.

The City continued to identify and map new MS4 outfalls in the City throughout the Reporting Period. As of October 2024, the City has mapped 985 outfalls. Efforts were completed to canvas the entire City for identifying outfalls and approximately 96% of the City has been mapped. The City understands that there is continual maintenance being conducted on the stormwater system throughout the city and that the outfall mapping will require constant updating. Current updated outfall mapping is provided in Appendix C.

The City continues to confirm the accuracy of outfall locations and whether they are part of the City's MS4 stormwater system or another entity's responsibility. See Section 4.5 and Section 4.4.2 for additional details on the IDDE program and the wet weather monitoring program. A new Interconnected MS4 plan was prepared in June 2016 and is further discussed in Section 4.3.5.10.

This component of the SMP is to be expanded to include the following GIS mapping:

- Storm line material and size data
- Responsibility, if part of another MS4 stormwater system (such as DOT's)
- Completed and proposed cleaning and repair activities
- Outfall discharge monitoring data
- IDDE screening and investigation results
- Proposed IDDE investigations
- Completed and proposed capital projects.
- Connections to any other public or private storm drainage systems
- Drainage areas for each MS4 outfall
- Areas served by on-site subsurface disposal areas.
- Storm drains that do or may receive discharges from underdrain systems.

4.3 Control Measures

4.3.1 Public Education and Involvement

City residents can contribute to pollution transported via stormwater by misapplying lawn pesticides, herbicides and fertilizers, littering, dumping pollutants into storm drains, failing to dispose of pet waste properly, and other actions which can be detrimental to the quality of stormwater discharging into water bodies. Many people are unaware that they are polluting when engaged in these activities. Therefore, public education and outreach and public involvement and participation will help minimize the amount of pollution contributed to the City's water bodies by residents. Also, public education and outreach coupled with public involvement and participation allows city residents to have a voice regarding stormwater.

During this Reporting Period, the following public education and involvement activities have been completed:

- The City has continued to maintain and update the stormwater section that was previously added to the City of Stamford's website at <http://www.stamfordct.gov/stormwater-management>. The website had over 1,000 views during the Reporting Period. The website provides basic information about stormwater as well as key contacts within the City of Stamford. Additionally, it provides links to:
 - The NPDES Permit
 - The SMP (Revised August 2020)
 - The MS4 Stormwater Ordinance (Chapter 201, Charter and Code of the City of Stamford)
 - The Annual Reports (a hard copy of the 2022-23 report was delivered to the Ferguson Library Reference Desk on February 1, 2024.
 - The household hazardous waste collection events schedule and information on the materials managed.
 - Best management plans for pesticides
 - Information on preventing stormwater pollution in English and Spanish
 - How to report a stormwater issue, violation, or complaint
- The City maintains a Frequently Asked Questions section that includes 26 questions and answers that city residents may view.
- The Regulatory Compliance and Administrative Officer for the City of Stamford, in an effort to aid in the public participation of stormwater management, added a link to Stormwater Management Website for the RiverSmart CT project at: <https://www.riversmartct.org/resources>.
- In 2014, the department adjusted internal operations to receive and respond to citizen questions and complaints regarding stormwater related issues. The City's stormwater management department responded to hundreds of citizen inquiries regarding snow storage, sweeping, catch basin cleaning, and IDDE program during the Reporting Period. Complete records of service requests, including completed and closed reports, can be obtained by the information technology department, upon request.
- There was no annual public meeting for the 2023-24 Reporting Period. However, hundreds of phone calls and service requests were received by the Stormwater Management Division during this period.
- On 12/7/23 stormwater management department delivered 1,650 of the pet waste flyers to the Town Clerks office to be passed out when people obtain their dog license. Flyers reference ordinance 111-7, which requires pet owners to pick up after their pet, either on public or private property.
- As of 6/30/24, the City maintains 79 dog waste dispensers and signs informing park patrons of the need to pick up after their dogs. Fourteen new dispensers were added during the 2023-24 Reporting Period by the Parks Department in the most used parks. The Parks Department has also created a list of parks and dispensers and

- is requesting additional dispensers based on field assessments. These signs refer to the existing municipal dog waste ordinance in the City Charter (Section 111) and the City is installing new signs in hot spot locations based on field observations. The City's Parks Department has taken over ordering responsibilities for pet waste bags with the exception of Mill River Park. \$15,454.40 was spent on pet waste bags during the Reporting Period. City staff have observed the used bags disposed of in the trash containers throughout the areas with dispensers. Over 300,000 bags were used during the 2023-24 Reporting Period.
- The Mill River Collaborative performs annual clean ups, improvements, and provides educational programming within the City. Approximately 2,500 volunteer hours were provided from over 1,000 individual volunteers during this Reporting Period. These hours included everything from stuffing envelopes, to removing invasive plant species from the meadows, to creating erosion barriers in the river. A specific list of volunteer activities includes:
 - Planting nearly 1,500 native perennials
 - Cleaning up 1,682 pieces of trash weighing approximately 700 lbs litter in and near the river
 - Spreading over 60 yards of organic fertilizers
 - Adding over 50 new trees and 100 new shrubs
 - Installing a ½ mile – 2 acre Food Forest trail in the North end of the park along the river
 - Adding 3 acres of low mow lawn alternative to replace lawn and trail edges
 - SoundWaters is the leading environmental education organization on Long Island Sound. Over 30,000 students learn and explore with SoundWaters, through education and action, every year. SoundWaters constructed a 17.5-million-dollar new education center at Boccuzzi Park. The building opened in November 2022. Additional information on the organization can be found at www.Soundwaters.org.
 - The Mianus Chapter of Trout Unlimited continued work to educate, rebuild, restore and protect the area of the Mianus River. They engage in routine trail maintenance and general park upkeep. They also partner with different groups to restore and improve the park. Volunteers from local Boy Scout troops, Rye Country Day, Aquarion, and Fairfield County New England Mountain Biking Association teamed with them to maintain the park.
 - The Nature Conservancy, a non-profit organization which promotes environmental conservation, gifted the City's first bioswale which was approved by the Board of Representatives on May 22, 2019. The bioswale removes contaminants from stormwater surface runoff and complies with the MS4 permit. Installation was completed in Rippowam Park on September 16, 2019. This bioswale was honored with a Changemakers Resiliency Award by the Business Council of Fairfield County in partnership with the Stamford 2030 District. The City has received a proposal for construct additional bioswales throughout the City. Based on the success of the Rippowam Place bioswale installation, the City looks to work in the future with the Downtown Special Services District (DSSD) and other City agencies to plan, install,

and maintain additional bio-swale structures. In June of 2023, The SMD coordinated excavation and replanting of the bioswale. Maintenance efforts for the bioswale were continued in this monitoring period.

- Currently, the City estimates it has installed medallions on approximately 60-65% of the City-maintained catch basins. The City was unable to significantly add to the medallion program in the 2023-24 Reporting Period. These medallions were installed both in English and Spanish to help public awareness for stormwater quality issues. These medallions are being installed by City staff members and are primarily installed on curb-back type catch basins. The City has recognized that the medallions are a useful and effective tool and has been great for assisting in educating the public and hopes to resume this work for the 2024-25 Reporting Period.
- The City has collaborated with a marketing and public relations firm to develop stormwater management outreach materials in English and Spanish. These are available online and at the government center.
- The City celebrated Earth Day on 4/20/2024 and 4/21/2024. Many events were scheduled, including: 5K events at the Churchill gym, Stamford Village Pool, and Stamford Museum & Nature Center; an event at the Bartlett Arboretum and Gardens featuring non-profits including the Stamford Garden Club, Stamford Recycling, and the Friends of the Mianus River Park; multiple celebrations including those at Designs by Lee, Mill River Park, Greenwich Land Trust, and King School; a volunteer day at Mill River Park; and a Spring Seed Sowing at Stamford Museum & Nature Center. The theme of the day was "Planet vs. Plastics" and included activities such as tree plantations, going green, and singing earth day songs.
- The Climate Executive Order Addressing Climate Change and Sustainability, makes specific reference to "require the prioritization of green infrastructure projects and resiliency initiatives, with a focus on critical infrastructure and underserved neighborhoods. Projects may include enhancing sea walls, building bioswales, planting trees, upgrading stormwater infrastructure, and other efforts to prepare for adverse impacts of climate change, including sea level rise and extreme weather events". Phase I of *Sustainable Stamford: A Plan for Climate Action* was completed in 2024 outlining the actions underway and planned within the city's own municipal operations which are designed to mitigate the consequences of climate change and adapt to new climate realities citywide. It highlights the nearly \$40 million secured in state and federal grants leveraged to devise and invest in practical, implementable solutions to local challenges which will provide immediate and lasting relief plus widespread, equitable benefits. 90 actions are already underway with another 45+ actions under consideration to be introduced in the coming years.
- On October 26, 2023, the Stamford Police Department hosted a National Rx Drug Take-Back event. The event collected unused and unwanted medicines from residents. As part of the event, the police department provided services for residents to drop off their unused or expired medications. The event was publicized through informative links for the event posted on the City's website under Public Safety, Health and Welfare Administration. The event was staffed from 10am to 2pm at a drive through

- setup at police headquarters. This program diverted material that otherwise would have been flushed by residents and ultimately make its way to the WPCA treatment plant, which does not have the ability to remove certain chemicals from treated waste prior to discharging to Long Island Sound.
- City staff continued to engage with Downtown Special Services District (DSSD) regarding the condition of their dumpster storage and grease areas. Coordination meetings were held with downtown restaurant owners/staff, DSSD, Stamford Health Department, and other relevant groups to ensure cleanliness at the Bedford St. trash and grease storage Co-op facility.
 - The city made a post on their website on March 26, 2024 about Connecticut Flood Safety Awareness Week. The post included links to websites from the Connecticut Insurance Department, CTDEEP, and the Connecticut Department of Emergency Services and Public Participation with helpful resources and information on preparedness for major storm events.

4.3.2 Industrial Dischargers

During the 2015 NDPEs Permit compliance audit, the EPA indicated that the City is required to educate owners and operators of commercial, industrial, and institutional facilities as to their responsibility to control pollutants in stormwater discharges from their properties into the City's MS4.

The City's Stormwater Management Department has obtained a CTDEEP list of stormwater discharge General Permit sites for commercial or industrial activity and has prepared informational outreach materials to target these businesses. The City of Stamford SMD has printed pamphlets and stormwater educational materials which will be distributed to commercial and industrial facilities during the 2024-25 Reporting Period. A list of these facilities was obtained from CTDEEP and filtered for all sites located in Stamford. During the 2023-24 Reporting Period, the SMD has worked individually with some of the facilities listed under the CTDEEP Industrial Stormwater Registration category. The SMD conducted inspections at some of these locations, discussed good housekeeping practices, reviewed structural controls, and coordinated with property owners.

4.3.3 Source Controls and Pollution Prevention

4.3.3.1 Used Oil Collection

The City collects used motor oil and cooking oil at the Katrina Mygatt Recycling Center so that residents will have a place to properly dispose of these materials and to limit the potential for them to be improperly disposed and adversely affect stormwater quality. During the Reporting Period, approximately 3,106-gallons of used motor oil and 2,369-gallons of used cooking oil were collected. The City intends to continue its used motor oil collection activities.

4.3.3.2 Household Hazardous Waste (HHW) and Electronic Waste Collection Programs

The City holds at least one HHW collection day within the City limits each year so that residents will have a place to properly dispose of these materials and to limit the potential for them to be improperly disposed of and potentially affect stormwater quality. The City hosted an HHW collection day on July 15, 2023, at the Rippowan Middle School on High Ridge Road. During this Reporting Period 227 households and 268 half-households participated. In addition, Stamford residents can utilize HHW collection days in Darien, Greenwich, New Canaan, Norwalk, Westport, Weston, or Wilton approximately seven other days per year (throughout the spring and fall). The City intends to continue its involvement in these collection events.

The City collects used consumer electronics at the Katrina Mygatt Recycling Center during normal operating hours. Acceptable materials include computers, monitors, televisions, VCRs, DVDs, cell phones, copiers, fax machines, printers, radios, stereos, and small electronics. In addition, inks and toners, rechargeable batteries, lithium-ion batteries, vehicle batteries, compact fluorescent light bulbs, and linear lamps are also accepted at the Recycling Center. During the Reporting Period, approximately 7.3 tons of universal wastes (3.98 tons of batteries and 3.32 tons of fluorescent bulbs) and 104.49 tons of consumer electronics were collected. The City intends to continue its waste electronics collection activities.

4.3.3.3 Spills and Leak

In June 2016, a city-wide Spill Prevention and Response Plan (SPRP) was completed to prevent, contain, and abate spills of oils, petroleum products, and other potentially hazardous materials to minimize stormwater impacts and protect surface waters.

During the Reporting Period, SMD responded to numerous spills on the City's roadways and coordinated with first responders (Police, Fire, CTDEEP) to limit impacts to the City's MS4. A list of recent spills maintained by SMD during the Reporting Period is presented in Appendix D along with a list of hazardous material incidents the Stamford Fire Department was dispatched to.

For additional information on training for spill prevention and response see Section 4.3.5.1.

4.3.3.4 Pesticide, Herbicide and Fertilizer Use Limitations

The City is required to limit the use of pesticides, herbicides, and fertilizers (PHF) in City-owned or operated areas. The City has developed the Best Management Practices (BMPs), found in Appendix G of the SMP, for PHF application in city-owned or operated areas. Further development of standard operating procedures (SOPs) for the use of PHFs is ongoing. It is anticipated that they will be modeled based on the CTDEEP Integrated Pest Management (IPM) Plans.

Fertilizers and herbicides are used on the municipal athletic fields, as described in the SMP. Every year, in April, Dimension (18-0-40) is applied to the fields and contains both fertilizer and herbicides. In May, ProPendi (13-0-4) is applied to the fields and contains both herbicides and fertilizer. In September, just fertilizer (25-0-5) is applied to the fields. In May 2024, Screamin' Green Organic Matter (16-2-3) was applied to Cubeta Field in preparation for the FCIAC Baseball Championship. The City applied a total of 1,626 pounds of nitrogen to the ball parks during the 2023-24 Reporting Period. See Appendix E for a table of the total nitrogen used at the City-owned ball parks.

As required by the NPDES Permit, the City is in the process of establishing reduction goals, including consideration of alternatives for PHFs being used at City-owned or operated areas, specifically at the municipal athletic fields.

No PHFs are used on city park green spaces.

The Mill River Park/Mill River Collaborative completely avoids the use of synthetic fertilizers. They employ a "feed the soil ecology" program where the soil is infused with sixteen or more species of bacteria and fed with a fish emulsion/kelp/yucca blend as a substitute for traditional fertilizers. Additionally, the Mill River Collaborative maintains its lawns at four inches to build deeper, more drought-tolerant root systems. All grass clippings are returned to the lawns, and they use organic products, such as soybean meal, to add nitrogen to the soil. The Mill River Collaborative uses minimal herbicides on invasive plant species per CTDEEP guidelines. They have found that as they continue this program, they require less herbicide use each year.

During the Reporting Period, the Sterling Farms Golf Course used a total of 400 pounds of granular nitrogen and the E. Gaynor Brennan Municipal Golf Course used a total of 1,489 pounds of nitrogen. See Appendix E for a table of the total nitrogen used at the City-owned golf courses.

The Pollution Prevention Team will work with the golf course staff to help reduce the total amount of nitrogen used at these facilities. It is the City's intention to establish goals for reducing the amount of PHFs used at all city-owned or operated areas.

4.3.3.5 Salt Storage and Usage

The City stockpiles road salt at the Highway Department (90 Magee Avenue), the Town Yard (106 Haig Avenue), and the Scofieldtown Transfer Station (612 Scofieldtown Road). At each facility, salt is stored on an impervious pad and is covered by a roof in accordance with the requirements of the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activities.

The City used approximately 5,835 tons of salt during 5 weather events for a combined total of 17.6 inches of snow during the winter of 2023-24. Salt usage quantities will continue to be tracked and the City's goal is to reduce the amount of salt utilized on its roadways by increasing efficiencies and investigating alternate methods. However, salt usage will continue to

vary based on storm frequency and intensity. The winter of 2023-24 was historically mild. Limited efforts related to special hazard ice control were necessary during the winter of 2023-24. To reduce salt usage, the stormwater management department has worked to correct field conditions which contribute to water and ice on city roadways. Much progress has been made eliminating conditions where water flows onto the roadways.

The City's brine system was operational during the 2023-24 Reporting Period with the 5,000-gallon brine tank located at the Town Yard Facility (105 Haig Ave.). However, the brine system was not put into use due to the unseasonably warm winter. See Section 4.3.5.6, Snow Removal, for additional discussion on salt usage.

4.3.4 Land Disturbance and Development

Construction site runoff and post-construction site runoff should be reduced so that water bodies are not receiving additional pollutants or sediment. Sediment causes water bodies to become physically and biologically altered. Decreases in habitat quality can result from significant amounts of sediment covering these habitat areas.

Under the terms of the NPDES Permit, the City of Stamford is required to implement and enforce a program to address construction and post-construction stormwater discharges from land disturbing activities and after site stabilization has been achieved. This program is based on the Connecticut Guidelines for Soil Erosion and Sediment Control (latest edition) and the Connecticut Stormwater Quality Manual (as amended). The City currently is maintaining Class 7 standing in the Community Rating System of the National Flood Insurance Program.

The City has a well-developed process for ensuring that applicants for building permits have received all appropriate City approvals prior to issuance of a building permit. As part of this review and approval process, the Engineering Department reviews stormwater and drainage for proposed developments and site plan revisions.

The NPDES Permit requires the City of Stamford to develop and enforce a program to control stormwater discharges from development and redevelopment activities with one-half acre (21,780 sf) or more of soil disturbance. The one-half acre threshold applies both individually and collectively as part of a larger common plan. Modifications to the Zoning Regulations include provisions to encourage low impact development (LID) practices to maximize infiltration and minimize stormwater runoff. The regulations also limit barriers to LID design and construction.

The Engineering Bureau is also tracking the DCIA on development projects to ensure that treatment/retention volume standards are met. DCIA tracking worksheets and plan graphics are available upon request. Refer to the summary table in Appendix L.

The NPDES Permit requires the City to conduct site-plan review and pre-construction review meetings that incorporate consideration of stormwater control or management practices to

prevent or minimize impacts to water quality. The City currently conducts such meetings internally as part of staff review of many projects. Meetings with developers occur when the project has significant potential for environmental impact.

As part of the application review process, the City is now providing applicants with information on the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. Applicants are being informed about stormwater management issues at the time Environmental Planning Board (EPB) and Planning & Zoning signoffs are being obtained. Applicants have been made aware of their responsibility to obtain DEEP Construction Stormwater General Permits.

The City's building permit process is facilitated electronically through a software package called "View Permit". The plan is to attach standard text to all applications notifying the applicants of their responsibility, if applicable, to obtain DEEP permits. During the 2023-24 fiscal year, about 1,160 building permits applications were reviewed by the EPB as well as 149 formal applications for compliance.

The NPDES Permit also requires site inspection and enforcement to assess the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures. The City's staff performs site visits when the project is near a wetland or other water body. Current staffing levels limit the opportunities for site inspections to only those projects with the greatest potential for impact to stormwater quality. Site visits frequently occur prior to the issuance of a Certificate of Occupancy. The SMP makes referrals as necessary to EPB where ESC's and construction site stabilization issues are observed. During the 2023-24 fiscal year, EPB fielded thousands of calls regarding specific projects and properties as well as general wetland, flood zone, and other environmental issues. They conducted hundreds of site inspections in FY 2023-24 to assess compliance with issued approvals or investigate reports of unauthorized regulated activities. Several enforcement actions were formally brought before the Board during FY 2023-24 to restore adverse environmental impacts discovered by staff during these site inspections. In FY 2023-24, the EPB began its first comprehensive revision of the Stamford Inland Wetland and Watercourses Regulations in almost 20 years. The draft regulations that were developed through an iterative process involving the members of the Board and staff were approved by the EPB in June after a public hearing was held on June 13, 2024. These regulations were then approved by the Stamford Board of Representatives.

4.3.4.1 Directly Connected Impervious Cover

The NPDES Permit calls for completion of DCIA (directly connected impervious area) mapping associated with each MS4 outfall. The City continued the process of estimating the DCIA throughout the City. Sub-meter aerial photogrammetry of the City is being used in determining the DCIA. The initial estimate will be based on the total area of impervious cover, including roadways, driveways, sidewalks, parking lots, and building footprints that discharge to the MS4. Allocating the amount of the DCIA to each MS4 outfall and evaluating each drainage area to

determine if the roof tops are connected to the DCIA will be performed in the next couple of years. The City has determined that the existing GIS Department does not have staffing resources to conduct this work. Therefore, the SMD has contracted various engineering firms to assist in conducting this work. Estimates will be revised in the future as development, re-development, or retrofit projects or new information effectively add or remove DCIA to or from the MS4. In the Reporting Period, the DCIA of the City was reduced by approximately 76,350 SF.

In April 2022, the City of Stamford Stormwater Management Department coordinated the submission of a federal congressional earmark request for \$1,000,000 to increase capacity for stormwater flow in underserved neighborhoods by enlarging pipes and improving catch basins and conveyance systems. The request was successful, and the funding award was announced in February 2023. Areas identified meeting the criteria of, or understood to be, underserved are being considered for these improvements. The SMD coordinated with an engineering consultant, Fuss & O'Neal, to screen possible locations within the DSSD boundary to construct bioswales. An interactive GIS map was produced which provided a feasibility ranking at each proposed location. This will be used to guide future GI installation efforts. In the coming months, the SMD intends to coordinate with the grants office and issue an RFP to interested parties with the intent to begin construction. Additional details regarding the program will be detailed in future annual reports, as the City works toward meeting DCIA reduction goals.

4.3.5 Infrastructure Operations and Maintenance

Pollution prevention and good housekeeping are critical minimum control measures because they concentrate on municipal operations including the maintenance of other control measures. These activities can make an immediate difference with local water body pollutant levels. Street sweeping and other maintenance activities reduce the amount of sediment, salt, and pollutants entering the drainage system thereby minimizing pollutant loads to local water bodies.

The Elsa and Ida events in 2021 caused a significant amount of flooding. As a result of this, the administration contacted the SMD, who suggested the City conduct a city-wide drainage assessment. The SMD suggested funding of \$500,000 to cover engineering services by a third-party engineering firm. An engineering firm will be awarded the drainage assessment work for 42 specific locations in December 2024. SMD anticipates a significant amount of time in the 2024-25 Reporting Period will be dedicated to field inspections, CCTV review, and as built drawing review to improve the position of the City if funding sources or grants become available to design and construct drainage conveyance improvements where appropriate.

4.3.5.1 Employee Training

Employee training is essential for maintaining and increasing awareness of water quality related issues in the management of any MS4. Training also enables facility staff to have an

improved understanding of the stormwater system and how to minimize impacts to the MS4.

All employees working at City-owned facilities participate in annual training to meet the requirements of the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activity. This annual training includes:

- Overview of the NPDES MS4 Permit
- Review of the goals and objectives of the SMP
- Review of facility Stormwater Pollution Prevention Plan
- Review of good housekeeping
- Identifying and reporting illicit discharges
- Review of spill prevention and response procedures

Training was conducted on March 20, 2024 and March 21, 2024 for Universal Waste Management, Spill Prevention Control and Countermeasures Plan, and Stormwater Pollution Prevention Plan. 33 employees attended the training over the 2 days.

The City is dedicated to ensuring that its employees continue to gain the necessary knowledge needed for understanding and implementing the SMP to increase the quality of the stormwater in the City's MS4. The City will continue to update and implement its training programs for all employees working at City-owned facilities. A copy of the sign-in sheets for each of the training events is provided in Appendix G.

4.3.5.2 Infrastructure Repair and Rehabilitation

It is important that the City make timely repairs to the infrastructure of its MS4 to help reduce the discharge of pollutants from the MS4 to the receiving waters. The City is dedicated to giving priority to those projects discharging pollutants to impaired waters or that have other concerns related to the mapping and IDDE process. A schedule for implementation of repairs is developed and updated once the need for the repairs is established.

The SWCPA performs routine maintenance and any necessary repairs on the four stormwater pump stations on an annual basis. Funding for WPCA Maintenance is allocated to the Stormwater Management Operating Budget and back charged by the WPCA, annually.

During the Reporting Period, the City received a total of approximately 64.16-inches of liquid equivalent water (LEW). LEW is a measure of liquid precipitation, which has fallen to the ground in any precipitation type (rain, sleet, hail, snow, etc.). This data was retrieved from the National Climate Data Center (NCDC) for the Westchester County Airport weather station in New York located immediately west of the City. The precipitation amount received is 14.81-inches more than the 1981-2010 climatological average of 49.35-inches for Westchester Airport. This information is important due to the impact heavy rainfall has on MS4 Permit compliance regarding maintaining City stormwater infrastructure and responding to emergencies that arise

after heavy precipitation events.

As of January 1, 2016, the Road Maintenance Department/Stormwater Management Department is responsible for tracking the catch basins and stormwater manholes that require repairs. Previous lists of required repairs were maintained by the Engineering Department. Drainage structures that require repair will be prioritized and assigned for repair by private contractors, accordingly.

The City hired Grasso Companies to conduct infrastructure maintenance and repairs on the MS4 system during this Reporting Period. This work was part of the city-wide street patch and resurfacing Capital Work. In total, over 1,000 linear feet of piping was replaced, 71 bell traps were installed, 80 manhole covers and frames were reset, 742 catch basins rebuilt, and 172 manholes rebuilt/reconstructed. See Appendix H for details of this work.

The City also hired Cavaliere Industries to conduct drainage work on the MS4 system during a this Reporting Period. In total, 240 linear feet of piping was installed/replaced, 34 catch basins were reset/reconstructed, approximately 20 catch basin frames/grates were replaced, approximately 5 bell traps were installed and 24 manhole frames and covers were reset or replaced.

In total, 84 repairs completed from this list; 55 catch basins, 17 manholes, 7 pipes, and a culvert were repaired in addition to a drainage redesign, a pipe reconnection, a curtain drain replacement, and a culvert replacement. See Section 4.3.5.7. for additional details on catch basin cleaning. A list of 2023-2024 catch basin/manhole repairs is presented in Appendix H.

The City also understands that the refinement of the standard operating procedures and good housekeeping practices for the management of the MS4 is essential to improving stormwater quality.

In 2014, the City purchased a camera truck, which is used for implementing the IDDE program and for inspecting catch basins, manholes and stormwater piping. The truck was deployed in 2015 after employees completed the necessary one-week training on the truck and equipment. Employees were re-certified in 2018. The City is working on arranging a new training session for all SMD employees at this time. Initially, the camera truck is being used to inspect areas identified as needing maintenance within the MS4 and has proved to be an asset for mapping/GIS work required by the permit.

During the 2023-24 Reporting Period, SMD staff pumped and cleaned 2,892 catch basins. Available information from 2/12/25 reveals 9,916 catch basins located within the City ROW are maintained by the SMD. The City also employed a private contractor, OneVac, LLC, who pumped and cleaned hundreds of drainage structures which were located on roadways identified as part of the paving list. The city's typical procedure is to pump, clean, and video all drainage structures on roads to be paved, and to fix and repair any damage prior to making the paving investment in the roadway. The total linear footage of piping videoed during the Reporting Period is estimated to be many thousands of feet, and the City maintains paper and electronic records of all piping inspected

and televised, which can be made available upon request. The contractor also generates sketches of piping configurations, which are maintained with these records. The Stormwater Management Department communicates data generated from this important fieldwork to the GIS department to maintain the GIS database with the latest and most current information.

The City has prioritized the areas that it inspects with the camera truck based on flooding issues, complaints about collapsing areas, and complaints about illicit discharges. See Section 4.5 for further discussion on the progress of identifying illegal connections in the IDDE program.

Catch basin inspections also include inspecting the condition of catch basin “bells.” Some City catch basins have bells (metal 90-degree bends covering catch basin outlets) to control floatables. Bells are hung on pins set in the side of catch basins. The City continues to install bells on additional catch basins in parts of its MS4 where trash and floatables are a problem. During the Reporting Period, City staff installed bell traps in 32 catch basins.

The city currently maintains a fleet of four vacuum trucks. The newest vacuum truck was delivered in July 2023. The cost of the new truck, Unit #260, was \$575,000.

The Road Maintenance Division has acquired funding in an Environmental Compliance Capital account to make improvements to MS4 piping when property owners cannot, or will not, make repairs in the timeframe provided in the permit.

4.3.5.2a FEMA Disaster Declaration

The City of Stamford received widespread flooding and damage after the remnants of Hurricane Ida moved through the area on 9/1/2021. The amount of stormwater produced from this incident led the Federal Emergency Management Agency (FEMA) to declare a state of emergency for the City. The agency sent out its Disaster Survivor Assistance (DSA) team for door-to-door outreach in the area.

The DSA visited over 1,100 homes and recorded the flooding impacts residents faced from the storm. This storm produced 8.5 inches of rain in the city of Stamford, causing damage to other MS4 infrastructure and roadways, which were repaired by other departments (i.e., culvert and MH damage at Cummings Park). This was coordinated and repaired by a private contractor as directed by Parks / Facilities Dept. Other MS4 infrastructure was also assessed and repaired by the Engineering Bureau. Farms Road was under construction at the time of the storm, and the Engineering Bureau worked with the utility company to rebuild and restore the roadway.

A stormwater culvert at 1260 Hope St. was damaged and needs to be entirely rebuilt. Although the work is not yet complete, it is expected to be in excess of \$1M to repair. This appears as a capital budget request by the Engineering Bureau.

The repair and restoration work coordinated by the SMD after the Ida event was significant was detailed in Appendix K as submitted in the 2021-2022 annual report. Most of these repairs were

completed by the end of the 2021-22 Reporting Period. Coordination with FEMA continued through the 2023-24 period.

On 8/18/2024, parts of Fairfield County received 12' of rainfall. President Biden declared a major disaster for the State of CT for this event. The SMD observed many catchment areas which exceeded their capacity. SMD conducted many inspections and met with residents.

4.3.5.3 Roadway Maintenance

Roadway maintenance activities can directly affect water quality. An important task of roadway maintenance is keeping the highway drainage system functioning. The City is dedicated to ensuring that routine road maintenance is conducted frequently and that roadside ditches are cleaned and inspected periodically to verify that flow is not being restricted.

Beginning in 2016, the Road Maintenance Department is overseeing the City's paving program. The SMD reviews and directs repair and restoration efforts on these roads. See Appendix M for work during this Reporting Period. During the Reporting Period, 42 roads were paved, totaling about 6 miles.

4.3.5.4 Sweeping

Properly swept streets are a key element to limiting stormwater impacts as sediment and debris can transport other pollutants into the stormwater system and because copious quantities of these materials can inhibit the proper function of MS4 components. During the Reporting Period, the City of Stamford Road Maintenance sweeper crew collected, hauled, and disposed of 894 tons of street material. That is equal to 1,788,000 pounds of road debris (i.e., sand, gravel, dirt, leaves, trash, etc.). The reporting total is 546 tons less than the reported total of 1,440 tons from the 2022-23 reporting year. The sweepers were able to operate during the warm weather during the 2023-24 winter, with only five winter weather events. However, there were significant issues keeping the four sweepers operational during this period. For example, one sweeper caught fire and sustained significant damage. Other Global sweeping units were significantly hampered due to mechanical failure. There were many days during the Reporting Period where only one sweeper was functional.

The reported total above does not include any sweepings collected as a part of the leaf pick up program which ran from 11/13/24 – 12/19/24. During the leaf pick up program, the sweepers unload onto highway trucks in the field and do not go over the inbound scales at the Harbor View Ave. Transfer Station or the scale at Scofieldtown Yard. Outbound MSW hauling trucks capture total leaf weights, which are included and reported in the leaf pick up section of this report.

During the Reporting Period, the City's fleet of sweepers completed a total sweeper mileage of 5,634 miles swept. This number does not include mileage completed by sweeper #252 as it has a

malfunctioning odometer. The number is lower than the previous Reporting Period due to mechanical issues and breakdowns of the sweeping equipment. The majority of the reported mileage is active sweeping with a small portion of the distance being travel to and from sweeping locations. There are 315 centerline miles of city owned and maintained roads in the City. This data indicates that on average, each curb mile was swept approximately 9 times during the Reporting Period.

Sidewalk and curbside sweeping are performed weekly in the Downtown Special Services District (DSSD), along 9.5 miles of sidewalk and curbside during this Reporting Period. This work is coordinated and paid for by the DSSD.

The NPDES Permit requires the City to implement a street sweeping program to remove snow, sediment, and debris from all city owned streets and parking lots. One goal is to compress the spring sweeping schedule between March 1st and June 30th to maximize the quantity of material collected at the end of the winter season.

The City has been implementing a “Post & Tow” policy where they will be posting sweeping dates and times and subsequently towing away any cars that are parked in the areas posted for sweeping events. This system helps the City to effectively sweep in the areas posted instead of having to sweep around parked cars, missing large areas of the road. The City understands the importance of sweeping completely to the curb line or edge of pavement.

The City obtained Global sweepers unit #'s 251, 252, and 253 that were purchased in the 2022-23 Reporting Period using ARP Funding. The City retained Elgin Pelican Sweeper #150, which was purchased with grant funding in 2015. The city made repeated requests for the purchase of additional sweeper units. A funding source was determined and one Elgin Pelican Sweeper was delivered on 5/17/24. This became unit #151. Training on this machine was conducted 6/13/24 by the vendor.

While not in the 23/24 reporting year, the sixth (6th) sweeper was delivered to City Garage on 7/23/2024. This became unit #152. As of 2/15/2025, the Road Maintenance Department is maintaining a fleet of six sweepers, which consists of three Global M3 units and three Elgin Pelican units. Since the creation of the SMD in 2013, the Road Maintenance Dept. has never had six sweeping units. Extra manpower has been allocated to the early morning sweeping crew, with the intent of operating 3 to 4 sweeping units and 2 dump trucks to collect the street sweepings.

4.3.5.5 Leaf Collection

In 2023, the City’s leaf pickup program was substantially completed on December 19, 2023. Every street in the City is swept as a part of this program. A total of 16,050 tons of leaves were collected and hauled for composting. That is equal to 32,100,000 lbs. of leaves and is 283 tons less than the 2022 period.

According to the NPDES Permit, the City shall conduct a city-wide leaf pickup program annually to be completed by December 15th. There were two days of poor weather, with heavy rain and wind, where leaf collection efforts were unable to occur. The program would have been complete by 12/15/24 if not for the weather delays. The City has established a procedure that breaks the City of Stamford down into three areas (see Appendix L of the SMP for a map of the leaf collection areas):

- Area #1 - north of the Merritt Parkway
- Area #2 - between Merritt Parkway and I-95
- Area #3 - south of I-95

Leaf pick-up typically begins the first business day after Veterans Day in November. The exact completion date depends on weather conditions and competing demands (snow removal and road salting for staff and equipment). Crews work south, and the program is complete when crews reach Long Island Sound. Outreach materials direct the residents to have their leaves placed curbside, before the scheduled start date for each of the three areas. The first snowfall occurred on January 6th, which was outside of the leaf collection period. It is important to note that the City finishes leaf pick-up even after snow fall. This process takes approximately four weeks of full-time work for all available road maintenance crews. 28 additional seasonal workers were hired to assist with the leaf program. The seasonal workers included CDL drivers and seasonal laborers, who worked with rakes and backpack blowers to temporarily move leaves onto the roadway where they could be captured by pusher trucks (with leaf plows), then pushed into piles and loaded onto trucks for transport to the Transfer Station yard.

The current leaf disposal policy is that the leaves will be piled at the curb prior to pick-up and off the streets. During the Reporting period, 21,706 post card mailers were sent to all single-family dwellings in the city, about 1,000 home improvement contractors registered with the State of CT Department of Consumer Protection, and a handful of property management companies located in Stamford which represent the vast majority of condominium complexes. 250 additional flyers were printed encouraging mulching of leaves. The flyers were handed out at the Scale House at the Transfer Station and at Government Center. Print ads were placed in the Stamford Advocate newspaper and ran three times. The banner ads ran on the Stamford Advocate website and linked residents to the Stamford/Leaves website.

The city also conducted a leaf bag pilot program in 2023. There was a significant outreach component to this work and about 3,550 leaf bags were distributed.

The SMD had a sufficient inventory of both the yellow and red door hangers from previous years efforts and did not need to reorder these in 2023. As in previous years, the yellow door hangers are for leaves placed in the street before the program begins and the red door hangers are for leaves placed in the street after the program has moved through the particular area. Both the red and yellow door hangers are double side printed, with one side in English and the other side in Spanish. In addition to the citation officers in the SMD, the City citation officer(s) have assisted

in leaf compliance efforts during the 2023 leaf pick up season. Dozens of door hangers were placed on non-compliant properties.

4.3.5.6 Snow Removal

Timely snow removal and the appropriate application of de-icing materials is another key element to a successful SMP. The City follows the DEEP's Best Management Practices (BMPs) for Disposal of Snow Accumulation from Roadways and Parking Lot. A copy of this BMP is presented in Appendix K of the SMP. The purpose of the BMPs is to prevent accumulation of sand, other solids, and pollutants in the MS4 and in sensitive areas, such as streams and wetlands.

The NPDES Permit requires that the City implement and refine its SOPs, regarding its snow and ice control operations, to minimize the discharge of pollutants. Goals must be established for the optimization of chemical application rates through the use of automated equipment including zero velocity spreaders, anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals.

The City is already well on its way to meeting these goals. The Highway Crew is equipped to perform anti-icing using liquid calcium chloride (brine) to pre-treat city streets with the highest traffic volume. Once the storm begins, patrols are sent throughout the City to monitor road conditions. Hills and intersections are spot treated to minimize chemical usage. The City tracks chemical usage; however, given the variability in the amount of snow and ice that needs to be treated each year, it is difficult to set goals for chemical optimization. The brine system was not put into use during the Reporting Period due to the unseasonably warm winter. As noted in Section 4.3.3.5, the City intends to expand its use of brine trucks for pre-treatment in the future, which will help reduce road salt usage.

The City continues to minimize its use of de-icing materials. This goal is being pursued in part to respond to shortages of de-icing materials in recent years. Salt is generally applied only twice for each storm – once at the beginning to prevent ice from binding and once at the end to prevent re-freezing. The regulatory compliance and administrative officer have been enforcing illegal discharges of private basement sump pumps into the right-of-way, rather than simply treating these areas with removal of additional de-icing materials.

During the Reporting Period, the Regulatory Compliance Administrative Officer continued to work with the Vehicle Maintenance Department regarding the establishment of a pilot program to introduce automated spreader control to minimize salt application and meet permit goals. Eight new Freightliner plow trucks were ordered in 2024 with expected delivery in early 2025. All the new plow trucks are equipped with automated spreader control. Retrofitting plow trucks currently in the fleet is cost prohibitive. All new trucks ordered going forward will be equipped with automated spreader control until all trucks without it are phased out.

During this Reporting Period, the City compiled a list of Special Hazard Areas which were more

prone to icing conditions due to a variety of factors including high groundwater table, improper roadway design, blocked catch basins, sump pumps from residential properties, and other factors. These areas were checked and treated by City staff whenever temperatures dropped below freezing levels. The primary areas of concern are north of the Merritt Parkway, the Long Ridge Road area, and the High Ridge Road area.

Numerous roads and areas were removed from the list because of the efforts of the SMD. These efforts include but are not limited to: roadway regrading and reprofiling as a part of paving work, adding additional drainage structures, constructing curtain drains to dewater roadway subbase, enforcement actions directed toward private property owners to abate discharges of water to roadway as per Sec. 214-9, and construction and repair of curbing to direct and convey storm flow. All these measures improve the performance of the roadways, improve roadway safety, increase the service life of the pavement, reduce manpower costs related to snow and ice treatment, and decrease the amount of salt used to treat the roadways.

During this Reporting Period, the West Beach parking lot was prepared from November through April with haybales, catch basin filter fabric, etc. in the event that additional snow stockpiling was necessary. This space was not utilized during this Reporting Period.

4.3.5.7 Catch Basin Cleaning

Clogged or full catch basins can lead to negative stormwater quality outcomes. Catch basin sumps provide a first line of defense in improving stormwater quality. Maintenance and cleaning activities are important to the proper operation of each catch basin.

For the 2023-24 Reporting Period, 2,892 catch basins throughout the city were inspected and cleaned (approximately 29% of the total number of catch basins, which is 9,916 as of 2/12/2025). Approximately 4,175-tons of materials were removed from the basins during the Reporting Period. This equates to 8,350,000 pounds of waste that was captured and processed and did not enter the City's waterways, streams, rivers, or Long Island Sound. These numbers do not include drainage structures pumped and cleaned by the City's supplementary drainage contractor (One Vac., LLC), for roads to be paved. This is the highest total of removed debris from the MS4 since records have been kept.

The City continues to maintain a catch basin inspection, cleaning, and repair program. This program helps to identify and map each MS4 catch basin and determine flow direction, inspect its condition, determine the amount of sediment in each, clean catch basins with less than 50% of their sump capacity available, gather information over time on sediment accumulation rates, and develop a routine maintenance and cleaning schedule as prescribed by the NPDES Permit.

To support this program, the City has obtained or purchased the following equipment:

- Three Vector vacuum trucks purchased between 2014 and 2015. New Vacuum truck delivered to SMD on 7/19/2023. A Total of four vacuum trucks are in use by SMD.
- Three Elgin Pelican sweeper and three global M3 sweepers purchased with ARP funds.
- Rapid View CCTV truck w/ Pipe Logix software – purchased in 2015. CCTV truck has three cameras and a manhole/ stick camera.
- Two one-ton dump trucks with Stetco hydraulic cranes – purchased in 2016
- Caterpillar mini-excavator – purchased in 2014 and used for culvert cleaning work.
- Caterpillar loader / backhoe – purchased around 2010 and used for culvert cleaning work.
- (~10) One-ton dump trucks used for typical highway department work.
- (~25) Large dump trucks – used as necessary for haul away of sediment per culvert cleaning work.
- Utility truck with a crane and lift gate to assist with catch basin replacement, manhole replacement, stormwater drain medallion installation, curb back bolts, water barrier installation, and spill response.
- High pressure jet nozzles to move heavy debris build ups in large piping. This new unit spent significant time during the 2023-24 reporting period working in conjunction with the camera truck (unit #265) to conduct high pressure jet cleaning of MS4 main piping.

As of 7/1/2024, the SMD had nine heavy equipment operators to support the program for stormwater management and compliance activities. See Appendix N for reference.

Additionally, the City continues to use a software tracking program and iPads to track catch basin inspections, cleaning, and repair progress. The MS4 Front software was brought on-line in October 2014 and has proven to be a valuable assessment tool.

4.3.5.8 Culvert Cleaning

During the Reporting Period, the City performed maintenance activities at 37 culverts over approximately 25 days. Various maintenance activities were conducted at the culverts including, but not limited to stabilizing inlet and outlet areas, cleaning out culvert, removing debris and vegetation from around the culvert, CCTV inspections, excavating culvert discharge area, and wetlands. During the Reporting Period, over 172 cubic yards of sediment, brush, and debris were removed from the culverts and drainage channels. A list of 2023-24 culverts cleaned is attached in Appendix I.

4.3.5.9 Detention and Retention Ponds

Detention and retention ponds that become overloaded with sediment deposition can negatively impact stormwater quality in the City's MS4. MS4 Ponds are required to be cleaned out when solids levels reach 50% of design capacity.

A list of detention and retention basins was developed, and the City is maintaining an

inspection schedule. To date, 77 basins have been identified, and the City continues its efforts to inspect the basins identified. The detention and retention basins were added to the GIS mapping. The City is evaluating utilizing outside contractors to assist with inspections and any follow-up work that may be needed as resources and funding allow.

4.3.5.10 Interconnected MS4s

Connections of other MS4s to the City's MS4 can affect the performance of the City's stormwater system and the quality of its discharges. There are no known interagency agreements between any other municipalities, institutions, or agencies and the City of Stamford. However, it appears that the following municipalities and agencies may be contributing stormwater to the City of Stamford's MS4:

- State of Connecticut (CTDOT)
- Town of New Canaan, CT
- Town of Darien, CT
- Town of Greenwich, CT
- Town of Pound Ridge, NY

The Connecticut Department of Transportation (CTDOT) operates several roadways within the City, including Interstate 95; the Merritt Parkway (Route 15); Long Ridge Road (Route 137); High Ridge Road (Route 104); and Route 1. The City's MS4 flows into CTDOT's MS4 in some locations and CTDOT's MS4 flows into the City's MS4 at other locations. The City communicates with CTDOT as needed, primarily when the City receives complaints of clogged CTDOT storm drains.

There has not been a comprehensive review of interconnected MS4 data since the Citywide spill plan was developed in 2016. As financial resources allow, the SMD determined there may be value in updating the 2016 Citywide spill plan during the 2025-26 Reporting Period. There have been many staff and leadership changes within the Stamford Fire Department. Coordinating the current understanding of the interconnected system with new personnel could be beneficial. A map of the interconnected MS4 areas is provided in Appendix C of the Spill Prevention Response Plan. Currently, there are no interagency agreements established. The City of Stamford will correspond with neighboring municipalities to refer maintenance items on an as-needed basis.

4.3.5.11 Referrals

During the Reporting Period, the Stormwater Management Department provided referrals to other City departments and organizations for maintenance and repairs. These referrals are outlined below:

City of Stamford Highway Department

- Over 25 referrals were provided to the City's Highway Department for items including

bituminous asphaltic concrete work to patch potholes, sawcut and patch pavement at sinkholes, establish new curbing and leak off areas to control stormwater, sawcut and restore paved roadways such that they slope to drain, eliminate puddling and ponding on roadways and sidewalks, construct new driveway apron and associated curbing work, and general sidewalk work.

City of Stamford Engineering Bureau

- Approximately 14 referrals were provided and coordinated with the City's Engineering Bureau for items including: damaged streetlights in the ROW, failing pavement from utility work, bridge work and obstructions at bridges, unpermitted impervious paving issues, flooding issues which require design of new drainage structures and easements, and piping configuration and performance observations by SMD.
- The Engineering Bureau worked on design and construction of the following areas during the Reporting Period: Vicinity of 1260 Hope St. (easement procurement), Bird Song Lane (drainage and paving work), Briarwood Lane (easement procurement), Leroy Place (completed drainage and paving work), Mead St./Bouton St. CCTV and assessment work, Rock Rimmon Lane headwall repair, and Hamilton Ave./Brookside Dr. repair and alignment work.
- The Engineering Bureau also coordinated the RFP and scoping work for the Citywide Drainage Assessment project. This included identification of specific areas for targeted work. As of 2/25/25, the City is in the process of awarding the work to the selected vendor. Anticipated work to begin in spring 2025 and will be tracked and reported on during the 2024-25 reporting year.
- The Engineering Bureau also performed work based on complaints from neighbors at Brentwood Dr. (headwall repair), 20 River Hill Dr. (CCTV stormwater pipes), 60 Rockridge Ln. (CCTV and investigation on drainage piping), 69 Carraige Dr. S (CCTV and investigation on culvert), Northeast School (CCTV piping network), 26 Field St (watershed area), and the Transfer Station (water leak tracing and investigation with the installation of the first valve in the 1" water main).

Environmental Planning Board (EPB)

- 11 referrals were provided to the EPB for items regarding unpermitted construction work, placement of fill, failing or missing erosion and sediment controls, new impervious paving, and various citizen correspondence and coordination.

Traffic, Transportation, and Parking Dept (TT&P)

- 3 referrals were provided to the TT&P for items regarding additional parking limitations on narrow roads to allow access, requesting additional vehicular turning radius assessments at roundabouts, and drainage review for roadway / signal project.

Building and Zoning Dept

- 2 referrals were provided to the Building and Zoning Departments for items regarding possible illegal living unit and possible stormwater implications of onsite sanitary treatment facilities, and construction practices related to nuisance dust and debris

controls with impact to MS4 stormwater structures.

Referrals Provided to the CTDOT

- 5 referrals were provided to CTDOT for items regarding: a failing/blocked CDOT pipe which caused major impacts to City roadways (SMD completed significant cleaning and repairs to downstream City portion of MS4 system impacted by CTDOT), sinkholes and failing catch basins reported to City SMD which were located on CDOT roadways, and catch basins located on CDOT ROW which were observed by SMD to be buried and covered over.

Curbing Referrals

- The Road Maintenance Department handles curbing requests and estimates at least 200 were received during the 2023-24 Reporting Period. As of 2/25/2025, there are 164 open requests for curbing / curb repair. The city estimates the average curbing repair is between 20 and 40 feet in length, and the city also estimates that over one mile of curbing has been replaced/repared by the Road Maintenance Dept. during the reporting year. Curbing condition, location, and placement is also reviewed and adjusted as necessary by the SMD when catch basins are repaired and when any road is reclaimed or repaved. Direction is provided to contractors as necessary.

Other Referrals

- Referrals to Aquarion Water Co.: 13 referrals regarding leaking or missing valve covers, water main breaks, sinkholes and pavement settling, status of Aquarion contractor construction work, and condition of roadway after saw cutting
- Referrals made to Eversource: 7 referrals made regarding gas line piping installed through existing storm piping at numerous locations, failing and hazardous utility trenches in roadways, loud and loose electrical vault covers, utility pole installed through (blocking and obstructing) existing reinforced concrete storm piping, and low wires.
- Referrals made to WPCA: 38 referrals made regarding issues with sanitary infrastructure (damaged or paved over sanitary manholes), sanitary lateral repair work, pavement settling, plan review and coordination items, utility conflicts where sanitary lateral installed through MS4 storm main piping, reports of sanitary system overflows impacting the MS4, WPCA pump station alarm operation and status, coordination of operation of WPCA maintained stormwater pump stations, and investigations of various reports of sinkholes.
- Referrals made to Parks Department: 10 referrals made regarding requests to prune or remove trees and vegetation to provide access to drainage structures, and use of grapple truck to remove debris collected at bridges. After trees and brush are cleared by Parks/Trees, the SMD prepares additional work orders and sends resources (typically vac truck) back to complete cleaning and stormwater work as necessary.

4.4 Monitoring Program

In addition to the screening and monitoring activities associated with the IDDE Program (see Section 4.5), the NPDES Permit calls for stormwater outfall monitoring throughout the life of the permit.

As prescribed in the modified NPDES Permit, the City is no longer required to conduct in-stream samples.

Fairfield County utilizes Harbor Watch to address pollution threats to Long Island Sound. In 2023 the monitoring team studied 22 waterways comprising 137 unique sampling locations. Each location was monitored a minimum of 8 times. Testing was conducted between May and September. E. col (enterococci) and coliform contaminants are tested for and recorded by Harbor Watch. Harbor Watch also produced a Fairfield County River Report which provided valuable information about the water quality data for the Rippowam and Norton Rivers during both wet and dry sampling events which occurred during the Spring/Summer/Fall of 2023. Summary tables of the analytical data for these screening and sampling efforts are presented in Appendix O.

4.4.1 Dry Weather Outfall Screening for Illicit Discharges

Dry weather outfall screening was not conducted during this period. SMD is looking to bring in a consultant to conduct dry weather screening in the 2024-25 Reporting Period. Summary tables of the analytical data for the dry weather outfall monitoring done previously are presented in Appendix J.

4.4.2 Wet Weather Outfall Monitoring

Wet weather outfall monitoring was conducted on August 25, 2023 and December 18, 2023 in this period. SMD is looking to bring in a consultant to conduct wet weather monitoring in the 2024-25 Reporting Period. To date, 108 of the 191 known wet weather outfalls were sampled.

See Appendix P for the latest wet weather sampling results.

4.5 Illicit Discharge Detection and Elimination (IDDE) Program

IDDE will lessen the number of pollutants discharging to local water bodies. Some people unknowingly dump pollutants into the storm drain or have illegal connections to the drainage system. The permit requires inspection of outfalls during dry weather conditions to determine whether illicit discharges are suspected and then to conduct extensive evaluation and follow-up to eliminate the illicit discharges that are found.

Additionally, City personnel continue to follow-up on known or suspected illicit discharges as well as any complaints associated with potential illicit discharges through calls to Road Maintenance Division or reported via the City's stormwater management website.

4.5.1 Instream Sampling for Illicit Discharges

Sampling in the Norton and Rippowam Rivers was conducted by Harbor Watch / Earthplace. See Appendix O for sampling results.

4.5.2 Illicit Discharge Investigations

Additionally, during the Reporting Period, the City continued to utilize Harbor Watch / Earthplace to assist efforts related to illicit discharge detection and source identification. Harbor Watch was directed to go into the field to gather and analyze samples during wet and dry weather conditions in an effort

to quickly ascertain and isolate suspected illicit discharges in the interest of public health, safety, and welfare. When there is a discharge of suspected contamination or pollutants in stormwater, efforts to inspect and identify are time sensitive. In the interest of promptness, these efforts are sometimes directed regardless of precipitation events. In some cases, multiple samples are collected at the same location over an extended period in an effort to build a more comprehensive data set and gain a better understanding of how precipitation events can impact a discharge. A good example of this occurred in early 2019 when a failing septic field was found to be leaking onto the roadway and ultimately into downgradient catch basins.

In the Reporting Period, Harbor Watch screened 69 locations and collected 20 samples. Results from these samples can be found in Appendix K.

4.5.3 Illegal Connections

As a result of the IDDE program the City has identified multiple areas of concern, which will receive further investigation. During the Reporting Period, a total of five areas were investigated in conjunction with IDDE efforts. There were no illegal connections which were removed during the Reporting Period. Additional information on the areas investigated is below.

- Merrill Ave. IDDE resources were dispatched due to a suspected water line leak which was draining into the existing storm pipe. Chlorine residuals were confirmed. The item was referred to Aquarion Water Company for assessment. Repairs to the water main were completed by Aquarion's on call emergency contractor.
- Cove Rd. IDDE efforts related to post verification screening. Data suggests sewage issues have been resolved. May need to recheck MH-9681 during the 2024-25 reporting year regarding high isolated Enterococcus values.
- Dean St. IDDE efforts related to observations of discharge and staining by SMD while reviewing CCTV work. Lab analysis revealed bacteria is not an issue and there does not

- appear to be any sewage issues at this location.
- Stamford Harbor IDDE and track down efforts in response to reports of oil sheen reported on harbor. Multiple outfalls and areas were investigated. Boom was placed at an outfall near Pulaski St. Unable to determine origin of sheen.
- Pepper Ridge Rd. IDDE efforts related to previously unknown pipe, which was discovered by utility contractor conducting excavation work. Flow was sampled and determined to be groundwater.

4.6 Legal Authority

In 2015, the Board of Representatives approved Section 201 (Regulation of MS4), to the City code of ordinances as related to the NPDES Permit. The legal authorities established the following:

- The authority to administer the stormwater management program and all elements of the SMP.
- The authority to control the contribution of pollutants to the MS4 by permittees registered under the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activity; by other commercial, industrial, municipal, institutional, or other facilities; and from any site that may affect water quality to the MS4.
- The authority to establish ordinances, bylaws, regulations, or other mechanisms to require developers and construction site operators to maintain consistency with the Guidelines for Soil Erosion and Sedimentation Control, the Connecticut Stormwater Quality Manual, and all CTDEEP-stormwater discharge permits issued with the City of Stamford.
- The authority to identify existing regulations that may represent barriers to low impact development (LID) practices to minimize the quantity of impervious cover.
- The authority to perform inspections, surveillance, and monitoring related to the MS4.
- The authority to establish ordinances, bylaws, regulations, or other mechanisms to ensure a developer's or construction site operator's proposed use of LID practices by right or exception.
- The authority to revise regulations to eliminate or reduce potential barriers to LID.
- The authority to perform adequate inspection and maintenance activities to optimize the performance and pollutant removal efficiency of privately-owned retention or detention ponds that discharge to or receive discharge from the City's MS4.
- The authority to control through interagency or inter-jurisdictional agreement, the contribution of pollutants between the City's MS4 and MS4 owned or operated by others.
- The authority to prohibit by statute, ordinance, rules and regulations, permit, easement, contract, or any other means, illicit discharges to its MS4; to require the removal of these discharges; and to assess fines, penalties or cost recoupment for violations.
- The authority to control by statute, ordinance, rules and regulations, permit, easement,

contract, or any other means, the discharge of spills into its MS4; to prohibit the dumping and disposal of materials into its MS4; and to assess fines, penalties or cost recoupment for violations.

The schedule for establishment of these legal authorities is documented in the NPDES Permit. On March 20, 2015, a final MS4 Ordinance, Ordinance 1153, adding Chapter 201 to the City Charter, became effective. Section 15 of the Zoning Regulations became effective June 2, 2020, and the City's first ever Drainage Manual became effective 6/10/20. The SMP will be updated accordingly to reflect the newly established authorities. No updates were made during the Reporting Period.

Several written and verbal warnings were issued during this Reporting Period as part of the implementation of the City's stormwater ordinance. The warnings issued are listed below:

4.6.1 Written Warnings

During the Reporting Period, 20 Notices of Violation (NOV) written warnings were sent to property owners in reference to stormwater compliance issues enforceable by the SMD. The nature of the violations generally pertain to discharge of water to roadway contributing pollutants to the MS4 system, and obstructions placed in watercourses.

During the 2023 Leaf Pick up program, door hangers were placed on properties whose leaves were not in compliance. Each door hanger is considered an NOV and is an enforcement action. The SMD estimates that a few hundred of the red and yellow door hangers were used during the program. Refer to section 4.3.5.5 above, for more details on the Leaf Pick up program.

4.6.2 Verbal Warnings

SMD does not have any data on verbal warnings issued in the Reporting Period.

5.0 SUMMARY OF PROPOSED SMP MODIFICATIONS

On August 14, 2017, a permit modification was issued for the City's NPDES Permit. During the 2017- 18 Reporting Period, the City reviewed the permit modification for any new requirements. The City revised the SMP accordingly in August 2020. In August of 2022, Fuss and O'Neill provided a draft of a modified SMP, along with the appendices. There are only a few remaining items the SMD must collect for inclusion in the report. The SMD anticipates completing this coordination in 2025 and finalizing the SMP. The final version will be placed on the Stormwater Management Dept. website. Updates regarding the status will be provided in the 24-25 Annual Report.

6.0 PROGRAM RESOURCES ANALYSIS

6.1 Fiscal Analysis

During this Reporting Period, the City continued to make efforts to secure budget, staffing, and resources necessary to develop and implement the SMP to comply with the NPDES Permit requirements, and to improve the overall quality of stormwater discharging from its MS4. The City is committed to identifying these details and adequately funding them to achieve compliance with the NPDES Permit.

Some line items in the City's Capital and Operating Budgets are obviously related to MS4 stormwater compliance, such as the "Environmental Compliance" and "Stormwater Management". However, there are other line items for infrastructure and other public improvement projects (drainage, catch basin, storm lines, etc.), special projects, and operating expenses that will result in direct improvements to stormwater runoff quality and the quality of discharge from the City's MS4. For example, the closure of the old Scofieldtown Road Landfill is being performed for specific reasons but should have the added benefit of improving stormwater quality in these areas of the City.

There are also budget line items for vehicle, equipment, and information technology upgrades throughout the City which include Departments with responsibility for stormwater quality improvements and implementation of the SMP.

Operating Budget

The Road Maintenance Division had an overall adopted operating budget of \$8,084,337 for FY 23-24. This represents an increase of \$976,940 from the FY 22-23 adopted budget.

The Stormwater Management Department had an adopted operating budget of \$1,722,762 for FY 23-24. This represents an increase of \$241,381 from the FY 22-23 adopted budget.

The Snow Removal account had an adopted operating budget of \$1,446,838 for FY 23-24. This represents an increase of \$169,731 from the FY 22-23 adopted budget.

The Leaf Collection account had an adopted operating budget of \$375,245 for FY 23-24. This represents a decrease of \$49,519 from the FY 22-23 adopted budget.

The Road Maintenance Department has an adopted operating budget of \$4,539,492 for FY 23-24. This represents an increase of \$615,377 from the FY 22-23 adopted budget. This budget covers maintenance and minor repairs for asphalt and potholes, street sweeping, and debris removal.

Capital Budget

Operations: Engineering

Capital project C16012, Citywide Storm Drains. Project is for installation and replacement of storm drains, catch basins, and curbs. In FY 21/22, Engineering Bureau requested \$3,250,000 and \$1,000,000 was adopted. In FY 22/23, Engineering Bureau requested \$2,000,000 and \$2,000,000 was adopted and funding source was identified as American Rescue Plan (ARP). In FY 23/24, Engineering Bureau requested \$0. As of 8/25/23, the account showed an available balance of \$214,786 and an unfunded balance of \$4,000,000. As of 6/6/2024, the amount available was \$3,071,608. Comments indicate the balance used to fund drainage projects at: Newfield Ct., Pheasant Ln, Halliwell Dr., Tod Ln, Wire Mill Rd., and Hamilton Ave. Also noted on 6/6/24, the outyear request is a placeholder and will depend on the outcome of the Citywide drainage study.

Capital project 001245, Citywide Drainage Study. This project appears in the 22-23 capital budget under "Operations: Engineering", with a funded balance of \$500,000. This item does not appear in the 23-24 capital budget as there was no request for additional funding. Funding source was identified as American Rescue Plan (ARP). As of 2/27/25, multiple Engineering firms have submitted bids. Interviews have been conducted, and the Purchasing Dept. is in the process of issuing the bid award to the selected firm. SMD has participated in this process and anticipates significant additional work during the 24/25 reporting year. Work to include reviewing available information (CCTV and plan info), conducting field assessments, and discussing drainage improvements for nearly fifty locations citywide.

Capital Project C56119, Citywide Roadway Correction. Funds are for design and construction work. Project references June Rd./Guinea Rd. intersection, which is located on a steep hill with no curb, and no drainage structures. Road Maintenance paved June Rd. and Guinea Rd. within the past 5 years. No funding requested/approved for this project during the 23-24 reporting year. Existing account balance available: \$339,342.

Capital Project CP2703, Bouton Street Culvert Replacement. Engineering Bureau requested \$200,000 in FY 21-22. This amount was adopted. As of 6/30/21, balance in the account is \$0. No capital requests were made in FY 22-23, or FY 23-24.

Capital Project CP1074, Pine Hill Drainage. Engineering Bureau requested \$2,600,000 in FY 22-23. No funding was approved for this in FY 22-23. As of 6/21/22, the account has an available balance of \$261,300. No request for funding was made in FY 23-24.

Operations: Traffic and Road Maintenance

Capital Project CP8711, Traffic / Road Paving and Drainage. The funds in this project will allow for full (curb to curb) roadway restoration, in situations where utility road opening work would only partially restore the roadway affected by the utility work. Mayor requested and boards adopted

\$500,000 for this in FY 23-24. In FY 24-25, the Department request was for \$1,000,000 and \$500,000 was the adopted amount. As of 6/6/24, the available balance was \$853,100.

Capital Project C56129, Citywide Manhole and Basin. In FY 22-23, the SMD requested \$500,000 and \$0 was adopted for this work. In FY 23-24, the SMD requested \$1,000,000 for this work and \$0 was adopted. As of 6/6/2024, the amount available in the Capital project was \$2,010,000. This is the primary source of Capital funds used by the SMD to make corrective repairs to all components of the MS4.

Capital Project C56182, Street Patch and Resurfacing. The funds in this project are for drainage repairs and grading corrections. Funds also used for milling / paving / reclaiming roadway operations. Department request for FY 23 – 24 was for \$10,000,000 and the boards adopted \$5,000,000. In fiscal year 2022, the expenditure in this account was \$12,194,451. The SMD estimates a significant percentage of this amount was allocated to drainage and MS4 improvements. The available balance as of 6/6/24 was \$863,943.

Operations: Stormwater Management

Capital Project CP0211, Environmental Compliance. FY 22-23 requested \$50,000 for capital costs related to MS4 compliance efforts in conjunction with CT0030279. No funding was adopted. In FY 24-24, requested \$100,000 for these purposes. No funding was adopted. Available balance as of 8/25/23 was \$272,777. No request for funding was made in FY 24/25.

Operations: Land Use

Capital Project CP1457, Resiliency and Climate Adaptation Implementation. FY 23-24 requested \$50,000 and boards adopted this amount. The Land Use Bureau proposes a study of coastal flood hazard areas that will identify flood risks and opportunities to enhance climate resiliency. The study will develop preliminary design and cost estimates to establish a prioritized list of resiliency projects. A project kickoff meeting and workshop was held at Government Center on 2/18/25. Approximately 100 people attended.

Other Funding Sources

State of Connecticut Nip Bottle Recycling Program. This program places a surcharge on each 50ML container of alcohol sold within each Connecticut town. Checks are then sent to each city or town, and funds are to be used in support of program goals. As reported by State of Connecticut, from 4/1/23 to 9/30/24, Stamford received funds of \$42,008.15. The total funding received since the program was established was \$156,932.35. As reported in the 22-23 annual report, the SMD did utilize a portion of this funding to purchase sweeper brooms and catch basin bell traps.

Monsanto PCB Settlement Funds. Funds received by the City from class action lawsuit. SMD became involved and suggested possible uses for the funds related to stormwater management

goals and objectives. \$32,414.03 was received and appropriated by the City Boards on 6/5/2024. Funding is still in place and has been utilized as of 2/27/25. The City's Annual Capital and Operating Budgets for 2023-23 are available on the City's website at <http://www.stamfordct.gov/>, under the Office of Policy and Management Link.

An increase in funding associated with additional staffing discussed in the next section of this Annual Report will also be required in coming fiscal years.

6.2 Staff and Resources

The City transferred responsibility for many of the stormwater management tasks and MS4 permit compliance from the SWPCA to the Road Maintenance Department with the issuance of the NPDES Permit in June 2013. While evaluating the permit requirements, the Road Maintenance Supervisor and Pollution Prevention Team Coordinator began to assess the staff and resources necessary to achieve and maintain compliance.

In the 2023-24 Reporting Year, the SMD had nine heavy equipment operators to complete field work including catch basin investigation, cleaning, and maintenance. These operators are also responsible for assisting with sweeping, snow removal, leaf pickup and other activities designed to improve the quality of stormwater runoff. The SMD also hired an Environmental Enforcement Officer, who started in March 2022, to assist with enforcement and compliance work.

Over the course of the Reporting Period, the Stormwater Department assessed these new staffing levels as the SMP was being implemented and additional schedules and goals are continuously being generated to meet the demands of the City's MS4.

In addition to these individuals, the Road Maintenance Division maintains a work force of thirty skilled operators, laborers, administrative, support, and management personnel that provide many of the direct services outlined in this report, such as: roadway sweeping, leaf pickup, snow removal, infrastructure improvements and maintenance. They are also available to assist with other stormwater management projects, as directed.

Several other City Departments provide personnel to support compliance with the NPDES Permit and implementation of the SMP, including Engineering, Land Use, Planning, Zoning, Environmental Protection, Information Technology (GIS), SWPCA, Solid Waste, Recreation and Leisure Services, Parks, Parking & Transportation, Fleet Maintenance, Legal, and the Fire Department. The Environmental Protection Board has four full-time technical staff (3 Environmental Analysts and an Executive Director). See Appendix F for the Environmental Protection Board Report.

During the next year, implementation of the SMP, the municipal stormwater ordinance, and the changes to the Zoning Regulations, City Departments will be better able to assess the adequacies of their staffing levels with the added MS4 permit compliance requirements. As discussed during the compliance audit conducted by the EPA (see Section 2.3.1) and the City's own assessments, it

is anticipated that additional staffing may be necessary in the following areas:

- Information Technology – There is a substantial amount of stormwater mapping and information management to be set up and managed, particularly during the first several years of the permit. The City needs to finalize the outfall identification mapping, and confirmation process and begin the DCIA analysis. In 2022, the GIS Department has grown and has a staff of three; however, the SMD may still need outside consultants to work toward MS4 Permit goals.
- Engineering and Land Use Offices – Additional staff are required to perform technical review of land use permits due to volume and complexity of work. Performing site inspections before permit issuance, during construction, and prior to Certificate of Occupancy are a critical component for compliance.

As mentioned in Section 4.3.5.7, the City recently started implementing a software tracking program using field tablets for tracking catch basin inspection, cleaning and repair progress. The MS4 Front software was brought on-line in October 2014.

Additional software and equipment needs will be assessed during the coming year and requested in the City's next fiscal year budget as appropriate.

Appendix A

Definitions

DEFINITIONS

"BMPs" or "Best Management Practices" means either structural or engineered control devices and systems (e.g. retention ponds) to treat polluted stormwater, as well as operational or procedural practices (e.g. minimizing use of chemical fertilizers and pesticides).

"Commissioner" means the commissioner as defined by section 22a-2(b) of the Connecticut General Statutes.

"CTDEEP" or "DEEP" means the Connecticut Department of Energy and Environmental Protection, whose mission is to conserve, improve and protect the air, water and other natural resources and environment of the State of Connecticut while fostering sustainable development.

"DCIA" or "Directly Connected Impervious Area" means that part of the total impervious area that is hydraulically connected to the City of Stamford's MS4. DCIA typically includes streets, sidewalks, driveways, parking lots, and roof tops. DCIA typically does not include isolated impervious areas that are not hydraulically connected to the MS4 or otherwise drain to a pervious area.

"DOT" means the Connecticut Department of Transportation, who is responsible for the development and operation of highways, railroads, mass transit systems, ports and waterways in Connecticut.

"DSSD" means the Downtown Special Services District, a Stamford, CT Business Improvement District, that was established in 1992. Its mission is to manage, enhance and promote the Downtown experience

"EPA" means the United States Environmental Protection Agency, whose mission is to protect human health and the environment.

"EPB" means the City of Stamford's Environmental Protection Board.

"GIS" or "Geographic Information System" is a system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data.

"HHW" or "Household Hazardous Waste" means post-consumer waste which qualifies as hazardous waste when discarded. It includes household chemicals and other substances for which the owner no longer has a use, such as consumer products sold for home care, personal care, automotive care, pest control and other purposes.

"IDDE" or "Illicit Discharge Detection and Elimination" means a program to detect and eliminate existing illicit discharges and to prevent future illicit discharges.

"IDDP" or "Illicit Discharge Detection Protocol" means a protocol established to identify, prioritize and investigate separate storm sewer catchments for suspected illicit discharges of pollutants.

"Illicit Discharge" means any discharge to the MS4 that is not composed entirely of stormwater, with the exception of discharges authorized by another NPDES Permit, or discharges described in the "Non-Stormwater Discharges" section (Section 4(A)(3)) of the permit.

"Impaired Waters" means those surface waters of the state designated by the Commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

"LID" or "Low Impact Development" means land planning and engineering design approach to manage stormwater runoff. LID emphasizes conservation and use of on-site natural features to protect water quality.

"MS4" or "Municipal Separate Storm Sewer System" means a conveyance, or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains, which is or are (i) owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as sewer districts, flood control districts or drainage districts, or similar districts, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the state; (ii) designed or used for collecting or conveying stormwater; (iii) which is not a combined sewer; and (iv) which is not part of a POTW.

"NOV" or "Notice of Violation" means a notice provided by the CTDEEP informing the permittee that a violation of law has occurred.

"NPDES Permit" or "National Pollutant Discharge Elimination System Permit" means the program authorized by the Clean Water Act which controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

"Outfall" means the discharge point of a waste stream into a body of water.

"PHFs" means pesticides, herbicides and fertilizers.

"Point Source" means any discernible, confined and discrete conveyance (including, but not limited to any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

"POTW" or "Publicly Owned Treatment Works" means sewage treatment plants.

“Reporting Period” refers to the period of time that the Annual Report is based on. In this report it pertains to July 1, 2023 through June 30, 2024.

“SMD” or *“Stormwater Management Department”* is responsible for the development and implementation of stormwater management practices to protect the environment and public infrastructure in line with applicable regulatory authorities

“SMP” or *“Stormwater Management Plan”* sets forth a program to provide for the implementation of specific control measures, stormwater monitoring, illicit discharge detection and elimination, and other appropriate means to control the quality of the authorized discharge.

“SPRP”, “SP&R Plan” or *“Spill Prevention and Response Plan”* means a plan to prevent, contain and respond to spills entering the MS4.

“Stormwater” means waters consisting of rainfall runoff, including snow or ice melt during a rain event, and drainage of such runoff.

“SWPCA” or *“Stamford Water Pollution Control Authority”* controls the City of Stamford Water Pollution Control Facility, which processes wastewater from the City and the neighboring Town of Darien, and discharges clean water into the East Branch of Stamford Harbor.

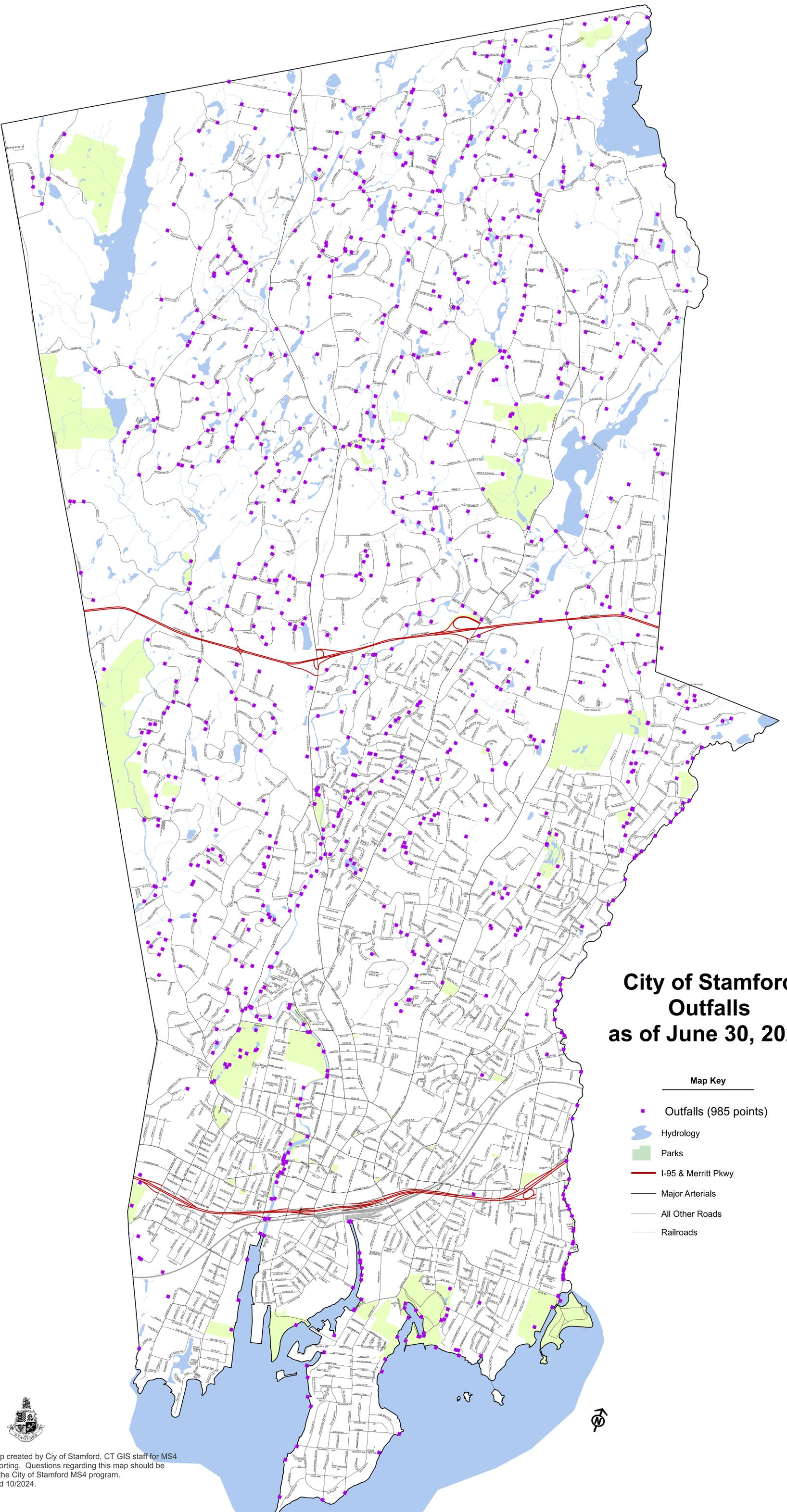
Appendix B

Stormwater Management Plan Summary Table

Appendix B is intentionally left blank.

Appendix C

Updated City Outfall Locations Map



City of Stamford Outfalls as of June 30, 2024

- Map Key**
- Outfalls (985 points)
 - Hydrology
 - Parks
 - I-95 & Merritt Pkwy
 - Major Arterials
 - All Other Roads
 - Railroads

Notes: Map created by Ciy of Stamford, CT GIS staff for MS4 annual reporting. Questions regarding this map should be directed to the City of Stamford MS4 program. map created 10/2024.



Appendix D

2023-2024 Spills

City of Stamford MS4 #CT0030279

Spills and Leaks 7/1/23 - 6/30/2024



| Date | Address / Location | Material Spilled | Quantity Released | Receiving Stream | Notes |
|------------|--|------------------|--|---|---|
| 8/16/2023 | 406 West Main St. at Roosevelt Ave. | Gasoline | 26 gallons dispensed from pump. Some went into vehicle and remainder went on the ground. | Rippowam River | Spill occurred at gas station, when fuel pump was ripped off the pump by a customer. Report of fuel on ground. SFD responded. CT DEEP also responded and oversaw spill mitigation work. Reported that fuel did not enter any catch basins. |
| 10/3/2023 | 296 Bedford St. | Cooking grease | Unknown | Long Island Sound | Appeared to be used cooking oil/grease which was spilled on pavement. Did not enter a catch basin. Area was power washed and all wash waters recovered and discharged to WPCA sanitary conveyance. |
| 12/15/2023 | Canal St. between S. State St. and Jefferson St. | Hydraulic Oil | 10 gallons | Long Island Sound (DIS-74 & DIS-1347) at East Branch Stamford Harbor at Jefferson St. | Hydraulic oil on road. Area sanded by Highway Dept. on 12/15. Material swept up and properly disposed of by Highway Dept. 12/16. SFD contacted CT DEEP regarding the incident. Hydraulic oil did not reach any catch basins. |
| 1/19/2024 | Stamford Court House - 123 Hoyt St. | Diesel Fuel | Unknown | Long Island Sound (DIS-74 & DIS-1347) at East Branch Stamford Harbor at Jefferson St. | SMD reported to National Response Center: NRC#1389359. Leak of diesel fuel from generator to ground. Fuel ran into nearest catch basin at courthouse parking lot. SFD and CT DEEP responded. Contractor working for CT DEEP installed boom at outfalls to capture and recover any remaining product. Boom was recovered by CT DEEP after a few weeks. |

Appendix E

2023-2024 Pesticide, Fertilizer, and Herbicide Use

Sterling Farms Golf Course Nitrogen Totals up to June 30, 2024

| | Greens (4 Acres) | Total | Tees (3.5 Acres) | Total | Fairways (23 Acres) | Total | Rough (10 Acres) | Total |
|----------|------------------|-------|------------------|-------|---------------------|-------|------------------|-----------|
| Granular | None | None | None | None | None | None | 1 LB/N/m | 400 LBS N |
| Liquid | 2.5 lbs/N/m | | 1.5 lbs/N/m | | 1.5 lbs N/m | | n/a | |

Nitrogen Application by site For E Gaynor Brennan Golf Course 7/1/2023-6/30/2024

Greens 4 Acres 176,000 sq ft

| | | Total Product | Total N |
|------------------|----------|---------------|-----------------------|
| 7 7 7 | Granular | 1000# | 70 |
| Classic 18-0-6 | liquid | 30 gal | 55.8 |
| 28-8-18 | soluble | 400# | 112 |
| extra iron 6-0-0 | liquid | 15 gal | 16.8 |
| 12 1 1 | Granular | 500# | 60 |
| | | | Total GR 314.6 |

Tees 2 Acres 88,000 sq ft

| Product | | Total product | Total N |
|----------|----------|---------------|------------------------|
| 15-0-15 | Granular | 1400 | 210 lbs |
| nitro 28 | liquid | 10 gal | 29.2 |
| 21-22-4 | Granular | 400 | 84 |
| | | | Total Tee 323.2 |

Fairways 18 Acres

| Product | | Total product | Total N |
|------------|---------|---------------|------------------------|
| 28-8-18 | soluble | 1000 # | 280 |
| Nitro-28 | liquid | 60 gal | 175.2 |
| extra Iron | liquid | 40 gal | 35.6 |
| | | | Total FWY 490.8 |

Roughs/Green Banks

| Product | | Total product | TOTAL N |
|---------|----------|---------------|----------------------|
| 30-0-10 | Granular | 1200 | 360 lbs |
| | | | Total RGH 360 |

Total YR 1488.6 lbs

Appendix F

2023-2024 Environmental Protection Board Summary Table

Stamford Environmental Protection Board - Fiscal Year 2023-2024

The Stamford Land Use Bureau's Environmental Protection Board (EPB) has a range of regulatory responsibilities, including issuing special permits for development activities on properties with inland wetlands and watercourses, and in special flood hazard areas outside the Coastal Management boundary. The EPB also provides technical reviews of the potential environmental impact of subdivisions, coastal and other site plans, variances, special permits, drainage and erosion control plans, utility installations, activities in deeded open space areas, and public points of access to Stamford's waterfront and shoreline. In cooperation with other City departments, EPB staff inspect development projects to ensure conformance with issued permits, approvals, and City standards, and the office acts as the City's designated liaison with State and Federal officials on matters related to wetlands, floodplains, and coastal management. Four full-time technical employees staff the EPB – the Executive Director and three Environmental Analysts.

In Fiscal Year 2023-24, EPB staff reviewed approximately 1,160 applications for building permits and evaluated 149 formal applications made to the EPB and the other Land Use boards for compliance with EPB-administered regulations. These applications included numerous projects of value and interest to the public, including park improvement projects, city bridge replacement projects, and large private developments. Hyperlinks in the EPB meeting agendas allow interested parties to access EPB staff reports along with the plans and other materials submitted by applicants.

During FY 2023-24, EPB staff fielded thousands of phone calls and emails from citizens, professionals, and other individuals with questions about specific projects and properties or general wetland, flood zone, and other environmental issues. Staff participate in the biweekly walk-in permit sessions that are held on the 7th floor of the Government Center. EPB staff also provide important administrative support to the other Land Use boards and the Engineering Bureau by annually processing hundreds of performance bonds and drainage and landscaping maintenance agreements.

EPB staff conducted hundreds of site inspections in FY 2023-24 to assess compliance with issued approvals or investigate reports of unauthorized regulated activities. A number of enforcement actions were formally brought before the Board during FY 2023-24 to restore adverse environmental impacts discovered by staff during these site inspections. In an effort to reduce environmental impacts from occurring in the first place, the EPB uses lists of single-family home sales periodically provided by the Assessor to send informational material to new owners of properties containing wetlands, watercourses, and conservation easement areas describing the rules which apply to activities in and adjacent to these resources.

In FY 2023-24, the EPB began its first comprehensive revision of the Stamford Inland Wetland and Watercourses Regulations in almost 20 years. The draft regulations that were developed through an iterative process involving the members of the Board and staff were approved by the EPB in June after a public hearing was held on June 13th. These regulations were then forwarded to the Stamford Board

of Representatives for their approval per Chapter 6, Article V, Sec. 6-24C of the Stamford Code of Ordinances.

In support of the EPB role as the City's Flood and Erosion Control Board, in early 2024 staff compiled and submitted the annual documentation needed by the Federal Emergency Management Agency for Stamford to maintain its Class 7 standing in the Community Rating System of the National Flood Insurance Program. The NIPF rewards Stamford for the reduction in the City's flood risk that results from our consistent adherence to floodplain management standards by giving a 15% premium discount to our flood insurance policy holders. The EPB also conducts annual educational outreach to the public about flood preparedness and provides technical advice to individuals regarding flood proofing measures they might employ to protect their properties.

Appendix G

City Staff Training Events Sign-In Sheets



Employee Training
Stormwater Pollution Prevention Plan (SWPPP)

City of Stamford

Date of Training: March 19, 2024

20

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|-------------|-------------------------|
| 1 | AARON TURNER | | Highways |
| 2 | ERIC ADAMS | | " " |
| 3 | James Taylor | | Highways |
| 4 | Wendell Christian | | Highways |
| 5 | ROBERT BUZZEO | R Buzzeo | HIGHWAYS |
| 6 | Chris Rivera | | Stormwater |
| 7 | Daniel Gonzalez | | Stormwater |
| 8 | JOHN ANTONUCCI | | STORMWATER |
| 9 | P. Mardi | P Mardi | Highways |
| 10 | Liam Kenny | | Stormwater |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
Connecticut General Statutes (CGS) Section 22a-430-3b:
Site's Stormwater Pollution Prevention Plan (SWPPP)
SWPPP Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Printed Name

Signature

Fuss & O'Neill, Inc



Employee Training
Stormwater Pollution Prevention Plan (SWPPP)

City of Stamford

Date of Training: March 19, 2024

20

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|-------------------|-------------------------|
| 1 | Joy Hoyt | Joy Hoyt | Stormwater |
| 2 | Dylan Pellini | Dylan Pellini | Stormwater |
| 3 | John Cornelio Jr | John Cornelio Jr | Stormwater |
| 4 | Jose Cruz | Jose Cruz | HIGHWAYS |
| 5 | Michael Estremera | Michael Estremera | storm water ✓ |
| 6 | Martos D | Martos D | Highways |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
Connecticut General Statutes (CGS) Section 22a-430-3b:
Site's Stormwater Pollution Prevention Plan (SWPPP)
SWPPP Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield

Printed Name

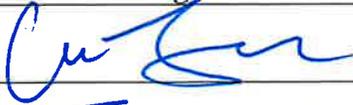
Signature

Fuss & O'Neill, Inc

**Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford**

Date of Training: March 19, 2024
20

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|--|-------------------------|
| 1 | AARON TURNER |  | Highways |
| 2 | ERIC ADAMS |  | " " |
| 3 | James Taylor |  | Highways |
| 4 | Wendell Christian |  | Highways |
| 5 | ROBERT BUZZEO |  | " " |
| 6 | Chris Rivera |  | Stormwater |
| 7 | Daniel Gonzalez |  | Stormwater |
| 8 | JOHN ANTONUCCI |  | STORMWATER |
| 9 | P. Mardi |  | Highways |
| 10 | Dylan Pellini |  | Stormwater |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill



Printed Name



Signature

Fuss & O'Neill, Inc

**Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford**

Date of Training: March 19, 2024
20

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|--------------------------|-------------------------|
| 1 | Joey Hoyt | <i>Joey Hoyt</i> | Stormwater |
| 2 | Liam Kenny | <i>Liam Kenny</i> | Stormwater |
| 3 | John Cornelio Jr | <i>John Cornelio Jr.</i> | Stormwater |
| 4 | Jose Cruz | <i>Jose Cruz</i> | HIGHWAYS |
| 5 | Michael Estremera | <i>Michael Estremera</i> | stormwater |
| 6 | Markos D | <i>Markos</i> | Highways |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield

Printed Name

[Signature]

Signature

, Fuss & O'Neill, Inc



Employee Training

Universal Waste

City of Stamford

Date of Training: March 19, 2024

20

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|-------------|-------------------------|
| 1 | AARON TURNER | | Highways |
| 2 | ERIC ADAMS | | " " |
| 3 | James Taylor | | Highways |
| 4 | Wendell Christian | | Highways |
| 5 | ROBERT BUZZEO | | " " |
| 6 | Chris Rivera | | Stormwater |
| 7 | Daniel Gonzalez | | Stormwater |
| 8 | JOHN ANTONUCCI | | STORMWATER. |
| 9 | P. Mardi | | Highways |
| 10 | Dylan Pellini | | Stormwater |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Printed Name

Signature

Fuss & O'Neill, Inc



Employee Training
Universal Waste
City of Stamford
Date of Training: March 19, 2024
ad

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|-------------------|-------------------|-------------------------|
| 1 | Joey Hoyt | Joey Hoyt | Stormwater |
| 2 | Liam Kenny | Liam Kenny | Stormwater |
| 3 | John Cornelio Jr. | John Cornelio Jr. | Stormwater |
| 4 | Jose Cruz | Jose Cruz | HIGHWAYS |
| 5 | Michael Estremera | Michael Estremera | Stormwater |
| 6 | Markos D | Markos D | Highways |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield

Printed Name

Signature

Fuss & O'Neill, Inc



Employee Training
Stormwater Pollution Prevention Plan (SWPPP)

City of Stamford

Date of Training: March 21, 2024

Attendees Sign-In: John Moore

Highways

| | Name Printed | Name Signed | Company / Work Function |
|----|---------------------|---------------------|-------------------------|
| 1 | Kevin Dawkins | Kevin Dawkins | Highway |
| 2 | Anthony Nowlin | | Highway |
| 3 | To Loy | | Road Maintenance |
| 4 | JEAN PROSPER | JL | HIGHWAYS |
| 5 | Derek Aime | | Highway |
| 6 | Bob Loffredo | | Highways |
| 7 | Hamlet Castilo | | H. Shways |
| 8 | Tom Fabricatore | Tom Fabricatore | HIGHWAYS |
| 9 | Philip Cornelio III | Philip Cornelio III | Highways |
| 10 | Shkodran Hoti | | Highways |

Training Location: Aaron Moses
 City of Stamford - Highway Department
 100 Magee Avenue
 Stamford, CT
 Christopher Mohammed

Highway Dept.
 Highways
 Highways

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
 Connecticut General Statutes (CGS) Section 22a-430-3b:
 Site's Stormwater Pollution Prevention Plan (SWPPP)
 SWPPP Training Power Point Presentation (by F&O)

Training Facilitator: Timothy Hinton
 Joseph Coplan
 Justin Penfield, P.E., Fuss & O'Neill
 Demetrius

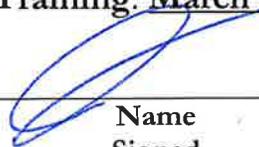
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 Highway

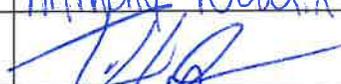
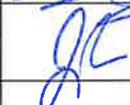
Justin Penfield
 Printed Name

Signature

Fuss & O'Neill, Inc

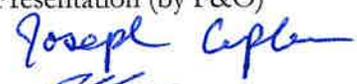
**Employee Training
Stormwater Pollution Prevention Plan (SWPPP)
City of Stamford
Date of Training: March 21, 2024**

Attendees Sign-In: John Moore  Highways

| | Name Printed | Name Signed | Company / Work Function |
|----|---|---|-------------------------|
| 1 | Kevin Dawkins |  | Highway |
| 2 | Anthony Noutin |  | Highway |
| 3 |  |  | Road work |
| 4 | JEAN PROSPER |  | Highways |
| 5 | Derek Aime |  | Highway |
| 6 | AL TRIAHILO |  | HIGHWAY |
| 7 | MIKE DOMANICK |  | ' ' |
| 8 | David Plunkett |  | Highway |
| 9 | Arthur Springer |  | Highway |
| 10 | Aaron Moses |  | Highway Dept |

Training
Location: City of Stamford – Highway Department
 100 Magee Avenue
 Stamford, CT
Kevin Moses
Christopher Mohamed

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
 Connecticut General Statutes (CGS) Section 22a-430-3b:
Site's Stormwater Pollution Prevention Plan (SWPPP)
 SWPPP Training Power Point Presentation (by F&O)

Joseph Copley  Highway Dept
Joseph Copley

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
 Printed Name Signature

**Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford
Date of Training: March 21, 2024**

Attendees Sign-In: John Moore

| | Name Printed | Name Signed | Company / Work Function |
|----|----------------------------|--|---|
| 1 | <u>T. Hod</u> |  | <u>Highway</u> <u>Road Maintenance</u> |
| 2 | <u>Derek Aime</u> |  | <u>Highway</u> |
| 3 | <u>Rob Loffredo</u> |  | <u>Highways</u> |
| 4 | <u>Rambet Castillo</u> |  | <u>H/D</u> |
| 5 | <u>Tom Fabricatore</u> |  | <u>Highways</u> |
| 6 | <u>Philip Cornelio III</u> |  | <u>Highways</u> |
| 7 | <u>Shikadran Moti</u> |  | <u>Highways</u> |
| 8 | <u>AL TRICHILO</u> |  | <u>HIGHWAY</u> |
| 9 | <u>Mike Donaud</u> |  | <u>✓</u> |
| 10 | <u>Aaron Moses</u> | <u>Aaron Moses</u> | <u>Highway Dept</u> |

Timothy Hinton
Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Timothy Hinton
Kevin Woods
Christopher Mohammed

Highway
Highways
Highways

Resources: US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

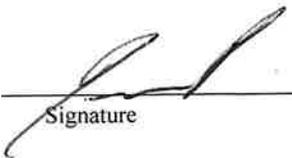
Joseph Coplew
Training

Joseph Coplew

Highway Dept
Department

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield
Printed Name


Signature, Fuss & O'Neill, Inc

**Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford
Date of Training: March 21, 2024**

Attendees Sign-In: *John Moore*

Highways

| | Name Printed | Name Signed | Company / Work Function |
|----|--------------------|---------------------------|-------------------------|
| 1 | Kevin Dawkins | <i>Kevin Dawkins</i> | Highway |
| 2 | Anthony Nowlin | <i>Anthony Nowlin</i> | Highway |
| 3 | <i>To Hoyt</i> | <i>[Signature]</i> | Road Marking |
| 4 | Jean Prospera | <i>Jean Prospera</i> | Highways |
| 5 | Mike Domande | <i>[Signature]</i> | " " |
| 6 | Aaron Moses | <i>Aaron Moses</i> | Highway Dept |
| 7 | Arthur Springer Jr | <i>Arthur Springer Jr</i> | Highway Dept |
| 8 | Timothy Hinton | <i>Timothy Hinton</i> | Highway |
| 9 | Joseph Cople | <i>Joseph Cople</i> | Highway |
| 10 | Kevin Cuevas | <i>Kevin Cuevas</i> | Highways |

Christopher Mohammed
Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: *Demetrius Lee* *USA* *Highway*
US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield
Printed Name

Signature

Fuss & O'Neill, Inc

Employee Training
Universal Waste
City of Stamford
Date of Training: March 21, 2024

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|---------------------|----------------|----------------------------|
| | John Moore | | Highways |
| 1 | T. Lopez | | Road Maintenance |
| 2 | Derek Alme | | Highway |
| 3 | Rob Loffredo | | Highways |
| 4 | Harriet Castillo | | Highways |
| 5 | Tom Fabricatore | | Highways |
| 6 | Philip Cornelio III | | Highways |
| 7 | Shkodran Hoti | | Highways |
| 8 | ALTRICHILO | | HIGHWAY |
| 9 | Milce Domawick | | " |
| 10 | Aaron Moses | | Highway |

Training

Location:

Kevin Cuevas
 City of Stamford – Highway Department
 100 Magee Avenue
 Stamford, CT

Christopher Mohammed

Highways
 Highways

Timothy Hinton

Highway

Resources:

US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
 Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
 Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Joseph Cople

Highway
 # body

Training

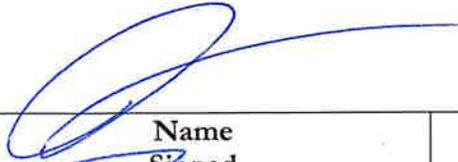
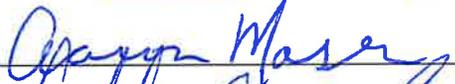
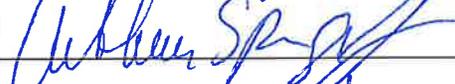
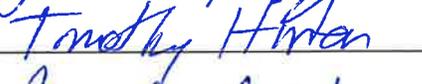
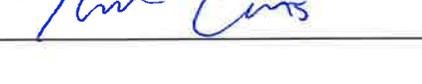
Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield
 Printed Name

, Fuss & O'Neill, Inc
 Signature

**Employee Training
Universal Waste
City of Stamford
Date of Training: March 21, 2024**

Attendees Sign-In:

| | Name Printed | Name Signed | Company / Work Function |
|----|----------------------|--|-------------------------|
| | John Moore |  | Highways |
| 1 | T. Boyd |  | Road Maintenance |
| 2 | MIKE DOMANIL |  | Highway Dept |
| 3 | Aaron Moses |  | Highway Dept |
| 4 | Arthur Springer Jr |  | Highway Dept |
| 5 | Timothy Hirtan |  | Highway |
| 6 | Joseph Coplew |  | Highway's |
| 7 | Kevin Cuevas |  | Highways |
| 8 | Christopher Mohammed | | Highways |
| 9 | Demitrios Lopez |  | Highway |
| 10 | | | |

Training

Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Training

Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield
Printed Name

, Fuss & O'Neill, Inc
Signature

Appendix H

2023-2024 Catch Basin / Manhole Repairs List

Catch Basin & Manhole Repair Master List 2023-2024 Annual Report (7/1/23 - 6/30/24)

| Service Request # GovQA | Date | Location/Address | Reported or Observed Issue | Status | Date | Repair Date |
|-------------------------|----------|---|---|--------------------|------------|-------------|
| | 02/01/17 | 1 Harbor View Ave (Solid Waste) | Basin repair (TT) Near semi scale/seawall. PLATED - PRIORITY - by Dec. 2023 | Sent to Cavaliere | 10/2/2023 | 10/18/2023 |
| | 02/01/17 | Davenport St at Greenwich Ave | Basin repair (TT) Near WPCA pump station.-Drainage work per TTP roundabout | Sent to Grasso | | 8/28/2023 |
| | 11/20/19 | 277/266 Skyview Drive | Replace curtain drain. CCTV 11/7/19. Collapsed and unable to jet. Replace in kind. Major icing winter 18/1 | Sent to Cavaliere | 6/15/2023 | 7/27/2023 |
| | 10/08/21 | 101 Indian Hill Rd. at Bayberrie Dr. | CB Repair - Hole at CB. Cone in place as of 10/8/21 | Sent to Cavaliere | 6/15/2023 | 8/1/2023 |
| | 10/15/21 | 11 Viaduct Rd. | CB Repair - hole at CB. Reported J. Taylor. Cone placed 10/15/21. Needs top reset. | Sent to Grasso | 1/26/2023 | 7/29/2023 |
| | 02/10/22 | 28 Bell St. | CB Repair - CB needs repairs. Replace Conc. apron. PLATED | Sent to Arnow | 7/8/2022 | 8/22/2023 |
| | 06/06/22 | 76 Givens Ave. | CB Repair - hole at CB. Total rebuild. Barrel 6/3/22 | Sent to Arnow | 7/8/2022 | 8/22/2023 |
| | 06/16/22 | 1527 Bedford St. at Third St. | CB Repair - hole at CB. Left Barrel. | Sent to Arnow | 7/8/2022 | 8/22/2023 |
| | 07/08/22 | 23 Rose Park Ave. | CB Repair - hole at CB. Cone 7/1/22 reported M.E. Replace w/ new precast sump | Sent to Cavaliere | 6/15/2023 | 8/5/2023 |
| | 07/13/22 | 566 Newfield Ave. | CB Repair - hole at CB. Barrel 7/12/22. | Sent to Arnow | 8/2/2022 | 8/22/2023 |
| | 07/27/22 | 59 Mathews St. | CB Repair - Holes at CB. Double Basin. 2 Barrels in place 7/27/22. Reported J. Hoyt. | Sent to Arnow | 8/2/2022 | 8/22/2023 |
| | 07/28/22 | 57 / 63 Mohawk Trail | MH Repair - Frame cracked in 2 spots. Replacemnt needed. Set to grade.Reported M.E. | Sent to Grasso | 8/29/2023 | 10/16/2023 |
| | 09/02/22 | 366 Ocean Drive West | CB Repair - Hole at CB. Tall cone and cone placed | Sent to Cavaliere | 8/1/2023 | 10/2/2023 |
| 25927 | 09/08/22 | 57 Brookhollow Lane | CB Repair - Hole at CB. Barrel in place. PRIORITY | Sent to Cavaliere | 8/1/2023 | 9/29/2023 |
| | 09/16/22 | 79 Finney Lane | CB Repair - Hole at CB. T. Theder observed. Left tall cone. Water barrier 10/17/23. PRIORITY | Sent to Cavaliere | 11/6/2023 | 12/7/2023 |
| | 11/15/22 | 295 Woodbine Rd. | Culvert Pipe Replacement - Rocks, roots, JOL's, replace entire length (40') w/ new 12" SDR pipe | Sent to Cavaliere | 2/16/2024 | 6/15/2024 |
| | 11/28/22 | 56 Mather Rd. | CB & MH Repair - install new precast MH and two (2) new sumps and cast iron tops and frames. Barrel on | Sent to Cavaliere | 1/10/2024 | 5/29/2024 |
| | 11/29/22 | 45 Mohawk Trail | CB Repair - hole at CB. Cone in place. Total rebuild. | Sent to Grasso | 8/29/2023 | 10/16/2023 |
| | 12/01/22 | 905 Long Ridge Rd. on Maltbie Ave. | CB Repair - hole at CB. Barrel in place. Reset existing cast iron CB top. Sump OK | Sent to Cavaliere | 6/5/2023 | 7/25/2023 |
| | 12/07/22 | 21/29 Yale Ct. | CB Repair - Hole at CB. Barrel placed ME. CI top reset. Sump is OK. | Sent to Grasso | 12/1/2023 | 2/10/2024 |
| | 12/08/22 | 29 Rock Rimmon Lane | Culvert/Pipe/Headwall Repair- Pipe separated at leakoff. Headwall sinking. EPB permit req'd? Barrel placed | Sent to Grasso | 9/11/2023 | 11/13/2023 |
| | 12/19/22 | 55 Waterford Ln. at Eighth St. | CB Repair - Top replacement. Check sump | Sent to Cavaliere | 2/16/2024 | 3/11/2024 |
| | 02/03/23 | 32 Mead St. | MH Repair - paved over and located in sidewalk.Markey tree removal 3/23. Raise MH, fix walk. | Sent to Cavaliere | 8/1/2023 | 8/14/2023 |
| | 02/08/23 | 95 Kenilworth Drive West | CB Repair - Total rebuild. Needs new sump. Barrel 1/3/23. Reset exist CI top | Sent to Cavaliere | 2/16/2024 | 4/8/2024 |
| | 02/27/23 | Opposite 33 Sea Beach | CB Repair - Replace top and frame w/ C.I. curb back. Sump OK. Barrel 2/27/23 | Sent to Cavaliere | 6/15/2023 | 7/29/2023 |
| | 03/07/23 | 409 Oaklawn Ave. | CB Repair - Grate/Frame loose. Hole at CB. Assess for repairs. PRIORITY | Sent to Cavaliere | 10/2/2023 | 10/13/2023 |
| | 04/10/23 | 40 Riverside Ave. | CB/Pipe/MH Frame and CIP Apron and sidewalk repair. JOL's in pipe caused settling. PRIORITY -OCTOBE | Sent to Cavaliere | 5/21/2024 | 6/17/2024 |
| | 04/13/23 | 509 Glenbrook Rd. | CB Repair - Hole @double CB.Total rebuild.Reset ex.Top&frames.Repl.MHAdjacent.Sidewalk behind Barr | Sent to Cavaliere | 1/10/2024 | 2/22/2024 |
| 28156 | 04/18/23 | 141 Franklin St. at Hoyt St. | CB Repair - Hole CB.Blocks falling in.Frame loose. Total rebuild.Reset ex.Top&frame.Barrel in place. | Sent to Cavaliere | 11/6/2023 | 12/15/2023 |
| | 04/27/23 | 696 Hope St. | CB Repair - CDOT frame/grate dropped in.Total rebuild.needs new C.I. curb back/new sump.water barrier. | Sent to Cavaliere | 6/15/2023 | 8/14/2023 |
| | 05/08/23 | 33 Heritage Lane | CB Repair - Total rebuild - wall caving in. Replace w/ CI grate and top.Barrel 5/8/23 | Sent to Cavaliere | 2/16/2024 | 6/5/2024 |
| | 05/11/23 | 83 Morgan St. (on Third St. - South curb line) | CB Repair - Total rebuild. New sump box. New CI curb back, top and frame. Barrel 5/10/23 | Sent to Cavaliere | 10/2/2023 | 11/13/2023 |
| | 05/24/23 | 570 Fairfield Ave. | MH Repair - Non-standard cover and rusted shut. Refr. frame and cover | Sent to Cavaliere | 2/16/2024 | 2/23/2024 |
| | 05/25/23 | 24 Daffodil Rd. | CB Repair - Hole next to CB. Cone in place 5/25/23 | Sent to Cavaliere | 10/2/2023 | 10/19/2023 |
| | 06/14/23 | 537 Canal St. at Market St. (CVS corner) | CB Repair - Hole next to CB. Barrel 6/14/23. Top reset only. Sump OK. | Sent to Cavaliere | 10/2/2023 | 10/30/2023 |
| | 06/16/23 | On Broad St. at Summer St. (south side of Rd.) | MH Repair - Frame hit/cracked/broken. Emergency call to highways 1am. PLATED | Sent to Grasso | 6/16/2023 | |
| | 06/26/23 | 38 Lockwood Ave. | CB Repair - Hole next to cast iron CB. Barrel placed ME 6/22/23 | Sent to Cavaliere | 8/1/2023 | 10/9/2023 |
| | 06/26/23 | 50 Vincent Ave. | MH Repair - Frame hit/cracked/broken.Needs new frame/cover PRIORITY | Sent to Cavaliere | 7/11/2023 | 7/13/2023 |
| | 06/30/23 | Cove Island - Front Parking Lot near water | CB Repair - Hole near CB.Barrel 6/29/23. Sump OK. Just needs top reset. | Sent to Cavaliere | 1/10/2024 | 1/26/2024 |
| | 07/07/23 | Broad St. at Summer St. | MH Repair - Asph. Pymt.@MH repair settled.Need sawcut, resphalt, & road plate for few days | Sent to Cavaliere | 4/22/2024 | 5/1/2024 |
| | 07/11/23 | 111 Prospect St. | MH Repair - Frame hit/cracked/broken.Needs new frame/cover PRIORITY | Sent to Cavaliere | 7/11/2023 | 7/13/2023 |
| | 07/12/23 | Charles St. @ Dean St. Intersection | Drainage redesign. New MH, build new/replace CB's and new piping | Sent to Cavaliere | 8/1/2023 | 9/5/2023 |
| | 07/13/23 | #50/51 Carriage Drive South | Pipe replacement - replace two (2) 12"RCP laterals w/ new SDR. 60 LF total | Sent to Cavaliere | 8/1/2023 | 10/10/2023 |
| | 07/13/23 | 111 McIntosh Rd. | Reconnect piping from adjacent wets to CB. Pipe not reconnected by Eng. Bureau 2014 | Sent to grasso | 7/13/2023 | 8/30/2023 |
| | 07/20/23 | 72 Halloween Blvd. | CB Repair - Hole next to CB.Total rebuild.Barrel placed ME. PRIORITY | Sent to Cavaliere | 11/6/2023 | 11/27/2023 |
| | 07/27/23 | 39 Redmont Rd. | CB Repair - Hole next to CB.Barrel placed ME. | Sent to Cavaliere | 2/16/2024 | 3/8/2024 |
| | 08/01/23 | 345 Pepper Ridge Rd. - Newfield Elem. School | Pipe Repair - Eversource drilled through 15"RCP. Need at least 12" new SDR and 2 femcos to fix. | Sent to Cavaliere | 8/1/2023 | 8/23/2023 |
| | 08/17/23 | 20 Arden Ln. | CB Repair - collapsing. Reset existing top. In driveway.Unable to plate. PRIORITY | Sent to Cavaliere | 10/2/2023 | 10/18/2023 |
| | 08/18/23 | 21 Crane Rd. | Pipe Repair - CCTVwork on 8/17/23. Replace 35' 12" RCP w/ SDR-35 from CB to MH | Sent to Cavaliere | 10/2/2023 | 10/11/2023 |
| | 08/18/23 | 28 Adams Ave. on Vista St. | CB Repair - hole at CB.Barrel 8/18/23. Need new sump. Reset exist.CI curb back & frame | Sent to Cavaliere | 2/16/2024 | 5/3/2024 |
| | 08/19/23 | 99 Van Rensselaer Ave. | MH Repair - Needs New frame and cover. Barrel 8/8/23 | Sent to Cavaliere | 9/5/2023 | 9/7/2023 |
| | 08/22/23 | 23 Kensington Rd. | CB Repair - hole at CB. Double CB. conc.top.Tall cone 8/22/23. | Sent to COS | 8/31/2023 | 8/31/2023 |
| | 08/23/23 | 4 Carolina Rd. at Merrell Ave. | CB Repair - hole at CB. Reset exist. Top and frame. Sump ok. Barrel 8/23/23 | Sent to Cavaliere | 11/6/2023 | 12/8/2023 |
| | 08/28/23 | 57 Buckingham Dr. | CB Repair - hole at CB. Reset exist. CI top. Barrel 6/20/23 | Sent to Cavaliere | 10/2/2023 | 10/20/2023 |
| | 09/06/23 | 122 Maple Ave. | CB Repair - hole at CB. Double CB. Reset of ex. Top & frame. PLATED 9/6/23. Inspect pipe to MH. | Sent to Cavaliere | 10/2/2023 | 12/7/2023 |
| | 09/11/23 | 49 Alexandra Dr. (West of Driveway) | CB Repair - hole at CB. Tota rebuild. Replace precast conc flat top w/ C.I. Barrel 9/11/23 | Sent to Cavaliere | 1/10/2024 | 2/13/2024 |
| | 09/15/23 | Opposite 12 Camp Ave. - South side of road | MH Repair - 1st storm MH sinking. Needs a reset | Sent to Cavaliere | 11/6/2023 | 11/28/2023 |
| | 09/21/23 | 699 Canal St. - South entry to Fairway | CB Repair - Hole at CB. PLATED. May need total rebuild and conc. Apron work. | Sent to Cavaliere | 10/2/2023 | 10/30/2023 |
| | 10/02/23 | 47 Elm Tree Place | MH Repair - old and damaged CDOT style frame/cover | Sent to Cavaliere | 10/2/2023 | 10/13/2023 |
| | 10/04/23 | 541 Hunting Ridge Rd. | CB Repair - hole at CB. Barrel 10/3/23. Unknown if new precast sump needed. | Sent to Grasso | 10/4/2023 | 10/18/2023 |
| | 10/10/23 | #143 / #161 Mill Rd. | Pipe Repair - Hole @ cmp in driveway #143.Replace segment. Excavate @ #161 - rock in pipe. Marked | Sent to Cavaliere | 11/6/2023 | 12/7/2023 |
| | 10/16/23 | 128 Weed Hill Ave. | MH Repair - Loud and low. Needs new frame and cover. PRIORITY | Sent to Cavaliere | 11/6/2023 | 11/16/2023 |
| | 10/17/23 | 298 West Main St. on Spruce St. | CB Repair - failing masonry total rebuild. Road to be repaved by ESG. | Sent to Cavaliere | 10/17/2023 | 11/13/2023 |
| | 10/17/23 | 290 West Main St. on Spruce St. | CB Repair - failing masonry total rebuild. Road to be repaved by ESG. | Sent to Cavaliere | 10/17/2023 | 11/13/2023 |
| | 10/18/23 | 143 / 161 Mill Rd | Pipe Repair - 2 spots. CMP in apron, possibly buried CB. Barrel on hole in apron. PRIORITY | Sent to Cavaliere | 11/6/2023 | 12/7/2023 |
| | 11/14/23 | On Orange St. at Lockwood Ave. - north curbline | CB Repair - concrete curb back cracked and broken. | Sent to Cavaliere | 1/10/2024 | 3/22/2024 |
| | 11/14/23 | 295 Woodbine Rd. | CB Repair - hole at CB. Top/grate needs reset. Sump condition unknown. 2 Barrels placed 11/14/23 | Sent to Cavaliere | 2/16/2024 | 6/15/2024 |
| | 11/16/23 | 15 Broad St. (west of target) | CB Repair - hole at CB. Top/grate needs reset. Tall cone in place 11/16/23 | Sent to Cavaliere | 1/10/2024 | 2/1/2024 |
| | 11/27/23 | 74 Nichols Ave. | MH Repair - was paved over. Hit during leaf pick up. Cone in place | Sent to Grasso? | 1/15/2024 | 3/28/2024 |
| | 11/29/23 | 55 Elm Tree Place | Pipe Repair - gas line through storm. Excavate, expose, verify utility, remove, and repair pipe | Sent to WPCA/vitti | | |
| | 11/30/23 | 195 Long Ridge Rd. on McClean Ave | CB Repair - hole at CB. Barrel in place | Sent to Cavaliere | 2/16/2024 | 4/12/2024 |
| | 12/22/23 | 10 Horshoe Lane on Thornridge Drive | CB Repair - hole at CB. Barrel in place. Reset existing cast iron CB top. Needs new sump box. | Sent to Cavaliere | 1/10/2024 | 1/26/2024 |
| | 01/03/24 | 64 Meadowpark Ave. East | CB Repair - hole at CB. Barrel in place. Needs new CI top and frame. Needs new sump. Total rebuild. | Sent to Cavaliere | 1/10/2024 | 1/19/2024 |
| | 01/06/24 | Lockwood Ave. at Orange St. | Pipe Repair - Replace 50' of 12" from MH5352 to MH 5351. Unable to jet and clear. Unable to CCTV. | Sent to Cavaliere | 1/10/2024 | 3/22/2024 |
| | 01/09/24 | 59 Meadowpark Ave. East | MH Repair - Needs new frame - hit by plow. Barrel in place 1/9/24. | Sent to Cavaliere | 1/10/2024 | 1/19/2024 |
| | 02/05/24 | 115 Cedar Heights Rd. | CB Repair - top sinking. Needs reset. Existing sump OK. Barrel in place ME | Sent to Cavaliere | 2/16/2024 | 5/3/2024 |
| | 02/14/24 | 34 West Bank Lane | CB Repair - CDOT style frame is missing. Total rebuild. PLATED. Cone in place | Sent to Cavaliere | 2/16/2024 | 3/8/2024 |
| | 03/06/24 | 1600 Summer St. at Second St. in Crosswalk | CB Repair - flat top at crosswalk. Broken asphalt. Frame loose. Unable to place barrel | Sent to Cavaliere | 5/21/2024 | 6/5/2024 |
| | 03/08/24 | 18 Cody Dr. | MH Repair - Paved over. Located CCTV and painted 3/8/24. Need to excavate and raise | Sent to Cavaliere | 3/8/2024 | 3/22/2024 |
| | 03/13/24 | 180 Colonial Rd. at Strawberry Hill Ave. | CB Repair - Convert to flat top - demo existing curb, improve turing radius, need apron 1-1/2" transition | Sent to Cavaliere | 3/22/2024 | |
| | 03/22/24 | Lockwood Ave. at Orange St. | MH Repair - Paved over. Located CCTV - on Lockwood under I-95 southbound. New frame & cover. | Sent to Cavaliere | 3/22/2024 | |
| | 03/26/24 | 5 Hunting Ridge Rd. at Long Ridge Rd. | CB Repair - hole at CB. Barrel 3/26/24. Needs new sump box, top and frame. PRIORITY | Sent to Cavaliere | 5/21/2024 | 7/23/2024 |
| | 03/28/24 | 24 Kensington Rd. | MH Repair - ring came out with cover. Total replacement. PLATED 3/28/24 | Sent to Cavaliere | 3/28/2024 | 4/1/2024 |
| | 04/26/24 | On Sound Ave. at Stamford Ave. | MH Repair - cover not secure in ring. Reported cover off. Barrel in place. | Sent to Grasso | 5/10/2021 | 6/4/2024 |
| | | | | | | |
| | | | Note: As of 12/10/2024, there were 84 repairs completed from this list, compared to 79 repairs completed during the 2022-2023 Reporting Period | | | |
| | | | Note: As of 12/10/2024, there are 103 Remaining / Outstanding Repair items (not shown on this list) compared to 98 outstanding repairs during the 2022-2023 Reporting Period. | | | |
| | | | Note: Work on this list performed by various contractors as noted and efforts supplemented by City Staff. | | | |
| | | | Note: Additional detail available as per invoices from contractors and city documentation. | | | |
| | | | Note: Additional repairs to MS4 Drainage completed by Grasso Construction as part of paving work do not appear on this list. | | | |

Appendix I

2023-2024 Culvert Cleaning List

City of Stamford - #CT0030279

Open Drainage Channel (Culvert Cleaning and Backhoe Work) 7/1/23 - 6/30/2024



| Date | Address / Location | Duration | Manpower | Quan. Of Material Removed | Receiving Waters | Notes |
|-----------------------|--|----------|---|--|---|---|
| 7/12/2023 | #494 Sawmill Rd. | 1/2 Day | 4 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 2 cubic yards - Sediment, brush and debris. | East Branch Mianus River / Mianus River | Cleaned and cleared sediment and rocks accumulated at inlet. |
| 7/17/2023 | #95 Saddle Hill Rd. | 1/3 Day | 4 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 4 cubic yards - Sediment, brush and debris. | Haviland Brook / Rippowam River | Cleaned and cleared sediment accumulated at inlet. |
| 7/17/2023 | #95 Saddle Hill Rd. | 1/3 Day | 4 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 2 cubic yards - Sediment, brush and debris. | Haviland Brook / Rippowam River | Cleaned and cleared sediment accumulated at inlet. |
| 7/18/2023 & 7/24/23 | #242 Old Long Ridge Rd. and Shagbark Rd. | 1/2 Day | 4 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 4 cubic yards - Sediment, brush and debris. | East Branch Mianus River / Mianus River | Cleaned and cleared sediment adjacent to wetlands. |
| 8/15/2023 | #73/#53 Mill Rd. on Mohawk Trail | 1/2 Day | 5 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 4 cubic yards - Sediment, brush and debris. | East Branch Mianus River / Mianus River | Cleaned and cleared sediment at inlet and outlet piping. |
| 8/20/2023 | #30 Buxton Farm Rd. at Merritt Parkway North on ramp | 1/2 Day | 5 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 6 cubic yards - Sediment, brush and debris. | Rippowam River | Cleaned and cleared sediment at outfall adjacent to CDOT ROW. |
| 8/28/2023 | Opposite #723 Rockrimmon Rd. at Golden Farm Rd. | 1/2 Day | 5 men, small dump trucks, mini excavator, hydraulic crane truck | appx. 5 cubic yards - Sediment, brush, debris, and logs. | Haviland Brook / Rippowam River | Cleaned and cleared sediment at outfall discharge location to stream. Area located behind headwall. Debris observed while reviewing CCTV work @ outfall piping in advance of paving operations. |
| 8/28/2023 | Haviland Rd. at Crofts Ln. | 1/2 Day | 5 men, small dump trucks, Mini excavator, hydraulic crane truck | appx. 10 cubic yards - Sediment, brush, debris, and logs. | Haviland Brook / Rippowam River | Cleaned and cleared sediment at inlet and outlet piping at Crofts Ln., stabilized road edge at Haviland Dr. |
| 10/3/2023 | #49 Bouton St. West | 1/3 Day | 2 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | Springdale Brook / Noroton River | Cleaned and cleared pipe inlets. Numerous logs and treestumps and debris removed. |
| 10/3/2023 | #88 Mianus Rd. | 1/2 Day | 2 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | Mianus River | Cleaned and cleared 4 RCP pipe inlets. Numerous logs and debris removed. |
| 10/4/2023 | #440 Eden Rd. | 1/3 Day | 2 men, small dump trucks, hand tools | appx. 1 cubic yards - brush, and debris. | Noroton River | Cut and cleared brush from MS4 inlet and roadside swale |
| 10/4/2023 | #49 Bouton St. West | 1 Day | 3 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | Springdale Brook / Noroton River | Cleaned and cleared pipe inlets. Numerous logs and debris removed. |
| 10/5/2023 | #215 Idlewood Dr. | 1 Day | 4 men, small dump trucks, hydraulic crane truck | appx. 6 cubic yards - sediment, brush, and debris. | Rippowam River | Cleaned and cleared debris from RCP MS4 outlet at wetlands. Numerous piles brush/debris and sediment removed. |
| 10/5/2023 | Opposite #267 Thunder Hill Dr. | 1/3 Day | 2 men, small dump trucks, hand tools | appx. 1 cubic yards - brush, and debris. | Mianus River | Cleaned and cleared brush from RCP MS4 inlet. |
| 10/12/2023 | #215 Idlewood Dr. | 1 Day | 4 men, small dump trucks, hydraulic crane truck | appx. 8 cubic yards - sediment, brush, and debris. | Rippowam River | Cleaned and cleared debris from RCP MS4 inlet. Numerous logs and debris removed. |
| 10/12/2023 | #257 Silver Hill Lane | 1/2 Day | 3 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | Toilsome Brook / Rippowam River | Cleaned and cleared debris from trash rack. Numerous logs and debris removed. |
| 10/16/2023 | #12 Woodbrook Dr. | 1/3 Day | 4 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | Springdale Brook / Noroton River | Cleaned and cleared debris from RCP MS4 inlets. Numerous logs and debris removed. |
| 10/16/2023 | #90 Westover Ave. | 1/3 Day | 4 men, small dump trucks, hydraulic crane truck | appx. 2 cubic yards - brush, debris, and logs. | East Branch Mianus River | Cleaned and cleared debris from RCP MS4 inlets. Numerous logs and debris removed. |
| 11/27/2023 | #82 / #84 Farms Rd. | 1/2 Day | 1 man, hand work | no debris removed | Mianus River | Cleaned and cleared debris at pipe inlets/outlets |
| 12/16/2023 & 12/13/23 | 1/4mi north of #373 Riverbank Rd. at twin 24" RCP's | 1 Day | 4 men, small dump truck, stetco hydraulic crane, mini excavator | appx. 1 cubic yard | Haviland Brook / Rippowam River | Cleaned and cleared accumulated debris at 18" RCP inlet. Water was flooding over the roadway. |
| 1/3/2024 | Haviland Rd. at Haviland Dr. | 1/2 Day | 2 men, small dump truck | appx. 1 cubic yard - shopping cart and recyclable materials dumped into stream | Haviland Brook / Rippowam River | Removed recyclables and shopping cart by hand. Disposed of materials collected. |
| 1/4/2024 | #486 Roxbury Rd. | 1/2 Day | 2 men, small dump truck | appx. 2 cubic yards | Mianus River | Cleaned and cleared accumulated debris at 12" SDR-35 driveway culvert inlet. Culvert blocked, water and icing occurring on roadway. |
| 1/5/2024 | Opposite #602 Stillwater Rd. at EGB Golf Course | 1/2 Day | 2 men, small dump truck | appx. 2 cubic yards | Rippowam River | Cleaned and cleared MS4 inlet piping at EG Brennan Golf Course. |
| 1/12/2024 | West North St. at Cloonan Middle School at Rippowam Bridge | 1 Day | 2 men, small dump truck, stetco hydraulic crane | appx. 4 cubic yards | Rippowam River | Cleaned and cleared accumulated debris at bridge in river as noted by CT DOT state bridge inspector. Referral from Engineering Bureau. |
| 2/27/2024 | Adjacent to #89 Mitchell St. | 1 Day | 4 men, mini excavator, small dump truck | appx. 8 cubic yards - sediment, brush, and debris. | Long Island Sound | Cleaned and cleared pipe outlets w/ mini excavator in advance of paving operations. |
| 2/28/2024 | Opposite #753 Stillwater Rd. | 1/2 Day | 4 men, Mini Excavator, small dump truck | appx. 2 cubic yards | Rippowam River | Cut up and removed logs blocking MS4 inlet piping. |
| 2/28/2024 | #30 Parry Rd. | 1/2 Day | 4 men, Mini Excavator, small dump truck | appx. 2 cubic yards | Rippowam River | Cut up and removed logs blocking MS4 inlet piping. |
| 3/6/2024 | 2488 Long Ridge Rd. at Gray Birch Rd. | 1 Day | 4 men, Mini Excavator, small dump trucks | appx. 8 cubic yards | East Branch Mianus River / Mianus River | Pond on north side of road not draining. Used vac truck to jet 24" RCP, used mini ex to excavate at stream channel at outlet pipe. Outlet pipe was observed to be under water. |
| 3/18/2024 | #235 Den Rd., #21 Hardesty Rd. | 1 Day | 5 men, Mini Excavator, small dump trucks | appx. 6 cubic yards | Mianus River | Cleared leaves and debris from open trench roadside drainage swale. |
| 3/20/2024 | Opposite #300 Mayapple Rd. | 1/2 Day | 4 men, Mini Excavator, small dump truck | appx. 4 cubic yards | Haviland Brook / Rippowam River | Cleared leaves and debris from two (2) road side leak offs |
| 3/20/2024 | Opposite #963 Rockrimmon Rd. | 1 Day | 5 men, Mini Excavator, small dump trucks | appx. 4 cubic yards - | East Branch Mianus River / Mianus River | Excavated and cleared accumulated material at edge of road in order to eliminate ponding on roadway. Restored leak off. |
| 3/27/2024 | #49 Bouton St. West | 1 Day | 3 men, small dump trucks, hydraulic crane truck | appx. 4 cubic yards - brush, debris, and logs. | Springdale Brook / Noroton River | Cleaned and cleared pipe inlets by hand. Numerous logs and brush blocking 42" RCP inlet. |

| | | | | | | |
|--------------------|---|---------|---|---|---|--|
| 4/26/2024 | #26/#25 Dogwood Ln. | 1 Day | 4 men, mini excavator, small dump truck | appx. 6 cubic yards - sediment, brush, and debris. | Rippowam River | Cleaned and cleared pipe inlets/ outlets w/ mini excavator. |
| 6/17/2024 - 7/1/24 | Sleepy Hollow Park stream excavation work | 6 Days | Generally 6 men / day mini excavator, small dump trucks | appx. 45 cubic yards - sediment, brush, and debris. | Noroton River | Coordination w/ Legal Dept. and Environmental Protection Board to remove illegally placed fill and stream improvements placed in park by adjacent private property owner in early 2000's. SMD Excavated and restored. Costs for restoration work to be conveyed to property owner as part of stipulated judgement. |
| 3/20/2024 | #1102 Rockrimmon Rd. | 1/2 Day | 5 men, small dump truck | appx. 6 cubic yards | East Branch Mianus River / Mianus River | Cleaned and cleared accumulated debris at leakoff to stream. Blocked flow and ponding on road. |
| 1/20/2024 | 1/4mi north of #373 Riverbank Rd. at twin 24" RCP's | 1/2 Day | 5 men, small dump truck | appx. 2 cubic yards | East Branch Mianus River / Mianus River | Cleaned and cleared accumulated debris at twin 24" RCP inlets |

Appendix J

2023-2024 Dry Weather Sampling

| FacilityID | LocationDescription | Diameter | ServiceStatus | LocationSource | Comments | LastUpdate | LastEditor | Invert Elevation | Ownership | InvertElevation_N AVD88 | SHAPE * | Dry Weather Visit Date | Flow Observed | Smell | Color | Erosion | Scour Protection | Blockage | Notes |
|------------|-----------------------|----------|---------------|------------------|--------------|------------------|-----------------------|------------------|-----------|-------------------------|---------|------------------------|---------------|-------|-------|---------|------------------|----------|---|
| DIS-3 | Cross Country | 36 | Active | GPS | <Null> | 3/8/2017 11:56 | CDM_INC\desantima | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-4 | Cross Country | 42 | Active | GPS | <Null> | 3/8/2017 11:57 | CDM_INC\desantima | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-27 | Cross Country | 12 | Active | Aerials | <Null> | 3/8/2017 15:49 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-47 | Cross Country | 30 | Active | GPS | <Null> | 3/8/2017 11:51 | CDM_INC\desantima | City | Yes | <Null> | Yes | 12/29/2022 | NO | | | | | | |
| DIS-48 | Cove Rd | 24 | Active | Aerials | <Null> | 3/8/2017 15:46 | CDM_INC\desantima | 7.45 | <Null> | 12.2 | Point | 12/29/2022 | NO | | | | | | |
| DIS-58 | Maple Tree Ave | 36 | Active | GPS | <Null> | 2/1/2013 10:14 | CDM_INC\AbokiBA | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-62 | Courtland Hill St | 15 | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-84 | Fahy St | 60 | Active | Scaled from plan | <Null> | 8/7/2015 11:22 | CDM_INC\DeSantiMA | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-94 | Columbus Pl | 18 | Active | GPS | <Null> | 3/20/2013 11:05 | CDM_INC\AbokiBA | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-97 | Regent Ct | 18 | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | <Null> | Yes | Yes | Yes | 12/29/2022 | NO | | | | | | |
| DIS-98 | Regent Ct | 18 | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | <Null> | Yes | Yes | Yes | 12/30/2022 | NO | | | | | | |
| DIS-113 | Rome Pl | <Null> | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-127 | Westover Ln | 18 | Active | GPS | <Null> | 9/14/2013 13:33 | CDM_INC\AbokiBA | 111.5 | <Null> | 116.25 | Point | 12/28/2022 | NO | | | | | | |
| DIS-145 | Kenilworth Dr E | 15 | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | 5.05 | <Null> | 9.8 | Point | 12/29/2022 | NO | | | | | | |
| DIS-158 | West Ave, 600 | 30 | Active | GPS | <Null> | 8/25/2015 14:01 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-215 | Hastings Ln | 24 | Active | Aerials | <Null> | 9/17/2014 14:29 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-216 | Hastings Ln | 12 | Active | Aerials | <Null> | 9/17/2014 14:29 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-218 | Hastings Ln | 21 | Active | Aerials | <Null> | 9/17/2014 14:49 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-222 | Loveland Rd | 18 | Active | Aerials | <Null> | 9/17/2014 15:30 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-256 | West Ln | 24 | Active | Aerials | <Null> | 9/24/2014 10:18 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/30/2022 | NO | | | | | | |
| DIS-346 | E Middle Patent Rd | 15 | Active | Aerials | <Null> | 12/15/2014 15:19 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-406 | Cross Country | 12 | Active | Aerials | <Null> | 3/8/2017 14:38 | CDM_INC\desantima | 29.47 | <Null> | 29.47 | Point | 12/29/2022 | NO | | | | | | |
| DIS-557 | Riverbank Rd | 24 | Active | Scaled from plan | This HW dra | 3/8/2017 15:34 | CDM_INC\desantima | 306.6 | <Null> | 311.35 | Point | 12/28/2022 | NO | | | | | | |
| DIS-573 | Calass Ln | 24 | Active | Aerials | <Null> | 3/8/2017 14:32 | CDM_INC\desantima | 418.5 | <Null> | 423.25 | Point | 12/30/2022 | NO | | | | | | |
| DIS-574 | Cross Country | 18 | Active | Aerials | Endwall | 3/8/2017 14:41 | CDM_INC\desantima | 407.9 | <Null> | 412.65 | Point | 12/30/2022 | NO | | | | | | |
| DIS-576 | Canfield Dr | 36 | Active | Aerials | Endwall | 3/8/2017 14:33 | CDM_INC\desantima | 155.6 | <Null> | 160.35 | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-577 | Canfield Dr | <Null> | Active | Aerials | <Null> | 3/8/2017 14:33 | CDM_INC\desantima | 220 | <Null> | 224.75 | Point | 12/22/2022 | NO | | | | | | Connecte d to culvert |
| DIS-580 | Canfield Rd | 30 | Active | Aerials | <Null> | 3/8/2017 14:33 | CDM_INC\desantima | 218.45 | <Null> | 223.2 | Point | 12/22/2022 | NO | | | | | | Connecte d to culvert |
| DIS-581 | Cross Country | 12 | Active | Scaled from plan | <Null> | 3/8/2017 14:41 | CDM_INC\desantima | 240.49 | <Null> | 245.24 | Point | 12/28/2022 | NO | | | | | | NEEDS CLEAN UP, MEASURE D 24 IN. |
| DIS-677 | Brown House Rd, 37 | 15 | Active | Scaled from plan | <Null> | 3/8/2017 14:44 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | YES | NO | CLEAR | | | | WHITE FOAM AT EXIT AND BROWN RESIDUE ACROSS BED |
| DIS-685 | Westover Rd | 12 | Active | Aerials | <Null> | 3/8/2017 15:43 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-693 | Millbrook Rd | 48 | Active | Scaled from plan | <Null> | 3/8/2017 15:29 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | TWO PIPES, NOT 48 IN. |
| DIS-698 | Mill Spring Ln | 18 | Active | Scaled from plan | <Null> | 5/5/2017 12:55 | STAMFORDADMIN\cbarber | 150.2 | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-700 | Old Mill Rd | 12 | Active | Aerials | <Null> | 3/8/2017 15:28 | CDM_INC\desantima | 177.7 | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | |
| DIS-738 | E Middle Patnet Rd | 24 | Active | Scaled from plan | <Null> | 3/8/2017 14:57 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-758 | Cross Country | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:48 | CDM_INC\desantima | 120.2 | <Null> | 124.95 | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-759 | Buckingham Dr, parcel | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:31 | CDM_INC\desantima | <Null> | Yes | Yes | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-760 | Buckingham Dr, parcel | 15 | Active | Aerials | <Null> | 3/8/2017 14:32 | CDM_INC\desantima | <Null> | Yes | Yes | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-765 | Farms Rd | 36 | Active | Scaled from plan | <Null> | 3/8/2017 14:59 | CDM_INC\desantima | 184.69 | <Null> | 185.79 | Point | 12/22/2022 | NO | | | | | | |
| DIS-797 | Cross Country | 24 | Active | Scaled from plan | <Null> | 3/8/2017 14:49 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-798 | Cross Country | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:49 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | |
| DIS-822 | Deep Valley Rd | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:55 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-881 | Shellder Rock Rd | 18 | Active | Aerials | <Null> | 5/17/2015 17:14 | CDM_INC\DeSantiMA | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-883 | Shellder Rock Rd | <Null> | Active | Aerials | <Null> | 5/17/2015 17:14 | CDM_INC\DeSantiMA | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-968 | West Ave, 650 | 42 | Active | Aerials | <Null> | 8/25/2015 14:02 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-969 | Cross Country | 48 | Active | Aerials | <Null> | 3/22/2017 16:26 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-976 | Cross Country | 12 | Active | Scaled from plan | <Null> | 3/8/2017 15:48 | CDM_INC\desantima | 81.5 | <Null> | 86.25 | Point | 12/28/2022 | NO | | | | | | |
| DIS-979 | Black Rock Rd | 18 | Active | Aerials | Endwall | 10/5/2015 14:10 | CDM_INC\desantima | 346.5 | <Null> | 351.25 | Point | 12/30/2022 | NO | | | | | | |
| DIS-980 | Black Rock Rd | 15 | Active | Aerials | Endwall, inv | 10/5/2015 14:10 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/30/2022 | NO | | | | | | |

| FacilityID | LocationDescription | Diameter | ServiceStatus | LocationSource | Comments | LastUpdate | LastEditor | Invert Elevation | Ownership | InvertElevation_N AVD88 | SHAPE * | Dry Weather Visit Date | Flow Observed | Smell | Color | Erosion | Scour Protection | Blockage | Notes |
|------------|------------------------|----------|---------------|------------------|---------------|------------------|--------------------------|------------------|-----------|----------------------------|---------|------------------------------|------------------|-------|-------|---------|---------------------|----------|--|
| DIS-981 | Trinity Pass | 18 | Active | Aerials | Endwall | 10/5/2015 14:28 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-984 | Brookhollow Ln | 18 | Active | Aerials | <Null> | 10/5/2015 15:55 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | |
| DIS-985 | Brookhollow Ln | 24 | Active | Scaled from plan | Inv N/A | 10/5/2015 15:55 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | PIPE SEPARATE D AT JOINT |
| DIS-986 | Brookhollow Ln | 18 | Active | Scaled from plan | Inv N/A | 10/5/2015 15:55 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-1008 | Ridge Brook Dr | 12 | Active | Scaled from plan | endwall | 10/19/2015 14:42 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1009 | Ridge Brook Dr | 12 | Active | Scaled from plan | endwall | 10/19/2015 14:42 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1010 | Ridge Brook Dr | 12 | Active | Scaled from plan | endwall | 10/20/2015 14:42 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1011 | Cross Country | 12 | Active | Scaled from plan | <Null> | 3/8/2017 14:53 | CDM_INC\desantima | 373.9 | <Null> | 375 | Point | 12/30/2022 | NO | | | | | | |
| DIS-1012 | Riverbank Rd | 12 | Active | Scaled from plan | <Null> | 10/19/2015 15:16 | CDM_INC\desantima | 166.53 | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1043 | Laurel Ledge Rd | 12 | Active | Aerials | Field Inspect | 3/8/2017 15:03 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1044 | Laurel Ledge Rd | 18 | Active | Aerials | Field Inspect | 3/8/2017 15:03 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1045 | Laurel Ledge Ct | 18 | Active | Aerials | Field Inspect | 3/8/2017 15:04 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1051 | Cross Country | 18 | Active | Aerials | <Null> | 3/8/2017 11:50 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1091 | Riverbank Rd | 24 | Active | Aerials | <Null> | 3/8/2017 15:53 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1106 | Westover Ln | 12 | Active | Aerials | <Null> | 3/8/2017 15:53 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1109 | Westover Ln | 18 | Active | Aerials | <Null> | 3/8/2017 15:53 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1145 | Laurel Rd | 18 | Active | Scaled from plan | <Null> | 3/8/2017 15:53 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | YES, PIPE EXPOSE COULD BE CULVERT |
| DIS-1146 | Laurel Rd | 12 | Active | Field Edit | <Null> | 3/8/2017 15:53 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-1150 | Cross Country | 18 | Active | Scaled from plan | <Null> | 4/6/2016 9:37 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/22/2022 | YES | NO | CLEAR | | | | |
| DIS-1257 | Hope St | 6 | Active | GPS | <Null> | 5/15/2016 20:43 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1277 | Cross Country | 0 | Active | Aerials | <Null> | 5/28/2016 21:47 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/29/2022 | NO | | | | | | |
| DIS-1278 | Cross Country | 10 | Active | Aerials | <Null> | 5/28/2016 21:50 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/29/2022 | NO | | | | | | NOT 10 IN. |
| DIS-1284 | Weed Ave | 12 | Active | Aerials | <Null> | 5/28/2016 22:19 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/29/2022 | NO | | | | | | |
| DIS-1288 | Weed Ave | 12 | Active | Field Edit | <Null> | 6/5/2016 20:12 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/29/2022 | NO | | | | | | |
| DIS-1289 | Weed Ave | 12 | Active | Field Edit | Dye appear | 6/5/2016 20:17 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/29/2022 | NO | | | | | | NOT 12 IN. |
| DIS-1317 | Cross Country | 18 | Active | Aerials | <Null> | 8/30/2016 9:43 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1326 | Riverbank Rd | 12 | Active | Aerials | <Null> | 8/30/2016 11:05 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1353 | Westover Rd | 15 | Active | GPS | <Null> | 9/26/2016 14:04 | CDM_INC\DesantiMA | <Null> | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | |
| DIS-1362 | Westover Rd | 12 | Active | Aerials | <Null> | 9/30/2016 16:17 | CDM_INC\desantima | <Null> | <Null> | <Null> | Point | 12/22/2022 | NO | | | | | | |
| DIS-1430 | E Middle Patent Rd | 18 | Active | Aerials | <Null> | 3/23/2017 14:40 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1452 | Patricia Ln | 24 | Active | Scaled from plan | <Null> | 4/19/2017 15:30 | CDM_INC\KozieIbj | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-1484 | Riverbank Rd | <Null> | Active | <Null> | <Null> | 8/31/2017 11:42 | STAMFORDADMIN\cbarber | <Null> | <Null> | <Null> | Point | 12/28/2022 | NO | | | | | | |
| DIS-1591 | West side of Riverbank | <Null> | Active | Field Edit | Added per T | 4/8/2021 9:13 | STAMFORDADMIN\apatterson | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | |
| DIS-1602 | Shellder Rock Rd | 30 | Active | Aerials | <Null> | 7/2/2021 10:03 | STAMFORDADMIN\mdesanti | <Null> | Yes | <Null> | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-223 | Loveland Rd | 21 | Active | Aerials | <Null> | 9/17/2014 15:32 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | |
| DIS-576 | Canfield Dr | 36 | Active | Aerials | Endwall | 3/8/2017 14:33 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | 30" |
| DIS-577 | Canfield Dr | <Null> | Active | Aerials | <Null> | 3/9/2017 14:33 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | |
| DIS-580 | Canfield Rd | 30 | Active | Aerials | <Null> | 3/8/2017 14:33 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | 24" |
| DIS-85 | Hope St | 60 | Active | GPS | <Null> | 3/13/2013 19:54 | CDM_INC\AbokIBA | <Null> | Yes | Yes | Yes | 12/28/2022 | YES | | | | | | |
| DIS-752 | Merriebrook Ln | 24 | Active | Aerials | <Null> | 3/8/2017 15:05 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | |
| DIS-753 | Cross Country | 30 | Active | Aerials | <Null> | 3/8/2017 14:48 | CDM_INC\desantima | <Null> | Yes | Yes | <Null> | 12/28/2022 | NO | | | | | | 30" |
| DIS-798 | Cross Country | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:49 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | 18" |
| DIS-765 | Farms Rd | 36 | Active | Scaled from plan | <Null> | 3/8/2017 14:59 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | 30" |
| DIS-574 | Cross Country | 18 | Active | Aerials | Endwall | 3/8/2017 14:41 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 12/28/2022 | NO | | | | | | |
| DIS-77 | Research Dr | 30 | Active | GPS | <Null> | 3/8/2017 11:55 | CDM_INC\desantima | <Null> | Yes | <Null> | Yes | 12/29/2022 | YES | NO | BROWN | | | | OIL |
| DIS-761 | Buckingham Ct, 15 | 18 | Active | Scaled from plan | <Null> | 3/8/2017 14:32 | CDM_INC\desantima | <Null> | Yes | Yes | <Null> | 12/30/2022 | NO | | | | | | |
| DIS-315 | Wire Mill Rd | 12 | Active | Aerials | <Null> | 10/2/2014 12:29 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 1/11/2023 | NO | | | | | | |
| DIS-183 | Wire Mill Rd, 119 | <Null> | Active | Scaled from plan | <Null> | 3/8/2017 15:50 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 1/11/2023 | NO | | | | | | |
| DIS-1470 | Long Ridge Rd | 18 | Active | GPS | <Null> | 4/28/2017 19:16 | STAMFORDADMIN\cbarber | <Null> | Yes | <Null> | <Null> | 1/11/2023 | YES | NO | CLEAR | NO | YES | NO | |
| DIS-914 | Wood Ridge Dr South, | 12 | Active | Scaled from plan | <Null> | 3/8/2017 11:49 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 1/11/2023 | NO | | | | | | |
| DIS-1041 | Laurel Ledge Rd | 18 | Active | Field | Field Inspect | 3/8/2017 15:49 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 1/11/2023 | YES | NO | CLEAR | NO | YES | NO | |
| Dis-1040 | Laurel Ledge Rd | 12 | Active | Field | Field Inspect | 3/8/2017 15:49 | CDM_INC\desantima | <Null> | Yes | <Null> | <Null> | 1/11/2023 | NO | | | | | | |

Appendix K

2023-2024 IDDE Sampling

| Site Name | Date | Time | Ammonia | Surfactants | pH | Chlorine | Salinity (ppt) | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Project Name | Notes |
|--------------------------|------------|------|---------|-------------|------|----------|----------------|-----------------------------|----------------------|---------------------------|--------------------------|--|
| Middlesex CB1 | 7/12/2023 | | | | | | | | | | Noroton 2/1.5 | flowing slightly but couldn't collect sample, added to regular monitoring (no report) |
| Middlesex CB2 | 7/12/2023 | | | | | | | | | | Noroton 2/1.5 | flowing slightly but couldn't collect sample, added to regular monitoring (no report) |
| MH-7621 | 7/25/2023 | 1010 | | | | | | | | | Cove Rd | some standing water, no flow in or out. Water level not high enough to exit pipe basin full of water, just high enough to exit. No flow in at all. |
| MH-9681 | 7/25/2023 | 1014 | 0.0 | 1.50 | 7.70 | 0.07 | > 4839.2 | 263.4 | | | Cove Rd | |
| MH-9681 | 7/25/2023 | | | | | | | | | > 24196 | Cove Rd | |
| New MH 3 | 7/25/2023 | 1024 | | | | | | | | | Cove Rd | At 82 cove rd, no flow in or out from main flow or side pipe |
| IN-11798 | 7/25/2023 | 1029 | 0.0 | 0.75 | 7.80 | 0.08 | > 4839.2 | 4.0 | | | Cove Rd | standing water, no flow in our out |
| IN-11798 | 7/25/2023 | | | | | | | | | 156.3 | Cove Rd | |
| New CB 6 | 7/25/2023 | 1035 | | | | | | | | | Cove Rd | standing water, no flow in our out. Not high enough to exit pipe |
| New MH 5 | 7/25/2023 | 1038 | 0.0 | 0.25 | 9.30 | 0.05 | 111.1 | 2.0 | | | Cove Rd | basin full of water, side pipe partially submerged. Water level to low to exit |
| New MH 5 | 7/25/2023 | | | | | | | | | < 10 | Cove Rd | |
| DIS-917 | 7/25/2023 | 1151 | 0.0 | | 9.30 | 0.01 | > 4839.2 | 4839.1 | | | Cummings Beach | Low tide (pH 7.8 with strips/9.3 twice with PC) |
| DIS-917 | 7/25/2023 | | | | | | | | | 108.9 | Cummings Beach | |
| MH-5714 | 7/25/2023 | 1140 | 0.0 | | 7.70 | 0.01 | > 4839.2 | 1841.7 | | | Cummings Beach | |
| MH-5714 | 7/25/2023 | | | | | | | | | 10462.4 | Cummings Beach | |
| MH-5715 | 7/25/2023 | 1143 | 0.0 | | 7.60 | 0.01 | > 4839.2 | 449.4 | | | Cummings Beach | |
| MH-5715 | 7/25/2023 | | | | | | | | | 8164.1 | Cummings Beach | |
| MH-477 South Pipe | 7/26/2023 | 939 | 0.0 | 0.25 | 7.20 | 0.05 | | | | | Merrell Rd | Chlorine test strips also 0 for total and free chlorine; surfactants processed when back at the laboratory |
| MH-477 East Pipe | 7/26/2023 | 939 | 0.0 | 0.50 | 6.80 | 0.00 | | | | | Merrell Rd | Chlorine test strips also 0 for total and free chlorine; surfactants processed when back at the laboratory; Sample was very rusty in color |
| MH 7464 Northwest Pipe | 8/2/2023 | 1155 | 0.0 | 0.25 | 7.40 | 0.03 | 19.0 | < 2 | | | Dean St | |
| MH 7464 North Pipe | 8/2/2023 | 1205 | 0.0 | 0.25 | 7.50 | 0.02 | > 2419.6 | 107.6 | | | Dean St | |
| MH 7464 South Pipe | 8/2/2023 | 1210 | 0.0 | 0.25 | 7.60 | 0.01 | > 2419.6 | 160.7 | | | Dean St | |
| West & East CBs | 8/2/2023 | 1220 | | | | | | | | | Dean St | Both stagnant |
| Noroton 4 OF | 9/7/2023 | 1046 | | | | | > 2419.6 | 76.7 | | | Noroton | Outfall flowing, bubbles below but likely aeration. Sample green tinted |
| Springdale 1 | 9/7/2023 | 1110 | | | | | > 4839.2 | 1540.2 | | | Noroton | tributary to Noroton on camp ave. Enters Noroton downstream of Noroton 3. Low flow |
| Noroton 3 Upstream | 9/7/2023 | 1105 | | | | | > 4839.2 | 615.2 | | | Noroton | Sampled above sanitary line. Taken in-line with outfall (which was dry). |
| MH Nutmeg & Pepper Ridge | 11/15/2023 | 1103 | 0.0 | 0.25 | 6.90 | 0.01 | > 4839.2 | 4839.2 | | | MH Nutmeg & Pepper Ridge | |
| MH 1961 | 11/15/2023 | 1141 | 0.0 | 0.25 | 7.20 | 0.00 | > 4839.2 | 1297.6 | | | MH Nutmeg & Pepper Ridge | |
| IN-8825 | 12/4/2023 | 959 | 0.0 | | 7.00 | 0.00 | > 4839.2 | 31.9 | | | Cummings Beach | Hardness 425, alkalinity 80 |
| DIS-926 | 12/4/2023 | 1004 | 0.0 | | 6.80 | 0.00 | > 4839.2 | 14.5 | | | Cummings Beach | Hardness 425, alkalinity 80 |
| IN-A | 12/4/2023 | 1011 | 0.0 | | 6.80 | 0.00 | > 4839.2 | 41.7 | | | Cummings Beach | |
| IN-8825 | 12/4/2023 | | | | | | | | | 378.6 | Cummings Beach | |
| DIS-926 | 12/4/2023 | | | | | | | | | 189.0 | Cummings Beach | |
| IN-A | 12/4/2023 | | | | | | | | | 529.1 | Cummings Beach | |
| Sump Pump | 4/8/2024 | 1511 | 0.0 | 0.25 | 0.0 | 6.8 | 5.1 | <1 | | | Saddle Rock | Sewage smell, salinity 0.1ppt |
| Sump Pump | 4/8/2024 | | | | | | | | | < 10 | Saddle Rock | |
| Catchbasin | 4/8/2024 | 1518 | 0.0 | 0.25 | 0.0 | 7.2 | > 2419.6 | <1 | | | Saddle Rock | Salinity 0.1ppt |
| Catchbasin | 4/8/2024 | | | | | | | | | 29.8 | Saddle Rock | |
| MH-3915 | 4/8/2024 | 1551 | 0.0 | 2.00 | 0.0 | 7.3 | 1732.9 | <1 | | | Saddle Rock | Tidal smell, salinity 5.9ppt |
| MH-3915 | 4/8/2024 | | | | | | | | | 10.0 | Saddle Rock | |
| IN-3170 | 4/15/2024 | 1220 | 0.0 | | | | | | | | Saddle Rock | stagnant water |
| IN-2932 | 4/15/2024 | 1224 | | | | | | | | | Saddle Rock | stagnant water (tested ammonia, greater than zero possible but not a color on spectrum, like due to stagnant water (maybe so oil from run off)) |
| Sump Pump | 4/15/2024 | 1239 | 0.0 | | | | 2.0 | 2.0 | | | Saddle Rock | |
| Sump Pump | 4/15/2024 | | | | | | | | | < 10 | Saddle Rock | |
| IN-3171 | 4/15/2024 | 1243 | | | | | | | | | Saddle Rock | stagnant water |
| MH-3912 | 4/15/2024 | 1245 | 0.0 | | | | > 4839.2 | 6.1 | | | Saddle Rock | Dupe collected after original sample, not a true dup |
| MH-3912 | 4/15/2024 | | | | | | | | | 30.6 | Saddle Rock | |
| DIS-11 | 4/15/2024 | 1300 | 0.0 | | | | 2406.7 | 4.0 | | | Saddle Rock | |
| DIS-11 | 4/15/2024 | | | | | | | | | 40.9 | Saddle Rock | |

| Site Name | Date | Time | Ammonia | Surfactants | pH | Chlorine | Salinity (ppt) | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Project Name | Notes |
|-----------|-----------|------|---------|-------------|----|----------|--------------------------|-----------------------------|----------------------|---------------------------|----------------|---|
| DIS-6 | 5/21/2024 | 1027 | | | | | 13.8 (top)/19.2 (bottom) | | | | Cummings Beach | Unable to lay eyes on pipe. Took readings where we thought it was located at rocks (41.0433554, -73.5299069) |
| MH-22 | 5/21/2024 | 1043 | | | | | 12.3 (top)/20.5 (bottom) | | | | Cummings Beach | Did not observe flow. Deep basin, unsure if meter reached the bottom |
| IN-76 | 5/21/2024 | 1054 | | | | | | | | | Cummings Beach | No Flow, unsure how connects to DS manhole. Water level not high enough to exit pipes. Pipes dry with one pipe looking damp or stained (but not suspicious) |
| IN-77 | 5/21/2024 | 1055 | | | | | | | | | Cummings Beach | No flow. Seems to match mapping. Water level not high enough to exit pipes. |
| MH-21 | 5/21/2024 | 1059 | | | | | | | | | Cummings Beach | No flow. Tons of bottles on surface. Water not high enough to reach pipe. |
| MH-1120 | 5/21/2024 | | | | | | | | | | Cummings Beach | Did not access. Truck on MH per Mike E. |
| MH-51 | 5/21/2024 | 1122 | | | | | 13.8 (top)/20.8 (bottom) | | | | Cummings Beach | MH in front of right two bays at transfer station. Upwelling observed in MH. |
| MH-1116 | 5/21/2024 | 1138 | | | | | 20.5(top)/20.6 (bottom) | | | | Cummings Beach | Full of water. No flow really. Jellyfish present. Oil sheen on surface. |
| MH-12 | 5/21/2024 | 1150 | | | | | | 16.2 | | | Cummings Beach | Welded (but Mike opened). Shallow depth. Water looked cleaner than closer to the harbor. |
| IN-15 | 5/21/2024 | 1147 | | | | | 16.2 (top)/16.2 (bottom) | | | | Cummings Beach | Lots of flow in. Water looked cleaner than closer to the harbor. |
| IN-14 | 5/21/2024 | 1149 | | | | | 16.2 (top)/16.2 (bottom) | | | | Cummings Beach | Lots of flow in. Water looked cleaner than closer to the harbor. |
| IN-16 | 5/21/2024 | | | | | | | | | | Cummings Beach | Fish present. Pulsing/Push and Pull at exit pipe. Lots of water. |
| IN-17 | 5/21/2024 | | | | | | | | | | Cummings Beach | Full, but no movement observed |
| MH-10 | 5/21/2024 | 1204 | | | | | 16.5 (top)/16.0 (bottom) | | | | Cummings Beach | Lots of flow. Pipes submerged but can see flow. Possible mitten crab sighting. |
| MH-"I" | 5/21/2024 | 1214 | | | | | 16.2 (top)/17.0 (bottom) | | | | Cummings Beach | Movement observed. Flow from short line on map (towards wetland pond). Observed two jellyfish being pulled towards MH G. |
| MH-13 | 5/21/2024 | 1227 | | | | | | 16.6 | | | Cummings Beach | Grass clippings observed to be pulled towards MH I |
| IN-19 | 5/21/2024 | | | | | | | | | | Cummings Beach | Some standing water |
| MH-14 | 5/21/2024 | 1233 | | | | | 16.4 (top)/16.5 (bottom) | | | | Cummings Beach | Less obvious flow, but pulling some debris towards MH J |
| IN-15 | 5/21/2024 | 1244 | | | | | | 15.4 | | | Cummings Beach | Second reading. Flow obviously reduced. Taken approximately hour after the first time. |
| MH-3897 | 5/21/2024 | 1304 | | | | | 11.7 (top)/12.1 (bottom) | | | | Cummings Beach | Flow going towards intersection. Odd pipe going through bottom of basin. |

| Site Name | Date | Time | Water Temp ° C | Dissolved Oxygen mg/L | Conductivity µmho/cm | Salinity ppt | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Notes | 305B Segment | Latitude | Longitude |
|--------------|-----------|------|----------------|-----------------------|----------------------|--------------|-----------------------------|----------------------|---------------------------|--|--------------|----------|-----------|
| Rippowam 7 | 7/19/2023 | 1419 | 24.1 | 7.90 | 279.7 | | > 2419.6 | 123.6 | | | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 5 | 7/19/2023 | 1359 | 23.9 | 8.15 | 292.9 | | > 2419.6 | 195.6 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 4 | 7/19/2023 | 1346 | 23.5 | 8.01 | 321.5 | | 1011.2 | 119.1 | | one large well empty | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 3 | 7/19/2023 | 1332 | 23.5 | 8.09 | 319.6 | | > 4839.2 | 177.2 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 2 | 7/19/2023 | 1317 | 23.4 | 8.34 | 333.6 | | > 4839.2 | 870.3 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 0.5 | 7/19/2023 | 1305 | 24.7 | 4.24 | 4582.0 | 2.4 | > 4839.2 | 551.0 | | | | | |
| Rippowam 0.5 | 7/19/2023 | | | | | | | | 265.5 | | CT7405-00_01 | 41.10559 | -73.5586 |
| | | | | | | | | | | | CT7405-00_01 | 41.08559 | -73.55664 |
| | | | | | | | | | | could not access - active construction on bridge | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 7 | 8/1/2023 | | | | | | | | | | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 5 | 8/1/2023 | 1200 | 20.4 | 8.80 | 469.0 | | > 2419.6 | 816.4 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 4 | 8/1/2023 | 1147 | 20.9 | 7.37 | 485.0 | | > 2419.6 | 137.6 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 3 | 8/1/2023 | 1135 | 21.0 | 9.26 | 486.0 | | > 4839.2 | 266.9 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 2 | 8/1/2023 | 1124 | 21.1 | 8.95 | 520.0 | | > 4839.2 | 221.2 | | | | | |
| Rippowam 0.5 | 8/1/2023 | 1112 | 22.7 | 4.38 | 40690.0 | 26.1 | > 4839.2 | 2827.2 | | | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 0.5 | 8/1/2023 | | | | | | | | 743.0 | ducks upstream | CT7405-00_01 | 41.08559 | -73.55664 |
| | | | | | | | | | | | CT7405-00_01 | 41.06617 | -73.55763 |
| | | | | | | | | | | could not access - active construction on bridge | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 7 | 8/21/2023 | | | | | | | | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 5 | 8/21/2023 | 1231 | 21.1 | 8.78 | 364.8 | | > 2419.6 | 579.4 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 4 | 8/21/2023 | 1218 | 20.7 | 6.68 | 362.5 | | 2419.6 | 206.4 | | | | | |
| Rippowam 3 | 8/21/2023 | 1206 | 21.0 | 9.09 | 345.6 | | 4839.1 | 128.9 | | | | | |
| Rippowam 2 | 8/21/2023 | 1152 | 21.0 | 9.87 | 384.1 | | > 4839.2 | 320.4 | | ducks upstream | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 0.5 | 8/21/2023 | 1137 | 22.3 | 10.88 | 864.0 | 0.4 | > 4839.2 | 544.6 | | ducks/geese upstream | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 0.5 | 8/21/2023 | | | | | | | | 308.9 | | CT7405-00_01 | 41.06617 | -73.55763 |
| | | | | | | | | | | | CT7405-00_01 | 41.06593 | -73.54912 |
| | | | | | | | | | | Bridge construction | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 7 | 9/6/2023 | 1111 | | | | | | | | DO recalibrated | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 5 | 9/6/2023 | 1059 | 22.9 | 8.34 | 485.0 | | > 2419.6 | 770.1 | | | | | |
| Rippowam 4 | 9/6/2023 | 1044 | 22.8 | 6.87 | 497.0 | | > 2419.6 | 152.9 | | | | | |
| Rippowam 3 | 9/6/2023 | 1028 | 23.0 | 8.44 | 501.0 | | > 2419.6 | 1119.9 | | | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 2 | 9/6/2023 | 1013 | 23.2 | 8.13 | 541.0 | 0.3 | > 4839.2 | 176.5 | | | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 0.5 | 9/6/2023 | 1001 | 24.4 | 7.19 | 13586.0 | 7.8 | > 4839.2 | 2406.7 | | geese upstream | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 0.5 | 9/6/2023 | | | | | | | | 161.3 | | CT7405-00_01 | 41.06593 | -73.54912 |
| | | | | | | | | | | | CT7405-00_01 | 41.05904 | -73.54664 |
| | | | | | | | | | | Road closed | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 7 | 9/21/2023 | | | | | | | | | | | | |
| Rippowam 5 | 9/21/2023 | 1100 | 16.1 | 9.61 | 384.8 | | 2419.6 | 122.3 | | DO recalibrated | | | |
| Rippowam 4 | 9/21/2023 | 1044 | 15.7 | 10.17 | 427.6 | | > 2419.6 | 235.9 | | DO recalibrated | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 3 | 9/21/2023 | 1033 | 15.7 | 9.65 | 443.3 | | > 2419.6 | 435.2 | | DO recalibrated | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 2 | 9/21/2023 | 1017 | 15.7 | 9.46 | 458.0 | | > 2419.6 | 1413.6 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 0.5 | 9/21/2023 | 1004 | 16.2 | 9.77 | 1147.0 | | > 4839.2 | 1632.8 | | Lots of geese | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 0.5 | 9/21/2023 | | | | | | | | 275.1 | | CT7405-00_01 | 41.05904 | -73.54664 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | Road closed | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 5 | 5/9/2024 | 920 | 17.5 | 8.74 | 588 | | > 2419.6 | 108.1 | | Construction on side road | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 4 | 5/9/2024 | 931 | 17.2 | 9.12 | 273 | | > 2419.6 | 387.3 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 3 | 5/9/2024 | 936 | 17.2 | 8.99 | 277 | | 4839.1 | 471.9 | | | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 2 | 5/9/2024 | 945 | 17.1 | 8.90 | 292 | | > 4839.2 | 370.0 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 0.5 | 5/9/2024 | 953 | 17.5 | 9.20 | 264 | 0.1 | > 4839.2 | 730.8 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 0.5 | 5/9/2024 | 953 | | | | | | | 173.1 | | CT-W1_018-SB | 41.04813 | -73.54542 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | bridge closed | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 5 | 5/29/2024 | 920 | 19.2 | 8.08 | 304 | | > 2419.6 | 248.9 | | downstream side | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 4 | 5/29/2024 | 935 | 18.9 | 8.33 | 321 | | > 2419.6 | 488.4 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 3 | 5/29/2024 | 945 | 18.9 | 8.36 | 328 | | > 2419.6 | 275.5 | | | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 2 | 5/29/2024 | 1000 | 18.8 | 8.36 | 342 | | > 4839.2 | 651.1 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 0.5 | 5/29/2024 | 1013 | 19.4 | 8.86 | 896 | 0.4 | > 4839.2 | 497.8 | | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 0.5 | 5/29/2024 | 1013 | | | | | | | 575.6 | | CT-W1_018-SB | 41.04813 | -73.54542 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | bridge construction | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 7 | 6/13/2024 | | | | | | | | | | | | |
| Rippowam 5 | 6/13/2024 | 1153 | 19.1 | 9.65 | 410 | | > 2419.6 | 248.1 | | | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 4 | 6/13/2024 | 1143 | 19.2 | 9.32 | 443 | | > 2419.6 | 488.4 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 3 | 6/13/2024 | 1132 | 19.1 | 9.54 | 449 | | > 2419.6 | 686.7 | | | CT7405-00_01 | 41.06593 | -73.54912 |

| Site Name | Date | Time | Water Temp ° C | Dissolved Oxygen mg/L | Conductivity µmho/cm | Salinity ppt | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Notes | 305B Segment | Latitude | Longitude |
|--------------|-----------|------|----------------|-----------------------|----------------------|--------------|-----------------------------|----------------------|---------------------------|--|--------------|----------|-----------|
| Rippowam 2 | 6/13/2024 | 1122 | 19.2 | 10.18 | 469 | | > 2419.6 | 613.1 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| | | | | | | | | | | people collecting trash in river upstream, ducks and geese | | | |
| Rippowam 0.5 | 6/13/2024 | 1112 | 20.1 | 10.20 | 3125 | 1.6 | > 4839.2 | 872.1 | | upstream | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 0.5 | 6/13/2024 | 1112 | | | | | | | 836.1 | | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 7 | 6/17/2024 | | | | | | | | | bridge construction | CT7405-00_01 | 41.10559 | -73.5586 |
| Rippowam 5 | 6/17/2024 | 904 | 18.9 | 8.56 | 359 | | > 2419.6 | 261.3 | | | CT7405-00_01 | 41.08559 | -73.55664 |
| Rippowam 4 | 6/17/2024 | 913 | 18.8 | 6.44 | 378 | | > 2419.6 | 410.6 | | | CT7405-00_01 | 41.06617 | -73.55763 |
| Rippowam 3 | 6/17/2024 | 923 | 18.6 | 8.34 | 382 | | > 2419.6 | 980.4 | | | CT7405-00_01 | 41.06593 | -73.54912 |
| Rippowam 2 | 6/17/2024 | 935 | 18.9 | 8.74 | 401 | | > 2419.6 | 866.4 | | | CT7405-00_01 | 41.05904 | -73.54664 |
| Rippowam 0.5 | 6/17/2024 | 945 | 18.9 | 5.95 | 33893 | | > 4839.2 | 1841.7 | | geese upstream | CT-W1_018-SB | 41.04813 | -73.54542 |
| Rippowam 0.5 | 6/17/2024 | 945 | | | | 21.3 | | | 1106.1 | | CT-W1_018-SB | 41.04813 | -73.54542 |

| Site Name | Date | Time | Water Temp °C | Dissolved Oxygen mg/L | Conductivity µmho/cm | Salinity ppt | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Notes | 305B Segment | Latitude | Longitude |
|--------------|-----------|------|---------------|-----------------------|----------------------|--------------|-----------------------------|----------------------|---------------------------|--|--------------|-----------|-----------|
| Noroton 8 | 7/12/2023 | 1153 | 26.3 | 7.97 | 288.0 | | 1011.2 | 110.0 | | one large well empty | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 7/12/2023 | 1202 | 24.3 | 7.09 | 258.0 | | > 2419.6 | 198.9 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 7/12/2023 | 1214 | 27.8 | 7.06 | 269.9 | | 1011.2 | 62.7 | | one large well empty | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 7/12/2023 | 1234 | 26.6 | 7.06 | 273.7 | | > 2419.6 | 120.1 | | green particles | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 7/12/2023 | 1243 | 24.7 | 7.69 | 293.1 | | > 2419.6 | 613.1 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 7/12/2023 | 1252 | 25.7 | 6.98 | 356.9 | | > 2419.6 | 161.6 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 7/12/2023 | 1311 | 24.2 | 6.51 | 366.7 | | > 2419.6 | 517.2 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 7/12/2023 | 1321 | 25.4 | 3.73 | 33486.0 | 21 | > 2419.6 | 157.6 | | low tide | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 7/12/2023 | | | | | | | | | 387.7 low tide | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 7/17/2023 | 948 | 24.8 | 4.60 | 274.3 | | > 4839.2 | 476.4 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 7/17/2023 | 1003 | 23.4 | 6.65 | 232.8 | | > 4839.2 | 544.6 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 7/17/2023 | 1017 | 24.8 | 7.66 | 241.5 | | > 4839.2 | 393.7 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 7/17/2023 | 1030 | 25.2 | 6.64 | 266.5 | | > 4839.2 | 181.9 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 7/17/2023 | 1040 | 24.7 | 6.69 | 269.8 | | > 4839.2 | 730.8 | | 10+ ducks upstream | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 7/17/2023 | 1052 | 24.6 | 5.69 | 306.1 | | > 4839.2 | 821.2 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 7/17/2023 | 1110 | 24.1 | 5.04 | 311.1 | | 2022.3 | 872.1 | | one large well empty | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 7/17/2023 | 1121 | 24.0 | 6.83 | 325.1 | 0.2 | > 4839.2 | 1095.0 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 7/17/2023 | | | | | | | | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 8/10/2023 | 949 | 22.9 | 3.82 | 316.0 | | > 2419.6 | 49.5 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 8/10/2023 | 1014 | 21.3 | 6.92 | 276.8 | | > 2419.6 | 98.7 | | DO recalibrated | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 8/10/2023 | 1028 | 23.8 | 7.14 | 323.2 | | > 2419.6 | 25.9 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 8/10/2023 | 1040 | 22.3 | 6.20 | 326.5 | | > 2419.6 | 104.6 | | DO recalibrated | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 8/10/2023 | 1048 | 21.5 | 7.11 | 338.5 | | > 2419.6 | 307.6 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 8/10/2023 | 1104 | 22.4 | 6.36 | 410.6 | | > 2419.6 | 48.1 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 8/10/2023 | 1110 | 21.8 | 6.22 | 430.9 | | > 2419.6 | 290.9 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 8/10/2023 | 1122 | 22.6 | 1.87 | 36299.0 | 23 | > 2419.6 | 613.1 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 8/10/2023 | | | | | | | | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 8/15/2023 | 1056 | 22.7 | 5.09 | 267.6 | | > 4839.2 | 1632.8 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 8/15/2023 | 1044 | 20.7 | 7.65 | 206.6 | | > 4839.2 | > 4839.2 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 8/15/2023 | 1032 | 21.7 | 8.49 | 253.6 | | > 4839.2 | 3106.2 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 8/15/2023 | 1022 | 24.4 | 7.54 | 292.4 | | > 4839.2 | 279.2 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 8/15/2023 | 1015 | 23.7 | 7.34 | 302.8 | | > 4839.2 | 626.0 | | one large well empty | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 8/15/2023 | 1001 | 22.0 | 6.95 | 187.3 | | > 4839.2 | > 4839.2 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 8/15/2023 | 954 | 22.0 | 6.91 | 176.8 | | > 4839.2 | 4839.1 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 8/15/2023 | 945 | 22.1 | 7.48 | 221.3 | 0.1 | > 4839.2 | > 4839.2 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 8/15/2023 | | | | | | | | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 9/7/2023 | 1011 | 24.5 | 1.55 | 321.3 | | > 2419.6 | 155.3 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 9/7/2023 | 1022 | 22.3 | 6.80 | 295.7 | | 2419.6 | 20.1 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 9/7/2023 | 1031 | 26.2 | 8.13 | 329.0 | | > 2419.6 | 8.6 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 9/7/2023 | 1040 | 25.0 | 7.19 | 316.4 | | > 2419.6 | 142.1 | | DO recalibrated. Golf course just cut grass and clippings blown into river | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 9/7/2023 | 1100 | 23.4 | 6.10 | 329.2 | | > 2419.6 | 866.4 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 9/7/2023 | 1120 | 23.7 | 6.90 | 504.0 | | > 2419.6 | 77.1 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 9/7/2023 | 1129 | 23.4 | 6.27 | 512.0 | | > 2419.6 | 547.5 | | Ducks upstream. Conductivity felt high? Is that consistent? | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 9/7/2023 | 1139 | 25.0 | 1.14 | 33460.0 | 21.3 | > 4839.2 | 186.8 | | Conductivity felt high? Is that consistent? | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 9/7/2023 | | | | | | | | | 253.0 Turtles and small fish | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 9/18/2023 | 1215 | 18.5 | 7.71 | 143.9 | | > 4839.2 | > 4839.2 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 9/18/2023 | 1159 | 17.6 | 8.43 | 182.5 | | > 4839.2 | 922.2 | | DO recalibrated | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 9/18/2023 | 1150 | 18.5 | 8.78 | 236.8 | | > 4839.2 | 72.8 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 9/18/2023 | 1140 | 19.5 | 6.42 | 215.8 | | > 4839.2 | 730.8 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 9/18/2023 | 1132 | 19.1 | 7.34 | 185.7 | | > 4839.2 | 4839.2 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 9/18/2023 | 1105 | 18.2 | 7.27 | 321.1 | | > 4839.2 | 4839.2 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 9/18/2023 | 1057 | 18.3 | 7.12 | 312.4 | | > 4839.2 | 3465.8 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 9/18/2023 | 1047 | 18.7 | 7.67 | 328.2 | 0.2 | > 4839.2 | > 4839.2 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 9/18/2023 | | | | | | | | | | CT7403-00_01 | 41.06186 | -73.50814 |

| Site Name | Date | Time | Water Temp ° C | Dissolved Oxygen mg/L | Conductivity µmho/cm | Salinity ppt | Total Coliform (MPN/100 mL) | E. coli (MPN/100 mL) | Enterococcus (MPN/100 mL) | Notes | 305B Segment | Latitude | Longitude |
|--------------|-----------|------|----------------|-----------------------|----------------------|--------------|-----------------------------|----------------------|---------------------------|---------------------------------|--------------|-----------|-----------|
| Noroton 8 | 5/16/2024 | 1102 | 16.6 | 6.86 | 262.8 | | > 2419.6 | 275.5 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 5/16/2024 | 1053 | 15.3 | 8.44 | 234.3 | | > 2419.6 | 325.5 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 5/16/2024 | 1040 | 16.1 | 8.78 | 287.9 | | > 2419.6 | > 2419.6 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 5/16/2024 | 1030 | 17.1 | 8.80 | 287.8 | | > 2419.6 | 135.4 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 5/16/2024 | 1022 | 16.7 | 8.64 | 287.8 | | > 2419.6 | 517.2 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 5/16/2024 | 957 | 16.2 | 7.38 | 310.9 | | > 2419.6 | > 2419.6 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 5/16/2024 | 943 | 16.0 | 6.84 | 318.8 | | > 2419.6 | 1986.3 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 5/16/2024 | 932 | 15.5 | 5.90 | 33504.0 | 21 | > 2419.6 | 1299.7 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 5/16/2024 | | | | | | | | 1019.3 | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 5/22/2024 | 1044 | 19.6 | 2.12 | 410.9 | | > 2419.6 | 1203.3 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 5/22/2024 | 1059 | 18.7 | 7.89 | 135.4 | | > 2419.6 | 17.1 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 5/22/2024 | 1114 | 21.5 | 7.75 | 347.9 | | > 2419.6 | 23.3 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 5/22/2024 | 1129 | 21.7 | 7.66 | 314.9 | | > 2419.6 | 261.3 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 5/22/2024 | 1145 | 19.8 | 8.62 | 342.4 | | > 2419.6 | 727.0 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 5/22/2024 | 1200 | 20.3 | 5.64 | 512.0 | | > 2419.6 | 159.7 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 5/22/2024 | 1204 | 19.2 | 7.23 | 533.0 | | > 2419.6 | 325.5 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 5/22/2024 | 1224 | 22.6 | 9.85 | 11273.0 | 6.4 | > 2419.6 | 33.3 | | debris floating upstream | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 5/22/2024 | | | | | | | | 121.1 | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 6/6/2024 | 842 | 21.3 | 3.31 | 370.3 | | > 2419.6 | 920.8 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 6/6/2024 | 855 | 20.1 | 6.71 | 256.1 | | > 2419.6 | 1046.2 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 6/6/2024 | 907 | 22.4 | 7.60 | 290.8 | | > 2419.6 | 129.6 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 6/6/2024 | 918 | 22.8 | 6.28 | 277.6 | | 1011.2 | 1011.2 | | one empty big well | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 6/6/2024 | 926 | 21.4 | 6.10 | 286.5 | | > 2419.6 | > 2419.6 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 6/6/2024 | 939 | 21.0 | 5.37 | 360.2 | | > 2419.6 | > 2419.6 | | | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 6/6/2024 | 948 | 21.4 | 6.10 | 286.5 | | > 2419.6 | > 2419.6 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 6/6/2024 | 957 | 17.2 | 7.32 | 34891.0 | 22 | | | 12033.3 | not run for e.coli, only entero | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 6/6/2024 | | | | | | | | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 8 | 6/24/2024 | 1140 | 25.8 | 1.19 | 318.2 | | > 2419.6 | 272.3 | | | CT7403-00_03 | 41.15925 | -73.51421 |
| Noroton 7 | 6/24/2024 | 1151 | 24.0 | 6.09 | 208.0 | | > 2419.6 | 33.6 | | | CT7403-00_03 | 41.14108 | -73.51167 |
| Noroton 5 | 6/24/2024 | 1204 | 26.2 | 6.65 | 286.3 | | > 2419.6 | 30.7 | | | CT7403-00_03 | 41.11868 | -73.5013 |
| Noroton 4 | 6/24/2024 | 1216 | 24.9 | 5.87 | 297.5 | | > 2419.6 | 238.2 | | | CT7403-00_02 | 41.1029 | -73.50982 |
| Noroton 3 | 6/24/2024 | 1223 | 23.8 | 6.51 | 301.2 | | > 2419.6 | 1299.7 | | | CT7403-00_02 | 41.0954 | -73.5143 |
| Noroton 2 | 6/24/2024 | 1233 | 25.5 | 7.13 | 374.0 | | > 2419.6 | 81.3 | | geese upstream | CT7403-00_01 | 41.0753 | -73.5155 |
| Noroton 1.75 | 6/24/2024 | 1242 | 23.6 | 5.20 | 378.8 | | > 2419.6 | 770.1 | | | CT7403-00_01 | 41.072178 | -73.51099 |
| Noroton 1 | 6/24/2024 | 1253 | 24.1 | 1.34 | 21407.0 | | > 2419.6 | 74.7 | | | CT7403-00_01 | 41.06186 | -73.50814 |
| Noroton 1 | 6/24/2024 | 1253 | | | | 18.2 | | | 629.4 | | CT7403-00_01 | 41.06186 | -73.50814 |

Appendix L

2023-2024 DCIA Tracking Worksheet

| | A | B | C | D | E |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | CITY OF STAMFORD | | | | |
| 2 | DIRECTLY CONNECTED IMPERVOUIS AREA TRACKING WORKSHEET | | | | |
| 3 | SQUARE FEET OF NEWLY CONNECTED OR REDUCED AREAS | | | | |
| 4 | | 7/1/20-6/30/21 | 7/1/21-6/30/22 | 7/1/22-6/30/23 | 7/1/23-6/30/24 |
| 5 | 1 | 169 | 0 | 0 | 0 |
| 6 | 2 | 0 | 0 | -3157 | 2147 |
| 7 | 3 | 0 | 0 | n/a | 533 |
| 8 | 4 | 0 | 0 | 0 | -789 |
| 9 | 5 | n/a | n/a | 0 | 121 |
| 10 | 6 | n/a | -101 | -37700 | 173 |
| 11 | 7 | -130 | n/a | 3867 | 0 |
| 12 | 8 | n/a | n/a | 0 | 0 |
| 13 | 9 | 0 | n/a | -2333 | -58 |
| 14 | 10 | 0 | 0 | 120 | -29 |
| 15 | 11 | n/a | n/a | n/a | -5202 |
| 16 | 12 | 0 | 0 | -53 | 27879 |
| 17 | 13 | | n/a | 0 | -98958 |
| 18 | 14 | | n/a | 293 | n/a |
| 19 | 15 | | 0 | -495 | 0 |
| 20 | 16 | | -810 | -1470 | 247 |
| 21 | 17 | | n/a | n/a | 0 |
| 22 | 18 | | 0 | 0 | -428 |
| 23 | 19 | | 148 | n/a | 240 |
| 24 | 20 | | 0 | 0 | 0 |
| 25 | 21 | | 0 | -3688 | n/a |
| 26 | 22 | | 0 | -58 | -2285 |
| 27 | 23 | | -3152 | n/a | -24 |
| 28 | 24 | | -50 | 0 | n/a |
| 29 | 25 | | n/a | 0 | 0 |
| 30 | 26 | | -230 | -2237 | 0 |
| 31 | 27 | | n/a | 941 | 30 |
| 32 | 28 | | n/a | n/a | -280 |
| 33 | 29 | | | 2033 | 0 |
| 34 | 30 | | | n/a | 71.2 |
| 35 | 31 | | | 0 | -1758 |
| 36 | 32 | | | 3166 | -25 |
| 37 | 33 | | | -7377 | -263 |
| 38 | 34 | | | -484 | n/a |
| 39 | 35 | | | 0 | 3963 |
| 40 | 36 | | | -591 | 977 |
| 41 | 37 | | | n/a | -1313 |
| 42 | 38 | | | 0 | 850 |
| 43 | 39 | | | 850 | -591 |
| 44 | 40 | | | n/a | -484 |
| 45 | 41 | | | 0 | 0 |
| 46 | 42 | | | n/a | 3166 |
| 47 | 44 | | | 0 | 1247 |
| 48 | 45 | | | 0 | 941 |
| 49 | 46 | | | 977 | 0 |
| 50 | 47 | | | | 58 |
| 51 | 48 | | | | -502 |
| 52 | 49 | | | | -3688 |
| 53 | 50 | | | | 0 |
| 54 | 51 | | | | -495 |
| 55 | 52 | | | | 293 |
| 56 | 53 | | | | 120 |
| 57 | 54 | | | | n/a |
| 58 | 55 | | | | -2233 |
| 59 | TOTAL | 39 | -4195 | -47396 | -76348.8 |

Appendix M

2023-2024 Road Paving Program

Paving 2024

| Mill 1 | Mileage |
|----------------|---------|
| Yale Ct | 0.09 |
| Knollwood Ave | 0.17 |
| Longview Ave | 0.13 |
| Walnut Ridge | 0.17 |
| Evergreen Ct | 0.08 |
| Clovehill Dr | 0.34 |
| River Ridge Ct | 0.1 |
| Mercedes Ln | 0.11 |
| Stanton Dr | 0.19 |
| Three Lakes Dr | 0.28 |

| Reclaims | Mileage |
|--------------|---------|
| Hillview Ln | 0.07 |
| Stillview Rd | 0.11 |
| Macgreger Dr | |
| Akbar Rd | |
| Nicholes Ave | 0.4 |

| Mill 2 | From | To | Mileage |
|-----------------|----------------|----------------------|---------|
| Berkley St | Entire Street | | |
| Lipton Pl | Entire Street | | 0.13 |
| Atlantic Ave | Henry St | Lipton Pl - South En | 0.11 |
| Mariners Ln | Entire Street | | 0.11 |
| Mitchell St | Entire Street | | 0.2 |
| Sagamore Rd | Entire Street | | |
| Sagamore Ln | Entire Street | | |
| Ocean Dr W | Entire Street | | |
| Vanrenssler Ave | Entire Street | | |
| Lighthouse Way | Entire Street | | |
| Sound Ave | Entire Street | | 0.14 |
| Lanark Rd | Entire Street | | |
| Chesterfield Rd | Entire Street | | 0.15 |
| Gurley Rd | Entire Street | | 0.16 |
| Gleason Ave | Entire Street | | |
| St Marys St | Entire Street | | |
| Wardwell St | Entire Street | | |
| Ingall St | Entire Street | | |
| Park St | Entire Street | | |
| Cummings Ave | Entire Street | | |
| Frederick St | Wardwell St | Park St | |
| Owen St | Entire Street | | |
| McMullen Ave | Entire Street | | |
| James St | Entire Street | | |
| Soundview Ave | Entire Street | | |
| Vanbuskirk Ave | Entire Street | | |
| Greenwich Ave | South State St | Round-a-bout | |
| Bell St | Entire Street | | |

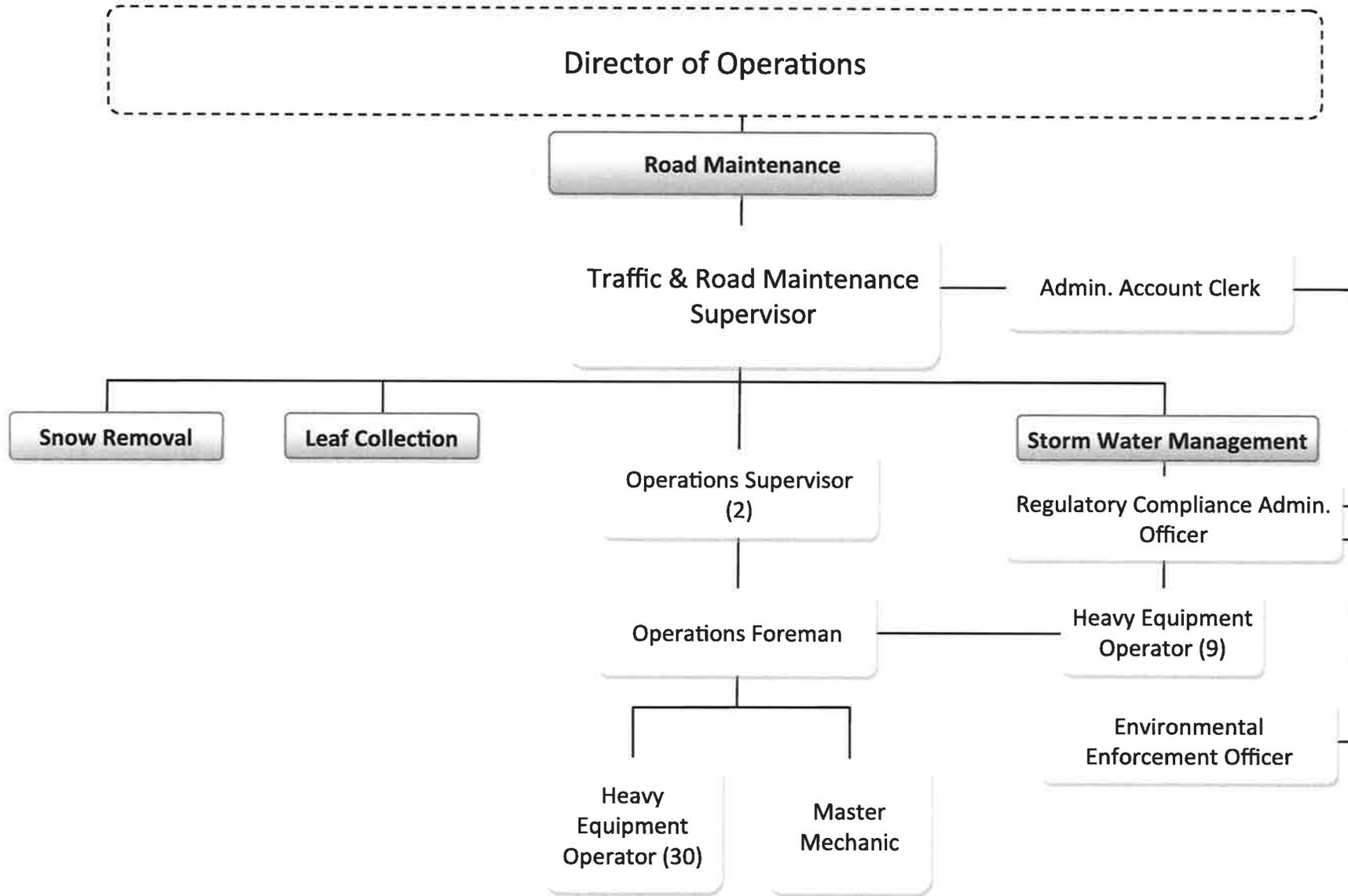
Stamford Restoration Projects 2024

| Work Location | From | To | Mileage |
|----------------------------|-----------------|-------------------|---------|
| Eighth St | Summer | Weil | |
| Waterford Ln | Eighth St | End of Rd | |
| Seventh St | Weil St | Summer St | 0.06 |
| Weil St | Eighth St | Seventh St | 0.09 |
| Leonard St | Belltown Rd | End of Rd | |
| Van Buskirk Ave | Cove Rd | 103 Van Buskirk | |
| Sachem Pl | Van Buskirk Ave | Uncas Rd | 0.04 |
| Uncas Rd | Sachem Pl | Wasussee La | 0.07 |
| Wascussee La | Uncas Rd | Sachem Pl | 0.05 |
| Wascussee La East - milled | Wascussee La | Willowbrook Ave | |
| Willowbrook Ave | Cove Rd | Hale St | 0.17 |
| Hale St | Willowbrook Ave | Ferro Dr | 0.08 |
| Willowbrook Pl | Hale St | 34 Willowbrook Pl | 0.08 |
| Ferro Dr | Hale St | 26 Ferro Dr | 0.04 |
| Kirkham Pl | Church St | Union St | 0.14 |
| Union St | Kirkham Pl | Hope St | 0.12 |
| Elm Tree Pl | Union St | Church St | 0.15 |
| Paragon Ln | Washington Blvd | 29 Paragon Ln | 0.06 |
| Third St | Bedford St | Morgan St | 0.18 |
| Morgan St | Third St | Fifth St | 0.13 |
| Fourth St | Bedford St | Revonah Ave | 0.14 |
| Old Colony Rd | Bouton St W | 139 Old Colony Rd | |
| Urban St | Bedford St | Revonah Ave | 0.23 |
| Revonah Ave | Revonah Cir | Chester St | 0.09 |
| Red Bird Rd | Pepper Ridge Rd | End of Rd | |
| Pepper Ridge Rd | Berrian Rd | Harvest Hill Ln | |
| Idlewood Dr | Idlewood Pl | Berrian Rd | |
| Chatfield St | Hope St | Edgewood Ave | |
| Bennett St | Hope St | Knickerbocker Ave | |
| Bridge St | Washington Blvd | Summer St | 0.14 |
| Woodmere Rd | Bridge St | Hubbard Ave | 0.15 |
| Pellom Pl | Hubbard Ave | Dead End | 0.1 |
| Pell Pl | End of Rd | | 0.06 |

Appendix N

2023-2024 SMD Road Maintenance

City of Stamford Office of Operations Road Maintenance



Appendix O

2023-2024 Harbor Watch Rivers Report



Technical Report

prepared for:

Tyler Theder
City of Stamford

Report Date: 07/27/2023

Project Name: 108 Cove Road Post Verification Screening

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

Acronym/Terms

- SW - saltwater
- QC - quality control
- Dupe - field duplicate
- FTB - field trip blank
- ppm - parts per million
- MPN/100 mL - most probable number per 100 mL (this is a unit of measurement for bacteria concentrations based on statistics rather than direct counts of specific colonies)
- n/a - indicates that results for a sample were unable to be quantified due to field or lab impediments
- > - indicates that the results exceeded the maximum reporting limit
- < - indicates that the results were less than the minimum reporting limit
- FW - freshwater
- DI - deionized water
- Rep - laboratory replicate
- mg/L - milligrams per liter
- uS/cm - microsiemens per centimeter

Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Project #1 – Cove Rd

Field Summary:

- No active flow was observed in this system; all samples were collected in standing water.
 - Water in MH-9681 reached the exit pipe, but flow was not observed into MH-7921.
 - Unsure of why enterococci value is elevated at station MH-9681.
- Elevated surfactants levels likely due to oils from newly paved road, slight oil sheen in all basins.
- **Data suggests that sewage issue has been resolved.**

Table 1. Results of indicator bacteria from testing conducted on 7/25/23.

| Site Name | Date | Ammonia | Surfactants | Chlorine | <i>E. coli</i> (MPN/100 mL) | Enterococci (MPN/100 mL) | Notes |
|-----------|---------|---------|-------------|----------|--------------------------------|-----------------------------|--|
| New CB 6 | 7/25/23 | | | | | | Standing water, no flow in or out. Water level not high enough to exit pipe. |
| New MH 5 | 7/25/23 | 0.0 | 0.25 | 0.05 | < 2 | < 10 | Standing water, side pipe partially submerged. Water level not high enough to exit pipe. |
| IN-11798 | 7/25/23 | 0.0 | 0.75 | 0.08 | 4 | 156 | Standing water, no flow in or out. |
| New MH 3 | 7/25/23 | | | | | | No flow in or out from main flow or side pipe. |
| MH-9681 | 7/25/23 | 0.0 | 1.50 | 0.07 | 263 | > 24,196 | Basin full of water, no flow in. Water level just high enough to exit pipe. |
| MH-7621 | 7/25/23 | | | | | | Standing water, no flow in or out. Water level not high enough to exit pipe. |

Image 1. Overview of sites from Cove Rd testing conducted on 7/25/23.



Project #2 – Cummings

Field Summary:

- Manhole basins were fairly full of water, but no flow was observed.

Table 2. Results of indicator bacteria from testing conducted on 7/25/23.

| Site Name | Date | Ammonia | Chlorine | <i>E. coli</i> (MPN/100 mL) | Enterococci (MPN/100 mL) | Notes |
|-----------|-----------|---------|----------|--------------------------------|-----------------------------|----------|
| MH-5714 | 7/25/2023 | 0.0 | 0.01 | 1,842 | 10,462 | |
| MH-5715 | 7/25/2023 | 0.0 | 0.01 | 449 | 8,164 | |
| DIS-917 | 7/25/2023 | 0.0 | 0.01 | 4,839 | 109 | Low tide |

Image 2. Overview of sites from Cummings Park testing conducted on 7/25/23.





Technical Report

prepared for:

Tyler Theder

Report Date: 07/26/2023

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

Acronym/Terms

- SW - saltwater
- QC - quality control
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- FTB - field trip blank
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- DI - deionized water
- Rep - laboratory replicate
- mg/L - milligrams per liter
- uS/cm - microsiemens per centimeter

Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results from tests conducted at MH-477 on Merrell Avenue on 7/26/23

| Site Name | Ammonia | Surfactants | pH | Chlorine |
|-------------------|---------|-------------|-----|----------|
| MH-477 South Pipe | 0 | 0.25 | 7.2 | 0.05 |
| MH-477 East Pipe | 0 | 0.50 | 6.8 | 0.00 |

Summary:

- *Field Summary:*
 - *Flow was observed coming into the manhole from the southern pipe (sample appeared to be very clear) and the eastern pipe (sample was rust colored).*
 - *Some bubbles on the surface were also observed. Samples were brought back to the Harbor Watch laboratory for surfactant analysis.*
 - *Chlorine was tested using two different methods. The results reported in the table above were from a colorimeter. Test strips to measure total and free chlorine were also used and results were 0 for both pipes.*



Technical Report

prepared for:

Tyler Theder
City of Stamford

Report Date: 08/04/2023

Project Name: 101 Dean Street

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Field Summary:

- Samples were collected near 101 Dean Street as a result of suspicious observations from CCTV work.
- **Data suggests that bacteria is not an issue at this time.**

Table 1. Results of indicator bacteria from testing conducted on 8/2/23.

| Site Name | Date | Ammonia (ppm) | Surfactants (ppm) | pH | Chlorine (mg/L) | <i>E. coli</i> (MPN/100 mL) | Notes |
|------------------------|----------|---------------|-------------------|------|-----------------|-----------------------------|----------|
| MH 7464 Northwest Pipe | 8/2/2023 | 0.0 | 0.25 | 7.40 | 0.03 | <2 | |
| MH 7464 North Pipe | 8/2/2023 | 0.0 | 0.25 | 7.50 | 0.02 | 108 | |
| MH 7464 South Pipe | 8/2/2023 | 0.0 | 0.25 | 7.60 | 0.01 | 161 | |
| West & East CBs | 8/2/2023 | | | | | | Stagnant |



Technical Report

prepared for:

Tyler Theder

Company Name:

City of Stamford

Report Date: 11/20/2023

Client Project ID: Trackdown – Nutmeg Ln & Pepper Ridge Rd

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results of testing conducted on 11/15/23.

| Site Name | Date | Time | Ammonia (ppm) | Surfactants (ppm) | pH | Chlorine (mg/L) | <i>E. coli</i> (MPN/100mL) |
|--------------------------|------------|------|---------------|-------------------|-----|-----------------|----------------------------|
| MH Nutmeg & Pepper Ridge | 11/15/2023 | 1103 | 0 | 0.25 | 6.9 | 0.01 | > 4,839 |
| MH 1961 | 11/15/2023 | 1141 | 0 | 0.25 | 7.2 | 0 | 1,298 |

Summary:

- At the request of Tyler Theder, Harbor Watch sampled 2 manholes on Pepper Ridge Road due to concerns of an uncovered pipe found during construction. The pipe was repaired by the time Harbor Watch conducted sampling.
- The result of are above in Table 1. At this time the results for ammonia, surfactants, pH, and chlorine would not indicate any illicit discharge.
- Bacteria concentrations are elevated above state criteria, with the upstream manhole having observed higher concentrations.

Next Steps:

- Harbor Watch will conduct follow up testing as requested.



Technical Report

prepared for:

Tyler Theder

Company Name:

City of Stamford

Report Date: 12/7/2023

Client Project ID: Trackdown – Cummings Beach

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results of testing conducted on 12/4/23.

| Site Name | Date | Ammonia | pH | Chlorine | <i>E. coli</i> (MPN/100 mL) | Enterococcus (MPN/100 mL) |
|-----------|-----------|---------|-----|----------|--------------------------------|------------------------------|
| IN-A | 12/4/2023 | 0 | 6.8 | 0 | 42 | 529 |
| IN-8825 | 12/4/2023 | 0 | 7 | 0 | 32 | 379 |
| DIS-926 | 12/4/2023 | 0 | 6.8 | 0 | 14 | 189 |

Map:

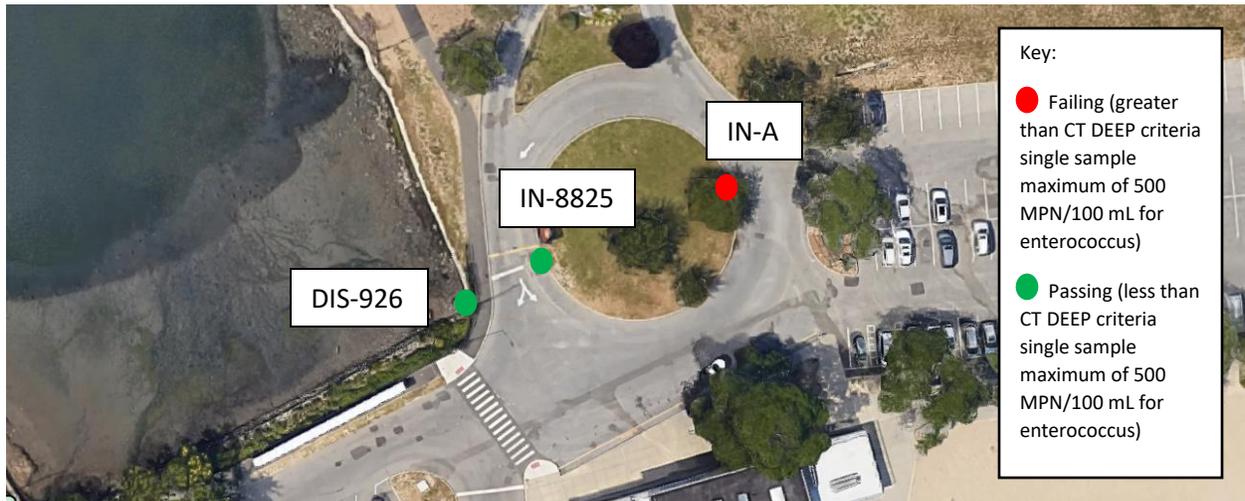


Image 1. Map of sampling area with enterococcus results represent according to the key.

Summary:

- At the request of Tyler Theder, Harbor Watch sampled 2 catchbasins and an outfall in Cummings Park near the beach due to an odor and discoloration observed on 12/1/23 at site IN-8825
- Ammonia, pH, and chlorine results were all within normal range
- In Table 1, all sites passed CT DEEP single sample maximum criteria for *E. coli* (576 MPN/100 mL); sites DIS-926 and IN-8825 passed and site IN-A failed CT DEEP single sample maximum criteria for enterococcus (500 MPN/100 mL)
 - It should be noted that on 12/3/23 a nearby rain gauge recorded 0.64 inches of rainfall which may affect results

Next Steps:

- Harbor Watch will conduct follow up testing as requested.



Technical Report

prepared for:

Tyler Theder

Company Name

City of Stamford

Report Date: 01/22/2024

Client Project ID: Stamford Harbor – Sheen on water investigation

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results: For this project, no samples were collected.

Summary:

- The Harbor Master reached out to The City of Stamford about a possible oil/grease/gas sheen pollution input into Stamford Harbor.
- On 11/14/23 Harbor Watch met with Tyler Theder to review maps to understand locations of possible contributors to oil/grease/gas sheen. Visual assessments were conducted by walking the boardwalk areas from Pacific Street north to its end, Waterside Park, Pulaski St, and Hinckley Yacht Services south to 94 Southfield Avenue. No large patches of any sheen were observed, but a small sheen was observed near DIS-1447 on Pulaski Street at 3:05 pm (Image 1) and by the time staff returned with sampling equipment at 3:17pm the sheen was no longer present (Image 2).
- Based on observations from 11/14/23, Harbor Watch deployed a boom at DIS-1447 on 12/4/23 (Image 3). It should be noted that on 12/3/23 a nearby rain gauge recorded 0.64 inches of rainfall, which may account for the murkiness of the water in the image.
- A follow up inspection was conducted on 12/8/23, no accumulation was observed (Image 4 and 5).
- A follow-up observation was conducted on 12/13/23 by Tyler Theder, where a slight sheen was observed, but we were unable to confirm the nature of this sheen as there was not enough to collect for testing (Image 6). It should be noted that this amount is not uncommon near such a densely trafficked stormwater outfall and was the result of accumulation over the course of 9 days of boom installation.
- Follow-up observations were conducted on 12/29/23 and 01/17/24 by Tyler Theder; at both times, there was not enough sample to collect for testing.
- We conclude that this outfall is not the source of the possible oil/grease/gas sheen pollution input observed in Stamford Harbor based on size of reported/photographed initial sheen.
- There are plans to remove and properly dispose of the boom on 01/31/24.

Images:

Image 1. DIS-1447 on 11/14/23 at 3:05 pm (view from top).

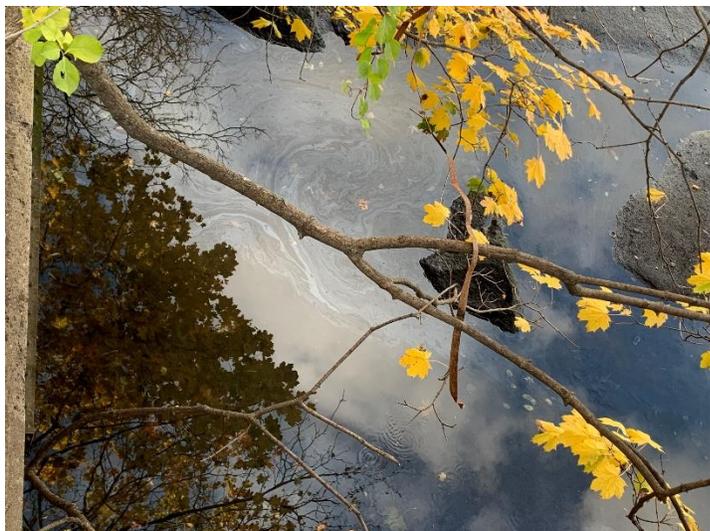


Image 2. DIS-1447 on 11/14/23 at 3:17 pm



Image 3. Boom at DIS-1447 right after deployment on 12/4/23.



Image 4. Photo of DIS-1447 from follow up visit on 12/8/23.



Image 5. View from above of DIS-1447 from follow up visit on 12/8/23 (view from top).



Image 6. View from above of DIS-1447 from follow up visit on 12/13/23 (view from top).





Technical Report

prepared for: Tyler Theder

Company Name

City of Stamford

Report Date: 04/10/2024

Client Project ID: Saddle Rock Road Investigation

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results from sampling on Saddle Rock Road on 4/8/2024

| Site Name | Date | Ammonia | Surfactants | Chlorine | pH | <i>E. coli</i> Result (MPN/100 mL) | Enterococci Result (MPN/100ml) | QC done | Pass QC Test? |
|------------------------|--------|---------|-------------|----------|-----|------------------------------------|--------------------------------|---------|---------------|
| Discharge – Sump Pump? | 4/8/24 | 0 | 0.25 | 0.02 | 6.8 | <1 | <10 | Rep | PASS |
| Catchbasin | 4/8/24 | 0 | 0.25 | 0.04 | 7.2 | <1 | 29.8 | - | - |
| MH3915 | 4/8/24 | 0 | 2.0* | 0.02 | 7.3 | <1 | 10 | - | - |
| HW Lab Blank | 4/8/24 | - | - | - | - | - | - | Blank | PASS |

*While this result is elevated, we have been told from the manufacturer that the test may provide false positives in brackish or salt water. The sample had a salinity of 5.9 ppt at the time of processing. Given the low results of the other parameters, we believe this may be a false positive reading. The “discharge sump pump?” and “catchbasin” samples had salinity readings of 0.1 ppt.

Summary:

- Harbor Watch responded to a request to investigate a sewage odor and discharge from the ground in the vicinity 34-60 Saddle Rock Road.
- Sampling occurred around high tide on 4/8/24 (in the 3:00pm hour)
- Sewage odor was present at the Discharge - sump pump? site. Additionally, a tidal smell was present at MH3915.

Next Steps:

- Harbor Watch suggests investigating the area a bit more to isolate the sewage odor source. Additional sampling would be required, and we would suggest focusing the monitoring efforts at low tide.



Technical Report

prepared for: Tyler Theder

CC: Michael Estremera

Company Name

City of Stamford

Report Date: 04/18/2024

Client Project ID: Saddle Rock Road Follow-up

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results from sampling on Saddle Rock Road on 4/15/2024

| Site Name | Date | Ammonia (ppm) | E. coli (MPN/100 mL) | Enterococci (MPN/100 mL) | Notes |
|-----------|-----------|---------------|----------------------|--------------------------|----------------|
| IN-3170 | 4/15/2024 | 0.0 | | | Stagnant water |
| IN-2932 | 4/15/2024 | | | | Stagnant water |
| Sump Pump | 4/15/2024 | 0.0 | < 2.0 | < 10.0 | |
| IN-3171 | 4/15/2024 | | | | Stagnant water |
| MH-3912 | 4/15/2024 | 0.0 | 6.1 | 30.6 | |
| DIS-11 | 4/15/2024 | 0.0 | 4.0 | 40.9 | |

Maps:

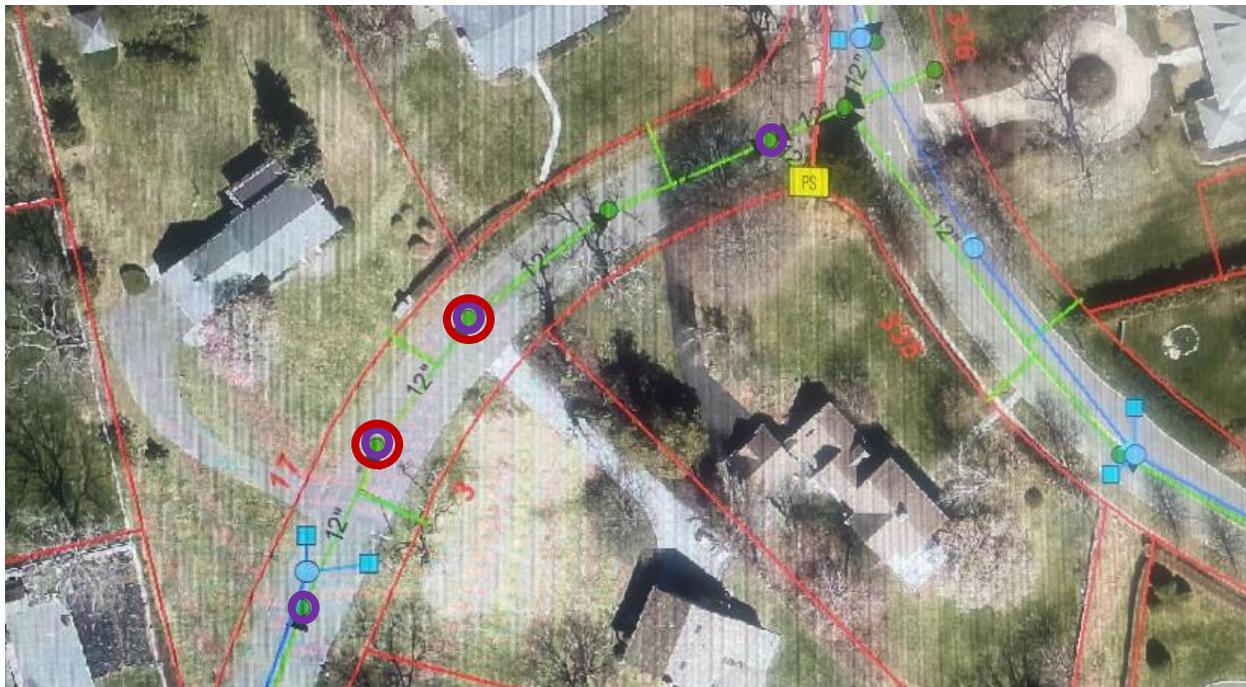


Image 1. Map of storm water system, green line indicates sanitary system, blue line indicates storm system.

Summary:

- Harbor Watch responded to a request to investigate a sewage odor and discharge from the ground in the vicinity 34-60 Saddle Rock Road on 4/8/24, this sampling is following up to this situation.
- Sampling occurred between 11:45am - 1:15pm and low tide was at 11:56am.
- An odor was present upon arrival, a truck drove over a manhole in front of 17 Saddle Rock Rd and a liquid splashed out. The Harbor Watch field team opened 4 sanitary manholes, circled purple on the map (Image 1). The 2 manholes circled in red had liquid with an odor at the surface, no samples were collected, while the 2 without the red circle had ordinary flow.
- Bacteria concentrations in the storm sewer system do not appear to be the cause of any odors in the area.



Technical Report

prepared for:

Tyler Theder

Company Name:

City of Stamford

Report Date: 5/23/2024

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
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Approved By:



Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Summary:

- Day 1: May 21, 2024. High Tide 10:46am.
 - Harbor Watch arrived at 9:30am at Tyler Theder’s office to discuss a gameplan. The object of the investigation was to track salinity at major points in the system to confirm that tidal flow was being observed in the manholes (MH-12) and catchbasins (IN-14, IN-15) at the intersection of Cummings Park Road and Shippan Avenue.
 - The table below depicts the data collected at each stormwater structure as well as observational notes. The readings collected near DIS-6 in the east branch of Stamford Harbor ranged from 13.8 – 19.2 ppt (surface vs bottom, a distance of approximately 2.5 feet). For reference, Long Island Sound bottom waters range from 22-32ppt. The other readings throughout the systems were also indicative of tidal water influence.
- Day 2: May 22, 2024. High Tide 11:24am.
 - Serendipitous timing presented the opportunity to look at the system while the pump station had been dewatered and the inlet piping to the pump station was blocked off due to a scheduled fire department training. Harbor Watch arrived at 9:35am at Cummings Park Road to observe flow in the catchbasins (IN-14, IN-15) at the intersection with Shippan Avenue. At this time, no flow was observed in the catchbasins. The water level in each basin was below the bottom of the inlet pipe. At 9:55am, we began to observe a small amount of flow at MH-12, IN-14, and IN-15. Flow continued to increase over the course of the next hour. An increase in salinity was also documented (figure 1).
 - We added dye to the system in MH-12 at approximately 10am, and Tyler Theder walked the system downstream to the pump station and confirmed its presence. At approximately 10:50am, Tyler Theder and Harbor Watch drove to Hanover Street to add dye to the system at MH-1159 and MH-1160. Flow was observed to be swirling, but it was unclear if there was movement in or out of the basin. A buildup of sediment and organic debris was blocking the main pipe and organic debris near the opening of the cover would indicate tidal influence (image 3). MH-12 was observed until 11:24am for evidence of dye from further upstream, but none was observed. At 11:06am WPCA opened the sump gate #1 and Harbor Watch observed evidence of dye from the test at 10am at MH-12 entering the pump station (image 1).

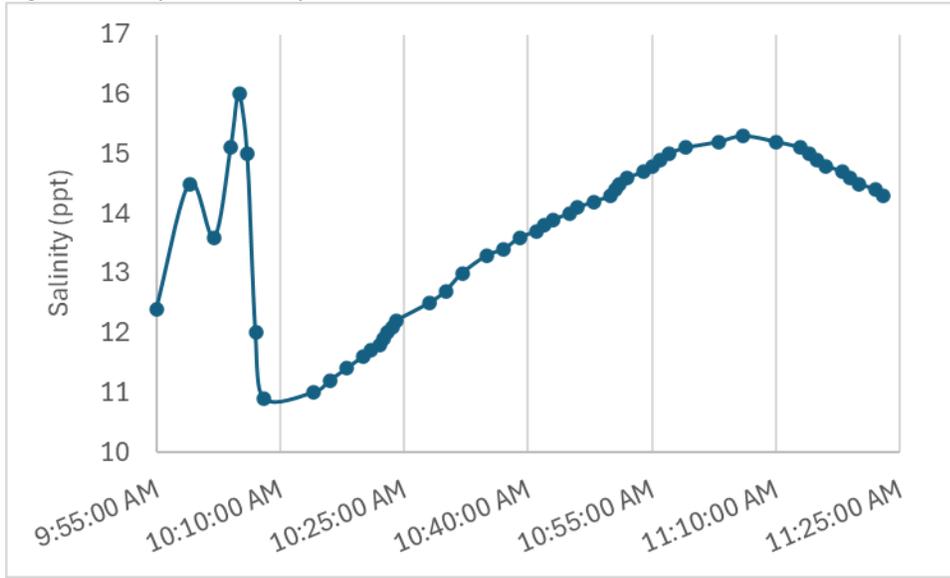
Results:

Table 1. Day 1 (5/21/24) field observations

| Site | Time | Salinity (ppt) | Conductivity (uS) | Notes |
|-------|------|--------------------------------|----------------------------------|---|
| DIS-6 | 1027 | 13.8 (top)/19.2 (bottom) | 22711 (top)/30823 (bottom) | Unable to lay eyes on pipe. Took readings where we thought it was located at rocks (41.0433554, -73.5299069) |
| MH-22 | 1043 | 12.3 (top)/20.5 (bottom) | 20511 (top)/32764 (bottom) | Did not observe flow. Deep basin, unsure if meter reached the bottom |
| IN-76 | 1054 | | | No Flow, unsure how connects to downstream manhole. Water level not high enough to exit pipes. Pipes dry with one pipe looking damp or stained (but not suspicious) |

| | | | | |
|---------|------|--------------------------------|----------------------------------|---|
| IN-77 | 1055 | | | No flow. Seems to match mapping. Water level not high enough to exit pipes. |
| MH-21 | 1059 | | | No flow. Tons of bottles on surface. Water not high enough to reach pipe. |
| MH-1120 | | | | Did not access. Truck on MH per Mike E. |
| MH-51 | 1122 | 13.8 (top)/20.8 (bottom) | 22763 (top)/33083 (bottom) | MH in front of right two bays at transfer station. Upwelling observed in MH. |
| MH-1116 | 1138 | 20.5(top)/20.6 (bottom) | 32843 (top)/32858 (bottom) | Full of water. No flow really. Jellyfish present. Oil sheen on surface. |
| MH-12 | 1150 | 16.2 | 26475 | Welded (but Mike opened). Shallow depth. Water looked cleaner than closer to the harbor. Flow very obviously heading to IN-15 and IN-14 |
| IN-15 | 1147 | 16.2 (top)/16.2 (bottom) | 26339 (top)/26477 (bottom) | Lots of flow in. Water looked cleaner than closer to the harbor. |
| IN-14 | 1149 | 16.2 (top)/16.2 (bottom) | 26389 (top)/26356 (bottom) | Lots of flow in. Water looked cleaner than closer to the harbor. |
| IN-16 | | | | Fish present. Pulsing/Push and Pull at exit pipe. Lots of water. |
| IN-17 | | | | Full, but no movement observed |
| MH-10 | 1204 | 16.5 (top)/16.0 (bottom) | 26802 (top)/26065 (bottom) | Lots of flow. Pipes submerged but can see flow. Possible mitten crab sighting. |
| MH-"I" | 1214 | 16.2 (top)/17.0 (bottom) | 26251 (top)/27544 (bottom) | Movement observed. Flow from short line on map (towards wetland pond). Observed two jellyfish being pulled towards MH 10. (Not on our GIS layers...we labeled it "I" on the maps Tyler printed) |
| MH-13 | 1227 | 16.6 | 27000 | Grass clippings observed to be pulled towards MH "I" |
| IN-19 | | | | Some standing water |
| MH-14 | 1233 | 16.4 (top)/16.5 (bottom) | 26707 (top)/26848 (bottom) | Less obvious flow, but pulling some debris towards MH 13 |
| IN-15 | 1244 | 15.4 | 24761 | Second reading. Flow obviously reduced. Taken approximately hour after the first time. |
| MH-3897 | 1304 | 11.7 (top)/12.1 (bottom) | 19598 (top)/20262 (bottom) | Flow going towards intersection. Odd pipe going through bottom of basin (image 2). |

Figure 1. Graph of salinity values at MH-12.



Conclusions: The flow observed at MH-12 began approximately 2 hours before high tide and was documented to be tidal water based on salinity values. This flow is connected to the pump station in Cummings Park.

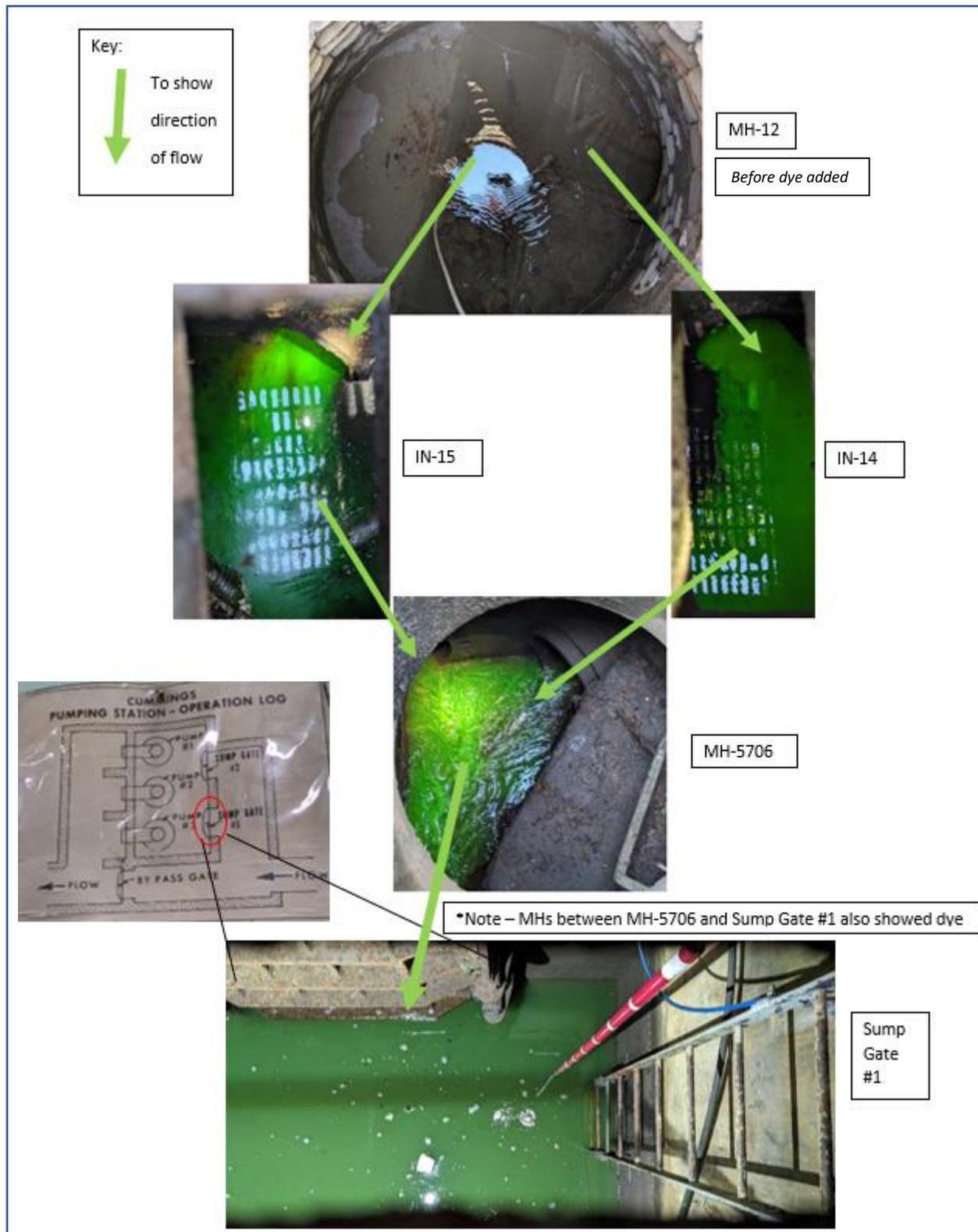


Image 1. Photos of the dye from MH 12 to Sump Gate #1 at the pump stations at Cummings Park on Day 2 5/22/24.



Image 2. MH-3897 (located near the intersection of Harbor Dr and Shippan)



Image 3. MH 1159, organic debris build-up observed near the opening, indicating tidal influence.

Appendix P

2023-2024 Wet Weather Sampling



Monday, September 11, 2023

Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Project ID: STAMFORD MS4
SDG ID: GCO83823
Sample ID#s: CO83823 - CO83830

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

September 11, 2023

SDG I.D.: GCO83823

Project ID: STAMFORD MS4

| Client Id | Lab Id | Matrix |
|-----------|---------|-------------|
| DIS-665 | CO83823 | STORM WATER |
| DIS-1466 | CO83824 | STORM WATER |
| DIS-1467 | CO83825 | STORM WATER |
| DIS-926 | CO83826 | STORM WATER |
| DIS-965 | CO83827 | STORM WATER |
| DIS-962 | CO83828 | STORM WATER |
| DIS-927 | CO83829 | STORM WATER |
| DIS-918 | CO83830 | STORM WATER |



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

12:40
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83823

Project ID: STAMFORD MS4
Client ID: DIS-665

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 08/26/23 00:38 | CL | E353.2 |
| Nitrate-N | 0.03 | 0.02 | mg/L | 1 | 08/26/23 00:38 | CL | E353.2 |
| Nitrogen Tot Kjeldahl | 0.53 | 0.20 | mg/L | 2 | 09/08/23 | KDB | E351.1 |
| Total Nitrogen | 0.56 | 0.10 | mg/L | 1 | 09/08/23 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.069 | 0.010 | mg/L | 1 | 08/29/23 | JR | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

10:29
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83824

Project ID: STAMFORD MS4
Client ID: DIS-1466

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|--------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | 0.015 | 0.010 | mg/L | 1 | 08/26/23 00:39 | CL | E353.2 |
| Nitrate-N | 0.21 | 0.02 | mg/L | 1 | 08/26/23 00:39 | CL | E353.2 |
| Nitrogen Tot Kjeldahl | 1.87 | 0.20 | mg/L | 2 | 09/08/23 | KDB | E351.1 |
| Total Nitrogen | 2.10 | 0.10 | mg/L | 1 | 09/08/23 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.772 | 0.010 | mg/L | 1 | 08/30/23 | JR | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

10:20
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83825

Project ID: STAMFORD MS4
Client ID: DIS-1467

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|--------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | 0.014 | 0.010 | mg/L | 1 | 08/26/23 00:35 | CL | E353.2 |
| Nitrate-N | 0.24 | 0.02 | mg/L | 1 | 08/26/23 00:35 | CL | E353.2 |
| Nitrogen Tot Kjeldahl | 0.96 | 0.20 | mg/L | 2 | 09/08/23 | KDB | E351.1 |
| Total Nitrogen | 1.21 | 0.10 | mg/L | 1 | 09/08/23 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.282 | 0.010 | mg/L | 1 | 08/30/23 | JR | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

12:10
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83826

Project ID: STAMFORD MS4
Client ID: DIS-926

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|----------------------|--------|------------|-------------|----------|----------------|-------|--------------------|
| Enterococci Bacteria | 13000 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | 9230DEnterolert-13 |
| Fecal Coliforms MPN | 14400 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | Colilert-18 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

11:18
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83827

Project ID: STAMFORD MS4
Client ID: DIS-965

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 08/26/23 00:53 | CL | E353.2 |
| Nitrate-N | 0.60 | 0.02 | mg/L | 1 | 08/26/23 00:53 | CL | E353.2 |
| Nitrogen Tot Kjeldahl | 0.76 | 0.20 | mg/L | 2 | 09/08/23 | KDB | E351.1 |
| Total Nitrogen | 1.36 | 0.10 | mg/L | 1 | 09/08/23 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.883 | 0.010 | mg/L | 1 | 08/30/23 | JR | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

12:42
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83828

Project ID: STAMFORD MS4
Client ID: DIS-962

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 08/26/23 00:40 | CL | E353.2 |
| Nitrate-N | 0.65 | 0.02 | mg/L | 1 | 08/26/23 00:40 | CL | E353.2 |
| Nitrogen Tot Kjeldahl | 12.5 | 0.20 | mg/L | 2 | 09/08/23 | KDB | E351.1 |
| Total Nitrogen | 13.2 | 0.10 | mg/L | 1 | 09/08/23 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.170 | 0.010 | mg/L | 1 | 08/30/23 | JR | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

12:15
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83829

Project ID: STAMFORD MS4
Client ID: DIS-927

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|----------------------|--------|------------|-------------|----------|----------------|-------|--------------------|
| Enterococci Bacteria | 34700 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | 9230DEnterolert-13 |
| Fecal Coliforms MPN | 48400 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | Colilert-18 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 11, 2023

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: STORM WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by: WS
Received by: B
Analyzed by: see "By" below

Date

08/25/23
08/25/23

Time

12:41
18:00

Laboratory Data

SDG ID: GCO83823
Phoenix ID: CO83830

Project ID: STAMFORD MS4
Client ID: DIS-918

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|----------------------|--------|------------|-------------|----------|----------------|-------|--------------------|
| Enterococci Bacteria | >48400 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | 9230DEnterolert-13 |
| Fecal Coliforms MPN | >48400 | 20 | MPN/100 mls | 20 | 08/25/23 19:30 | DT/DT | Colilert-18 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 11, 2023

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

September 11, 2023

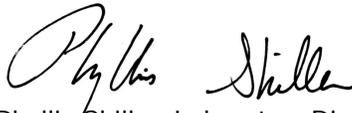
QA/QC Data

SDG I.D.: GCO83823

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|-------|-----------|------------------|---------------|------------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 694609 (mg/L), QC Sample No: CO83247 (CO83823) | | | | | | | | | | | | | |
| Phosphorus, as P | BRL | 0.01 | 5.71 | 5.73 | 0.30 | 99.8 | | | 104 | | | 85 - 115 | 20 |
| Comment: Additional criteria matrix spike acceptance range is 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 694800 (mg/L), QC Sample No: CO84396 (CO83824, CO83825, CO83827, CO83828) | | | | | | | | | | | | | |
| Phosphorus, as P | BRL | 0.01 | 0.131 | 0.131 | 0 | 102 | | | 89.5 | | | 85 - 115 | 20 |
| Comment: Additional criteria matrix spike acceptance range is 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 694287 (mg/L), QC Sample No: CO83751 (CO83823, CO83824, CO83825, CO83827, CO83828) | | | | | | | | | | | | | |
| Nitrate-N | BRL | 0.02 | 0.03 | 0.02 | NC | 101 | | | 97.4 | | | 90 - 110 | 20 |
| Nitrite-N | BRL | 0.01 | 0.011 | <0.01 | NC | 106 | | | 99.4 | | | 90 - 110 | 20 |
| QA/QC Batch 695955 (mg/L), QC Sample No: CO83253 (CO83823, CO83824, CO83825, CO83827, CO83828) | | | | | | | | | | | | | |
| Nitrogen Tot Kjeldahl | BRL | 0.10 | 1.73 | 1.63 | 6.00 | 108 | | | 114 | | | 85 - 115 | 20 |
| Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS. Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%. | | | | | | | | | | | | | |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 September 11, 2023

Monday, September 11, 2023

Criteria: CT: SWP

State: CT

Sample Criteria Exceedances Report

GCO83823 - WESTSAMP

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

September 11, 2023

SDG I.D.: GCO83823

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Emily Stokes

From: Emily Stokes
Sent: Friday, August 25, 2023 7:35 PM
To: vasamsettir@wseinc.com
Cc: Tara Banning; Rashmi Makol; Raisa Petraitis
Subject: Extra Bacteria Received Not Listed on COC
Attachments: SKM_458e23082520040.pdf; 20230825_191150.jpg; 20230825_191155.jpg

Importance: High

Good evening,

We received your samples tonight and we received an extra bacteria and it had illegible writing on it. Everything else on the COC matched the bottles we received.

Since you have listed Fecal and Enterrococi for analysis, we will run this sample as that so it does not go past hold.

Please confirm that you would like this sample run for these analyses at the earliest possible convenience. Thank you!

I've attached a photo of the sample and a copy of the COC.

Emily Stokes

Sample Receiving
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
emilys@phoenixlabs.com
PH: 860-645-1102 ext:369
FX: 860-645-0823



CLIENT NOTIFICATION Positive Coliform Report

8/26/2023 4:50:26 PM

Sample Delivery Group: GCO83823

Location Code: WESTSAMP

Project: STAMFORD MS4

| Phoenix ID | Client Id | Matrix | Rush | T-COLI | | | E-COLI | | | F-COLI | | | ENTERO | | | |
|------------|-----------|--------|------|--------|-------|------|--------|-------|------|--------|------------|----------|---------|------------|------|--|
| | | | | Result | Units | Date | Result | Units | Date | Result | Units | Date | Result | Units | Date | |
| CO83826 | DIS-926 | SW | | n.a. | | | n.a. | | | 14400 | mpn/100mls | 08/25/23 | Pending | mpn/100mls | | |
| CO83829 | DIS-927 | SW | | n.a. | | | n.a. | | | 48400 | mpn/100mls | 08/25/23 | Pending | mpn/100mls | | |
| CO83830 | DIS-918 | SW | | n.a. | | | n.a. | | | >48400 | mpn/100mls | 08/25/23 | Pending | mpn/100mls | | |

Contact: AutoNotify

Date: 8/26/2023 4:50:26 PM

Comments: Client Auto Notified via email: vasamsettir@wseinc.com



CLIENT NOTIFICATION Positive Coliform Report

8/26/2023 8:25:02 PM

Sample Delivery Group: GCO83823

Location Code: WESTSAMP

Project: STAMFORD MS4

| Phoenix ID | Client Id | Matrix | Rush | T-COLI | | | E-COLI | | | F-COLI | | | ENTERO | | |
|------------|-----------|--------|------|--------|-------|------|--------|-------|------|--------|------------|----------|--------|------------|----------|
| | | | | Result | Units | Date | Result | Units | Date | Result | Units | Date | Result | Units | Date |
| CO83826 | DIS-926 | SW | | n.a. | | | n.a. | | | 14400 | mpn/100mls | 08/25/23 | 13000 | mpn/100mls | 08/25/23 |
| CO83829 | DIS-927 | SW | | n.a. | | | n.a. | | | 48400 | mpn/100mls | 08/25/23 | 34700 | mpn/100mls | 08/25/23 |
| CO83830 | DIS-918 | SW | | n.a. | | | n.a. | | | >48400 | mpn/100mls | 08/25/23 | >48400 | mpn/100mls | 08/25/23 |

Contact: AutoNotify

Date: 8/26/2023 8:25:01 PM

Comments: Client Auto Notified via email: vasamsettir@wseinc.com



Thursday, January 04, 2024

Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Project ID: STAMFORD MS4
SDG ID: GCP70113
Sample ID#s: CP70113 - CP70123

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

January 04, 2024

SDG I.D.: GCP70113

Project ID: STAMFORD MS4

| Client Id | Lab Id | Matrix |
|-----------|---------|---------------|
| DIS-1441 | CP70113 | SURFACE WATER |
| DIS-1445 | CP70114 | SURFACE WATER |
| DIS-168 | CP70115 | SURFACE WATER |
| DIS-194 | CP70116 | SURFACE WATER |
| DIS-236 | CP70117 | SURFACE WATER |
| DIS-248 | CP70118 | SURFACE WATER |
| DIS-298 | CP70119 | SURFACE WATER |
| DIS-36S | CP70120 | SURFACE WATER |
| DIS-36N | CP70121 | SURFACE WATER |
| DIS-1478 | CP70122 | SURFACE WATER |
| DIS-535 | CP70123 | SURFACE WATER |



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

9:52
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70113

Project ID: STAMFORD MS4
Client ID: DIS-1441

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 12/18/23 23:30 | ER | E353.2 |
| Nitrate-N | 0.58 | 0.02 | mg/L | 1 | 12/18/23 23:30 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 1.29 | 0.20 | mg/L | 2 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 1.87 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.198 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

10:30
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70114

Project ID: STAMFORD MS4
Client ID: DIS-1445

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Nitrite-N, Nitrate-N, Nitrogen Tot Kjeldahl, Total Nitrogen, and Phosphorus, as P.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

10:13
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70115

Project ID: STAMFORD MS4
Client ID: DIS-168

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Nitrite-N, Nitrate-N, Nitrogen Tot Kjeldahl, Total Nitrogen, and Phosphorus, as P.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

10:56
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70116

Project ID: STAMFORD MS4
Client ID: DIS-194

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Nitrite-N, Nitrate-N, Nitrogen Tot Kjeldahl, Total Nitrogen, and Phosphorus, as P.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

13:15
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70117

Project ID: STAMFORD MS4
Client ID: DIS-236

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|--------|------------|-------|----------|-----------|-----|---------------------|
| Nitrate-Nitrite (N) | 0.03 | 0.02 | mg/L | 1 | 12/18/23 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 0.32 | 0.10 | mg/L | 1 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 0.35 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.067 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

12:23
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70118

Project ID: STAMFORD MS4
Client ID: DIS-248

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 12/18/23 23:48 | ER | E353.2 |
| Nitrate-N | 0.05 | 0.02 | mg/L | 1 | 12/18/23 23:48 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 1.16 | 0.20 | mg/L | 2 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 1.21 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.422 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

11:33
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70119

Project ID: STAMFORD MS4
Client ID: DIS-298

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|--------|------------|-------|----------|-----------|-----|---------------------|
| Nitrate-Nitrite (N) | < 0.02 | 0.02 | mg/L | 1 | 12/18/23 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 0.42 | 0.10 | mg/L | 1 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 0.42 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.086 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

11:29
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70120

Project ID: STAMFORD MS4
Client ID: DIS-36S

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 12/18/23 23:51 | ER | E353.2 |
| Nitrate-N | 0.06 | 0.02 | mg/L | 1 | 12/18/23 23:51 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 0.76 | 0.20 | mg/L | 2 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 0.82 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.157 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

11:33
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70121

Project ID: STAMFORD MS4
Client ID: DIS-36N

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 12/18/23 23:52 | ER | E353.2 |
| Nitrate-N | 0.06 | 0.02 | mg/L | 1 | 12/18/23 23:52 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 0.38 | 0.20 | mg/L | 2 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 0.44 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.066 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

12:18
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70122

Project ID: STAMFORD MS4
Client ID: DIS-1478

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Nitrite-N, Nitrate-N, Nitrogen Tot Kjeldahl, Total Nitrogen, and Phosphorus, as P.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2024

FOR: Attn: Raju Vasamsetti
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information

Matrix: SURFACE WATER
Location Code: WESTSAMP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

12/18/23
12/18/23

Time

10:58
15:55

Laboratory Data

SDG ID: GCP70113
Phoenix ID: CP70123

Project ID: STAMFORD MS4
Client ID: DIS-535

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------|---------|------------|-------|----------|----------------|-----|---------------------|
| Nitrite-N | < 0.010 | 0.010 | mg/L | 1 | 12/18/23 23:55 | ER | E353.2 |
| Nitrate-N | 0.04 | 0.02 | mg/L | 1 | 12/18/23 23:55 | ER | E353.2 |
| Nitrogen Tot Kjeldahl | 2.70 | 0.20 | mg/L | 2 | 01/03/24 | KDB | E351.1 |
| Total Nitrogen | 2.74 | 0.10 | mg/L | 1 | 01/03/24 | KDB | SM4500NH3/E300.0-11 |
| Phosphorus, as P | 0.279 | 0.010 | mg/L | 1 | 12/19/23 | LG | SM4500PE-11 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Total Phosphorus:

This sample was received with a pH>2. The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

Ammonia TKN:

This sample was received with a pH>2 The EPA requires preservation at time of sampling to a pH of <2. A sample bias can not be ruled out.

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Phyllis Shiller, Laboratory Director

January 04, 2024

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

January 04, 2024

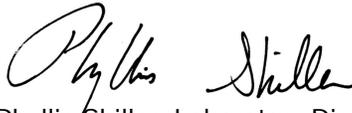
QA/QC Data

SDG I.D.: GCP70113

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|--|-------|--------|---------------|------------|---------|-------|--------|---------|------|-------|--------|--------------|--------------|
| QA/QC Batch 711050 (mg/L), QC Sample No: CP70242 (CP70113, CP70114, CP70115, CP70116, CP70117, CP70118, CP70119, CP70120, CP70121, CP70122, CP70123) | | | | | | | | | | | | | |
| Phosphorus, as P | BRL | 0.01 | 2.58 | 2.65 | 2.70 | 97.5 | | | 101 | | | 85 - 115 | 20 |
| Comment: Additional criteria matrix spike acceptance range is 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 710989 (mg/L), QC Sample No: CP70113 (CP70113, CP70114, CP70115, CP70116, CP70117, CP70118, CP70119, CP70120, CP70121, CP70122, CP70123) | | | | | | | | | | | | | |
| Nitrate-N | BRL | 0.02 | 0.58 | 0.58 | 0 | 101 | | | 100 | | | 90 - 110 | 20 |
| Nitrite-N | BRL | 0.01 | <0.010 | <0.01 | NC | 97.6 | | | 101 | | | 90 - 110 | 20 |
| QA/QC Batch 712559 (mg/L), QC Sample No: CP69772 (CP70113, CP70114, CP70115, CP70116, CP70117, CP70118, CP70119, CP70120, CP70121, CP70122, CP70123) | | | | | | | | | | | | | |
| Nitrogen Tot Kjeldahl | BRL | 0.10 | 0.89 | 0.83 | 7.00 | 96.7 | | | 102 | | | 85 - 115 | 20 |
| Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS. | | | | | | | | | | | | | |
| Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%. | | | | | | | | | | | | | |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 January 04, 2024

Thursday, January 04, 2024

Criteria: CT: SWP

State: CT

Sample Criteria Exceedances Report

GCP70113 - WESTSAMP

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

January 04, 2024

SDG I.D.: GCP70113

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

GLP 70113

Sam Runyon

From: Sam Runyon
Sent: Monday, December 18, 2023 4:57 PM
To: Vasamsetti, Raju
Subject: Stamford MS4 Proj.
Attachments: 20231218164258.pdf

Importance: High

Good afternoon,

For the attached chain, we received 2 extra samples that were not listed on the COC with the ID "DIS-1237" & "DIS-1236". Did you want these samples run for Total Nitrogen and Total Phosphorus as well? If so, would you also be able to provide the times the samples were collected?

Thank you,

Samantha Runyon

Client Services
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
samr@phoenixlabs.com
PH: 860-645-1102 ext:358
FX: 860-645-0823

Year-end Reminders

**Phoenix will be implementing a price increase 1/2/24.
Laboratory will be limiting pick-ups Friday 12/22, closed 12/25
and re-opening on Tuesday, December 26th.
Laboratory will be limiting pick-ups Friday 12/29, closed New
Years day and re-opening on Tuesday, January 2nd.**



CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email Makrina Nolan: makrina@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-1102

Cooler: Yes No
 Coolant: IPK ICE No

Temp 49 °C Pg of _____

Data Delivery/Contact Options:
 Fax: _____
 Phone: _____
 Email: vasamsetti@wseinc.com

Customer: Weston & Sampson
 Address: 712 Brook Street
Suite 103
Rocky Hill, CT

Project: Stamford MS4
 Report to: _____
 Invoice to: Raju Vasamsetti
 QUOTE # WEO51023BA

Project P.O.: _____
 This section **MUST** be completed with **Bottle Quantities.**

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Client Sample - Information - Identification | | Analysis Request | MS/MSD | GL Amber 9 oz. [H3PO4] [MAH3O4] [H2O] | GL Amber 1000ml [As is] [HCL] | GL Amber 250ml [As is] [H3PO4] | GL Amber 250ml [As is] [H2SO4] | Bacteria Bottle with/without |
|---|--------------------------------|---------------|--------------|--------------|---|----------|--|--------|---------------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------|
| | | | | | Signature | Date | | | | | | | |
| 70113 | DIS-1441 | SW | 12/18/23 | 9:52 | | | ✓ | | | | | | |
| 70114 | DIS-1445 | " | " | 10:30 | | | ✓ | | | | | | |
| 70115 | DIS-168 | " | " | 10:13 | | | ✓ | | | | | | |
| 70116 | DIS-194 | " | " | 10:56 | | | ✓ | | | | | | |
| 70117 | DIS-226 | " | " | 1:15 | | | ✓ | | | | | | |
| 70118 | DIS-248 | " | " | 12:23 | | | ✓ | | | | | | |
| 70119 | DIS-298 | " | " | 1:33 | | | ✓ | | | | | | |
| 70120 | DIS-365 | " | " | 11:29 | | | ✓ | | | | | | |
| 70121 | DIS-36N | " | " | 11:32 | | | ✓ | | | | | | |
| 70122 | DIS-1448 | " | " | 12:18 | | | ✓ | | | | | | |
| 70123 | DIS-535 | " | " | 10:58 | | | ✓ | | | | | | |
| Relinquished by: _____ Accepted by: <u>[Signature]</u> | | | | | Date: | 12/18/23 | 3:55 | | | | | | |
| Comments, Special Requirements or Regulations: 70124 DIS-1237* rec'd - not listed 70125 DIS-1236* on coc. 502 | | | | | Turnaround Time: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard | | RI <input type="checkbox"/> (Residential) Direct Exposure <input type="checkbox"/> (Comm/Industrial) Direct Exposure <input type="checkbox"/> GA Leachability <input type="checkbox"/> GB Leachability <input type="checkbox"/> GA-GW Objectives <input type="checkbox"/> GB-GW Objectives CI <input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input checked="" type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 GW-1 <input type="checkbox"/> S-1 GW-2 <input type="checkbox"/> S-1 GW-3 <input type="checkbox"/> S-2 GW-1 <input type="checkbox"/> S-2 GW-2 <input type="checkbox"/> S-2 GW-3 <input type="checkbox"/> S-3 GW-1 <input type="checkbox"/> S-3 GW-2 <input type="checkbox"/> S-3 GW-3 <input type="checkbox"/> SW Protection Data Format <input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other | | | | | | |

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted. * SURCHARGE APPLIES

GCP 70113

Sam Runyon

From: Vasamsetti, Raju <vasamsettir@wseinc.com>
Sent: Tuesday, December 19, 2023 12:40 PM
To: Sam Runyon
Subject: RE: Stamford MS4 Proj.

Sam,

Please discard those two samples.

Raju

From: Sam Runyon <samr@phoenixlabs.com>
Sent: Tuesday, December 19, 2023 10:04 AM
To: Vasamsetti, Raju <vasamsettir@wseinc.com>
Subject: RE: Stamford MS4 Proj.

Raju,

The bacteria analysis would be past its hold time, but neither DIS-1237 nor DIS-1236 came in the sterile bacteria containers. DIS-1237 came in a 250mL plastic unpreserved and DIS-1236 came in a 500mL plastic preserved with sulfuric acid. Please let me know how you would like to proceed.

Samantha Runyon

Client Services

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

samr@phoenixlabs.com

PH: 860-645-1102 ext:358

FX: 860-645-0823

Year-end Reminders

Phoenix will be implementing a price increase 1/2/24.
Laboratory will be limiting pick-ups Friday 12/22, closed 12/25
and re-opening on Tuesday, December 26th.
Laboratory will be limiting pick-ups Friday 12/29, closed New
Years day and re-opening on Tuesday, January 2nd.



From: Vasamsetti, Raju <vasamsettir@wseinc.com>
Sent: Tuesday, December 19, 2023 9:50 AM
To: Sam Runyon <samr@phoenixlabs.com>
Subject: RE: Stamford MS4 Proj.

Samantha,

GCP 70113

Those were collected at 11:26 am. They should be tested for Bacteria. I am not sure if you have already tested or if it's past the holding time.

Raju

From: Sam Runyon <samr@phoenixlabs.com>
Sent: Monday, December 18, 2023 4:57 PM
To: Vasamsetti, Raju <vasamsettir@wseinc.com>
Subject: Stamford MS4 Proj.
Importance: High

Good afternoon,

For the attached chain, we received 2 extra samples that were not listed on the COC with the ID "DIS-1237" & "DIS-1236". Did you want these samples run for Total Nitrogen and Total Phosphorus as well? If so, would you also be able to provide the times the samples were collected?

Thank you,

Samantha Runyon

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