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**2013 & 2014
MS4 ANNUAL REPORT
NPDES PERMIT #CT0030279**

FOR

**CONNECTICUT DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION**

PREPARED FOR

**CITY OF STAMFORD
888 WASHINGTON BOULEVARD
STAMFORD, CONNECTICUT 06901**



SEPTEMBER 2014



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INTRODUCTION

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. This permit requires many actions in order to reduce pollution from stormwater runoff.

This Annual Report (Report) covers the period from January 1, 2013 through June 30, 2014. It summarizes the activities conducted and measures taken to comply with the previous and current NPDES Permit from January 1, 2013 through June 30, 2014. 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, September 2, 2014* (the SMP).

1 CONTACTS LIST

The following individuals are members of the City's Stormwater Pollution Prevention Team and have a role in the implementation of the City's stormwater management program and are in positions that have the potential to impact and improve stormwater quality. Each of these individuals are involved in the development of the Stormwater Management Plan (SMP) and/or this Annual Report.

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2 PROGRAM EVALUATION

2.1 Stormwater Management Plan (SMP) Objectives

The City of Stamford (the City) was issued a NPDES Permit for discharge of stormwater from its municipal separate storm sewer system (MS4) on June 4, 2013. 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

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*) and the Narrative Report (*Section 4*).

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. This evaluation cannot be performed as part of this first Annual Report under the new discharge permit as no water quality monitoring was performed during the time period covered by this report (see *Section 4.5* for additional information on monitoring events).

It is unlikely that this evaluation will be able to be performed during the 2014-2015 Annual Report because the first round or two of in-stream surface water quality and stormwater discharge data will be used to establish baseline (beginning of permit) conditions against which future data will be evaluated.

The major findings of this first year of the new NPDES Permit are the steps that the City has taken to implement the permit requirements, including but not limited to:

- Development of a more thorough understanding of the permit requirements and the resources necessary to achieve compliance
- Transfer of responsibility for stormwater permit compliance from the Water Pollution Control Authority to the Traffic and Road Maintenance Division
- Allocation of additional resources (personnel, equipment, and budget) to/within the Traffic and Road Maintenance Division to specifically address stormwater management and stormwater runoff quality improvement issues, including the new position of Regulatory Compliance and Administration Officer
- Better coordination of City Departments on stormwater-related issues with the development of the Stormwater Pollution Prevention Team
- Development of the SMP and the associated public outreach activities
- Continuation of city-wide GIS mapping related to stormwater infrastructure and management
- Work on developing draft legal authority and zoning regulations to address stormwater discharges and quality
- Instituting plans for better coordination of public outreach with local environmental and business groups
- Establishing agreements with consultants to assist in the implementation of the SMP and to perform surface water and stormwater monitoring

2.3 SMP Strengths and Weaknesses

The SMP designed to comply with the current NPDES permit was prepared in the spring and summer of 2014 and submitted to the DEEP on September 2, 2014. An evaluation of its strengths and weaknesses as of June 30, 2014 is not appropriate at this time as its implementation has only recently commenced.

The SMP will be evaluated in greater detail as part of the 2014-2015 Annual Report. 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.

2.4 Future Direction of the SMP

The City considers the SMP to be a dynamic document and will 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. Because this SMP has been recently established, the City’s focus will be on implementing it to the best of their ability over the course of the next year. For this reason, no significant changes to the SMP are anticipated at this time.

Now that the Traffic and Road Maintenance Division has had time to become acclimated to the permit requirements and develop the SMP, the City will be focusing more of its resources in the coming year to achieving compliance with the SMP, particularly in the areas of:

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

Specific goals or requirements are discussed in the Narrative Report, **Section 4**, of this Annual Report.

The Team Coordinator and Regulatory Compliance and Administrative Officer will also be responsible for more closely tracking individual activities and events in each of these areas.

3 SUMMARY TABLE OF SMP COMPONENTS

The summary table of SMP components is presented in *Appendix B*. This table concisely presents the stormwater management activities completed within the time period for this Annual Report and documents the City's compliance with key permit and SMP requirements.

Administrative issues, such as planning activities, program development, and pilot studies, are not discussed in the summary table of SMP components.

4 NARRATIVE REPORT

4.1 Pollution Prevention Team

The Pollution Prevention Team (Team) has been 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 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 Water Pollution Control Authority to the Traffic and Road Maintenance Division.

As such, much of the first year of the new permit was utilized by the Traffic and Road Maintenance Division becoming familiar with the permit requirements and establishing the necessary schedules, procedures, personnel, equipment, financing, and other resources necessary to successfully implement the permit requirements and the SMP.

The Team that has been established under the current SMP (see Appendix B of the SMP) 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.

Throughout 2013 and the first half of 2014, the Team has focused on 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 draft new regulations.

The Team's activities are coordinated by the Traffic and Road Maintenance Supervisor. 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 as a result of the issuance of the current NPDES Permit.

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 map, surface water bodies, watershed areas, surface water quality classifications, impaired waters, mapped inland wetlands, mapped tidal wetlands, the coastal boundary, and the ten approved in-stream sampling locations.

The City has hired a consultant that is in the process of mapping sanitary sewer lines, stormwater lines, and stormwater outfalls. Mapping efforts have focused on the more developed sections of the City,

closest to Long Island Sound, with the most stormwater outfalls mapped south of Interstate 95 and many more mapped between I-95 and the Merritt Parkway (Connecticut Route 15). Initially, 154 stormwater outfalls were mapped. Several of the initially mapped outfall locations were determined to be inaccurate. To date, 92 MS4 outfalls have been confirmed/identified/mapped. A list and map of these outfalls is presented in *Appendix C*. The City will continue to identify and map the other MS4 outfalls in the City.

The City has recently hired additional personnel and obtained additional equipment for catch basin cleaning and other stormwater management activities, including mapping of catch basins.

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

- Storm line material and size data
- 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

The City is also in the process of evaluating and procuring GIS-compatible tracking software for catch basin cleaning and maintenance activities.

4.3 Control Measures

4.3.1 Public Education and Involvement

City residents can contribute to the 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 of Stamford's water bodies by local residents. Also, public education and outreach coupled with public involvement and participation allows city residents to have a voice with regard to stormwater.

During the period covered by this Annual Report, the following public education and involvement activities have been completed:

- The City has hired a Regulatory Compliance and Administration Officer. One of this individual's primary responsibilities will be public education related to stormwater management and improving stormwater quality.

- A stormwater section has been added to the City of Stamford's website at <http://www.stamfordct.gov/stormwater-management>. 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
 - The 2012 Annual Report
 - The household hazardous waste collection event schedule and information on the materials managed
 - Dog waste management practices
 - Best management plans for pesticides
 - Information on preventing stormwater pollution
 - Fall leaf pick up schedule
 - Christmas tree pick up schedule
 - How to report a stormwater issue, violation, or complaint
- Public notice and a public meeting were held on July 29, 2014 for the establishment of the SMP. Unfortunately, only one member of the public attended this meeting.
 - The Notice of Meeting was published in the *Stamford Advocate* on July 17 and 24, 2014.
 - The Notice of Meeting was filed with the Town Clerk, forwarded to the Board of Representatives, and posted on the City's website, and posted throughout Government Center.
 - The leadership/directors of two local environmental groups, SoundWaters and the Mill River Collaborative, were provided notice of the meeting.
- An informational pamphlet entitled "Preventing Stormwater Pollution & You", which focused on steps that residents can take to reduce stormwater pollution, was distributed with all tax bills (approximately June 15, 2014). A copy is presented in Appendix C of the SMP.
- An informational pamphlet entitled "Preventing Stormwater Pollution", which focused on lawn care and low impact development (LID), was distributed to all Stamford contractors registered with the Connecticut Department of Consumer Protection. A copy is presented in Appendix C of the SMP.
- A "Pesticide Information Sheet" was sent to the same group of Stamford contractors. A copy is presented in Appendix C of the SMP.
- An informational pamphlet on dog waste management was provided to all dog owners at license renewal time. A copy is presented in Appendix C of the SMP.
- The City has installed ten dog waste dispensers and signs informing park patrons of the need to pick up after their dogs in key parks. These signs refer to the existing municipal dog waste ordinance in the City Charter (Section 111). Fifty additional dispensers have been ordered and will be installed. A list of existing and proposed dog waste dispenser locations is presented in Appendix C of the SMP.
- The Water Pollution Control Authority provides tours of the City's wastewater treatment facilities to school children and adults. During 2013 and the first half of 2014, approximately 1,450 and 890 people attended these tours, respectively. As part of the presentation, they discuss stormwater impacts and typically distribute a brochure entitled "What is Your Storm Drain IQ?" A copy is provided in Appendix C of the SMP.

- The Mill River Collaborative performs annual clean ups, improvements, and provide educational programming within the City. It is estimated that approximately 8,000 volunteer hours are provided each year.
- SoundWaters is the leading environmental education organization on Long Island Sound. Over 25,000 students learn and explore with SoundWaters, through education and action, every year. The City is in the process of teaming with this group to collaborate on educational programming.

4.3.2 Source Controls and Pollution Prevention

4.3.2.1 Motor Oil Collection

The City collects used motor 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. From July 2012 – June 2013, approximately 3,375 gallons of used oil were collected. From July 2013 – June 2014, approximately 3,075 gallons of used oil were collected. The City intends to continue its used motor oil collection activities.

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

The City holds at least one HHW collection day within the City 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 and adversely affects stormwater quality. In 2013 and 2014, the City hosted a HHW collection day at the Rippowam Middle School on July 13th and July 19th, respectively. In addition, Stamford residents are able to utilize HHW collection days in Darien, Greenwich, New Canaan, Norwalk, Westport, Weston, or Wilton approximately seven other days per year (in the spring and fall). The City intends to continue its involvement in these collection events.

The City collects used consumer electronics at the 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. From July 2012 – June 2013, approximately 244 tons of consumer electronics were collected. From July 2013 – June 2014, approximately 295 tons of consumer electronics were collected. The City intends to continue its waste electronics collection activities.

4.3.2.3 Spills and Leak

The City maintains Spill Prevention and Response Plans (SPRPs) to prevent, contain, and clean up spills of oils, petroleum products, and other potentially hazardous materials. Site-specific SPRPs have been developed for Town facilities on Magee Avenue, the Town Yard, the Police Department, and the Water Pollution Control Facility. Other City facilities and private properties in the City are covered by the Fire Department's Standard Operating Guidelines. Each of these plans will be reviewed by June 2015 to ensure that they are properly designed to prevent spills or leaks from entering the MS4 and to

provide for appropriate response procedures and countermeasures to minimize stormwater impacts and protect surface waters. A list of recent spills of five gallons or more is presented in Appendix E of the SMP.

4.3.2.4 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 on the CTDEEP Integrated Pest Management (IPM) Plans. Completion of the PHF SOPs is anticipated by July 1, 2016.

Fertilizers and herbicides are used on the municipal athletic fields, as described in the SMP. Every year, in April, Dimension is applied to the fields and contains both fertilizer and herbicides. In May, Propendi is applied to the fields and contains both herbicides and fertilizer. In September, just fertilizer is applied to the fields.

No PHFs are used on city park green spaces.

The Mill River Park / Mill River Collaborative completely avoids the use of synthetic fertilizers/ The 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 4-inches to build deeper,, more drought tolerant root systems. All grass clippings are returned to the lawns and they use organic products, such as soy bean meal, to add nitrogen to the soil. The Mill River Collaborative uses minimal herbicides on invasive plant species per DEEP guidelines. They have found that as they continue this program, they need to use lower quantities of herbicide each year.

With respect to the city-owned golf courses, the NPDES permit requires that the City implement practices which achieve a ten percent (10%) reduction in total nitrogen by June 3, 2018. The reduction will be determined by the average annual usage, by weight, of the three years preceding the current NPDES Permit. The current SMP has established the application rates of fertilizers used at the golf courses, which can be found in Appendix G of the SMP. The City’s Regulatory Compliance and Administrative Officer is currently in the process of obtaining background documentation from the city-owned golf courses in order to establish the total amount of nitrogen applied during the three years preceding the current NPDES Permit (2010-2012). This data will serve as the basis for establishing the amount of total nitrogen reduction.

In 2013, the Sterling Farms Golf Course used a total of 5,380 tons of nitrogen and the E. Gaynor Brennan Municipal Golf Course used a total of 9,082 tons of nitrogen. See *Appendix D* 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 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.

4.3.2.5 Salt Storage and Usage

The City stores road salt (and/or salt mixtures) 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 under a salt shed in accordance with the requirements of the DEEP's *General Permit for the Discharge of Stormwater Associated with Industrial Activities*.

The City utilized approximately 15,600 tons of salt during twenty storms in the winter of 2013-14. Salt usage quantities will continue to be tracked and the City's goal is to reduce the amount of salt and salt-sand mixture utilized on its roadways by increasing efficiencies and investigating alternate methods. However, salt usage will continue to vary based on storm frequency and intensity.

4.3.3 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 needs to be based on the *Connecticut Guidelines for Soil Erosion and Sediment Control* (latest edition) and the *Connecticut Stormwater Quality Manual* (as amended). The City is currently working towards developing this program; both of these documents will be incorporated into the draft changes to the Zoning Regulations.

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. A copy of the checklist utilized by the Building Official is presented in Appendix J of the SMP. As part of this review and approval process, the Engineering Department reviews stormwater and drainage for proposed developments and site plan revisions.

The site plan review process will continue in the future, but the site-specific stormwater requirements will be better defined once the draft Zoning Regulation changes have been approved and implemented. 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 will include provisions to encourage

low impact development (LID) practices to maximize infiltration and minimize stormwater runoff. The regulations will also limit barriers to LID design and construction.

The NPDES Permit requires the City to conduct site-plan review and pre-construction review meetings that incorporate consideration of stormwater controls 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 applicant's with information on the DEEP's *General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities*.

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 in close proximity to 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 (CO).

Additional information on the proposed stormwater ordinance and changes to the Zoning Regulations is presented in **Section 4.6**, Legal Authority.

The NPDES permit calls for completion of DCIA (directly connected impervious area) mapping associated with each MS4 outfall within four years. This first Annual Report is to discuss the methodology and assumptions used to estimate the DCIA. The initial estimate will be based on the total area of impervious cover, including roadways, drive ways, sidewalks, parking lots, and building footprints, that discharge to the MS4. The majority of this information should be relatively readily accessible from the edge of pavement layer available in the City's GIS; this data was generated from the 2011 aerial mapping of the City. 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 subsequent years. 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.

4.3.4 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.

4.3.4.1 Employee Training

Employee training is essential for maintaining and increasing the 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 the impact the facility has on 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

Stormwater related trainings were conducted for employees working at city-owned facilities on June 7, 2013, June 13, 2014 and July 11, 2014. All members or departmental designees of the Pollution Prevention Team (PPT) will attend additional MS4 SMP training by June 3, 2015; this training has been scheduled for October 23, 2014.

4.3.4.2 Infrastructure Repair and Rehabilitation

It is important that the City make timely repairs to the infrastructure of the MS4 in order 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 repair is established.

The Water Pollution Control Authority performs routine maintenance and any necessary repairs on the stormwater pumps annually.

The Engineering Department maintains a list of catch basins and manholes that require repair and assigns that work to either the Traffic and Road Maintenance Division or to independent contractors, as needed. During 2013 and the first half of 2014, approximately 150 catch basins and/or manholes were scheduled for repair. A list of 2013 – 2014 catch basin / manhole repair projects is presented in **Appendix E**.

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.

4.3.4.3 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.

4.3.4.4 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 2013, the City swept over 5,750 miles of streets and collected over 1,350 tons of non-leaf materials. By June 30, 2014 the City had swept 2,072 miles of roadway and collected 967 tons of street material. See *Appendix F* for a copy of the mileage and tonnage reports for 2013 and through June 2014.

Sidewalk sweeping is performed weekly in the Downtown Special Services District (DSSD); this work is coordinated by and paid for by the DSSD. Other City streets were only swept as part of snow removal activities.

The NPDES Permit prescribes very specific sweeping schedules for main lines, arteries, main roads and sidewalks in business and commercial districts, residential streets, other streets, and municipal parking lots between March and November of each year. The City is currently categorizing their roadway system and developing schedules to meet these requirements. 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.

4.3.4.5 Leaf Collection

In 2013, the City conducted its leaf pickup program from November 12th through December 13th. A total of 1,359 tons of leaves were collected.

According to the NPDES Permit, the City shall conduct city-wide leaf pickup program annually to be completed by December 15th. The City has established a procedure that breaks the City of Stamford down into three areas (see Appendix K 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 in mid-November and completed by December 15th. The exact completion date depends on weather conditions and competing demands (snow removal and road salting for staff and equipment). 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.

4.3.4.6 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 L of the SMP. The purpose of these BMPs is to prevent accumulation of sand, other solids, and pollutants in the stormwater management system 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 performs anti-icing using liquid calcium chloride to pre-treat bridges and elevated roadways, the most susceptible for freezing, as well as 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.

Snow is typically moved to the gravel parking lot at West Beach; where there are no catch basins in order to follow these BMPs.

4.3.4.7 Catch Basin Cleaning

Clogged or overloaded catch basins can lead to unwanted stormwater quality impacts. 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.

In 2013, the City cleaned 2,024 of its approximately 11,000 catch basins. Approximately 1,570 tons of materials were removed from the basins. Through June 2014, the City cleaned 429 catch basins and removed approximately 510 tons of materials. The 2013 and 2014 catch basin reports are presented in **Appendix G**.

The City is currently in the process of finalizing an updated catch basin inspection, cleaning, and repair program. This program will 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 recently procured two new vac-trucks and hired four new equipment operators and a laborer for this program as well as to generally support its stormwater management and compliance activities (see **Section 6**).

4.3.4.8 Detention and Retention Ponds

Detention and retention ponds that become overloaded with sediment deposition can negatively impact stormwater quality in the City's MS4. The City is in the process of developing a list of basins that discharge to the MS4 and will develop an inspection schedule for them. Ponds are to be cleaned out when solids levels reach 50% of design capacity.

4.3.4.9 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 (ConnDOT)
- Town of New Canaan, CT
- Town of Darien, CT
- Town of Greenwich, CT
- Town of Pound Ridge, NY

The City is investigating whether any of these entities have interconnected MS4s. If interconnected MS4s do exist, then interagency agreements will be developed detailing the responsibilities of the City of Stamford and each the interconnected MS4 municipality.

4.4 Illicit Discharge Detection and Elimination (IDDE) Program

IDDE will lessen the amount 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 to determine whether illicit discharges are suspected and then extensive evaluation and follow-up to eliminate the illicit discharges that are found.

During the period from January 1, 2013 – June 30, 2014, the City has begun to develop the legal authority to implement and enforce an illicit discharge detection and elimination (IDDE) program with the drafting of a municipal stormwater management ordinance (see Appendix D of SMP).

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 Traffic and Road Maintenance Division or reported via the City's stormwater management website.

No IDDE screenings were performed during the period covered by this Annual Report, so the City is behind schedule on this task. Now that better information has been developed on the number and locations of MS4 outfalls, it is the City's intention to get back on schedule by screening 50% of the outfalls during the time period covered by the 2014-2015 Annual Report. To achieve this goal, 46 known MS4 outfalls will need to be screened by the end of June 2015.

The City also intends to complete IDDE investigations on 5% of the MS4 outfalls during the upcoming year in accordance with the NPDES permit and SMP requirements.

4.5 Monitoring Program

In addition to the screening and monitoring activities associated with the IDDE Program (see **Section 4.4**), the NPDES permit calls for in-stream and stormwater outfall monitoring throughout the life of the permit.

4.5.1 In-Stream Surface Water Quality Monitoring

Under the terms of the NPDES permit, ten in-stream surface water monitoring locations were to be established. Each in-stream monitoring location was to be sampled three times per year during spring, summer, and fall rain events, and a dry sampling event during the summer, in accordance with the permit requirements. On March 5, 2014, the DEEP issued a Notice of Violation (NOV) to the City of Stamford for:

- Failure to establish the in-stream monitoring locations
- Failure to conduct the 2013 summer dry and wet weather in-stream sampling events
- Failure to conduct the fall wet weather in-stream sampling event

A copy of the NOV is presented in **Appendix H**. The City is working towards full compliance with the NOV by December 31, 2014.

In response to this NOV, the City developed a list of ten in-stream surface water sampling locations, which has been approved by the DEEP.

In addition, the City solicited bids from environmental engineering consultants to provide stormwater monitoring services and assist with the implementation of the NPDES permit. Anchor Engineering Services, Inc. was hired in July 2014 to collect the necessary stormwater samples. It is the City's intention to get back on schedule by collecting two rounds of dry weather and five rounds of wet weather in-stream samples by the end of 2014, weather permitting. This modified schedule has been discussed with DEEP staff.

To date, two rounds of dry weather in-stream sampling have been completed (one for 2013 and one for 2014). In addition, one full round and one partial of wet weather in-stream sampling have been completed (7 of 10 sampling locations were sampled before the rain/runoff stopped). Additional wet weather sampling events were not able to be performed due to the following conditions:

- Dry weather conditions with very few rain events
- A limited number of rain events with greater than 0.25-inch of rainfall predicted
- Rain events occurring on weekends (or holiday weekends) when the laboratory is closed and unable to facilitate the six-hour hold time for bacteria analysis

Analytical data is being submitted to the DEEP via the NetDMR system as the laboratory data is received. Copies of Aquatic Toxicity Monitoring Reports (ATMRs) and field data sheets from the two dry weather sampling events are presented in *Appendix I*. Data from subsequent monitoring events will be included in the 2014-2015 Annual Report.

The previous NPDES Permit did not require the City to conduct in-stream monitoring therefore, no previous baseline data has been collected to establish a trend line. Data collected during these initial rounds of sampling will be used to establish a baseline and compared to future monitoring results so as to evaluate the overall impacts of implementation of the SMP on the quality of the receiving streams.

4.5.2 Wet Weather Outfall Monitoring – Previous Permit

The NOV issued in March 2014 also cited the City for failure to collect discharge from outfall locations at six representative locations, as required by the previous NPDES Permit. In response to this item, the City hired Fuss & O'Neill, Inc. to conduct the outfall monitoring for 2012. These outfall samples were collected in August 2014 and have been submitted to the DEEP. A copy of the stormwater monitoring reports (SMRs) for these samples are presented in *Appendix J*.

4.5.3 Wet Weather Outfall Monitoring – Current Permit

The NPDES Permit requires the City to sample all known MS4 outfalls within the first two years of the permit term. To date, no wet weather outfall monitoring has been performed, but it is the City's goal to meet this requirement. The sampling has not occurred because: not all of the MS4 stormwater outfalls have been delineated. As of the date of this report, 92 outfalls have been identified (as discussed in *Section 4.2*).

4.6 Legal Authority

The City has begun the process of establishing an ordinance to address stormwater management issues that will affect NPDES Permit compliance and Zoning Regulations to address stormwater management. The legal authorities that must be established include:

- 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 DEEP 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. A draft municipal ordinance and draft changes to the zoning regulations have been prepared and are included in Appendix D and I of the SMP, respectively. These documents have been developed to establish the necessary legal authorities. The public must be provided adequate notice and an appropriate amount of time to participate in the establishment in this legal authority. It is the City's intention to establish these legal authorities as soon as possible.

5 SUMMARY OF PROPOSED SMP MODIFICATIONS

The SMP was updated and submitted to the DEEP on September 2, 2014. No modifications to the submitted SMP are proposed at this time.

6 PROGRAM RESOURCES ANALYSIS

6.1 Fiscal Analysis

During the initial year of the current NPDES permit, the City made an effort 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 as soon as possible.

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.

The Traffic and Road Maintenance Division has a \$7,860,000 operating budget for 2014-2015, including \$954,000 specifically for MS4 stormwater management, \$252,000 for leaf collection, \$1,070,000 for storm management, and \$5,400,000 for traffic and road maintenance, including street sweeping and infrastructure improvements.

In addition, other Departments, such as Engineering (catch basin and manhole improvements and replacement program), Land Use (environmental reviews), Solid Waste (motor oil recycling and HHW events), Water Pollution Control (stormwater pump operation), and Administration provide services through their capital and operating budgets.

Excerpts of the City's Annual Capital and Operating Budgets for 2013-2014 and for 2014-2015 are attached in **Appendix K**. The entire adopted capital and operating budgets are available on the City's website at <http://www.stamfordct.gov/>

It is anticipated that additional funding will be required for the following monitoring activities:

- Wet weather sampling of each identified MS4 outfall
- IDDE screening and investigations

Additional 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

As previously mentioned, the City transferred responsibility for many of the stormwater management tasks and MS4 permit compliance from the Water Pollution Control Authority to the Traffic and Road Maintenance Department with the issuance of the NPDES permit in June 2013. While evaluating the permit requirements, the Traffic and Road Maintenance Supervisor and Pollution Prevention Team Coordinator, Thomas Turk, began to assess the staff and resources necessary to achieve and maintain compliance. Several staff have been hired in the spring, summer, and fall of 2014, including:

- Regulatory Compliance and Administrative Officer, Tyler Theder, to be responsible for day-to-day activities associated with MS4 stormwater quality. Under the general direction of the Director of Operations or designee, this individual is responsible for ensuring City agency, resident, and business compliance with environmental permits, procedures and mandated regulations. The Regulatory Compliance and Administrative Officer is responsible for public education and involvement, stormwater training, monitoring, and development and implementation of the IDDE and infrastructure maintenance programs. He is also responsible for coordinating internal MS4 stormwater activities with other City Departments and exercising supervision over employees and contractors. The Regulatory Compliance and Administrative Officer will assist the Team Coordinator and Director of Operations with long-term planning and budgeting necessary to achieve and maintain compliance with the NPDES permit. He may perform inspections and issue notice of violations, as needed in the future. A job description for this position is presented in *Appendix L*.
- Clerk of the Works II, Natasha Townsend, to assist the Team Coordinator and Regulatory Compliance and Administrative Officer with stormwater compliance, particularly field-related activities.
- Four heavy equipment operators to complete field work including catch basin identification, 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. A job description for individuals in this position is presented in *Appendix L*.
- One laborer to assist the equipment operators, as needed. A job description for this position is presented in *Appendix L*.

Over the course of the 2014-2015 year, the Stormwater Department will assess these new staffing levels as the SMP is implemented and additional schedules are prepared and goals are set.

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

Several other City Departments all 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), Water Pollution Control Authority, Solid Waste, Recreation and Leisure Services, Parks, Parking & Transportation, Fleet Maintenance, Legal, and the Fire Department.

During the upcoming initial year of implementation of the SMP and after establishment of the new 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. 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.
- Engineering and Land Use Offices – Once the revised Zoning Regulations have been enacted, there will be greater demands on the personnel in these areas to review and ensure low impact developments, review site plans and drainage computations, etc.

Once the revised Zoning Regulations have been enacted, there will be a need for additional construction site inspections, retention and detention basin inspections and maintenance, stormwater infrastructure (swales, ditches, storm drain lines, etc.) inspections and maintenance, post-construction inspections and maintenance, and illicit discharge detection and elimination program implementation. Additional staffing will be necessary to complete these tasks; the City's ability to complete these activities in the past has been hampered due to limited staff resources.

The City has procured new equipment to assist in the implementation of the MS4 Permit and its SMP. Two new vac-trucks have been procured by the Traffic and Road Maintenance Division to facilitate catch basin inspection and cleaning operations. The vehicles cost \$400,000 each. Additionally, the City is evaluating GIS-based software and the necessary hardware to track catch basin inspection and cleaning operations, outfall identification, infrastructure repairs, and sweeping activities.

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

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.

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

"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.

"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.

"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.

APPENDIX B

STORMWATER MANAGEMENT PLAN SUMMARY TABLE

Annual SMP Summary Table

January 1, 2013 - June 30, 2014

Activity Description	# Actions Scheduled	Status Complete / Incomplete as of June 30th	# Actions Completed	Comments on Activities	Public Comments on Activity
1. Education					
1.1 City and Government					
1.1.1 Training	As needed	Complete	3	City Employee Stormwater related trainings were conducted on 6/7/13, 6/13/14 and 7/11/14. All employees working at city-owned facilities receive annual training on stormwater related items. Additional MS4 stormwater training to be performed October 2014.	
1.2 Public					
1.2.1 Annual Information Meeting	Annually	Incomplete	-	Meeting held on 07/29/2014	
1.2.2 Annual SMP Review and Comments	Annually	Incomplete	-	SMP submitted to DEEP on September 2, 2014.	
1.2.3 HHW Collection	At least Annually	Complete	2	HHW Collection held on 07/13/2013 and 07/19/2014 at the Rippowam Middle School. Stamford citizens may also use HHW collection days in seven neighboring towns each year.	
1.2.4 Pet Waste Control	As needed	On-Going	As needed	Educational pamphlets distributed to dog owners annually at time of licensure. A schedule for new dispenser locations was established and new dispensers were ordered; dispenser are emptied on an as needed basis.	
1.2.5 Distribution of Educational Information	As needed	Complete	3	Educational pamphlet "Preventing Stormwater Pollution" was sent out with all tax bills on or around June 15, 2014. Educational pamphlet on lawn care, pesticides, and LID distributed to all Stamford contractors. WPCA tours include reference to stormwater management and "Stormwater IQ".	
2. Public Involvement					
2.1 Mill River Collaborative (MRC)	On-going	Complete	8000 volunteer hours	Making improvements to the Mill River Park through joint efforts the MRC.	
2.2 SoundWaters in Cove Park	On-going	Incomplete	-	The City is in the process of teaming with SoundWaters for conducting an educational program in Cove Park.	
3. Mapping					
3.1 Initial Outfall, Sampling, Roadway, Receiving Waters, Watersheds	On-going until all are identified	On-Going	-	To be completed by 06/03/2015	
3.2 IDDE Mapping - Infrastructure, Findings, Data, Activities, Projects	On-going until all are identified	On-Going	-	To be completed by 06/03/2016	
3.3 Establish DC IA	25% of total area per year	On-Going	-	To be completed by 06/03/2015	
4. Infrastructure Operations & Maintenance					
4.1 Infrastructure Repair & Rehab	On-going	On-going	As needed	A schedule for implementation of repairs is maintained by the Engineering Dept and updated as needed / as items are completed.	
4.2 Roadway Maintenance	On-going	On-going	As needed	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.	
4.3 Street Sweeping	See <i>Appendix F</i>	On-going	7570	During 2013, the City swept over 5,750 miles of streets and collected over 1,350 tons of non-leaf materials. By June 30, 2014 the City had swept 2,072 miles of roadway and collected 967 tons of street material.	
4.4 Sidewalk Sweeping	See Appendix K of the SMP	On-going	-	Sidewalk sweeping occurs in the downtown area, as described in the SMP and is coordinated and paid for by the DSSD (downtown special services district)	
4.5 Leaf Collection	At least Annually	Complete	3 Areas	Leaf collection completed for 2013 by December 13.	

Annual SMP Summary Table

January 1, 2013 - June 30, 2014

Activity Description	# Actions Scheduled	Status Complete / Incomplete as of June 30th	# Actions Completed	Comments on Activities	Public Comments on Activity
4.6 Snow Removal	As needed	Complete	-	Snow removal completed as necessary for 2013 and 2014.	
4.7 Catch Basin Cleaning	See <i>Appendix G</i>	On-going	2453	Approximately 1,570 tons of materials were removed from the basins in 2013. Through June 2014, the City removed approximately 510 tons of materials.	
4.8 City Owned Detention & Retention Pond Inspections	Annually	On-going	-	The City is in the process of compiling a list of the detention and retention ponds that discharge to the MS4.	
4.9 Interconnected MS4s	On-going	On-going	-	There are no known interagency agreements between any other municipalities, institutions, or agencies and the City of Stamford. The City is investigating with adjacent communities and ConnDOT.	
5. Stormwater Monitoring					
5.1 Wet Weather In-Stream	3 samples per location per year	Incomplete	0	No wet weather in-stream surface water sampling was performed prior to June 30, 2014. One complete and one partial round have recently been performed.	
5.2 Dry Weather In-Stream	1 sample per location per year	Incomplete	0	No dry weather in-stream surface water sampling was performed prior to June 30, 2014. Two rounds have recently been performed.	
5.3 Wet Weather Outfall	All outfalls within first two years	On-going	0% Completed	The City hired Fuss & O'Neill, Inc. to conduct the outfall monitoring for 2012. These outfall samples were collected in August 2014 and have been submitted to the DEEP. To date, no wet weather outfall monitoring has been performed, but it is the City's goal to meet this requirement.	
5.4 Dry Weather Known Outfalls	See IDDE Outfall Screening	On-going	-	See IDDE Outfall Screening	
5.5 Dry Weather New/Unknown Outfalls	As needed	-	-	No new outfalls identified at this time.	
6. IDDE					
6.1 Outfall Screening (Pre-IDDP)	25% of known MS4 outfalls per year	Incomplete	0% Completed	No IDDE screenings were performed during the period covered by this Annual Report. Updated schedule proposed in 2014 SMP	
6.2 IDDP	5% of top 20%; starting year 2	-	-	Updated schedule proposed in 2014 SMP	
6.3 Outfall Verification (Post-IDDP)	As needed	-	-	No IDDP efforts completed at this time.	
7. Legal Authority					
7.1 Permits	As needed	On-Going	As needed	All permits to be signed off by each individual City department, including: Coastal Management, Environmental Protection, Flood Plain, Traffic Dept, Engineering Dept, DOT, and Zoning.	
7.1.1 Zoning Department	As needed	On-Going	As needed	The City is in the process of changing the zoning regulations per the requirements of the General Permit.	
7.2 Ordinances					
7.2.1 Stormwater Management	As needed	On-going	As needed	A DRAFT Stormwater Management Ordinance HAS BEEN developed. The Stormwater Ordinance will provide the City with legal authority necessary to carry out all inspections, surveillance and monitoring procedures.	
7.2.2 LID	As needed	On-going	As needed	The proposed changes to the zoning regulations will ensure that LID practices are allowable. There are no known zoning, site planning or street design regulations that would be an impediment to using LID practices.	

Annual SMP Summary Table

January 1, 2013 - June 30, 2014

Activity Description	# Actions Scheduled	Status Complete / Incomplete as of June 30th	# Actions Completed	Comments on Activities	Public Comments on Activity
7.3 Site Review, Inspection and Monitoring Activities	As needed	On-going	As needed	The City's staff performs site visits when the project is in close proximity to 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 (CO).	
7.4 Eliminate Barriers	On-going	On-going	-	The City has well-established procedures for coordinating municipal departments review and approval of land disturbances and development projects.	
7.5 Private Retention/Detention Ponds	On-going	On-going	-	Access to privately-owned detention and retention ponds will be addressed in the Stormwater Ordinance.	
7.6 Interconnections	On-going	On-going	-	Research by City staff has revealed that no formal interagency stormwater agreements exist at this time. If agreements are deemed necessary, they will be discussed in the next annual report. Historically, ConnDOT maintains all State roads.	
8. Monitor PHFs					
8.1 City Parks	On-going	On-Going	-	In 2014, the City did not fertilize park green space.	
8.2 PHF Use in Ball Fields	On-going	On-Going	-	In 2014, the City applied a total of the following fertilizers to 12 athletic fields: Dimension 18-0-40 ~3000lbs; Propendi ~3000lbs; Fertilizer ~2400lbs.	
8.3 Sterling Farms Golf Course Nitrogen Monitoring	On-going	On-Going	-	Total Nitrogen Use applied to 58.5 acres: 2013 - 5,380 tons	
8.4 E. Gaynor Brennan Municipal Golf Course Nitrogen Monitoring	On-going	On-Going	-	Total Nitrogen Use applied to 35 acres: 2013 - 9,082 tons	
9. Other Program Items					
9.1 Establish SPRPs	1	Complete	-	The City currently maintains the SPRPs for Highway Dept, Maint Dept & Recycle Center, Town Yard, PD, and WPCF. Other areas are covered by the SPRP established by the Stamford Fire & Rescue Department.	
9.2 Review & Modify Current SMP	Annually	-	-	The City's SMP was submitted to the DEEP in September 2014. No modifications are proposed at this time.	

HHW - Household Hazardous Waste

SMP - Stormwater Management Plan

DCIA - Directly Connected Impervious Area

BMP - Best Management Practices

LID - Low Impact Development

PHF - Pesticides, Herbicides and Fertilizers

SPRP - Spill Prevention and Response Plan

APPENDIX C
MS4 OUTFALL LOCATIONS

City of Stamford - CT0030279

IDDE Outfall Priority Ranking



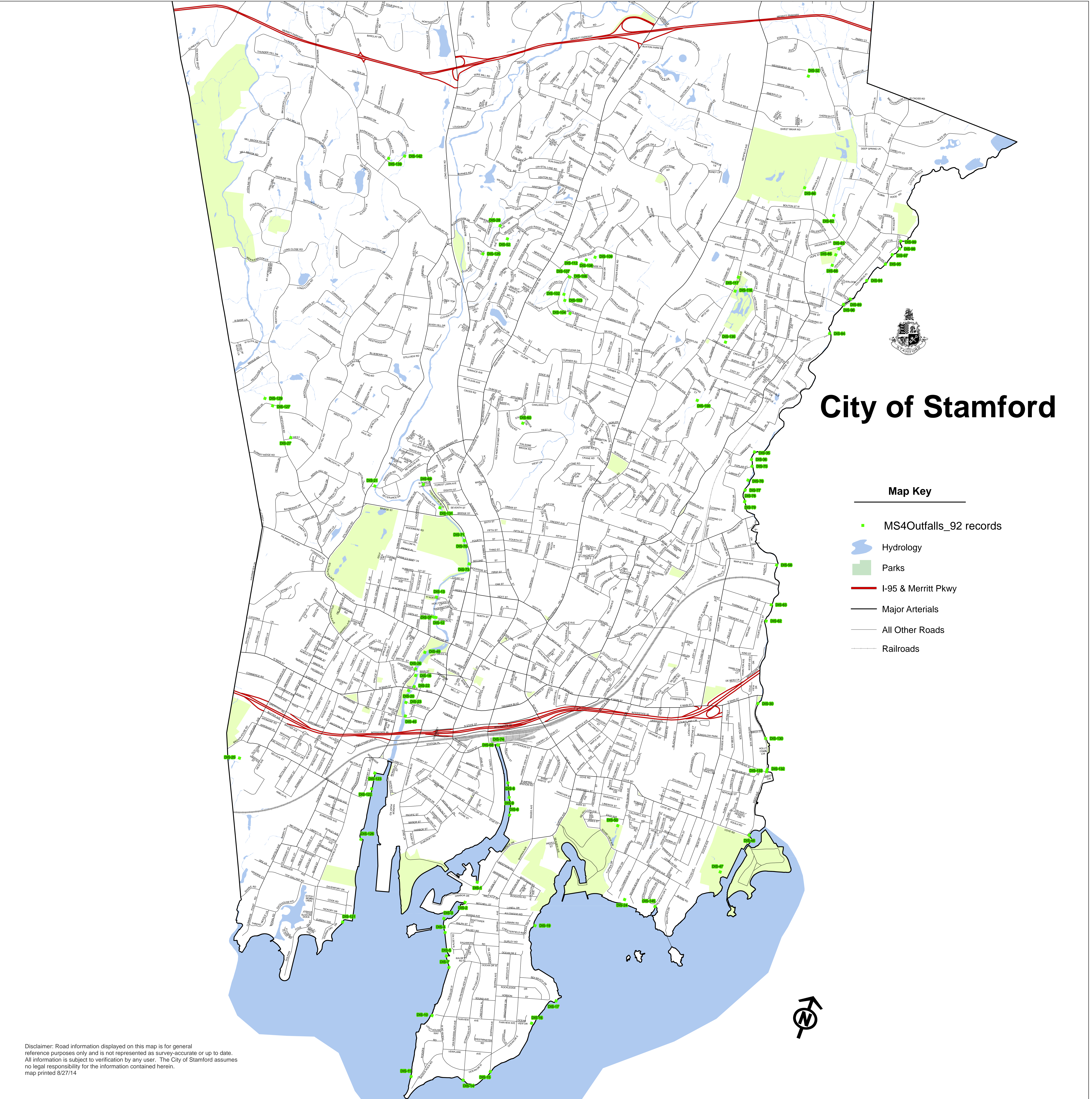
Outfall ID	Location	Receiving Stream	Priority Ranking	Notes
DIS-1	Harbor Drive - located in Schooner Cove Condos behind pool	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-2	Mitchell Street - end of street	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-3	Downs Avenue - behind 129 / 135 Downs Ave.	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-4	Ralsey Road - behind 1 Ralsey Road	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-5	Ralsey Road South - behind 43 Ral. Rd. / N. side Stam. Yacht Club	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-6	East side of East Branch - adjacent to WPCA	Stamford Harbor / Long Island Sound	A	may need boat to sample at low tide
DIS-7	Ocean Drive West - behind 115 ODW, S. side of Stam. Yacht Club	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-8	East side of East Branch - adjacent to Solid Waste Building	Stamford Harbor / Long Island Sound	A	may need boat to sample at low tide
DIS-9	East side of East Branch - adjacent to WPCA	Stamford Harbor / Long Island Sound	A	may need boat to sample at low tide
DIS-10	Fairview Ave. - West side. End of street	Stamford Harbor / Long Island Sound	B	possible recreational contact with water
DIS-11	Saddle Rock Road - backyard of 89 / 107 Saddle Rock Rd.	Stamford Harbor / Long Island Sound	B	possible recreational contact with water
DIS-12	Green Street - end of street	Rippowam River	B	discharge to impaired waters
DIS-13	West North St. -adjacent to bridge	Rippowam River	B	discharge to impaired waters
DIS-14	Stamford Ave. - end of street	Long Island Sound	B	possible recreational contact with water
DIS-15	Shippan Ave. - end of street	Long Island Sound	A	Previous MS4 permit sampling location #1
DIS-16	Ocean View Drive - end of street adjacent to public beach	Long Island Sound	A	possible recreational contact with water
DIS-17	Hobson St. - end of street	Long Island Sound	A	possible recreational contact with water
DIS-18	Main St. & Mill River St. at S. side of bridge	Rippowam River	A	Complaint of possible ID in area
DIS-19	Ocean Drive North - backyard of vacant lot between 20 & 40 ODN	Westcott Cove / Long Island Sound	A	possible recreational contact with water
DIS-20	Tresser Blvd. - adjacent to bridge on S. side	Rippowam River	A	Complaint of possible ID in area
DIS-21	Cold Spring road - adjacent to N. side of bridge	Rippowam River	A	Previous MS4 permit sampling location #2
DIS-22	Tresser Blvd. - adjacent to bridge on N. side	Rippowam River	A	Complaint of possible ID in area
DIS-23	Division St. - end of street	Rippowam River	A	Previous MS4 permit sampling location #4
DIS-24	Soundview Drive	Westcott Cove / Long Island Sound	B	possible recreational contact with water
DIS-25	Selleck St. - behind 328 Selleck - samples collected in manhole	Long Island Sound	A	Previous MS4 permit sampling location #6
DIS-26	Mill River St. & Smith St.	Rippowam River	A	Complaint of possible ID in area
DIS-27	West View Lane - N. side of street, off Westover Rd.	Mianus River	A	Complaint of possible ID in area
DIS-28	Meadowpark Ave. West - located in park area	Rippowam River	C	possible recreational contact with water
DIS-29	Innaccurate location - eliminated		-	
DIS-30	Weed Ave. - adjacent to E. Main St.	Holly Pond / Long Island Sound	B	possible recreational contact with water
DIS-31	Innaccurate location - eliminated		-	
DIS-32	Innaccurate location - eliminated		-	
DIS-33	Innaccurate location - eliminated		-	
DIS-34	Innaccurate location - eliminated		-	
DIS-35	Viaduct Road - backyard of 57 Viaduct Rd. adj. to end of cul de sac	Noroton River	B	discharge to impaired waters

DIS-36	Poplar St. - N. side of 52 Poplar St.	Noroton River	B	discharge to impaired waters
DIS-37	Vernon Place - end of street	Rippowam River	B	discharge to impaired waters
DIS-38	Innaccurate location - eliminated		-	
DIS-39	Innaccurate location - eliminated		-	
DIS-40	Innaccurate location - eliminated		-	
DIS-41	Innaccurate location - eliminated		-	
DIS-42	Innaccurate location - eliminated		-	
DIS-43	Innaccurate location - eliminated		-	
DIS-44	Innaccurate location - eliminated		-	
DIS-45	Richmond Hill Ave. - adjacent to bridge	Rippowam River	B	discharge to impaired waters
DIS-46	Innaccurate location - eliminated		-	
DIS-47	Cove Island Park - adjacent to S. end of parking lot	Cove Harbor / Long Island Sound	A	possible recreational contact with water
DIS-48	Cove Island Park - Cove Road	Cove Harbor / Long Island Sound	A	possible recreational contact with water
DIS-49	Mill River Park - adjacent to Mill River St.	Rippowam River	A	possible recreational contact with water
DIS-50	Cummings Park - adjacent to East Ave.	Westcott Cove / Long Island Sound	A	possible recreational contact with water
DIS-51	Innaccurate location - eliminated		-	
DIS-52	Meadowpark Ave. East - located in park area	Rippowam River	C	possible recreational contact with water
DIS-53	Innaccurate location - eliminated		-	
DIS-54	Innaccurate location - eliminated		-	
DIS-55	Innaccurate location - eliminated		-	
DIS-56	Innaccurate location - eliminated		-	
DIS-57	Innaccurate location - eliminated		-	
DIS-58	Maple Tree Ave. - south side of bridge	Noroton River	C	discharge to impaired waters
DIS-59	Innaccurate location - eliminated		-	
DIS-60	Stanwick Circle - backyard of 8 Stanwick Circle	Rippowam River	C	discharge to impaired waters
DIS-61	Innaccurate location - eliminated		-	
DIS-62	Courtland Hill St. - located in backyard of 119 Courtland Hill St.	Noroton River	A	discharge to impaired waters
DIS-63	Lenox Ave. - end of street	Noroton River	A	discharge to impaired waters
DIS-64	Innaccurate location - eliminated		-	
DIS-65	Innaccurate location - eliminated		-	
DIS-66	Innaccurate location - eliminated		-	
DIS-67	Innaccurate location - eliminated		-	
DIS-68	Jefferson Street - North end of East Branch	Stamford Harbor / Long Island Sound	A	may need boat to sample at low tide
DIS-69	West Forest Lawn Ave. - end of street	Rippowam River	C	discharge to impaired waters
DIS-70	Washington Blvd. and Fourth St. - South Outfall	Rippowam River	A	Previous MS4 permit sampling location #3
DIS-71	Washington Blvd. and Fourth St. - North Outfall	Rippowam River	A	Previous MS4 permit sampling location #3
DIS-72	Innaccurate location - eliminated		-	
DIS-73	Washington Blvd. and Second St.	Rippowam River	B	discharge to impaired waters
DIS-74	Jefferson Street - North end of East Branch	Stamford Harbor / Long Island Sound	A	may need boat to sample at low tide
DIS-75	Poplar St. - end of street	Noroton River	A	Previous MS4 sampling location #5
DIS-76	Research Drive - north of 74 Research Dr.	Noroton River	B	discharge to impaired waters
DIS-77	Research Drive - backyard of 74 Research Dr.	Noroton River	C	discharge to impaired waters
DIS-78	Research Drive - backyard of 92 Research Dr. - North outfall	Noroton River	A	discharge to impaired waters

DIS-79	Research Drive - backyard of 92 Research Dr. - South outfall	Noroton River	A	discharge to impaired waters
DIS-80	Innaccurate location - eliminated		-	
DIS-81	Innaccurate location - eliminated		-	
DIS-82	Old Colony Road - backyard of 3 Old Colony	Noroton River	B	discharge to impaired waters
DIS-83	Hope St. bridge at Mead St. - south side of bridge	Noroton River	B	discharge to impaired waters
DIS-84	Camp Ave. - located at southeast corner of prop. Adj. to RR tracks	Noroton River	B	discharge to impaired waters
DIS-85	Hope St - adjacent to springdale school ballfield	Noroton River	B	discharge to impaired waters
DIS-86	Minivale Rd. - backyard of 158 /156 Minivale rd.	Noroton River	B	discharge to impaired waters
DIS-87	Innaccurate location - eliminated		-	
DIS-88	Oenoke Place - backyard of Riveroak condos 40 Oenoke	Noroton River	B	discharge to impaired waters
DIS-89	Ceretta St. - end of street	Noroton River	B	discharge to impaired waters
DIS-90	Innaccurate location - eliminated		-	
DIS-91	Innaccurate location - eliminated		-	
DIS-92	Innaccurate location - eliminated		-	
DIS-93	Innaccurate location - eliminated		-	
DIS-94	Columbus Place - backyard of 71 / 65 Columbus Place	Noroton River	A	2008 photo shows possible illicit discharge
DIS-95	River Place - end of street	Noroton River	B	discharge to impaired waters
DIS-96	Garland Drive - adjacent to 92 Camp Ave.	Noroton River	B	discharge to impaired waters
DIS-97	Regent Court - backyard of 46 Regent Court	Noroton River	C	discharge to impaired waters
DIS-98	Regent Court - backyard of 32 Regent Court	Noroton River	C	discharge to impaired waters
DIS-99	Regent Court - backyard of 12 Regent Court	Noroton River	C	discharge to impaired waters
DIS-100	Joffre Ave. - backyard of 133 Joffre	Noroton River	C	discharge to impaired waters
DIS-101	Innaccurate location - eliminated		-	
DIS-102	Loveland Road - backyard of 305 Loveland Road	Undetermined	C	discharge to impaired waters
DIS-103	Crestwood Drive - backyard of 90 Crestwood Dr.	Undetermined	C	discharge to impaired waters
DIS-104	White Birch Lane - S. side of bridge	Undetermined	C	discharge to impaired waters
DIS-105	Innaccurate location - eliminated		-	
DIS-106	Dannell Drive - E. side of headwall	Undetermined	C	discharge to impaired waters
DIS-107	Dannell Drive - W. side of headwall	Undetermined	C	discharge to impaired waters
DIS-108	Woods End Road - backyard of 65 Woods End Road	Undetermined	C	discharge to impaired waters
DIS-109	Woods End Road - E. side of Stamford Land cons. Trust parcel	Undetermined	C	discharge to impaired waters
DIS-110	Innaccurate location - eliminated		-	
DIS-111	Innaccurate location - eliminated		-	
DIS-112	Woods End Road - backyard of 57 Woods End Road	Undetermined	C	discharge to impaired waters
DIS-113	Innaccurate location - eliminated		-	
DIS-114	Innaccurate location - eliminated		-	
DIS-115	Innaccurate location - eliminated		-	
DIS-116	Haig Ave. - located in southern park area	Noroton River	A	possible recreational contact with water
DIS-117	Haig Ave. - located in northern park area	Noroton River	A	possible recreational contact with water
DIS-118	Innaccurate location - eliminated		-	
DIS-119	Innaccurate location - eliminated		-	
DIS-120	Innaccurate location - eliminated		-	
DIS-121	Davenport Drive	Stamford Harbor / Long Island Sound	A	possible recreational contact with water

DIS-122	Davenport Street - O & G	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-123	Davenport Street - O & G	Stamford Harbor / Long Island Sound	A	possible recreational contact with water
DIS-124	Innaccurate location - eliminated		-	
DIS-125	Florence Court - backyard of 26 Florence Ct.	Rippowam River	C	
DIS-126	Southfield Avenue - behind 126 Southfield (marshall trucking)	Stamford Harbor / Long Island Sound	A	Complaint of possible ID in area
DIS-127	Westover Lane - south side of road	Mianus River	A	Complaint of possible ID in area
DIS-128	Innaccurate location - eliminated		-	
DIS-129	Westover Lane - north side of road /backyard of 43 Westover Ln.	Minanus River	A	Complaint of possible ID in area
DIS-130	Weed Ave. - adjacent to Birch St.	Holly Pond / Long Island Sound	A	possible recreational contact with water
DIS-131	Riverside Ave. - located in backyard of 19 Riverside	Rippowam River	C	
DIS-132	Weed Ave. and Matthews St. - South outfall	Holly Pond / Long Island Sound	A	possible recreational contact with water
DIS-133	Weed Ave. and Matthews St. - North outfall	Holly Pond / Long Island Sound	A	possible recreational contact with water
DIS-134	Innaccurate location - eliminated		-	
DIS-135	Crestview Ave. - backyard of 87 Crestview Ave.	Noroton River	C	discharge to impaired waters
DIS-136	Innaccurate location - eliminated		-	
DIS-137	Innaccurate location - eliminated		-	
DIS-138	Innaccurate location - eliminated		-	
DIS-139	Overhill Rd. and Barncroft Rd.	Rippowam River	C	discharge to impaired waters
DIS-140	Innaccurate location - eliminated		-	
DIS-141	Innaccurate location - eliminated		-	
DIS-142	Barncroft Road	Rippowam River	C	discharge to impaired waters
DIS-143	Innaccurate location - eliminated		-	
DIS-144	Innaccurate location - eliminated		-	
DIS-145	Kenilworth Drive East	Westcott Cove / Long Island Sound	B	possible recreational contact with water
DIS-146	Innaccurate location - eliminated		-	
DIS-147	Innaccurate location - eliminated		-	
DIS-148	Innaccurate location - eliminated		-	
DIS-149	Innaccurate location - eliminated		-	
DIS-150	Innaccurate location - eliminated		-	
DIS-151	Innaccurate location - eliminated		-	
DIS-152	Innaccurate location - eliminated		-	
DIS-153	Innaccurate location - eliminated		-	
DIS-154	Innaccurate location - eliminated		-	

Totals - 46 'A' Priority Ranking - to be screened by 6/30/2015
23 'B' Priority Ranking - to be screened by 6/30/2016
23 'C' Priority Ranking - to be screened by 6/30/2017
92 Total Outfalls screened by 6/30/2017



Disclaimer: Road information displayed on this map is for general reference purposes only and is not represented as survey-accurate or up to date. All information is subject to verification by any user. The City of Stamford assumes no legal responsibility for the information contained herein. map printed 8/27/14

APPENDIX D

PESTICIDE, FERTILIZER AND HERBICIDE USE: 2013 AND THROUGH JUNE 2014



Commercial Applicator Pesticide Use Summary Report

Print in ink or type unless otherwise noted. Retain a copy for your records.

This form must be submitted on or before January 31st for pesticide applications made during the preceding calendar year.

DEP USE ONLY
Date:

Part I: Pesticide Certified Supervisor Information

1. Name and Address of Certified Supervisor:

Name: Tracey Holliday

Home Address: 1347 Newfield Ave

City/Town: Stamford

State: CT Zip Code: 06905

Phone: 203-322-5731 ext.

Fax: 203-329-8172

Supervisory Certification No. S-1806

Arborist Certification No.

☐ Please check here if your home address has changed since your last submittal.

2. Name and Address of Business

Name: Sterling Farms Golf Course

Mailing Address: 1349 Newfield Ave

City/Town: Stamford

State: CT Zip Code: 06905

Business Phone: 203-321-3414 ext.

Fax:

203-329-8172

E-mail Address:

CARPY8@OPTonline.net

Contact Person:

Tracey Holliday

Title: Golf Course Superintendent

☐ Please check here if your business address has changed since your last submittal.

Part II: Reporting Period

1. This report covers the period from January 1,

to December 31, 2013

2. ☐ Check this box if pesticide usage by the above named supervisor has been reported by another Certified Supervisor and provide that individual's name and certification number.

Name:

Supervisory Certification No.

3. ☐ Check this box if *no pesticides were applied* during the above reporting period. If so, you must still complete and submit the remaining parts of this form, with the exception of Part IV.

Part III: Certified Applicator's Information

Name of Certified Applicator	Certification No.
Tracey Holliday - Certified Supervisor	S-1806
Keith Carper	O-27202
Athan Bakis	O-18852
Robert Dorus	O-18855
George Payne Jr	G-9727
William Bakis	O-41960

Part IV: Commercial Pesticide Usage

Pesticide Product Name	EPA Product Registration No.	Total Amount of Pesticide Used Before Diluting (check gals or lbs)
Cavalier F	100-69	32 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Tar tan	432-1446	17 1/2 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
T.M. 4.5 F	66222-134	20 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Headway	100-1216	20 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Insignia SC	7969-290	10 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Affirm	68173-3-1001	36 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Medallion SC	100-1448	14 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Dacril Action	100-1364	37 1/4 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Chlorothalonil 720 SFT	66222-154	80 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Secure	71512-20-100	17 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Provaunt	352-716	8 3/4 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Banol	432-942	30 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Lesco Banol	432-942-10404	9 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs

☐ Check here if additional sheets are necessary. You may reproduce this sheet and attach the additional sheets to this sheet.

Name of Certified Supervisor

Tracey Holliday

Certification No. S-1806

Reporting Year 2013

Part III: Certified Applicator's Information

Name of Certified Applicator	Certification No.
Tracey Holliday - Certified Supervisor	S-1806
Keith Carper	0-27202
Athan Bakis	0-18852
Robert Dorris	0-18855
George Payne Jr.	G-9727
William Bakis	0-41960

Part IV: Commercial Pesticide Usage

Pesticide Product Name	EPA Product Registration No.	Total Amount of Pesticide Used Before Diluting (check gal or lbs)
Chlorothalonil DF	66222-149-73220	80 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Tebuconazole	66222-117	17 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Conserve SC	62719-291	1 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Lambda GC-O	53883-244-66222	1 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Instrata	100-1231	54 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Scimitar GC	100-1088	1 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Acelepryne	352-731	10 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Dithiopyre 40 WSB	73220-3	92 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Lontrel	62719-305	5 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
		<input type="checkbox"/> gal or <input type="checkbox"/> lbs
		<input type="checkbox"/> gal or <input type="checkbox"/> lbs
		<input type="checkbox"/> gal or <input type="checkbox"/> lbs
		<input type="checkbox"/> gal or <input type="checkbox"/> lbs

☐ Check here if additional sheets are necessary. You may reproduce this sheet and attach the additional sheets to this sheet

Part VI Certification of Accuracy

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute."


Signature of Certified Supervisor

12/3/2013
Date

Mail completed Commercial Applicator Pesticide Use Summary Report to:

PESTICIDE MANAGEMENT PROGRAM
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127



Commercial Applicator Pesticide Use Summary Report

Print in ink or type unless otherwise noted. Retain a copy for your records.

This form must be submitted on or before January 31st for pesticide applications made during the preceding calendar year.

DEP USE ONLY
Date: _____

Part I: Pesticide Certified Supervisor Information

1. Name and Address of Certified Supervisor:

Name: Michael J. Sullivan

Home Address: 15 Unity Drive

City/Town: Stratford

State: CT Zip Code: 06614

Phone: 203-375-9613 ext.

Fax:

Supervisory Certification No. GS-3408

Arborist Certification No.

☐ Please check here if your home address has changed since your last submittal.

2. Name and Address of Business

Name: E. Gaynor Brennan Municipal G.C.

Mailing Address: 451 Stillwater Rd

City/Town: Stamford

State: CT Zip Code: 06902

Business Phone: 203-977-5694 ext.

Fax: 203-977-5695

E-mail Address: msullivan@ci.stamford.ct.us

Contact Person: Michael Sullivan

Title: Golf Course Supt.

☐ Please check here if your business address has changed since your last submittal.

Part II: Reporting Period

1. This report covers the period from January 1, 2011 to December 31, 2011

2. ☒ Check this box if pesticide usage by the above named supervisor has been reported by another Certified Supervisor and provide that individual's name and certification number.

Name:

Supervisory Certification No.

3. ☐ Check this box if ***no pesticides were applied*** during the above reporting period. If so, you must still complete and submit the remaining parts of this form, with the exception of Part IV.

Name of Certified Supervisor: Michael Sullivan

Certification No.: GS-3408

Reporting Year: 2011

Part III: Certified Applicator's Information

Name of Certified Applicator	Certification No.
Michael Sullivan	GS-3408
Charles Pollard	GS-4871

Part IV: Commercial Pesticide Usage

Pesticide Product Name	EPA Product Registration No.	Total Amount of Pesticide Used Before Diluting (check gals or lbs)
Acclaim X-tra	432-950	1.04 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Chipco GT	432-888	10 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Daconil Ultrex	50534-202-100	220 lbs <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Dimension 2EW	62719-542	.94 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Dismiss	279-3295	.25 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Drive 75 DF	7969-130	6 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Emerald	7969-196	5.88 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Headway	100-1216	18.35 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Medallion	100-769	13.13 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
PRIMO	100-937	.78 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Proplant	55260-9	2 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs
Signature	432-890	66 <input type="checkbox"/> gal or <input checked="" type="checkbox"/> lbs
Simitar	100-1078	.25 <input checked="" type="checkbox"/> gal or <input type="checkbox"/> lbs

☐ Check here if additional sheets are necessary. You may reproduce this sheet and attach the additional sheets to this sheet

Name of Certified Supervisor: Michael Sullivan

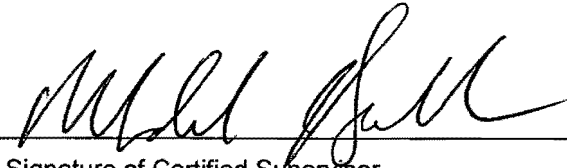
Reporting Year: 2011

[illegible][illegible]

DEP-PEST-REP-006

Part V: Certification of Accuracy

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute."



Signature of Certified Supervisor

1/28/12

Date

Mail completed Commercial Applicator Pesticide Use Summary Report to:

PESTICIDE MANAGEMENT PROGRAM
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Sterling Farms Golf Course
1347 Newfield Ave
Stamford, CT 06905

Total acres of golf course property is 132 acres of which 58.5 is fertilized.
Pesticides are handled, stored, disposed of and applied by licensed pesticide applicators by the DEP. See "Summary Reports for licenses" in accordance to the state and federal laws.
Licensed personnel maintain current licenses by attending training sessions (CEU's).
Mixing, handling, application dosage and timing involved in pesticide use and methods of application is all performed by licensed pesticide applicators who are trained by the DEP.
Integrated Pest Management, (IPM) is implemented to manage pest damage at Sterling Farms Golf Course. IPM incorporates proper identification and monitoring of potential pests, setting thresholds for acceptable pest damage and using cultural practices and resistant varieties of grasses. Pesticides are applied when all other acceptable preventive methods are no longer effective or available. Pesticides when used are chosen to target the specific pest and be the least detrimental to beneficial organisms, people, animals, water and the overall environment.
Sterling Farms Golf Course is already in the process of reducing total nitrogen and phosphorus use and will continue to implement practices that achieve 10% reduction by the expiration date of this permit.

Total nitrogen/1000ft²/year applied to 58.5 acres:

Year 2014: (10.5 – 11lbs)N/1000ft²/YR
Year 2013: (10.5 – 11lbs)N/1000ft²/YR
Year 2012: (11 – 12lbs)N/1000ft²/YR
Year 2011: (11 – 12lbs)N/1000ft²/YR
Year 2010: (11 – 12lbs)N/1000ft²/YR

Program breakdowns:

Greens: 5 acres receive (3.5 – 4lbs)N/1000ft²/YR
Granular fertilizers = approx. (2 – 2.5lbs)N/1000ft²/YR: (17-0-19) (10-20-20) (Milorganite)
Liquids = approx. (1-1.5lbs)N/1000ft²/YR: (N30 Plus 30-0-0) (12-0-0+6Fe) (4-14-2)

Tees: 3.5 acres receive (3 - 3.5lbs)N/1000ft²/YR
Granular fertilizers = approx. 3lbs/1000ft²/YR: (26-0-10 -70% slow release Polyon N)
Liquids = approx. 1/2lbs/1000ft²/YR: (N30 Plus 30-0-0)

Fairways: 25 acres receive (2lbsN/1000ft²/YR)
Granular fertilizers = approx. 1.75lbs/1000ft²/YR: (26-0-10-70% slow release Polyon N)
Liquids = approx. 1/4lb/1000ft²/YR: (N30 Plus 30-0-0)

Roughs: 25 acres receive 1.75lbs/1000ft²/YR
Granular fertilizer: (26-0-10-70% slow release Polyon N)

E. Gaynor Brennan Municipal Golf Course
451 Stillwater Road
Stamford , CT 06902

Total acres of the Golf Course Property is approximately 85. Of this Acreage, Only Greens(3 acres), Tees(2 Acres) and Fairways(20 Acres) are fertilized. For a total treated area of 25 acres. Areas of rough is approximately 10 acres treated.

All Pesticides are handled, stored, disposed of and applied by Licensed / Certified Applicators according to DEEP standards and requirements. Licensed personnel are required to updated their Pesticide License every five years as well as to take yearly CEU's and training sessions. This training must be reported to the DEEP as well.

All pesticides are mixed and applied by these licensed applicators Only, in a manner consistent with the rules and regulations of the Connecticut DEEP.

Integrated Pest management is continually incorporated at Brennan Municipal Golf Course. Both for Environmental, as well as financial reasons. Daily course tours by the Course Superintendent or his Assistant with monitor turfgrass pests for the purpose of determining Threshold levels of these pests. Brennan Municipal Golf Course continues to monitor use of all fertilizer and only uses it when necessary. Frequent use of organic products and methods are used in an effort to support microbial activity of the soil to assist in a future reduction of Fertilizer usage.

Total Nitrogen /1000sqft/year applied to 35 acres

Year 2014: 10.0 lbs N/1000sqft/year

Year 2013: 10.5 lbsN/1000sqft/year

Year 2012: 10.5 lbs N/1000sqft

Year 2011: 11 lbs N/1000sqft

Year 2010: 12 lbs N/1000sqft

Program breakdowns:

Greens : 3 Acres ; 2.5 lbs N/1000sqft/year

Granular Fertilizers: 2.0 lbs N/ 1000sqft/Year (14-0-26, 18-2-18, 22-3-11)

Liquid fertilizers : 1.0 lbs N/ 1000sqft/year (30-0-0, 18-3-6, 12-0-0, Fe, 4-5-4 Fe, 0-0-30)

Tees: 2 acres ; 3.0 lbs N/1000sqft/year (26-0-10, 18-2-18)

Fairways: 20 Acres; 2.5 lbs N/1000sqft/year

Granular Fertilizer: 2.0 lbs N/1000sqft/year (26-0-10)

Liquid Fertilizer : .5 lbs N/1000sqft/year (30-0-0, 0-0-30)

Rough: Approx. 10 acres; 2.0 lbs N/1000sqft/year (26-0-10)

2013 Nitrogen Application from Fertilizer

Sterling Farms Golf Course

Location	Fertilizer Type	lbs N (avg) / 1,000 SF	acres	lbs N
Greens	Granular	2.25	5	490.1
	Liquid	1.25	5	272.3
Tees	Granular	3	3.5	457.4
	Liquid	0.5	3.5	76.2
Fairways	Granular	1.75	25	1,905.8
	Liquid	0.25	25	272.3
Rough	Granular	1.75	25	1,905.8
Total			58.5	5,379.7

E. Gaynor Brennan Municipal Golf Course

Location	Fertilizer Type	lbs N / 1,000 SF	acres	lbs N
Greens	Granular	2	3	261.4
	Liquid	1	3	130.7
Tees	-	3	2	261.4
Fairways	Granular	2	20	1,742.4
	Liquid	0.5	20	435.6
Rough	-	2	10	871.2
Total			35	3,702.6

TOTAL	9,082.3
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Athletic Field Fertilizer use only, we do not use any Fertilizers on park Green space

1st application April 2nd Dimension application 18-0-40- 60 bags total used, each bag is 50lbs

2nd application May 2nd Propendi- 60 bags total used, each bag is 50lbs

3rd application Sept Fertilizer- 60 Bags total used, each bag 40lbs

Little League/Softball/Baseball

Troy #1 Field and Troy # Field 2- Cove

Federal #1 Field and Federal #2 Field

Kane Ave Field

Vine Road Field

Scalzi Little League Field/Scazli #1, #2 and #3

Cubeta Stadium

Springdale Little League Field

Kosciusko LL and Softball Field

Cummings #1 Field #2 Field #4 field and #5

Chestnut Field

Dorthey Heroy Field

Northrop (Stark school) Field

APPENDIX E

CATCH BASIN / MANHOLE REPAIR LISTING

Priority Legend: #1 - ASAP, #2 - 6 months, #3 - 1 year

Assigned

Not Assigned

CRS#	Date	#	Street	Complaints	Priority #	Date	Contractor	Not Assigned	FY14/15	COMMENTS2
	6/26/2014	75	Alton Road	Drainage Pipes						
	9/4/2014		Alton Rd/Norman Rd	Sinkhole along catch basin	2		w paving program	hold		
152484	7/3/2013	14	Ann St	Sinkhole along catch basin				private drive		
448529 112013	11/20/2013	21	Arden Lane	Mh broken(leaf pick up)	1			MH is sanitary (portanova)		
449380	1/6/2014	70	Ashton Rd	cb at driveway with hole/sinking	2			to Reliable		
	5/16/2014	28	Ayers Rd.	MH Repair		WPCA	6/4/2014			
w450566	5/9/1958	28	Ayres Drive	MH cover Missing(cone on mh)		WPCA	not assgd			
W453471	5/14/2014	28	Ayres Drive	MH ineffective						
150720	4/26/2013	103	Barncrof Road	MH needs to be built up (Low & makes too much noise)				x		
448521 111913	11/20/2013		Bedford Street/Avon Theatre	mh sinking(carolluzzi)	1	hold	WPCA	MH is sanitary (portanova)		
150936	5/3/2013	300	Bedford Street	Open MH near Avon theater			Hold?hgwy?	MH is sanitary (portanova)		
W453179	5/6/2014	15	Berges Ave.	Large potholes around storm drain at end of driveway	2					
	7/1/3014	14	Boxwood La	mh with barrel			hold	wpcap?		WPCA to fix
455756	8/4/2014	3	Brantwood La	cb sinking			to reliable 8/4	DONE		
		33	bridge st	cb sunken(mayor office)			DONE	to reliable 7/23		
455905	8/14/2014	83	BrookRun lane	Collapsed CB			to Reliable 815	HOLD CURB TOP ONLY		
4543450-61514	6/15/2014	38	Brushwood Road	Collapsed CB		2-Jul	To Reliable			
W453010	4/30/2014	49	Buena Vista St.	Storm drain pushed away from curb				highway?8/20		
W453031	5/1/2014	20	Center St.	Large washout pothole next to storm drain	1	22-May	To Reliable	DONE		
W452983	4/30/2014	28	Central St.	Water running on properties (2 cbs adj't)		CB DONE	to reliable	Highway to fix apron at Summit PI		
151302	5/22/2013		Ceretta Street	Hole near manhole			Highway			
	5/1/2014	12	Chestnut Hill Rd.	Creek running full and sending water into catch basin uphill						
448368 110813		38 Cook Rd	Cook Rd	Cb (MH) collapsing			Private Rd	to WPCA		
454550	6/20/2014	11	Corn Cake Land	Manhole loose			TO RELIABLE	9/8/2014		
151244	5/20/2013	35	Court Street	Deep depressions collect water						
452112	4/1/2014		Cousins Rd and Larkspur	CB with cone since last fall	1			Aquarion water Co		
152061	6/19/2013	33	Dancy Dr	catch bains flooded/possible pipe rupture/easement			highway?	HOLD		
454849	7/2/2014	36	Dogwood Court	CB collapsing		3-Jul	To reliable			
W447431-092413	9/25/2013	71	71 Doolittle Road	Broken manhole cover at this address-- pieces are missing			DONE	27-Sep	1	
W453665	5/21/2014	1	Elmcroft Road	Storm drain as sunk		6/3/2014	to reliable	DONE		
	8/26/2014		Elm St (under RR bridge)	Storm drain as sunk			to rel 8/26			
		1	ETHAN LA	CB collapsing				DONE	2	
W453991	6/2/2014	85	Euclid Avenue	CB ready to fall			To Reliable	DONE		
150980	5/6/2013	602	Fairfield Avenue	Catch basins completed (other at Brunwood Ave underize?)			Hold?hgwy?			
454147	6/9/2014	30	Fawn Drive	CB collapsing		23-Jun	To reliable	not visible		
152660	7/10/2013	67	Fawnfield Rd	cb raised up/back side also?			Hold?hgwy?	by paving contractor		
	11/22/2013	104	Gaymoor Drive	MH busted(cornelio) emergency	1	to RA	11/25/2013	DONE		
		160	Gaymoor Drive	catch basin at his location is collapsing				DONE		
			GLENDALDE Rd @ Hope Street	catch basin at his location is collapsing		7/25/2014		DONE		
454430-061714	6/17/2014	30	Glen Terrace	Washout next to storm drain			To reliable	not visible		
152550	7/8/2013	108	Gray Farm Rd	CB collapsed/top unbolted- sink hole in roadway	1			HOLD		
	11/27/2013		Hamilton Ave/JUDY St	CB collapsing				DONE		
151754	6/9/2013	228	Hamilton Ave/Field St	CB not draining (issue with pipe ?)	1		HOLD	x		
454449-061814	7/2/2014	24	Hinckley Ave.	CB with orange cone- needs repair			To Reliable	NOT CRITICAL		
455297	7/17/2014		hope st(bob's furniture)	mh sunken				to HIGHWAY 7/23		
	7/24/2014		HOPE ST/LARGO DR	MH sinking(D Hoyt)			To Reliable	DONE 7/25	1	
143413	8/27/2013	725	Hope Street	CB caving in and ready to fall at location				not visible		
			Glendale Rd @ Hope Street	CB caving				DONE	1	
		839	Hope Street	To Anthony- CB collapsed						

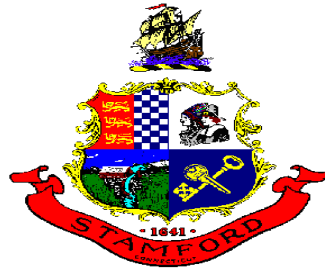
CRS#	Date	#	Street	Complaints	Priority #	Date	Contractor	Not Assigned	FY14/15	COMMENTS2
	9/3/2014	71	Interlaken Rd	cb to be repaired	1	DONE				
450950/451629	3/11/2014	96	KatydlANE	CB sinking (1x1 hole)	1		Reliable	done	1	
	2/3/2014	43	Kensington Rd	MH needs repair (Cornelio)	1			WPCA		
	6/15/2013	6	Jeanne Court	CB caving in and ready to fall at location	1		To Reliable	DONE		
W453013	4/30/2014	6	Jeanne Court	Basin repair		1-May	To Reliable	DONE		
W453872	5/29/2014	71	Jeanne Court	Loose MH				DONE		
454248-061114	6/11/2014	25	Jefferson St.	Storm Drain Collapse		25-Jun	To Reliable	DONE		
456883	9/19/2014	50	50 Lanark Road	cb w huge hole			To Reliable 9/19			
		100	Magee Ave	Storm Drain Collapse		26-Jun	To reliable	DONE		
455104	7/11/2014		Magee Ave	cb sank 10 @ jefferson st			To reliable	DONE PUMPING STA		
456984	9/25/2014	42	42 Malvern Rd.	cb to be repaired	1		To reliable 9/25			
151247	5/20/2013	38	Maple Tree Avenue	Large pothole		11-Jun	ToHighway			
	1/17/2014	17	marian St(Elisabeth ave)	cb at this intersection collapsing (Cornelio)	1			DONE		
			Meadow Street	Collapsed CB		11-Jun	To reliable	DONE		
456023	8/14/2014	15	Meadowpark south(nancy)	cb with holes(near this address)				DONE		
		19	Meredith La	cb damaged			to reliable 7/24			
	2/3/2014	232	232 minivale sewer manhole repair	MH repair (cornelio)	1		WPCA	not assigned yet		
W451768-031914	3/21/2014	41	Minivale RD	at # 41 cb crumbling	1		Reliable	DONE		
w450008	2/3/2014	40	Minivale RD	at # 41 cb crumbling	1		DONE	to reliable		
452294	4/7/2014	49	Minivale RD	storm drain collapsing			to reliable8/20	DONE		
W446890-090413	9/18/2013		114 Morgan Street	loose manhole	3		not visible	to highway 9/27		
447143 091313	9/13/2013		114 Morgan Street	loose manhole	3		not visible	highway ?		
			99/104 MULBERRY ST	2 CBS DMAGED				DONE		
		44	MOHAWK	CB DAMAGED				DONE 7/25		
		27	MOHAWK	CB DAMAGED (reliable picture)	2					
151064	5/9/2013	148	Myrtle Avenue	Manhold sunken very deep			Hold?hgwy?			
152817	7/16/2013		North Street	Sunken manhole cover			BrooksFiber			
	7/1/2014		North St/ Summer Street	CB sunken				DONE 7/25		
151291	5/21/2013		North Street/Atlantic St	Sunken manhole cover			BrooksFiber			
448574 112213	11/22/2013		Northhill/Palmer St	cb debris left in place	3	to highway	to remove debris			
449289	1/2/2014	47	Oaklawn Ave	cb with sink hole(hole is in grass/behind cb)	2			WPCA 6/12		
453694		359	Oaklawn Ave			4-Jun	to reliable	Done WPCA		
W453736	5/23/2014	118	Old Barn Road North	No rim on MH			WPCA	done		
	7/18/2014	99	OLD NORTH STAMFORD RD	2 MH'S sinking				to Highway to add asphalt		
		25	OLD NORTH STAMFORD RD	CB SINKING			DONE9/9			
149843	3/23/2013	112	Orchard Street	Storm Basin sinking below street level			to reliable	not visible		
	3/13/2014		Pepperidge rd/Turner Rd	cb with hole	2		not assgd	grating needed		
	8/19/2014		Pine Hill/Hope St	cb with hole(Hoyt Doug)			DONE	to reliable 8/19/14		
W453223	5/6/2014	63	Rachelle Ave.	Strom drain colapsing	2		Willie?	not assigned		
W452662	4/21/2014	96	Ridgecrest Rd.	Huge hole with an orange cone in it for 4-6 weeks		19-May	To Reliable			
153220	7/30/2013	64	Rippowam Rd	MH cover loose			Highway?	DONE 7/25		
455848	8/6/2014	36	RiverRidge Ct	cb in despair			to reliabl 8/15			
	12/16/2013		64 robinson	Hello Frank.64 robinson needs new ring.	2			WPCA DONE		
		88	Rockridge Rd	Collapsed CB		11-Jun	To reliable	DONE		
W453099	5/2/2014	336	Rock Rimmon Rd.	Road hazard						
W447664	10/4/2013	0	Rock Spring Rd.	MH cover sunk into road	1	?				
447664-100413	10/16/2013		RockSpring/Hope St	MH coversinking	3		not critical	HIGHWAY?		
152461	7/3/2013		RockSpring Rd/Puritan La	CB sinking		DONE		not visible		
454402	6/17/2014	98	Rolling Wood Drive	CB Collapse			To Reliable 6/18			
		176	roxbury rd	cb sinking(by field)			To Reliable 8/4	DONE		
w448884-090413			Russett Rd	Cb at Russett and Mac Intosh Rd (hole on side)	1	assgd		W/ Paving	1	
w450805	21914	46	Saddle rock rd	MH broken	3		electrical ?	Praksah alerted		
		148	Scofieldtown Rd	catch basin at his location is collapsing			to reliable 7/4	DONE		
150628	4/23/2013	244	Shelter Rock Road	When rains water goes under driveway if not collected	1			X		
W451498	3/14/2014		Shippan Elm and Cove	MH on southernly side is sunken				electrical MH		
w451397	3/21/2014		Skyline La/Northwind Rd	hole at cb	1		To Reliable 6/10	DONE	1	
W447416-092413	9/24/2013	90	90 Snow Crystal Lane	catch basin at his location is collapsing		9/27/2013	TO HIGHWAY	grating needed	DONE	
454346-061614	6/17/2014	24	Snow Crystal Ln.	Large sinkhole adjacent to CB				DONE	1	
455014			South State/Canal St	MH with plate(cornelio)				Reliable 7/9/14	WPCA DONE	
456864	9/17/2014	800	Stillwater Rd	CB at school driveway (K lassogna)	1		To Reliable	18-Sep	cornelio to make safe	
	7/8/2013	5	Strawberry Hill Rd	cb needs repair (by Cornelio)		verify if done		x		
w451566	13/15/2014	441	SUMMER ST	CORNELIO: CB REPAIR	1		DONE	not assigned yet		
447733 100813	10/16/2013		Summer St/Planet Pizza	Mh sunken		not visible	Highway?			
151223	5/17/2013	50	Sunnyside Avenue	Loose Catch Basin	3		to reliable	not visible		
455305	7/17/2014	149	sweet briar rd	cb sank 8 in			to REL			
W448578-112213	12/2/2013		Terrace Ave (High Rigde side)	2 cb's sinking	2		DONE	not assigned yet 12/2		
454345	6/15/2014	138	Thornwood Road	CB with hole		6/17/2014	To Reliable	DONE 7/25		
	7/16/2014		Thornwood Road/bruswood	2 cb's dange and sinking			to reliable	DONE 7/25		

CRS#	Date	#	Street	Complaints	Priority #	Date	Contractor	Not Assigned	FY14/15	COMMENTS2
	7/3/2014		Treat Ave	Change grates			TO HIGHWAY			
		191	Van Rensselaer	hole near CB				DONE		
W452816	4/24/2014	21	Verplank Ave./Stamford Ave.	CB needs repair for basin		29-May	To Reliable	DONE		
			Vine Rd(High Ridge)	Cb at corner (By Cornelio)	1			hold state dot?	DONE DOT	
w451129	3/9/1962		Henry St/Washington Blvd	mh broken cover (police dispatc)			patched by highway	to reliable/NOT VISIBLE		
W452655	4/21/2014	888	Washington Blvd.	MH cracked ring keeps popping off				patched by highway		
W309510-080513	8/5/2013	13	13 Webb Avenue	CRACKED FRAME,mh shakes and noisy	2	by Cornelio				
454299-0612174	7/2/2014	101	Webb Ave	Hole next to CB			To Reliable			
W453179	5/6/2014	326	Webbs Hill Rd.	Large potholes around storm drain at end of driveway			To Anthony			
452655	4/21/2014	128	Weed Hill Ave	MHW cracked ring	3			not critical		
152631	7/10/2013	420	West Ave	CB grating fellin				DONE HGWY		
W452076	3/31/2014	67	West Bank Ln.	Hole near storm drain sinking a lot			Highway TO FIX			
151299	5/22/2013		West Broad	Manhole cover is falling in the hole				highway repair		
	11/19/2013	18	West Havilland	MH broken by Highway(leaf pick up)(cornelio)	1	done RA	11/21/2013	highway to repair		
	8/8/2014		West Hill Rd.	Large puddle when it rains. Road/curb destroyed				highway to repair		
W452637	4/18/2014	220	West Hill Rd.	Large puddle when it rains. Road/curb destroyed						
W446777-082913	8/29/2013		West Hill Road/windover	flooding has destroyed the curb			to investigate flooding			
			269 West Lane	cb with hole(cone needed)				to Rel 8/28		
		164	Westwood Rd	cb with sink hole			TO RELIABLE 9/9			
	1/15/2014	90	Westwood Rd	MH ring broken (Cornelio)	3		WPCA	not critical yet		
454146	6/9/2014		White Birch Road	CB collapsing		6/18/2014	To reliable	DONE		
455260	7/16/2014	34	Willowbrook Place	cb with sink hole			to reliable	DONE		
W452467	4/14/2014	235	Willbrook Ave.	Clean catch basin in back yard of this address						
W453170-050514	5/5/2014	6	6 Winding Brook Lane	pothole near the grate of a storm drain.	1		not assigned	9/8/2014		
			WEST LA	cb with sink hole			To reliable	DONE		
					2					
W453395	5/12/2014	99	Woods End Road	Needs new MH frame			To Reliable	WPCA STRUCTURE		

APPENDIX F

STREET SWEEPING REPORTS: 2013 AND THROUGH JUNE 2014

The City of Stamford



**Mileage for Sweeping Program
January 2013 - June 30, 2014**

2013 - 2014 SWEEPER MILEAGE REPORT

JANUARY 2013

Sweeper #152

Date	Beginning	Ending	Total
			0
	Total Mileage		0

Sweeper #153

Date	Beginning	Ending	Total
1/9/2013	8492	8526	34
1/10/2013	8526	8541	15
1/11/2013	8541	8570	29
1/30/2013	8575	8660	85
1/31/2013	8660	8689	29
	Total Mileage		192

MONTHLY TOTAL 192

2013 - 2014 SWEEPER MILEAGE REPORT

FEBRUARY 2013

Sweeper #152

Date	Beginning	Ending	Total
			0
	Total Mileage		0

Sweeper #153

Date	Beginning	Ending	Total
2/26/2013	8689	8697	8
2/28/2013	8697	8704	7
	Total Mileage		15

MONTHLY TOTAL 15

2013 - 2014 SWEEPER MILEAGE REPORT

MARCH 2013

Sweeper #152

Date	Beginning	Ending	Total
			0
	Total Mileage		0

Sweeper #153

Date	Beginning	Ending	Total
3/1/2013	8704	8716	12
3/11/2013	8716	8788	72
3/12/2013	8788	8818	30
3/13/2013	8818	8843	25
3/14/2013	8843	8864	21
3/15/2013	8864	8897	33
3/20/2013	8897	8939	42
3/21/2013	8939	8966	27
3/22/2013	8966	9006	40
3/26/2013	9006	9038	32
3/27/2013	9038	9068	30
3/28/2013	9068	9085	17
	Total Mileage		381

MONTHLY TOTAL 381

2013 - 2014 SWEEPER MILEAGE REPORT

APRIL 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
4/3/2013	3268	3278	10
4/4/2013	3278	3298	20
4/8/2013	3298	3314	16
4/10/2013	3314	3334	20
4/11/2013	3334	3359	25
4/12/2013	3359	3374	15
3/16/2013	3374	3396	22
4/18/2013	3396	3413	17
4/22/2013	3413	3440	27
4/23/2013	3440	3477	37
4/24/2013	3477	3491	14
4/29/2013	3491	3520	29
4/30/2013	3520	3560	40
	Total Mileage		292

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
4/2/2013	9085	9111	26
	Total Mileage		26

MONTHLY TOTAL 318

2013 - 2014 SWEEPER MILEAGE REPORT

MAY 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
5/1/2013	3560	3581	21
5/2/2013	3581	3599	18
5/3/2013	3599	3619	20
5/6/2013	3619	3652	33
5/24/2013	3652	3662	10
5/30/2013	3662	3676	14
5/31/2013	3676	3695	19
	Total Mileage		135

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
5/2/2013	9111	9132	21
5/6/2013	9132	9169	37
5/7/2013	9169	9194	25
5/9/2013	9194	9222	28
5/10/2013	9222	9267	45
5/20/2013	9267	9328	61
5/21/2013	9328	9364	36
5/22/2013	9364	9383	19
5/23/2013	9383	9421	38
5/24/2013	9421	9454	33
5/29/2013	9454	9489	35
5/30/2013	9489	9525	36
5/31/2013	9525	9553	28
	Total Mileage		442

MONTHLY TOTAL

577

2013 - 2014 SWEEPER MILEAGE REPORT

JUNE 2013

Sweeper # 152

Date	Beginning Mileage	Ending Mileage	Total Mileage
6/4/2013	3695	3710	15
6/5/2013	3710	3730	20
6/6/2013	3730	3749	19
6/7/2013	3749	3758	9
6/12/2013	3758	3781	23
6/13/2013	3781	3795	14
6/18/2013	3795	3820	25
6/19/2013	3820	3855	35
6/21/2013	3855	3876	21
6/24/2013	3876	3890	14
6/25/2013	3890	3907	17
6/26/2013	3907	3935	28
6/27/2013	3935	3953	18
6/28/2013	3953	3975	22
	Total Mileage		280

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
6/3/2013	9553	9585	32
6/4/2013	9585	9606	21
6/5/2013	9606	9632	26
6/6/2013	9632	9653	21
6/7/2013	9653	9670	17
6/10/2013	9670	9697	27
6/11/2013	9697	9730	33
	Total Mileage		177

MONTHLY TOTAL 1034

2013 - 2014 SWEEPER MILEAGE REPORT

JULY 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
7/2/2013	3975	3988	13
7/19/2013	3988	4047	59
7/22/2013	4047	4069	22
7/23/2013	4069	4095	26
7/24/2013	4095	4133	38
7/29/2013	4133	4157	24
7/30/2013	4157	4182	25
7/31/2013	4182	4207	25
	Total Mileage		232

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
7/1/2013	9730	9807	77
7/2/2013	9807	9833	26
7/3/2013	9833	9872	39
7/5/2013	9872	9895	23
7/8/2013	9895	9927	32
7/9/2013	9927	9962	35
7/10/2013	9962	10000	38
7/11/2013	10000	10027	27
7/12/2013	10027	10051	24
7/15/2013	10051	10083	32
7/16/2013	10083	10119	36
7/17/2013	10119	10152	33
7/18/2013	10152	10184	32
7/19/2013	10184	10217	33
7/26/2013	10223	10252	29
	Total Mileage		516

MONTHLY TOTAL

748

2013 - 2014 SWEEPER MILEAGE REPORT

AUGUST 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
8/1/2013	4207	4227	20
8/5/2013	4227	4252	25
8/28/2013	4252	4277	25
	Total Mileage		70

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
8/7/2013	10269	10305	36
8/8/2013	10305	10329	24
8/12/2013	10329	10382	53
8/19/2013	10382	10426	44
8/21/2013	10426	10471	45
8/22/2013	10471	10508	37
8/26/2013	10508	10544	36
8/27/2013	10544	10577	33
8/29/2013	10578	10615	37
8/30/2013	10615	10636	21
	Total Mileage		366

MONTHLY TOTAL 436

2013 - 2014 SWEEPER MILEAGE REPORT

SEPTEMBER 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
9/12/2013	4277	4285	8
9/13/2013	4285	4297	12
9/16/2013	4297	4324	27
9/17/2013	4324	4351	27
9/19/2013	4351	4367	16
9/20/2013	4367	4395	28
9/23/2013	4395	4414	19
9/24/2013	4414	4446	32
9/30/2013	4446	4475	29
	Total Mileage		198

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
9/3/2013	10636	10665	29
9/4/2013	10665	10693	28
9/5/2013	10693	10723	30
9/6/2013	10723	10746	23
9/9/2013	10746	10776	30
9/10/2013	10776	10806	30
9/11/2013	10806	10834	28
9/12/2013	10834	10869	35
9/16/2013	10869	10903	34
9/17/2013	10903	10939	36
9/18/2013	10939	10983	44
9/19/2013	10983	11018	35
9/20/2013	11018	11032	14
9/23/2013	11038	11073	35
9/25/2013	11073	11128	55
9/26/2013	11128	11153	25
9/27/2013	11153	11173	20
	Total Mileage		531

MONTHLY TOTAL

729

2013 - 2014 SWEEPER MILEAGE REPORT

OCTOBER 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
10/7/2013	4475	4491	16
10/8/2013	4491	4503	12
10/15/2013	4503	4520	17
10/16/2013	4520	4557	37
	Total Mileage		82

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
10/1/2013	11173	11205	32
10/2/2013	11205	11237	32
10/3/2013	11237	11271	34
10/7/2013	11271	11304	33
10/8/2013	11304	11341	37
10/9/2013	11341	11368	27
10/10/2013	11368	11395	27
10/11/2013	11395	11412	17
10/16/2013	11412	11457	45
10/17/2013	11457	11486	29
10/21/2013	11486	11539	53
10/22/2013	11539	11570	31
10/31/2013	11570	11603	33
	Total Mileage		430

MONTHLY TOTAL

512

2013 - 2014 SWEEPER MILEAGE REPORT

NOVEMBER 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
11/12/2013	4557	4610	53
11/13/2013	4610	4649	39
11/14/2013	4649	4690	41
11/15/2013	4690	4751	61
11/18/2013	4751	4794	43
11/19/2013	4794	4842	48
11/20/2013	4842	4873	31
11/21/2013	4873	4899	26
11/22/2013	4899	5002	103
11/25/2013	5002	5020	18
11/26/2013	5020	5053	33
	Total Mileage		496

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
11/4/2013	11603	11604	1
11/5/2013	11604	11626	22
11/6/2013	11626	11652	26
11/7/2013	11652	11672	20
11/8/2013	11672	11685	13
	Total Mileage		82

MONTHLY TOTAL

578

2013 - 2014 SWEEPER MILEAGE REPORT

DECEMBER 2013

Sweeper #152

Date	Beginning Mileage	Ending Mileage	Total Mileage
12/3/2013	5053	5110	57
12/4/2013	5110	5142	32
12/6/2013	5142	5195	53
12/9/2013	5195	5222	27
12/11/2013	5222	5256	34
12/12/2013	5256	5290	34
	Total Mileage		237

Sweeper #153

Date	Beginning Mileage	Ending Mileage	Total Mileage
			0
	Total Mileage		0
		MONTHLY TOTAL	237

2013 TOTAL MILEAGE	5757
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2013 - 2014 SWEEPER MILEAGE REPORT

JANUARY 2014

Sweeper #151			
Date	Beginning	Ending	Total
			0
	Total Mileage		0
Sweeper #153			
Date	Beginning	Ending	Total
1/14/2014	11513	11536	23
	Total Mileage		23
MONTHLY TOTAL			23

FEBRUARY 2014

Sweeper #151			
Date	Beginning	Ending	Total
			0
	Total Mileage		0
Sweeper #153			
Date	Beginning	Ending	Total
			0
	Total Mileage		0
MONTHLY TOTAL			0

2013 - 2014 SWEEPER MILEAGE REPORT

MARCH 2014

Sweeper #151

Date	Beginning	Ending	Total
3/3/2014	12889	12907	18
3/18/2014	12914	12940	26
3/19/2014	12940	12972	32
3/20/2014	12972	13002	30
3/21/2014	13002	13024	22
3/24/2014	13024	13051	27
3/27/2014	13051	13092	41
3/28/2014	13092	13117	25
	Total Mileage		221

Sweeper #153

Date	Beginning	Ending	Total
3/10/2014	11536	11565	29
3/11/2014	11565	11582	17
3/12/2014	11582	11593	11
3/18/2014	11593	11613	20
3/19/2014	11613	11631	18
3/20/2014	11631	11650	19
3/24/2014	11650	11668	18
3/27/2014	11668	11682	14
3/28/2014	11682	11709	27
	Total Mileage		173

MONTHLY TOTAL 394

2013 - 2014 SWEEPER MILEAGE REPORT

APRIL 2014

Sweeper #151

Date	Beginning	Ending	Total
4/24/2014	13117	13216	99
4/25/2014	13216	13237	21
4/28/2014	13237	13277	40
4/29/2014	13277	13321	44
	Total Mileage		204

Sweeper #153

Date	Beginning	Ending	Total
4/8/2014	11709	11732	23
4/9/2014	11732	11764	32
	Total Mileage		55

MONTHLY TOTAL 259

2013 - 2014 SWEEPER MILEAGE REPORT

MAY 2014

Sweeper #151

Date	Beginning	Ending	Total
5/5/2014	13388	13428	40
5/6/2014	13428	13458	30
5/7/2014	13458	13480	22
5/8/2014	13480	13512	32
5/9/2014	13512	13535	23
5/12/2014	13535	13554	19
5/13/2014	13554	13585	31
5/14/2014	13585	13615	30
5/15/2014	13615	13644	29
5/16/2014	13644	13669	25
5/19/2014	13669	13691	22
5/20/2014	13691	13723	32
5/21/2014	13723	13766	43
5/22/2014	13766	13800	34
5/23/2014	13800	13816	16
5/27/2014	13816	13846	30
5/30/2014	13846	13881	35
	Total Mileage		493

Sweeper #153

Date	Beginning	Ending	Total
5/19/2014	11764	11810	46
5/20/2014	11810	11825	15
5/21/2014	11825	11851	26
5/22/2014	11851	11874	23
5/27/2014	11885	11921	36
5/28/2014	11921	11942	21
5/29/2014	11942	11967	25
	Total Mileage		192

MONTHLY TOTAL**685**

2013 - 2014 SWEEPER MILEAGE REPORT

JUNE 2014

Sweeper #151

Date	Beginning	Ending	Total
6/2/2014	13881	13910	29
6/4/2014	13912	13942	30
6/6/2014	13942	13973	31
6/9/2014	13973	14000	27
6/10/2014	14000	14030	30
6/18/2014	14030	14053	23
6/19/2014	14053	14084	31
6/20/2014	14084	14124	40
6/24/2014	14124	14165	41
6/25/2014	14165	14204	39
6/26/2014	14204	14222	18
	Total Mileage		339

Sweeper #153

Date	Beginning	Ending	Total
6/11/2014	11967	11990	23
6/12/2014	11990	12031	41
6/16/2014	12031	12101	70
6/17/2014	12101	12136	35
6/18/2014	12136	12170	34
6/19/2014	12170	12191	21
6/20/2014	12191	12213	22
6/23/2014	12213	12242	29
6/24/2014	12242	12262	20
6/25/2014	12262	12318	56
6/26/2014	12318	12328	10
6/27/2014	12328	12339	11
	Total Mileage		372

MONTHLY TOTAL 711

2014 TOTAL MILEAGE 1,813.00

TOTAL MILES SWEEPED JANUARY 1, 2013 - JUNE 30, 2014 7,570.00

The City of Stamford



**Sweeping Program
January 2013 - June 30, 2014**

SWEEPER REPORT

JANUAURY 2013

Date	Zone	Weight
1/9/2013	14 - 15	7.74
1/10/2013	DSSD	13.82
1/11/2013	DSSD	6.4
1/14/2013	12 - 13	10.74
1/15/2013	12 - 13	15.2
1/30/2013	16 - 23	23.4
Total		77.3

SWEEPER REPORT

FEBRUARY 2013

Date	Zone	Weight
2/1/2013	DSSD	3.47
2/26/2013	DSSD	8.02
2/28/2013	21	17.42
Total		28.91

SWEEPER REPORT

MARCH 2013

Date	Zone	Weight
3/1/2013	DSSD	6.84
3/4/2013	16 - 13	13.3
3/5/2013	22	6.89
3/6/2013	22	9.58
3/11/2013	11	16.21
3/12/2013	11	10.26
3/13/2013	Town Yard	21.87
3/14/2013	DSSD	13.26
3/15/2013	DSSD	10.84
3/18/2013	DSSD	2.5
3/20/2013	21	14.33
3/21/2013	11 - Town Yard	9.28
3/22/2013	DSSD	2.25
3/26/2013	23	17.75
3/27/2013	9A - 9B - TY	15.56
3/28/2013	DSSD	1.75
Total		172.47

SWEEPER REPORT

APRIL 2013

Date	Zone	Weight
4/1/2013	24	11.9
4/2/2013	22	4.71
4/3/2013	22	7
4/4/2013	14 - 13	9.14
4/8/2013	22	9.36
4/9/2013	22	5.43
4/10/2013	12 - 13	14.41
4/11/2013	12	10.95
4/12/2013		5.28
4/15/2013	7	7.99
4/16/2013	1	20.57
4/17/2013	25	11.22
4/18/2013	DSSD	12.52
4/22/2013	1	30.56
4/23/2013	2	27.03
4/24/2013		33.75
4/25/2013	14A - 13A	20.74
4/26/2013	DSSD	1.8
4/29/2013	8A	13.17
4/30/2013	DSSD	3.46

Total**260.99**

SWEEPER REPORT

MAY 2013

Date	Zone	Weight
5/1/2013	22	2.1
5/1/2013	DSSD	2.73
5/2/2013	13 - 14	8.57
5/3/2013	DSSD	7.63
5/6/2013	13A - 14A	22.02
5/7/2013	22	5.21
5/8/2013	26	12.43
5/9/2013	DSSD	6.83
5/10/2013	DSSD	3.56
5/13/2013	26	7.66
5/14/2013	11	6.36
5/15/2013	11	7.6
5/15/2013	15	4.62
5/16/2013	12A	15.28
5/17/2013	DSSD	5.45
5/20/2013	12B	24.01
5/21/2013	11A - 11B	22.32
5/22/2013	21	6.03
5/23/2013	23	10.06
5/24/2013	DSSD	5.55
5/28/2013	11B	8.5
5/29/2013	10A	7.63
5/30/2013	14A - 13A	8.78
Total		210.93

SWEEPER REPORT

JUNE 2013

Date	Zone	Weight
6/3/2013	9B	6.26
6/4/2013	22	4.44
6/5/2013	22	0.58
6/6/2013	27	11.23
6/6/2013	DSSD	3.61
6/10/2013	11	5.84
6/11/2013	11	5.3
6/12/2013	24	8.75
6/13/2013	15	6.37
6/17/2013	9	5
6/18/2013	25	6.82
6/19/2013	8C - 8B	11.83
6/20/2013	14	3.9
6/21/2013	DSSD	7.79
6/24/2013	8A - 8B	9.36
6/25/2013	1 - 11	17.52
6/27/2013	DSSD	6.12
Total		120.72

SWEEPER REPORT

JULY 2013

Date	Zone	Weight
7/2/2013	22	2.52
7/3/2013	22	8.52
7/5/2013	DSSD	2.12
7/08/213	11	5.04
7/9/2013	11	5.06
7/10/2013	26	8.69
7/11/2013	8	6.57
7/12/2013	DSSD	2.61
7/15/2013	12	4.22
7/16/2013	12	4.53
7/16/2013	DSSD	4.79
7/17/2013	6	17.24
7/18/2013	10	12.93
7/19/2013	DSSD	5.62
7/22/2013	17	2.55
7/23/2013	11	8.01
7/24/2013	13	16.26
7/25/2013	12	2.69
7/30/2013	13A - 14A	6.74
Total		126.71

SWEEPER REPORT

AUGUST 2013

Date	Zone	Weight
8/1/2013	11A	2.97
8/5/2013	13A	2.32
8/6/2013	22A	3.09
8/7/2013	22A	4.1
8/8/2013	26	3.11
8/9/2013	DSSD	1.11
8/12/2013	13	3.21
8/13/2013	11	4.01
8/14/2013	11A	5.34
8/16/2013	DSSD	2.17
8/19/2013	14B	2.36
8/20/2013	12B - A	7.57
8/21/2013	11	3.41
8/22/2013	14	5.93
8/23/2013	DSSD	4.2
8/26/2013	12A	2.01
8/27/2013	25	9.11
8/28/2013	24	9.17
8/29/2013	14 - 6	6.57
8/30/2013	DSSD	3.66
Total		85.42

SWEEPER REPORT

SEPTEMBER 2013

Date	Zone	Weight
9/3/2013	22	3.9
9/4/2013	22	3.59
9/5/2013	14A	7.44
9/6/2013	DSSD	2.68
9/9/2013	11	6.96
9/10/2013	11	4.91
9/11/2013	12	8.4
9/12/2013	26	3.13
9/16/2013	13	6.55
9/17/2013	TY B - A	8.37
9/18/2013	27	2.58
9/20/2013	DSSD	6.26
9/23/2013	8A - 8B	8.78
9/24/2013	1 -2	10.7
9/25/2013	15	8.07
9/26/2013	13	4.11
9/27/2013	DSSD	1.08
9/30/2013	21	6.98
Total		104.49

SWEEPER REPORT

OCTOBER 2013

Date	Zone	Weight
10/1/2013	22	4.98
10/2/2013	22	3.19
10/3/2013	25	2.4
10/7/2013	11	7.89
10/8/2013	11	4.26
10/9/2013	11	10.88
10/10/2013	26	3.31
10/11/2013	DSSD	3.79
10/15/2013	13 - 14	8.07
10/16/2013	11A - 11B	5.68
10/17/2013	26	2.6
10/18/2013	DSSD	3.52
10/21/2013	17	2.28
10/22/2013	23	4.54
10/23/2013	25	4
10/24/2013	DSSD	2.06
10/25/2013	DSSD	1.81
10/28/2013	25	3.24
10/29/2013	27	7.26
10/30/2013	14 - 13	5.57
10/31/2013	22	5.52
Total		96.85

SWEEPER REPORT

NOVEMBER 2013

Date	Zone	Weight
11/1/2013	DSSD	0.65
11/5/2013	22	42.52
Total		43.17

Leaf Pick Sweeper #151 -152 -153

Date	Weight
11/14/2013	74
11/12/2013	72
11/13/2013	72
11/15/2013	80
11/18/2013	70
11/19/2013	65
11/20/2013	63
11/21/2013	60
11/22/2013	74
11/25/2013	72
11/26/2013	70
Total	772

November 2013 Total	815.17
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SWEEPER REPORT

DECEMBER 2013

Date	Zone	Weight
12/23/2013	DSSD	6.14
12/30/2013	13 - 14	21.48
Total		27.62

Leaf Pick Sweeper #151 -152 -153

Date		Weight
12/2/2013		78
12/3/2013		77
12/4/2013		74
12/5/2013		58
12/6/2013		66
12/9/2013		57
12/11/2013		59
12/12/2013		54
12/13/2013		64
Total		587

December 2013 Total	614.62
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SUB TOTAL TONAGE SWEPT FOR 2013	2714.58
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* Tonage for leaf pick up is estimated at 1 ton per dump

SWEEPER REPORT

JANUARY 2014

Date	Zone	Weight
1/13/2014	22 - 23	14.24
1/14/2014	21	28.98
1/16/2014	14 - 16	19.36
1/17/2013	DSSD	7.47
Total		70.05

FEBRUARY 2014

Date	Zone	Weight
		0
Total		0

SWEEPER REPORT

MARCH 2014

Date	Zone	Weight
3/7/2014	DSSD	8.59
3/10/2014	DSSD	28.44
3/11/2014	16	16.74
3/12/2014	DSSD	5.63
3/18/2014	12	33.34
3/19/2014	14	24.52
3/20/2014	16	20.77
3/21/2014	DSSD	8.69
3/24/2014	26	13.2
3/26/2014	DSSD	1.81
3/27/2014	16	22.59
3/28/2014	DSSD	12.97
3/31/2014	24	9.39
Total		206.68

SWEEPER REPORT

APRIL 2014

Date	Zone	Weight
4/1/2014	22	25.43
4/2/2014	22	16.28
4/3/2014	13A	20.14
4/4/2014	DSSD	10.01
4/7/2014	23	14.06
4/8/2014	11	18.98
4/9/2014	13	6.02
4/10/2014	13	32.89
4/11/2014	DSSD	5.26
4/14/2014	11	7.26
4/15/2014	21	18.19
4/14/2014	DSSD	9.52
4/21/2014	8A	7.22
4/22/2014	8A	10.29
4/23/2014	5	9.75
4/24/2014	15	9.17
4/25/2014	DSSD	2.46
4/28/2014	8B - 8A	12.15
4/29/2014	14A	10.82
Total		245.9

SWEEPER REPORT

MAY 2014

Date	Zone	Weight
5/1/2014	16	6.91
5/2/2014	DSSD	3.23
5/5/2014	14A	10.31
5/6/2014	22	11.83
5/7/2014	22	6.03
5/8/2014	8	9.2
5/9/2014	DSSD	4.44
5/12/2014	11	8.91
5/13/2014	11	17.32
5/14/2014	12A - 12B	14.45
5/15/2014	12B- 12A	9.19
5/16/2014	DSSD	5.39
5/19/2014	11A	10.72
5/20/2014	11A - 11B	16.72
5/21/2014	WEST BEACH	37.89
5/21/2014	COVE ISLAND	10.07
5/22/2014	21	13.65
5/23/2014	DSSD	4.44
5/27/2014	10B	17.29
5/28/2014	10A	9.05
5/29/2014	26	11.9
5/30/2014	DSSD	6.46
Total		245.4

SWEEPER REPORT

JUNE 2014

Date	Zone	Weight
6/2/2014	9 - 9A	9.56
6/3/2014	22	1.47
6/4/2014	22	14.94
6/5/2014	8C	4.17
6/6/2014	DSSD	2.55
6/9/2014	11	11.28
6/10/2014	11	12.37
6/12/2014	12B	5.64
6/13/2014	DSSD	1.81
6/16/2014	COVE ISLAND	6.82
6/17/2014	23	8.09
6/18/2014	23	5.73
6/19/2014	4	32.66
6/20/2014	DSSD	7.81
6/23/2014	24	4.43
6/24/2014	13	35.08
6/25/2014	4	28.16
6/27/2014	DSSD	2.48
6/30/2014	21	4.36
Total		199.41

SUB TOTAL TONAGE FOR JANUARY - JUNE 30, 2014

967.44

2013 - 2014 SWEEPING SUMMARY

GRAND TOTAL OF ZONES SWEEPED	3,682.02
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ZONES WITH MOST SWEEPED DEBRIS 2013		
1/30/2013	16 - 23	23.4
2/28/2013	21	17.42
3/13/2013	Town Yard	21.87
4/24/2013		33.75
5/20/2013	12B	24.01
6/25/2013	1 - 11	17.52
7/17/2013	6	17.24
8/28/2013	24	9.17
9/23/2013	8A - 8B	8.78
10/9/2013	11	10.88
11/5/2013	22	42.52
12/30/2013	13 - 14	21.48

Total for Most Swept Zones 2013	248.04
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ZONES WITH MOST SWEEPED DEBRIS 2014		
1/14/2014	21	28.98
3/18/2014	12	33.34
4/10/2014	13	32.89
5/21/2014	WEST BEACH	37.89
6/24/2014	13	35.08

Total for Most Zones Swept 2014	168.18
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GRAND TOTAL OF MOST SWEEPED ZONES	416.22
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APPENDIX G

CATCH BASIN REPORTS: 2013 AND THROUGH JUNE 2014

2013 Catch Basin Report

Month	Date	Address	Number of Basins	Net Weight
JANUARY	1/4/2013	City Garage - Wash Bay		2.5
	1/8/2013	Tupper Drive		6.54
	1/8/2013	Carter Drive		7.08
		Soudview Drive/Willowbrook		
	1/9/2013	Avenue/Tupper Drive		6.6
		Willowbrook Avenue/Soundview		
	1/10/2013	Drive/City Garage & Wash Bay		6.61
		Kenilworth Drive/Beachview		
	1/10/2013	Drive/Weed Ave		7.76
	1/11/2013	Stillwater Avenue/Weed Ave		19.33
	1/19/2013	Cummings Beach		7.64
	1/31/2013	Ridge Creast		0.04
Total			0	64.1
FEBRUARY	2/1/2013	Wead Ave	2	1.57
	2/26/2013	Summer St./North St.	3	6.67
	2/26/2013	North St.	2	7.01
	2/28/2013	Cummings Beach	3	5.71
	2/28/2013	Saddle Rock/Warren St./Bridge St	6	6.36
Total			16	27.32
MARCH	3/1/2013	Saddle Rock		6.05
	3/1/2013	Cummings/West	5	5.55
	3/4/2013	Hirsch Rd/Newfield	4	6.76
	3/4/2013	Hirsch Rd/Newfield	3	3.74
	3/11/2013	West Beach/Cummings	6	4.83
	3/12/2013	Lafayette/Columbus Pl	5	6.37
	3/12/2013	Cummings Park	5	1.89
	3/13/2013	Bennett	4	4.85
	3/13/2013	Midland/Boxwood Dr	5	6.02
	3/13/2013	Bennett	3	3.17
	3/14/2013	Pheasant Ln	7	2.7
	3/14/2013	Bennett/Cummings/Cove Beach	8	1.53
	3/15/2013	Soundview Ave	4	3.23
	3/21/2013	Soundview Ave	4	4.21
	3/21/2013	Soundview Ave	3	4.38
	3/22/2013	Colonial Rd/Hope St	5	4.23
	3/22/2013	Soundview Ave	4	2.06
	3/25/2013	Soundview Ave	8	4.02
	3/25/2013	Glen Ave/Hope St/West North	5	5.05
	3/26/2013	Soundview Ave	5	2.02
	3/27/2013	Tupper Dr/Soundview	7	3.08
Total			100	85.74

APRIL

4/1/2013	Columbus Pl/Vine Rd	4	6.4
4/1/2013	McMullen Ct/Soundview Ct	7	4.04
4/1/2013	Saddlerock/Windell	3	4.25
4/2/2013	Weed Ave/Harbor Dr/Stephen St	5	5.1
4/2/2013	McMullen Ave/Owen Ave/James St	9	4.2
	Willowbrook/McCmullen/East		
4/3/2013	Ave/James	9	5.13
4/3/2013	Old North Stamford Rd	8	6.26
4/3/2013	Old North Stamford Rd	2	4.87
4/3/2013	Old North Stamford Rd	2	0.18
4/3/2013	Old North Stamford Rd	8	7.32
4/4/2013	Chin	5	5.35
4/4/2013	Willowbrook	6	4.31
4/4/2013			0.31
4/4/2013	Chin	5	5.32
4/5/2013	Tallyho/Sellek St	2	5.94
4/8/2013	Willowbrook	4	5.31
	West North/Elmtree/Wildwood/Rocky		
4/8/2013	Rapid	5	6.27
4/8/2013	Spruce St/Millriver Rd	6	4.79
4/8/2013	Willowbrook/Lafayett	5	1.3
4/9/2013	Bridge St/Hubbard Ave/Bedford St	4	5.7
4/9/2013	Wendell St	9	5.52
4/10/2013	Roxbury Rd/Westover Rd	2	5.69
4/10/2013	Warewell St/Soundview Ave/Limerick	7	3.57
4/11/2013	Frostpond	4	5.78
4/11/2013	Frostpond	2	6.67
4/11/2013	Turn of River Rd	4	4.52
4/11/2013	Frostpond	4	2.66
4/11/2013	Frostpond	4	6.93
4/12/2013	Frostpond	2	1.79
4/15/2013	Turn of River Rd	6	4.25
4/15/2013	Frostpond/Elise Dr/Buckingham Ct	5	6.61
4/16/2013	Turn of River Rd	1	1
4/16/2013	Frostpond Rd	4	6.2
4/16/2013	Congress St	5	4.38
4/16/2013	Aspen Ln	4	2.55
4/16/2013	McClurg	3	3.26
4/17/2013	Fairfield Ave	4	4.48
4/17/2013	Aspen Ln	4	4.77
4/17/2013	Fairfield Ave	4	2.54
4/18/2013	Aspen Ln	5	4.96
4/18/2013	Fairfield Ave	4	2.79
4/18/2013	Gaymoore Dr	5	6.48
4/18/2013	Fairfield Ave	4	3.1
4/19/2013	Gaymoore Dr	5	6.07

	4/19/2013	Gaymoore Dr	3	2.48
	4/22/2013	Sea Beach Dr/ Gaymoore Dr	7	6.41
	4/24/2013	Prudence Dr	5	5.32
	4/24/2013	Prudence Dr/Hidden Brook	9	6.59
	4/24/2013	Fairfield Ave	4	3.26
	4/24/2013	Windybrook Dr	5	5.82
	4/24/2013	Maple Ave	2	3.82
	4/24/2013	Fairfield Ave/Young Dixon Way	4	2.16
	4/25/2013	Hemlock Dr	8	5.87
	4/25/2013	Fairfield Ave	7	3.35
	4/25/2013	Hemlock Dr	4	5.64
	4/25/2013	Fairfield Ave	4	1.18
	4/25/2013	Hemlock Dr	2	2.64
	4/26/2013	Fairfield Ave/Sellek St	4	2.34
	4/29/2013	Silverhill	12	6.71
	4/29/2013	Sellek St	8	5.04
	4/29/2013	Lawn Ave/Silver Hill/Shippan Ave	7	5.11
	4/29/2013	Sellek St	4	3.86
	4/29/2013	Lawn Ave	4	2.82
	4/30/2013	Lawn Aven/Sutten Dr	7	5.36
	4/30/2013	Sellek St	6	4.85
	4/30/2013	Maple Ave	4	4.1
	4/30/2013	Sellek St	3	5.34
	Total		323	298.99
MAY	5/1/2013	Vine Rd/Nutmeg	4	5.19
	5/1/2013	Sellek St	6	4.21
	5/2/2013	Vine Rd	4	4.28
	5/1/2013	Sellek St	5	2.58
	5/3/2013	Newfield Ave/Vine/Haig Ave	4	6.35
	5/6/2013	Glenbrook Rd/Coloden Rd/Pepper Ridge	4	4.8
	5/7/2013	Pepper Ridge Rd/Westhill Rd/Silverhill	5	3.99
	5/7/2013		7	2.56
	5/8/2013	Maple Ave	5	4.16
	5/9/2013	Virgil/Glenbrook Rd/Pumping Station Rd/Altantic St	7	3.66
	5/13/2013	Glenbrook Rd	5	4.71
	5/13/2013	Alpine St/Wood Dine Rd/Tower Ave	6	5.69
	5/14/2013			6.97
	5/14/2013	Glenbrook Rd/East Main	7	6.46
	5/15/2013	Glenbrook Rd/Maple Ave/East Main	5	2.87
	5/15/2013	Frederick St/Clark St/Spruce St	6	7.1
	5/15/2013	Hobson St	2	2.3
	5/16/2013	Cove Rd	6	2.53
	5/16/2013	Hobson St	5	7.06

	5/16/2013	Hobson St	4	4.2
	5/17/2013	Canal	2	5.25
	5/20/2013	City Garage/Stillwater/West Main	10	5.81
	5/21/2013	Stillwater Rd	7	5.32
	5/21/2013	Cedar Heights	5	7.78
	5/22/2013	Cedar Heights	1	3.35
	5/22/2013	Stillwater Rd	6	4.64
	5/22/2013	Stillwater Rd	5	5.17
	5/23/2013	Stillwater Rd	7	2.16
	5/23/2013	Cedar Heights	6	9.25
	5/24/2013	Stillwater	2	4.63
	5/28/2013	Stillwater	5	3.44
	5/28/2013		11	1.77
	5/28/2013	Stillwater	4	2.79
	5/29/2013	Stillwater	2	2.71
	5/29/2013	Cedar Heights	5	3.44
	5/30/2013	Stillwater	5	6.73
	5/30/2013	Stillwater	3	3.14
	5/31/2013	Stillwater	5	3.02
Total			188	172.07
JUNE	6/3/2013	Stillwater/Ashton Rd	5	1.8
	6/4/2013	Ashton Rd/Newfield Ave/Verplark Ave/Stillwater Rd	6	4.13
	6/5/2013	Burwood Ave/Bedford St/Hinekey Ave	6	1.78
	6/5/2013	Burwood Rd	3	1.32
	6/6/2013	Lennox Ave/Chatam Rd/Elm Tree	3	6.58
	6/10/2013	Chatham/Sawmill Rd	2	2.97
	6/11/2013	Webb Ave/Newfield Ave	4	3.38
	6/12/2013	W. Haviland Rd	1	2.41
	6/13/2013	Pin Oak Cir/W Haviland/Webb Ave/Newfield Ave/Lockwood Ave	8	3.81
	6/13/2013	Lockwood	5	0.56
	6/14/2013	Golden Rd/Lockwood Ave	5	0.47
	6/14/2013		3	2.25
	6/17/2013	Westhill Cir/Brownhouse Rd	5	6.04
	6/17/2013	High Clear Dr	2	0.76
	6/18/2013	Dora/Daney/Newfield/Westhill/Fairmont	8	3.79
	6/19/2013	Foxwood/Scofieldtown/Foxhill/Fairmont	5	1.18
	6/21/2013	Czeik Marince Parking	5	5.61
	6/24/2013	Jettted/Gaxar/Newfield	4	4.01
	6/25/2013	Apple Valley	4	3.7
	6/28/2013	Happy Hill	5	4.34
Total			89	60.89
	7/1/2013	Apple Valley/Newfield Ave	12	6.61
	7/1/2013	Winters St	1	2.29

JULY

7/2/2013		11	8.57
7/3/2013		8	4.33
7/8/2013	Federatl St/Pumping Station Rd	4	7.22
7/9/2013	Wire Mill/Federal St/Sellek/Culloden Rd	5	6.51
7/10/2013	Bedford St/Fairmon Ave	7	2.44
7/11/2013	South Stair St	7	9.28
7/11/2013	South Stair St	8	8.44
7/12/2013	North State St	7	8.24
7/12/2013	North State St	3	2.61
7/12/2013	Sellek St	6	5.65
7/15/2013	North/South State St	5	6.31
7/15/2013	Sunnyside Ave	9	7.18
7/15/2013		4	7.52
7/16/2013	Taffy Ave	4	5.83
7/16/2013	Southfield Ave	6	4.77
7/16/2013	Tower Ave	5	2.71
7/16/2013	Southfield Ave	4	5.32
7/17/2013	Southfield Ave	7	4.42
7/17/2013	South State	6	2.7
7/17/2013		8	3.09
7/15/2013		8	3.84
7/18/2013		4	6.24
7/18/2013	Grove	6	3.66
7/19/2013	Lenox Ave	4	5.33
7/19/2013		9	5.38
7/22/2013		8	4.8
7/22/2013	Rippowam/Grove	13	6.52
7/23/2013	Travis Ave/2nd St	8	6.43
7/23/2013		9	5.73
7/24/2013	5th St	5	5.85
7/24/2013	5th St	8	6.34
7/24/2013		11	6.37
7/25/2013	Old Ban/River Ridge Ct/Nalthie Av	7	5.06
7/25/2013	5th St/Bedford St	5	5.94
7/25/2013	Malthie	6	6.09
7/26/2013	Bedford St	4	4.11
7/26/2013	Bedford/South State	6	5.15
7/29/2013	Stark Pl/Stillwater/Brownley Dr	9	6.38
7/29/2013	Crystal Lake	5	5.21
7/29/2013	Crystal Lake	5	3.66
7/30/2013	Wildwood Rd/Henry St	15	6.9
7/31/2013	Joffre Ave	6	6.78
7/31/2013	Henry St	13	5.83
7/31/2013	Ledge Ln/Joffre Ave	3	2.44
Total		314	252.08
8/1/2013	Henry St	10	2.89
8/1/2013	Deacon Hill/Sussex Rd/Joffre Rd	12	6.22

AUGUST

8/1/2013	Jamroga Rd	3	3.39
8/2/2013	Little Hill Rd/Jamroga Rd	4	1.52
8/2/2013	Silver Hill	10	3.16
8/5/2013	Little Hille Dr	5	7.59
8/5/2013	Jessup	5	4.17
8/6/2013	Idlewood Rd	14	6.03
8/6/2013	Little Hill Rd/Jamroga Rd	9	6.81
8/6/2013	Idlewood Rd	12	7.26
8/7/2013	Rolling Wood Dr	12	4.51
8/7/2013		10	4.4
8/8/2013	Old Mill	8	6.76
8/8/2013	Bon Air/Birchwood	7	6.03
8/8/2013	Birchwood	7	4.77
8/8/2013	Matthews	2	1
8/9/2013	Old Mill	12	2.75
8/9/2013	High Clear Ave	6	3.3
8/12/2013	High clear/Bell St	10	5.9
8/13/2013	Apple Bee/Briarwood Ln	6	4.03
8/13/2013		10	2.71
8/14/2013	Hardesty Rd	12	6.3
8/14/2013	Fairmont/Elm St	8	3.85
8/14/2013	Hardesty Rd	13	6.14
8/14/2013	Elm St	6	2.32
8/15/2013	Hardesty Rd/constance Dr/Den	11	6.53
8/15/2013	Knox Rd	8	3.01
8/15/2013		3	4.58
8/15/2013	Den Rd	2	1.83
8/16/2013	Betts Pl/Wavely Pl	7	3.98
8/19/2013	Knox Rd/Wilson St	9	7.27
8/20/2013	Knox Rd/Wilson St	8	3.88
8/20/2013	Dian Rd/Ridgebrook	7	6.75
8/20/2013	Wilson/Waverly	4	2.24
8/20/2013	Dulan/Mill rd/Mill Valley	8	5.38
8/21/2013	Randt/Willard Terrace/Hope St	8	5.28
8/21/2013	Hope St	11	0.81
8/22/2013	Knottingham	5	2.82
8/22/2013	Hope St/Opper Rd	12	5.25
8/22/2013		8	5.12
8/23/2013		13	4.87
8/23/2013	Opper Rd	7	3.95
8/26/2013		5	6.86
8/26/2013	Stillwater Rd	8	3.5
8/26/2013	Broad St	10	4.24
8/27/2013	Broad St	11	6.6
8/27/2013	Redmont	8	5.59
8/27/2013	Opper Rd	5	4.65
8/28/2013	Dolan Dr	7	4.47
8/29/2013	Northwood	6	7.13

Total	8/29/2013	Wilson/Waverly/Wallace	7	5.61
	8/29/2013	Wilson St	11	4.84
	8/30/2013	Wilson/Waverly	6	6.97
			428	247.82
SEPTEMBER	9/3/2013	Northwood Ln/Rochridge Ln	14	6.75
	9/3/2013	Ardmore/Outlook/Crap Apple/Aton Rd	10	7.7
	9/4/2013	Harvard Ave/Erskire Rd	9	4.4
	9/5/2013	Larkspur Rd	6	7.21
	9/5/2013	Blackberry Dr	7	6.28
	9/5/2013	Larkspur Rd	2	3.19
	9/5/2013	Blackberry Dr	13	3.17
	9/6/2013	Blackberry Dr	8	3.54
	9/9/2013		8	4.55
	9/9/2013	Breezy Hill	13	3.91
	9/10/2013	Clay Hill Rd	5	3.17
	9/10/2013	Clay Hill Rd	10	4.28
	9/11/2013	Country Club Rd	7	5.16
	9/11/2013	Coverty Rd/Rolling Ridge	7	2.59
	9/11/2013	Lakeside Dr	7	6.17
	9/11/2013	Lakeside Dr	4	4.21
	9/12/2013	Rolling Ridge	5	5.18
	9/12/2013	Harvard Ave	7	5.76
	9/12/2013	Harvard Ave	8	4.39
	9/13/2013	Revonah Cir/Canal St/Henry St	13	4.81
	9/13/2013	Revonah Cir	13	5.06
	9/13/2013	Breezy Hill Rd	5	3.5
	9/16/2013	Mill Spring Rd	5	8.11
	9/16/2013	Harvard Ave/Mill Spring Rd	5	3.55
	9/16/2013	Pamlynn Rd	5	6.66
	9/16/2013	Barmore	7	5.25
	9/17/2013	Mill Spring Rd	4	3.54
	9/17/2013	Mill Spring Rd	5	6.15
	9/18/2013	Mill Valley Rd	6	3.38
	9/18/2013	Alton Rd	4	0.88
	9/18/2013	Barmore	13	6.56
	9/18/2013	Barmore	13	5.41
	9/19/2013	Barmore	13	5.73
	9/19/2013	Bentwood	6	6.7
	9/19/2013	City Garage	11	4.18
	9/20/2013	City Garage	7	4.08
	9/20/2013	Bedford St/Bentwood	5	3.31
	9/23/2013	Palmer St/Whittaker Pl	4	5.8
	9/23/2013	Dartley Rd	5	7.26
	9/23/2013	Courtland Cir	4	2.59
	9/23/2013	Camore St/Edice St	5	5.15
	9/24/2013	Donbob Rd	7	6.33
	9/24/2013	Largo Park Area	8	4.85

	9/24/2013	Don Bob Rd	4	2.85
	9/25/2013	Palmer Hills	9	8.98
	9/25/2013	Barrett Ln	6	2.17
	9/25/2013	Palmer Hills	7	2.58
	9/25/2013	Arbor Rd	6	1.38
	9/26/2013	Haig Ave	5	1.27
	9/26/2013	Palmer Hill/Fredrick St	8	4.19
	9/26/2013	Carrington Dr	5	3.32
	9/26/2013	Westhill Rd	13	2.57
	9/27/2013	Woody Trail/Carrington Dr	9	7.6
	9/27/2013	Haig Ave/Orchard Ave	7	3.33
	9/30/2013	Haig Ave	5	5.18
	9/30/2013	Haig Ave	5	5.02
	Total		412	260.89
OCTOBER	10/1/2013	Haig Ave	4	5.04
	10/1/2013	Haig Ave	6	3.17
	10/2/2013	Haig Ave	6	3.64
	10/3/2013	Viaduct/Mill Rd	11	7.68
	10/3/2013	Viaduct Rd	5	3.13
	10/4/2013	Viaduct/Stonewall Rd	9	5.36
	10/4/2013	West Trail	15	3.56
	10/4/2013		9	4.03
	10/7/2013	Fishing Trail	5	5.14
	10/7/2013	Town Yard/Poplar St	10	4.07
	10/7/2013	Fishing Trail	3	4.73
	10/8/2013		6	5.82
	10/8/2013	Clearview	10	5.94
	10/8/2013	Fishing Trail/Setters Trail/Woody Trail	12	2.78
	10/09/213	Clearview/Wildwood Rg	10	3.2
	10/9/2013	Knapp St/St. Charles	4	5.34
	10/9/2013		7	5.43
	10/10/2013	St. Charles	6	4.43
	10/11/2013	St. Charles	4	5.22
	10/15/2013	Bennett St/Northhill	8	4.68
	10/16/2013	Ocean Dr	4	4.8
	Total		154	97.19
NOVEMBER			0	0
DECEMBER			0	0
TOTAL			2024	1567.09

2014 Catch Basin Report

Month	Date	Address	Number of Basins	Net Weight
JANUARY	1/13/2014			4.14
	1/14/2014			4.01
	1/15/2014			5.85
	1/16/2014			4.19
	Total			18.19
FEBRUARY				
Total				
MARCH	3/28/2014	Silver Hill/Little Hill	8	4.9
	Total			4.9
	4/2/2014	Lockwood Ave/Westover	6	6.38
	4/3/2014	Strawberry Hill	1	0.16
	4/3/2014	Strawberry Hill/Orange St	9	2.72
	4/8/2014	Skyline/Northwing/Wire Mill Rd	10	2.09
	4/8/2013	Elm St	9	1.61
	4/9/2014	Lindsey St/Clifford St/Rome Ave	9	3.55
	4/9/2014	Lindsey/Rome/Clifford Ave		5.49
	4/10/2014	Kenney Ln/Cambridge	9	5.93
	4/10/2014	Skyline	1	2.07
	4/11/2014	Cambridge Rd	5	6.83

APRIL

4/14/2014	Wire Mill Rd	4	4.42
4/14/2014	Wees Hill Ave		6.19
4/14/2014	Weed Hill	9	3.78
4/16/2014	Lewis Rd/Hirsch Rd	7	5.97
4/16/2014	Barnhill/Morgan	10	3.68
4/17/2014	Crestwood Rd/Dannel Dr	4	4.91
4/17/2014	Elm St/Lafayette/Summer St/Lockwood Ave	18	4.37
4/21/2014	Dannel Dr	5	5.31
4/21/2014	Lafayette/Elm St/ Lockwood	12	6.65
4/22/2014	Pin Oak Cir/Donnell/Smith St/ Skymeadow Rd	10	4.76
4/23/2014	Wire Mill Rd/Dannel Dr	6	6.8
4/23/2014	Indian Hill	5	6
4/23/2014	Indian Hill	9	5.12
4/23/2014	Dannel Dr/Rippowam	4	2.3
4/24/2014	Indian Hill	6	5.16
4/24/2014	Hirsh Rd/Powell Pl/Ivy St	7	3.44
4/24/2014	Indian Hill/Bayberry	10	4.31
4/24/2014	Ivy St/Powell Pl	6	6.05
4/25/2014	Broad St	6	4.4
4/28/2014	Westhill Cir	R - Side	9.77
4/28/2014	Westhill Cir	L-Side	5.37
4/29/2014	Westhill Cir	8	6.8

Total

205

152.39

MAY

5/2/2014			6.49
	Third St/Strawberry Hill/85 Maple		
5/5/2014	Tree/Lillian/Miniunle/Tremont	8	5.6
5/6/2014			8.03
5/6/2014			6.67
5/7/2014			7.1
5/8/2014	Ivy St/Windsor/Red Fox	9	8.64
5/12/2014	East Middle Patent	6	7.23
5/15/2014	Meredith Ln/41 Berrian/Baxter Ave	8	7.12
5/15/2014	22 Bel Air/Haviland Rd	4	2.5
5/19/2014	Bennet St	8	6.16
5/20/2014	Short Ursula Pl/Halloween Blvd/Newfield	8	7.18
5/21/2014	Left side Newfield Ave/Cascade Rd	10	6.69
5/22/2014	Woodbinc (R and L side)	12	7.29
5/27/2014	Cody Dr/84 Farms Rd/87 Richmond	7	5.51
5/28/2014	Tally/27 Winesap/Locust Ln	3	3.78
5/28/2014	Willam & Dak/Washington & Court	2	1.75
5/29/2014	Bennington Ct/Haviland/W. Haviland	7	8.34
5/29/2014	West Haviland - Chestnut		8.44
5/30/2014	Haviland/Cestnut/Bennington		9.02
Total		92	123.54
6/2/2014	West Haviland/Apple Valley	8	7.68
6/2/2014	Apple Valley	5	3.22
6/3/2014	Bay Barrie/Mathew Ave	4	4.67
6/3/2014	Autumn Ln/46 & 55 White Birch	8	7.87
6/4/2014	Taconic Rd/Farms Rd		7.39
6/5/2014	Farms Rd/Barnett & Hope St	6	4.85
6/6/2014	Larkin/24 Across/Old Well Rd	5	9.1
6/6/2014	Old Well/Stafled Dup Spring	3	3.63
6/6/2014	Larkin St/Glendale Dr	6	5.99
6/9/2014	Highhive Trail/Lantern Cir	3	6.01
6/9/2014	Deep Spring Rd (R side)		6.86
6/9/2014	Hantern Cir	5	3.66
6/10/2014	Deep Spring Rd (L side)		6.9

JUNE

6/10/2014	Brighton Pl/Crane Rd	4	6.39
6/10/2014	57 Westhill Rd/Across Street	2	3.89
6/10/2014	Lindsey Ave/Crane Rd	6	7.82
6/11/2014	Hampshire Ln/Dramba/Somerset Ln	9	5.01
6/11/2014	Craine Rd	5	7.45
6/11/2014	Perna Ln		4.18
6/12/2014	West View Ln/Corner of Washington Blvd	9	6.26
6/12/2014	Westover Ln	8	5.8
6/16/2014			2.08
6/17/2014	Highline Trail (R side)	6	5.73
6/17/2014	Windere Ln/Highline Trail South	5	7.81
6/18/2014	Highline Trail	7	4.78
6/19/2014	Wildwood	4	3.87
6/19/2014	Vito, Church St		2.03
6/23/2014	Shagbark	4	1.79
6/23/2014	Talmadge	2	6.36
6/30/2014			3.23

Total

124

162.31

TOTAL

429

511.13

APPENDIX H

NOTICE OF VIOLATION ~ 2014



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

NOTICE OF VIOLATION

TO: Hon. David R. Martin
Mayor
10th Floor Government Center
888 Washington Avenue
Stamford, CT 06901

RE: Stamford MS4 Permit

NOV NO. WR SW 14006

DATE: March 5, 2014

The purpose of this Notice is to inform you that personnel of the Department of Energy & Environmental Protection ("DEEP") have made observations or otherwise obtained information indicating that a violation of law has occurred in the City of Stamford.

1. Based on a review of DEEP records conducted by the DEEP Bureau of Materials Management and Compliance Assurance, it appears that you have:
 - a. Failed to submit, by January 1, 2013, stormwater monitoring results for 2012 from a minimum of six outfalls as required by Sections 8 and 9(B) of NPDES Permit No. CT0030279, issued March 18, 2005.
 - b. Failed to submit, by September 4, 2013, a list of stormwater monitoring stations as required by Section 7(D)(1) of NPDES Permit No. CT0030279, issued June 4, 2013.
 - c. Failed to conduct dry weather stormwater monitoring for summer 2013 from a minimum of 10 stream locations as required by Section 7(B) of NPDES Permit No. CT0030279 issued June 4, 2013.
 - d. Failed to conduct wet weather stormwater monitoring for summer 2013 from a minimum of 10 stream locations as required by Section 7(B) of NPDES Permit No. CT0030279 issued June 4, 2013.
 - e. Failed to conduct wet weather stormwater monitoring for fall 2013 from a minimum of 10 stream locations as required by Section 7(B) of NPDES Permit No. CT0030279 issued June 4, 2013.
 - f. Failed to submit, by September 4, 2013, a NetDMR Subscriber Agreement as required by Section 8(B)(1)(d) of NPDES Permit No. CT0030279 issued June 4, 2013.

Additional Comments:

To address violations 1.a – f., within thirty (30) days from the date of issuance of this Notice, submit for the Commissioner's approval a Compliance Statement on a form prescribed by the DEEP (copy enclosed) describing a compliance schedule of corrective action(s) to address these violations and attach all applicable supporting documentation. **Such submittal should be sent to the contact person identified below in**

paragraph D with a copy of such submittals and supporting documentation directed to Jack Melcher of the Environmental Protection Agency ("the EPA") at the address given below in paragraph E. Until the DEEP has received such submittals, the DEEP will presume you remain in violation.

Be aware that compliance with this Notice does not delay or otherwise affect your requirement to implement and maintain the stormwater monitoring schedules and any other schedules contained in NPDES Permit No. CT0030279 issued June 4, 2013.

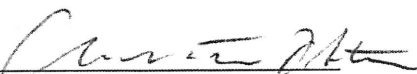
- A. Other violations may exist; legal obligations. This Notice does not necessarily specify all violations of Connecticut environmental law or violations of any other legal requirements that may exist at your municipality. This Notice does not preclude the DEEP or other state, local or federal agencies from commencing any enforcement action regarding any such violations. Your municipality may be inspected pursuant to law and without additional prior notice to determine compliance with state and any applicable federal law. It is your responsibility to comply with all legal requirements, whether or not the DEEP notifies you of any violations or takes any enforcement action against you. Nothing in this Notice relieves you of other obligations under applicable federal, state and local law.
- B. Enforcement action. Civil penalties of up to \$25,000 may be assessed for each day of each violation under section 22a-438 of the Connecticut General Statutes. Notwithstanding the issuance of this Notice, the DEEP may seek such penalties and may issue an order, seek an injunction, or take other legal action under Chapters 439 and 446k of the Connecticut General Statutes.
- C. No assurance by Commissioner. No provision of this Notice and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that actions you may take to address the violations alleged herein will result in compliance.
- D. Staff contact: If you question any of the information contained in this Notice, you may contact:

Christopher Stone, P.E.
Bureau of Materials Management and Compliance Assurance
79 Elm Street, 2nd floor
Hartford, CT 06106
(860) 424-3018

- E. EPA contact.

Jack Melcher
U.S. E.P.A. New England
Office of Environmental Stewardship (SEW)
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Date:


Christopher O. Stone, P.E.
Water Permitting & Enforcement Division
Bureau of Materials Management and Compliance Assurance

COMPLIANCE STATEMENT

This Compliance Statement shall be signed by: (1) the chief elected official or principal executive officer of the municipality **and** (2) if different, by the individual responsible for actually preparing such statement, each of whom shall read and sign the certification regarding false statements on the Compliance Statement.

Within thirty days of the date you become aware of a change in any information in the Compliance Statement, or that any information was inaccurate or misleading or that any relevant information was omitted, submit the correct or omitted information to the DEEP and EPA staff contacts identified in the Notice of Violation.

Notice of Violation Issuance Date:

Facility name: City of Stamford

Facility address: 10th Floor Government Center
888 Washington Avenue
Stamford, CT 06901

Attention: Hon. David R. Martin
Mayor

NOV WR SW 14006

In accordance with the directions in the above-referenced Notice of Violation, I certify that the noted violations and additional comments have been corrected in the following manner:

Attach sheet(s) as needed
(Enclose supporting documentation demonstrating compliance)

Certification of Accuracy

I certify that the information in this Compliance Statement and any attachments thereto are true, accurate and complete, and I understand that any false statement may be punishable as a criminal offense under Connecticut General Statutes sections 22a-6 and 53a-157.

Date

Telephone

Signature

(Type name and title)

Address

Date

Telephone

Preparer's Signature,
if different from above

(Type name and title)

Address

APPENDIX I

AQUATIC TOXICITY MONITORING REPORTS AND FIELD DATA SHEETS

DRY INSTREAM SAMPLING EVENT

7/22/14

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140722-01	Location: DSN-01	

Event Type (circle type): Spring	(Summer)	Fall	Wet	(Dry)
----------------------------------	----------	------	-----	-------

Location Data

Sample Location: DSN-01	Newman Mills / Riverwalk Park
-------------------------	-------------------------------

Sample Data

Date: 7-22-14	Time: 1055						
Sampler: EAH	Weather: Sunny 80's						
				2	1 L Amber	F:2SO4	
				1	500 ml plastic	F:2SO4	
				1	250 ml plastic	F:NO3	
				1	1,000 ml plastic	As-is	
				3	100 ml plastic	sterile	
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY							

Field Parameters

pH (S.U.):	7.11	Sample Appearance/Description: - Clear, colorless, no odor
Temperature (o C):	24.33	
Dissolved Oxygen (mg/L):	7.67	
Spec. Conductivity (umhos/cm):	352	

River Condition

	Comments: - minor erosion, sample collected ~ 2-3' off of bank - none
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas):	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 2646722-02	Location: DNS-02	

Event Type (circle type): Spring <u>Summer</u> Fall	Wet <u>Dry</u>
---	----------------

Location Data

Sample Location:

Sample Data

Date: 7-22-14	Time: 12:00	Container List:
Sampler: JMS	Weather: Sunny 80's	2 1 L Amber H2SO4
		1 500 ml plastic H2SO4
		1 250 ml plastic HNO3
		1 1000 ml plastic As-is
		3 100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY		

Field Parameters

pH (S.U.)	7.87	Sample Appearance/Description: cloudy, clear, slight odor
Temperature (°C)	20.66	
Dissolved Oxygen (mg/L)	7.43	
Spec. Conductivity (µmhos/cm)	308	

River Condition

Erosion or Scour on Streambanks:	Comments: NONE
Sedimentation in Streams (sandbars or deltas)	NONE

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 26140122-03	Location: DAVIS-03	

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
----------------------------------	--------	------	-----	-----

Location Data

Sample Location:

Sample Data

Date: 7-22-14	Time: 1:00						
Sampler: JMD	Weather: Sunny	80°					
				2	1 L Amber	H2SO4	
				1	500 ml plastic	H2SO4	
				1	250 ml plastic	HNO3	
				1	1,000 ml plastic	As-is	
				3	100 ml plastic	sterile	
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY							

Field Parameters

pH (S.U.): 7.32	Sample Appearance/Description: clear / colorless / no odor
Temperature (°C): 19.52	
Dissolved Oxygen (mg/L): 6.69	
Spec. Conductivity (µmhos/cm): 265	

River Condition

	Comments
Erosion or Scour on Streambanks:	
	NONE
Sedimentation in Streams (sandbars or deltas)	NONE

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140722-04	Location: DSN-04	

Event Type (circle type): Spring <input type="radio"/> Summer <input checked="" type="radio"/> Fall <input type="radio"/> Wet <input type="radio"/> Dry <input checked="" type="radio"/>
--

Location Data

Sample Location: DSN04
100 Brookside Drive

Sample Data

Date: 7/22/14	Time: 1311	Container List:	
Sampler: PJM	Weather: sunny / 80°		
		2	1 L Amber H2SO4
		1	500 ml plastic H2SO4
		1	250 ml plastic HNO3
		1	1,000 ml plastic As-is
		3	100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY			

Field Parameters

pH (S.U.)	7.62	Sample Appearance/Description: clear / no odor
Temperature (°C)	23.33	
Dissolved Oxygen (mg/L)	6.75	
Spec. Conductivity (µmhos/cm)	549	

River Condition

Erosion or Scour on Streambanks:	Comments: none
Sedimentation in Streams (sandbars or deltas)	Comments: none

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140722-05	Location: DSN-05	

Event Type (circle type): Spring <u>Summer</u> Fall Wet <u>Dry</u>
--

Location Data

Sample Location: DSN-05

Sample Data

Date: 7/22/14	Time: 11:47	<table border="1"> <tr> <th colspan="2">Container List:</th> </tr> <tr> <td>2</td> <td>1 L Amber</td> <td>H2SO4</td> </tr> <tr> <td>1</td> <td>500 ml plastic</td> <td>H2SO4</td> </tr> <tr> <td>1</td> <td>250 ml plastic</td> <td>HNO3</td> </tr> <tr> <td>1</td> <td>1000 ml plastic</td> <td>As-is</td> </tr> <tr> <td>3</td> <td>100 ml plastic</td> <td>sterile</td> </tr> </table>	Container List:		2	1 L Amber	H2SO4	1	500 ml plastic	H2SO4	1	250 ml plastic	HNO3	1	1000 ml plastic	As-is	3	100 ml plastic	sterile
Container List:																			
2	1 L Amber		H2SO4																
1	500 ml plastic		H2SO4																
1	250 ml plastic		HNO3																
1	1000 ml plastic	As-is																	
3	100 ml plastic	sterile																	
Sampler: PSM	Weather: sunny / 80's																		
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY																			

Field Parameters

pH (S.U.)	7.53	Sample Appearance/Description: slightly cloudy/no odor
Temperature (°C)	26.98	
Dissolved Oxygen (mg/L)	6.75	
Spec. Conductivity (umhos/cm)	532	

River Condition

Erosion or Scour on Streambanks:	Comments: none
Sedimentation in Streams (sandbars or deltas)	Comments: none

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140722-06	Location: DSN-06	

Event Type (circle type): Spring	(Summer)	Fall
	Wet	(Dry)

Location Data

Sample Location: DSN-06	Cold Spring Road Bridge over Rippowam River
-------------------------	---

Sample Data

Date: 7-22-14	Time: 13:10				
Sampler: EAA	Weather: Sunny 80's				
				3	Container List: 1 L Amber H2SO4
				1	500 ml plastic H2SO4
				1	250 ml plastic HNO3
				1	1,000 ml plastic As-is
				3	100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY					

Field Parameters

pH (S.U.): 7.67	Sample Appearance/Description: clear/colorless/no odor
Temperature (°C): 26.60	
Dissolved Oxygen (mg/L): 7.80	
Spec. Conductivity (µmhos/cm): 506	

River Condition

	Comments: - minor erosion due to seasonal flooding - Stream depth ~ 1'-1.25'
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140722-07	Location: DSN-07	

Event Type (circle type): Spring	(Summer)	Fall	Wet	(Dry)
----------------------------------	----------	------	-----	-------

Location Data

Sample Location: DSN-07

Sample Data

Date: 7-22-14	Time: 2:00						
Sampler: JMS	Weather: Sunny 80's						
				3	Container List:		
				1	1 L Amber	H2SO4	
				1	500 ml plastic	H2SO4	
				1	250 ml plastic	HNO3	
				1	1,000 ml plastic	As-is	
				3	100 ml plastic	sterile	
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY							

Field Parameters

pH (S.U.)	9.72	Sample Appearance/Description: clear/colorless/no odor
Temperature (°C)	26.41	
Dissolved Oxygen (mg/L)	7.46	
Spec. Conductivity (µmhos/cm)	452	

River Condition

Erosion or Scour on Streambanks:	none
Sedimentation in Streams (sandbars or deltas)	none



ANCHOR

860.633.8770
860.633.5971
www.anchorengr.com

41 Sequin Drive · Glastonbury, CT · 06033

September 11, 2014

RECEIVED

SEP 11 2014

**BUREAU OF MATERIALS MANAGEMENT
& COMPLIANCE ASSURANCE**

Ms. Rosemary A. Gatter-Evarts
Aquatic Toxicity Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127

Re: City of Stamford Aquatic Toxicity Monitoring Reports (ATMRs)

Dear Ms. Gattar-Everts:

Anchor Engineering Services, Inc. is pleased to submit the attached ten (10) ATMRs for the City of Stamford NPDES permit No. CT0030279. In-stream monitoring was conducted on July 22, 2014 and satisfies the summer dry weather monitoring for 2013.

Per the NPDES permit requirements, Aquatic Toxicity was not performed; it is required annually during the summer wet monitoring event only.

If you have any questions or comments regarding the attached, please do not hesitate to contact me at (860) 633-8770.

Sincerely,

Eric A. Andruk
Environmental Scientist

D. Scott Atkin, LEP
Principal

cc: Tyler Theder, City of Stamford
Christopher Stone, P.E.; DEEP (letter only)

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-001</u>
RECEIVING WATER: <u>Mianus River</u>	WATERBODY ID: <u>7407</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From:1040 am	To:1055 am	
Total Flow (sample day)	NA	gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:NA	To:NA
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: Director of operations

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: Town of Stamford MS4	NPDES ID: CT0030279 DSN-001
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)
Test Species: <i>Daphnia pulex</i>	Source: _____ Age: _____
Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

<u>COMMENTS <i>Daphnia pulex</i></u>
<div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div> <div style="margin-top: 5px;">Laboratory Name: _____</div>

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>
<p>Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.</p>
<div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div> <div style="margin-top: 5px;">Laboratory Name: _____</div>

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID: CT0030279 DSN-001
Receiving Water:	Mianus River	Waterbody ID: 7407
Sample Collection Date(s):	7/22/14	
Sample Collection Time:	FROM: 1040 am (AM/PM) TO: 1055 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample
Time	
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-001 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contract: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day's Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	001	mg/L	Ammonia Nitrogen as N		0.14
Each Sample	001	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	001	mg/L	Chemical Oxygen Demand		13
Each Sample	001	mg/L	Chlorides		51.6
Each Sample	001	µg/L	Copper, Total	5	<5
Each Sample	001	mg/L	Dissolved Oxygen		7.67
Each Sample	001	col/100 ml	Enterococci		30
Each Sample	001	col/100ml	Escherichia coli		70
Each Sample	001	col/100 mL	Fecal Coliform		50
Each Sample	001	mg/L	Hardness as CaCO ₃		73.4
Each Sample	001	µg/L	Lead, Total	5	<2
Each Sample	001	mg/L	Nitrate Nitrogen as N		0.14
Each Sample	001	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	001	mg/L	Oil & Grease		< 1.5
Each Sample	001	s.u.	pH		7.11
Each Sample	001	mg/L	Phosphorus		0.05
Each Sample	001	µg/L	Residual Chlorine, Total	20	NA
Each Sample	001	µmhos	Specific Conductance		352
Each Sample	001	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	001	C	Temperature		24.33
Each Sample	001	mg/L	Total Kjeldahl Nitrogen		0.62
Each Sample	001	mg/L	Total Petroleum Hydrocarbons		< 1.5
Each Sample	001	mg/L	Total Suspended Solids		5.5
Each Sample	001	µg/L	Zinc, Total	10	2

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-002</u>
RECEIVING WATER: <u>East Branch Mianus River</u>	WATERBODY ID: <u>7406</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
-----------------	----------	--------------------	--------

SAMPLE INFORMATION

Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>7/22/2014</u> To: <u>7/22/2014</u>	
Collection Times (am/pm)	From: <u>1145am</u> To: <u>1200pm</u>	
Total Flow (sample day)	<u>NA</u> gpd	<u>gpd</u>

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: <u>NA</u>	To: <u>NA</u>
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: Town of Stamford MS4 NPDES ID: CT0030279 DSN-002

Dilution Water: _____ Hardness/Salinity: _____

Sample Collected On: NA (date) Received On: _____ (date)

Test Species: Daphnia pulex Source: _____ Age: _____

Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48	
6.25% A														
6.25% B														
6.25% C														
6.25% D														
12.5% A														
12.5% B														
12.5% C														
12.5% D														
25% A														
25% B														
25% C														
25% D														
50% A														
50% B														
50% C														
50% D														
100% A														
100% B														
100% C														
100% D														
NR% A														
NR% B														
NR% C														
NR% D														
CONTROL 1														
CONTROL 2														
CONTROL 3														
CONTROL 4														
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)			1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

<u>COMMENTS <i>Daphnia pulex</i></u>
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Laboratory Name: </div>

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>
<p>Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Laboratory Name: </div>

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-002</u>
Receiving Water:	<u>East Branch Mianus River</u>	Waterbody ID: <u>7406</u>
Sample Collection Date(s):	<u>7/22/14</u>	
Sample Collection Time: FROM:	<u>11:45am</u> (AM/PM)	TO: <u>12:00pm</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample
Time	
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-002 Exp: 6/3/2018 Phone¹: (203)977-5281

Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:

Address: Office of Operations Town: Stamford Zip: 06XXX

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 WET - FALL

Sample Day's Flow: NA

WET-SPRING WET-SUM DRY-SUM

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	002	mg/L	Ammonia Nitrogen as N		0.12
Each Sample	002	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	002	mg/L	Chemical Oxygen Demand		11
Each Sample	002	mg/L	Chlorides		59.7
Each Sample	002	µg/L	Copper, Total	5	< 5
Each Sample	002	mg/L	Dissolved Oxygen		7.43
Each Sample	002	col/100 ml	Enterococci		650
Each Sample	002	col/100ml	Escherichia coli		100
Each Sample	002	col/100 mL	Fecal Coliform		50
Each Sample	002	mg/L	Hardness as CaCO ₃		59.9
Each Sample	002	µg/L	Lead, Total	5	< 2
Each Sample	002	mg/L	Nitrate Nitrogen as N		0.56
Each Sample	002	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	002	mg/L	Oil & Grease		< 1.4
Each Sample	002	s.u.	pH		7.87
Each Sample	002	mg/L	Phosphorus		0.07
Each Sample	002	µg/L	Residual Chlorine, Total	20	NA
Each Sample	002	µmhos	Specific Conductance		308
Each Sample	002	mg/L	Surfactants		< 0.05
Each Sample	002	C	Temperature		20.66

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	002	mg/L	Total Kjeldahl Nitrogen		0.65
Each Sample	002	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	002	mg/L	Total Suspended Solids		< 5.0
Each Sample	002	µg/L	Zinc, Total	10	<2

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-003</u>
RECEIVING WATER: <u>Mill River</u>	WATERBODY ID: <u>7404</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From: 12:45 pm	To: 1:00 pm	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

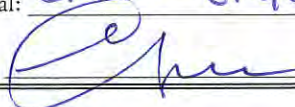
TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name:	<u>Town of Stamford MS4</u> NPDES ID: <u>CT0030279</u> DSN-003		
Dilution Water:	Hardness/Salinity: _____		
Sample Collected On:	<u>NA</u> (date)	Received On:	_____ (date)
Test Species:	<u>Daphnia pulex</u>	Source:	_____ Age: _____
Test Duration:	48 hours, Beginning: _____ (am/pm) On: _____ (date)		

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
		00	24	48	00	24	48	00	24	48	00	24	48
	Hour												
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name: _____

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>	
Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.	
Laboratory Name:	

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID: CT0030279 DSN-003
Receiving Water:	Mill River	Waterbody ID: 7404
Sample Collection Date(s):	7/22/14	
Sample Collection Time:	FROM: 12:45 pm (AM/PM) TO: 1:00 pm (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample
Time	
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT00302079, DSN-003 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day's Flow: NA WET-SPRING WET-SUM DRY-SUM -WET
 -FALL REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	003	mg/L	Ammonia Nitrogen as N		0.12
Each Sample	003	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	003	mg/L	Chemical Oxygen Demand		< 10
Each Sample	003	mg/L	Chlorides		42.9
Each Sample	003	µg/L	Copper, Total	5	5
Each Sample	003	mg/L	Dissolved Oxygen		6.69
Each Sample	003	col/100 ml	Enterococci		30
Each Sample	003	col/100ml	Escherichia coli		<10
Each Sample	003	col/100 mL	Fecal Coliform		10
Each Sample	003	mg/L	Hardness as CaCO ₃		68.7
Each Sample	003	µg/L	Lead, Total	5	<2
Each Sample	003	mg/L	Nitrate Nitrogen as N		0.07
Each Sample	003	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	003	mg/L	Oil & Grease		< 1.4
Each Sample	003	s.u.	pH		7.32
Each Sample	003	mg/L	Phosphorus		0.04
Each Sample	003	µg/L	Residual Chlorine, Total	20	NA
Each Sample	003	µmhos	Specific Conductance		265
Each Sample	003	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	003	C	Temperature		19.52
Each Sample	003	mg/L	Total Kjeldahl Nitrogen		0.55
Each Sample	003	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	003	mg/L	Total Suspended Solids		< 5.0
Each Sample	003	µg/L	Zinc, Total	10	<2

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-004</u>
RECEIVING WATER: <u>Noroton River</u>	WATERBODY ID: <u>7403</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From: 12:56 pm	To: 1:11 pm	
Total Flow (sample day)	NA		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-004</u>
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)
Test Species: <u>Daphnia pulex</u>	Source: _____ Age: _____
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-004</u>
Receiving Water:	<u>Noroton River</u>	Waterbody ID: <u>7403</u>
Sample Collection Date(s):	<u>7/22/14</u>	
Sample Collection Time: FROM:	<u>12:56 pm</u> (AM/PM)	TO: <u>1:11 pm</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample
Time	
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-004 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	004	mg/L	Ammonia Nitrogen as N		0.23
Each Sample	004	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	004	mg/L	Chemical Oxygen Demand		< 10
Each Sample	004	mg/L	Chlorides		113
Each Sample	004	µg/L	Copper, Total	5	<5
Each Sample	004	mg/L	Dissolved Oxygen		6.75
Each Sample	004	col/100 ml	Enterococci		80
Each Sample	004	col/100ml	Escherichia coli		520
Each Sample	004	col/100 mL	Fecal Coliform		970
Each Sample	004	mg/L	Hardness as CaCO3		119
Each Sample	004	µg/L	Lead, Total	5	<2
Each Sample	004	mg/L	Nitrate Nitrogen as N		1.09
Each Sample	004	mg/L	Nitrite Nitrogen as N		0.02
Each Sample	004	mg/L	Oil & Grease		< 1.4
Each Sample	004	s.u.	pH		7.62
Each Sample	004	mg/L	Phosphorus		0.08
Each Sample	004	µg/L	Residual Chlorine, Total	20	NA
Each Sample	004	µmhos	Specific Conductance		549
Each Sample	004	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	004	C	Temperature		23.33
Each Sample	004	mg/L	Total Kjeldahl Nitrogen		0.76
Each Sample	004	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	004	mg/L	Total Suspended Solids		< 5.0
Each Sample	004	µg/L	Zinc, Total	10	6

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
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STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-005</u>
RECEIVING WATER: <u>Rippowam River</u>	WATERBODY ID: <u>7405</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>7/22/2014</u> To: <u>7/22/2014</u>	
Collection Times (am/pm)	From: <u>11:32 am</u> To: <u>11:47 am</u>	
Total Flow (sample day)	NA gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name:	<u>Town of Stamford MS4</u>			NPDES ID:	<u>CT0030279 DSN-005</u>		
Dilution Water:				Hardness/Salinity:			
Sample Collected On:	<u>NA</u>	(date)	Received On:	(date)			
Test Species:	<u>Daphnia pulex</u>		Source:			Age:	
Test Duration:	<u>48 hours</u>		Beginning:	(am/pm)		On:	(date)

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
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50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

<u>COMMENTS <i>Daphnia pulex</i></u>
<div style="border: 1px dashed gray; padding: 5px; margin-top: 10px;"> Laboratory Name: </div>

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>
<p>Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.</p>
<div style="border: 1px dashed gray; padding: 5px; margin-top: 10px;"> Laboratory Name: </div>

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-005</u>
Receiving Water:	<u>Rippowam River</u>	Waterbody ID: <u>7405</u>
Sample Collection Date(s):	<u>7/22/14</u>	
Sample Collection Time:	FROM: <u>11:32 am</u> (AM/PM) TO: <u>11:47 am</u> (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample
Time	
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit:CT0030279, DSN-005	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Labs, Inc.

Sample Date: 7/22/14

Sample Day s Flow: NA

WET -FALL

WET-SPRING WET-SUM DRY-SUM

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	005	mg/L	Ammonia Nitrogen as N		0.11
Each Sample	005	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	005	mg/L	Chemical Oxygen Demand		13
Each Sample	005	mg/L	Chlorides		129
Each Sample	005	µg/L	Copper, Total	5	<5
Each Sample	005	mg/L	Dissolved Oxygen		6.75
Each Sample	005	col/100 ml	Enterococci		60
Each Sample	005	col/100ml	Escherichia coli		300
Each Sample	005	col/100 mL	Fecal Coliform		880
Each Sample	005	mg/L	Hardness as CaCO3		105
Each Sample	005	µg/L	Lead, Total		<2
Each Sample	005	mg/L	Nitrate Nitrogen as N		0.78
Each Sample	005	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	005	mg/L	Oil & Grease		< 1.4
Each Sample	005	s.u.	pH		7.53
Each Sample	005	mg/L	Phosphorus		0.06
Each Sample	005	µg/L	Residual Chlorine, Total	20	NA
Each Sample	005	µmhos	Specific Conductance		532
Each Sample	005	mg/L	Surfactants		0.12

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	005	C	Temperature		26.98
Each Sample	005	mg/L	Total Kjeldahl Nitrogen		0.64
Each Sample	005	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	005	mg/L	Total Suspended Solids		< 5.0
Each Sample	005	µg/L	Zinc, Total	10	4

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-006</u>
RECEIVING WATER: <u>Rippowam River</u>	WATERBODY ID: <u>7405</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>7/22/2014</u> To: <u>7/22/2014</u>	
Collection Times (am/pm)	From: <u>12:55 pm</u> To: <u>1:10 pm</u>	
Total Flow (sample day)	NA gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-006</u>
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)
Test Species: <u>Daphnia pulex</u>	Source: _____ Age: _____
Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name: _____

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name: _____

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-006
Receiving Water:	Rippowam River	Waterbody ID:7405
Sample Collection Date(s):	7/22/14	
Sample Collection Time: FROM:	12:55 pm (AM/PM) TO: 1:10 pm (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Hours					
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-006 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	006	mg/L	Ammonia Nitrogen as N		0.13
Each Sample	006	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	006	mg/L	Chemical Oxygen Demand		< 10
Each Sample	006	mg/L	Chlorides		117
Each Sample	006	µg/L	Copper, Total	5	<5
Each Sample	006	mg/L	Dissolved Oxygen		7.80
Each Sample	006	col/100 ml	Enterococci		170
Each Sample	006	col/100ml	Escherichia coli		480
Each Sample	006	col/100 mL	Fecal Coliform		1,390
Each Sample	006	mg/L	Hardness as CaCO ₃		100
Each Sample	006	µg/L	Lead, Total	5	<2
Each Sample	006	mg/L	Nitrate Nitrogen as N		0.85
Each Sample	006	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	006	mg/L	Oil & Grease		< 1.4
Each Sample	006	s.u.	pH		7.60
Each Sample	006	mg/L	Phosphorus		0.06
Each Sample	006	µg/L	Residual Chlorine, Total	20	NA
Each Sample	006	µmhos	Specific Conductance		506
Each Sample	006	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	006	C	Temperature		26.60
Each Sample	006	mg/L	Total Kjeldahl Nitrogen		0.64
Each Sample	006	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	006	mg/L	Total Suspended Solids		< 5.0
Each Sample	006	µg/L	Zinc, Total	10	<2

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-007</u>
RECEIVING WATER: <u>Rippowam River</u>	WATERBODY ID: <u>7405</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

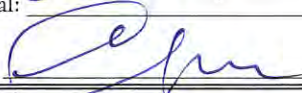
Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From: 1:45 pm	To: 2:00 pm	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE OJGERA
Signature: 

Title: DIRECTOR OF OPERATIONS
Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>		NPDES ID: <u>CT0030279</u>		DSN- <u>007</u>	
Dilution Water: _____			Hardness/Salinity: _____		
Sample Collected On: <u>NA</u> (date)		Received On: _____ (date)			
Test Species: <u>Daphnia pulex</u>		Source: _____		Age: _____	
Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)					

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-007
Receiving Water:	Rippowam River	Waterbody ID:7405
Sample Collection Date(s):	7/22/14	
Sample Collection Time: FROM:	1:45 pm (AM/PM) TO: 2:00 pm (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-007 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day's Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	007	mg/L	Ammonia Nitrogen as N		0.1
Each Sample	007	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	007	mg/L	Chemical Oxygen Demand		11
Each Sample	007	mg/L	Chlorides		99.4
Each Sample	007	µg/L	Copper, Total	5	<5
Each Sample	007	mg/L	Dissolved Oxygen		7.46
Each Sample	007	col/100 ml	Enterococci		90
Each Sample	007	col/100ml	Escherichia coli		170
Each Sample	007	col/100 mL	Fecal Coliform		220
Each Sample	007	mg/L	Hardness as CaCO3		88.1
Each Sample	007	µg/L	Lead, Total	5	<2
Each Sample	007	mg/L	Nitrate Nitrogen as N		0.71
Each Sample	007	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	007	mg/L	Oil & Grease		< 1.4
Each Sample	007	s.u.	pH		7.72
Each Sample	007	mg/L	Phosphorus		0.06
Each Sample	007	µg/L	Residual Chlorine, Total	20	NA
Each Sample	007	µmhos	Specific Conductance		452
Each Sample	007	mg/L	Surfactants		0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	007	C	Temperature		26.41
Each Sample	007	mg/L	Total Kjeldahl Nitrogen		0.56
Each Sample	007	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	007	mg/L	Total Suspended Solids		< 5.0
Each Sample	007	µg/L	Zinc, Total	10	<2

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-008</u>
RECEIVING WATER: <u>Trib to Stamford Harbor</u>	WATERBODY ID: <u>7000-42</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: <u>7/22/2014</u>	To: <u>7/22/2014</u>	
Collection Times (am/pm)	From: <u>11:37 am</u>	To: <u>11:52 am</u>	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA Title: DIRECTOR OF OPERATIONS

Signature: [Signature] Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>		NPDES ID: <u>CT0030279 DSN-008</u>	
Dilution Water: _____		Hardness/Salinity: _____	
Sample Collected On: <u>NA</u> (date)		Received On: _____ (date)	
Test Species: <u>Daphnia pulex</u>		Source: _____ Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm)		On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID: CT0030279 DSN-008
Receiving Water:	Trib to Stamford Harbor	Waterbody ID: 7000-42
Sample Collection Date(s):	7/22/14	
Sample Collection Time:	FROM: 11:37 am (AM/PM) TO: 11:52 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit:CT0030279, DSN-008 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Labs, Inc.

Sample Date: 7/22/14 Sample Day s Flow: NA SPRING WET- SUM DRY-SUM DRY

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	008	mg/L	Ammonia Nitrogen as N		1.05
Each Sample	008	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	008	mg/L	Chemical Oxygen Demand		37
Each Sample	008	mg/L	Chlorides		1,010
Each Sample	008	µg/L	Copper, Total	5	<5
Each Sample	008	mg/L	Dissolved Oxygen		7.66
Each Sample	008	col/100 ml	Enterococci		250
Each Sample	008	col/100ml	Escherichia coli		>600
Each Sample	008	col/100 mL	Fecal Coliform		>2000
Each Sample	008	mg/L	Hardness as CaCO3		421
Each Sample	008	µg/L	Lead, Total	5	<2
Each Sample	008	mg/L	Nitrate Nitrogen as N		1.97
Each Sample	008	mg/L	Nitrite Nitrogen as N		0.07
Each Sample	008	mg/L	Oil & Grease		< 1.4
Each Sample	008	s.u.	pH		7.33
Each Sample	008	mg/L	Phosphorus		0.08
Each Sample	008	µg/L	Residual Chlorine, Total	20	NA
Each Sample	008	µmhos	Specific Conductance		3,723
Each Sample	008	mg/L	Surfactants		0.07

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	008	C	Temperature		29.48
Each Sample	008	mg/L	Total Kjeldahl Nitrogen		4.56
Each Sample	008	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	008	mg/L	Total Suspended Solids		< 5.0
Each Sample	008	µg/L	Zinc, Total	10	3

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-009</u>
RECEIVING WATER: <u>Westcott Cove</u>	WATERBODY ID: <u>7000-38</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From: 12:14 pm	To: 12:29 pm	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official:

ERNIE ORGERA

Title:

DIRECTOR OF OPERATIONS

Signature:



Date:

9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u> NPDES ID: <u>CT0030279</u> <u>DSN-009</u>	
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date) Received On: _____ (date)	
Test Species: <u>Daphnia pulex</u> Source: _____ Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-009</u>
Receiving Water:	<u>Westcott Cove</u>	Waterbody ID: <u>7000-38</u>
Sample Collection Date(s):	<u>7/22/14</u>	
Sample Collection Time: FROM:	<u>12:14 pm</u> (AM/PM)	TO: <u>12:29 pm</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample
	Time
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-009 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contract: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM -
 WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	009	mg/L	Ammonia Nitrogen as N		0.38
Each Sample	009	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	009	mg/L	Chemical Oxygen Demand		74
Each Sample	009	mg/L	Chlorides		3,180
Each Sample	009	µg/L	Copper, Total	5	<5
Each Sample	009	mg/L	Dissolved Oxygen		5.52
Each Sample	009	col/100 ml	Enterococci		830
Each Sample	009	col/100ml	Escherichia coli		>600
Each Sample	009	col/100 mL	Fecal Coliform		>2000
Each Sample	009	mg/L	Hardness as CaCO ₃		1,100
Each Sample	009	µg/L	Lead, Total	5	<2
Each Sample	009	mg/L	Nitrate Nitrogen as N		1.77
Each Sample	009	mg/L	Nitrite Nitrogen as N		0.06
Each Sample	009	mg/L	Oil & Grease		< 1.4
Each Sample	009	s.u.	pH		7.25
Each Sample	009	mg/L	Phosphorus		0.18
Each Sample	009	µg/L	Residual Chlorine, Total	20	NA
Each Sample	009	µmhos	Specific Conductance		10,156
Each Sample	009	mg/L	Surfactants		0.06

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	009	C	Temperature		26.07
Each Sample	009	mg/L	Total Kjeldahl Nitrogen		0.86
Each Sample	009	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	009	mg/L	Total Suspended Solids		< 5.0
Each Sample	009	µg/L	Zinc, Total	10	13

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-010</u>
RECEIVING WATER: <u>Greenwich Cove</u>	WATERBODY ID: <u>7000-44</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/22/2014	To: 7/22/2014	
Collection Times (am/pm)	From: 1214 pm	To: 12:29 pm	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: _____


Title: _____

Signature: _____

Date: _____

ERNIE ORGERA

DIRECTOR OF OPERATIONS



9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>		NPDES ID: <u>CT0030279 DSN-010</u>	
Dilution Water: _____		Hardness/Salinity: _____	
Sample Collected On: <u>NA</u> (date)		Received On: _____ (date)	
Test Species: <u>Daphnia pulex</u>		Source: _____ Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)			

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name: _____

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name: _____

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID: CT0030279 DSN-010
Receiving Water:	Greenwich Cove	Waterbody ID: 7000-44
Sample Collection Date(s):	7/22/14	
Sample Collection Time:	FROM: 1214 pm (AM/PM) TO: 12:29 pm (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	Daphnia pulex			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	Daphnia pulex			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-010 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/22/14 Sample Days Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	010	mg/L	Ammonia Nitrogen as N		0.13
Each Sample	010	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	010	mg/L	Chemical Oxygen Demand		11
Each Sample	010	mg/L	Chlorides		171
Each Sample	010	µg/L	Copper, Total	5	<5
Each Sample	010	mg/L	Dissolved Oxygen		7.11
Each Sample	010	col/100 ml	Enterococci		110
Each Sample	010	col/100ml	Escherichia coli		430
Each Sample	010	col/100 mL	Fecal Coliform		>2000
Each Sample	010	mg/L	Hardness as CaCO ₃		177
Each Sample	010	µg/L	Lead, Total	5	<2
Each Sample	010	mg/L	Nitrate Nitrogen as N		0.8
Each Sample	010	mg/L	Nitrite Nitrogen as N		< 0.01
Each Sample	010	mg/L	Oil & Grease		< 1.4
Each Sample	010	s.u.	pH		7.59
Each Sample	010	mg/L	Phosphorus		0.12
Each Sample	010	µg/L	Residual Chlorine, Total	20	NA
Each Sample	010	µmhos	Specific Conductance		785
Each Sample	010	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	010	C	Temperature		28.56
Each Sample	010	mg/L	Total Kjeldahl Nitrogen		0.55
Each Sample	010	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	010	mg/L	Total Suspended Solids		< 5.0
Each Sample	010	µg/L	Zinc, Total	10	9

DRY INSTREAM SAMPLING EVENT

7/31/14

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140731-01	Location: ISS-01	

Event Type (circle type): Spring	Summer	Fall
	Wet	Dry

Location Data

Sample Location:

Sample Data

Date: 7-31-14	Time: 10:00				
Sampler: JMS	Weather: Cloudy	80's			
			2	1 L Amber	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1,000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY					

Field Parameters

pH (S.U.)	7.96	Sample Appearance/Description: <i>clear, colorless, no odor</i>
Temperature (o C)	15.56	
Dissolved Oxygen (mg/L)	6.87	
Spec. Conductivity (umhos/cm)	249	

River Condition

Erosion or Scour on Streambanks:	Comments: <i>Cloudy water No Erosion...</i>
Sedimentation in Streams (sandbars or deltas)	<i>NONE</i>

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 20140731-02		Location: 155-02

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
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Location Data

Sample Location:

Sample Data

Date: 7-31-14	Time: 10:52						
Sampler: JMS	Weather: Sunny 80's						
				2	Container List:		
				1	1 L Amber	H2SO4	
				1	500 ml plastic	H2SO4	
				1	250 ml plastic	HNO3	
				1	1,000 ml plastic	As-is	
				3	100 ml plastic	sterile	
Note: 1 additional 1000 ml As-is for Aq. Tox during summer wet events ONLY							

Field Parameters

pH (S.U.)	7.78	Sample Appearance/Description: - clear, colorless, no odor
Temperature (°C)	19.10	
Dissolved Oxygen (mg/L)	7.58	
Spec. Conductivity (µmhos/cm)	271	

River Condition

	Comments: None None
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 20140731-03	Location: 155-03	

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
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Location Data

Sample Location:

Sample Data

Date: 7-31-14	Time: 11:40					
Sampler: JMS	Weather: Sunny	80's				
			2	1 L Amber	H2SO4	
			1	500 ml plastic	H2SO4	
			1	250 ml plastic	HNO3	
			1	1,000 ml plastic	As-is	
			3	100 ml plastic	sterile	
Note: 1 additional 1000 ml As-is for Aq. Tox during summer wet events ONLY						

Field Parameters

pH (S.U.)	7.74	Sample Appearance/Description: clear, colorless, no odor
Temperature (°C)	16.63	
Dissolved Oxygen (mg/L)	6.27	
Spec. Conductivity (µmhos/cm)	222	

River Condition

	Comments NONE NONE
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #103-26
Sample #: 20140731-04	Location: ISS 4	

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
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Location Data

Sample Location: Brookside Drive	instream sampling location 4
----------------------------------	------------------------------

Sample Data

Date: 7/31/14	Time: 11:33					
Sampler: PSM	Weather: sunny/80's					
				2	1 L Amber	H2SO4
				1	500 ml plastic	H2SO4
				1	250 ml plastic	HNO3
				1	1,000 ml plastic	As-is
				3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY						

Field Parameters

pH (S.U.)	7.64	Sample Appearance/Description: clear / colorless / no odor
Temperature (o C)	21.22	
Dissolved Oxygen (mg/L)	6.09	
Spec. Conductivity (umhos/cm)	518	

River Condition

Erosion or Scour on Streambanks:	none
Sedimentation in Streams (sandbars or deltas)	none

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 20140731-05	Location: ISS-5	

Event Type (circle type): Spring	(Summer)	Fall	Wet	(Dry)
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Location Data

Sample Location: Stream in park @ 92 Whitaker Place sampling location 5
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Sample Data

Date: 7/31/14	Time: 0957	Weather: sunny / 80's			
Sampler: PSM					
			2	Container List: 1 L Amber	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1,000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq. Tox during summer wet events ONLY					

Field Parameters

pH (S.U.)	8.03	Sample Appearance/Description: slightly cloudy / no odor / visible suspended solids - algae
Temperature (o C)	21.88	
Dissolved Oxygen (mg/L)	0.14	
Spec. Conductivity (umhos/cm)	572	

River Condition

	Comments: none none
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 20140731-06	Location: 155-06	

Event Type (circle type): Spring	<u>Summer</u>	Fall
	Wet	<u>Dry</u>

Location Data

Sample Location:	cold Spring Road Bridge over Rippowung River
------------------	--

Sample Data

Date: 7/31/14	Time: 11:20				
Sampler: EHA	Weather: Sunny 70's				
			2	Container Ltr:	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY					

Field Parameters

pH (S.U.):	7.90	Sample Appearance/Description: - Clear, colorless, no odor
Temperature (o C):	22.82	
Dissolved Oxygen (mg/L):	6.52	
Spec. Conductivity (umhos/cm):	522	

River Condition

	Comments: - minor erosion of stream banks due to seasonal flow
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140731-07	Location: ISS-07	

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
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Location Data

Sample Location:

Sample Data

Date: 7-31-14	Time: 12:38				
Sampler: Jms	Weather: Sunny 80's				

Quantity	Container List	Chemical
2	1 L Amber	H2SO4
1	500 ml plastic	H2SO4
1	250 ml plastic	HNO3
1	1,000 ml plastic	As-is
3	100 ml plastic	sterile

Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY

Field Parameters

pH (S.U.): 7.84	Sample Appearance/Description: <div style="font-size: 1.2em; font-family: cursive;">clear / colorless / slightly misty odor</div>
Temperature (o C): 23.26	
Dissolved Oxygen (mg/L): 6.96	
Spec. Conductivity (umhos/cm): 485	

River Condition

	Comments: <div style="font-size: 1.5em; font-family: cursive;">NONE</div>
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	<div style="font-size: 1.5em; font-family: cursive;">NONE</div>

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: # 105-26
Sample #: 20140731-08	Location: ISS-08	

Event Type (circle type): Spring	Summer	Fall	Wet	Dry
----------------------------------	--------	------	-----	-----

Location Data

Sample Location: Shore Rd, south of Innis Arden Golf course	ISS-08
---	--------

Sample Data

Date: 7-31-14	Time: 9:53	Container List:
Sampler: EAH	Weather: Sunny 70's	2 1 L Amber H2SO4
		1 500 ml plastic H2SO4
		1 250 ml plastic HNO3
		1 1000 ml plastic As-is
		3 100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY		

Field Parameters

pH (S.U.)	7.79	Sample Appearance/Description: - clear, colorless, no odor
Temperature (o C)	20.97	
Dissolved Oxygen (mg/L)	6.37	
Spec. Conductivity (µmhos/cm)	5,464	

River Condition

Erosion or Scour on Streambanks:	Comments: - minor erosion due to seasonal flooding along banks of stream
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 20140731-09	Location: 155-9	

Event Type (circle type): Spring	Summer	Fall
Wet	Dry	

Location Data

Sample Location:	stream @ intersection of Soundview Ave & Tupper Drive instream sample location 9
------------------	---

Sample Data

Date:	7/31	Time:	1044		Container List:		
Sampler:	PJM	Weather:	Sunny 80°		2	1 L Amber	H2SO4
					1	500 ml plastic	H2SO4
					1	250 ml plastic	HNO3
					1	1,000 ml plastic	As-is
					3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY							

Field Parameters

pH (S.U.)	7.38	Sample Appearance/Description: slightly cloudy / slight musty odor
Temperature (o C)	21.60	
Dissolved Oxygen (mg/L)	4.81	
Spec. Conductivity (µmhos/cm)	9023	

River Condition

Erosion or Scour on Streambanks:	none
Sedimentation in Streams (sandbars or deltas)	none

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26	
Sample #: 20140731-10	Location: ISS-10		

Event Type (circle type):	Spring	<u>Summer</u>	Fall	Wet	<u>Dry</u>
---------------------------	--------	---------------	------	-----	------------

Location Data

Sample Location: Northwest corner of Ross Hartman Park	ISS-10
--	--------

Sample Data

Date: 7-31-14	Time: 10:32				
Sampler: EPA	Weather: Sunny 70's				
			2	Container List: 1 L Amber	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1,000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY					

Field Parameters

pH (S.U.)	8.12	Sample Appearance/Description: - Clear, colorless, no odor
Temperature (o C)	21.05	
Dissolved Oxygen (mg/L)	6.67	
Spec. Conductivity (µmhos/cm)	696	

River Condition

	Comments: - minor erosion due to seasonal flooding
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	



ANCHOR

860.633.8770
860.633.5971
www.anchorengr.com

41 Sequin Drive Glastonbury, CT 06033

September 11, 2014

Ms. Rosemary A. Gatter-Evarts
Aquatic Toxicity Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127

RECEIVED

SEP 11 2014

**BUREAU OF MATERIALS MANAGEMENT
& COMPLIANCE ASSURANCE**

Re: City of Stamford Aquatic Toxicity Monitoring Reports (ATMRs)

Dear Ms. Gattar-Everts:

Anchor Engineering Services, Inc. is pleased to submit the attached ten (10) ATMRs for the City of Stamford NPDES permit No. CT0030279. In-stream monitoring was conducted on July 31, 2014 and satisfies the summer dry weather monitoring for 2014.

Per the NPDES permit requirements, Aquatic Toxicity was not performed; it is required annually during the summer wet monitoring event only.

If you have any questions or comments regarding the attached, please do not hesitate to contact me at (860)633-8770.

Sincerely,

Eric A. Andruk
Environmental Scientist

D. Scott Atkin, LEP
Principal

cc: Tyler Theder, City of Stamford
Christopher Stone, P.E.; DEEP (letter only)

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: Town of Stamford MS4 PIPE: CT0030279 DSN-001
RECEIVING WATER: Mianus River WATERBODY ID: 7407

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION


Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To: 7/31/2014	
Collection Times (am/pm)	From: 9:45 am	To: 10:00 am	
Total Flow (sample day)	NA	gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: NA	To: NA
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA
Signature: 

Title: DIRECTOR OF OPERATIONS
Date: 9/5/2014

Facility Name: Town of Stamford MS4 NPDES ID: CT0030279 DSN-001

Dilution Water: _____

Sample Collected On: NA (date) Received On: _____ (date)

Test Species: *Daphnia pulex* Source: _____ Age: _____

Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)

Hardness/Salinity: _____

Atmr2001

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-001
Receiving Water:	Mianus River	Waterbody ID:7407
Sample Collection Date(s):	7/31/14	
Sample Collection Time:	FROM: 9:45 am (AM/PM) TO: 10:00 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	<i>Daphnia pulex</i>	
	Hours	Initial (00) Final (48)
Conductivity		
Alkalinity		
Hardness / Salinity		
TRC		

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>	
	Hours	Initial (00) Final (48)
Conductivity		
Alkalinity		
Hardness / Salinity		
TRC		

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit:CT0030279, DSN-001

Exp: 6/3/2018

Phone¹: (203)977-5281

Facility: Town of Stamford MS4

Contract: Tyler Theder

Phone²:

Address: Office of Operations 888 Washington Boulevard

Town:

Stamford

Zip:

06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14
WET - FALL

Sample Days Flow: NA

WET-SPRING WET-SUM DRY-SUM

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	001	mg/L	Ammonia Nitrogen as N		0.09
Each Sample	001	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	001	mg/L	Chemical Oxygen Demand		<10
Each Sample	001	mg/L	Chlorides		52.9
Each Sample	001	µg/L	Copper, Total	5	<5
Each Sample	001	mg/L	Dissolved Oxygen		6.87
Each Sample	001	col/100 ml	Enterococci		90
Each Sample	001	col/100ml	Escherichia coli		120
Each Sample	001	col/100 mL	Fecal Coliform		100
Each Sample	001	mg/L	Hardness as CaCO ₃		67.2
Each Sample	001	µg/L	Lead, T otal	5	<2
Each Sample	001	mg/L	Nitrate Nitrogen as N		0.08
Each Sample	001	mg/L	Nitrite Nitrogen as N		0.08
Each Sample	001	mg/L	Oil & Grease		<1.4
Each Sample	001	s.u.	pH		7.96
Each Sample	001	mg/L	Phosphorus		0.04
Each Sample	001	µg/L	Residual Chlorine, Total	20	NA
Each Sample	001	µmbos	Specific Conductance		249
Each Sample	001	mg/L	Surfactants		< 0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	001	C	Temperature		15.56
Each Sample	001	mg/L	Total Kjeldahl Nitrogen		0.46
Each Sample	001	mg/L	Total Petroleum Hydrocarbons		<1.4
Each Sample	001	mg/L	Total Suspended Solids		<5.0
Each Sample	001	µg/L	Zinc, Total	10	2

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-002</u>
RECEIVING WATER: <u>East Branch Mianus River</u>	WATERBODY ID: <u>7406</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To 7/31/2014	
Collection Times (am/pm)	From:10:37 am	To: 10:52 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:NA	To:NA
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNE DALLERA Title: DIRECTOR OF OPERATIONS
 Signature: [Signature] Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name:	<u>Town of Stamford MS4 NPDES ID:CT0030279 DSN-002</u>		
Dilution Water:	<u>Hardness/Salinity:</u>		
Sample Collected On:	<u>NA</u> (date)	Received On:	<u> </u> (date)
Test Species:	<u>Daphnia pulex</u>	Source:	<u> </u> Age:
Test Duration:	<u>48 hours</u> , Beginning: <u> </u> (am/pm) On: <u> </u> (date)		

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48	
6.25% A														
6.25% B														
6.25% C														
6.25% D														
12.5% A														
12.5% B														
12.5% C														
12.5% D														
25% A														
25% B														
25% C														
25% D														
50% A														
50% B														
50% C														
50% D														
100% A														
100% B														
100% C														
100% D														
NR% A														
NR% B														
NR% C														
NR% D														
CONTROL 1														
CONTROL 2														
CONTROL 3														
CONTROL 4														
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)			1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-002
Receiving Water:	East Branch Mianus River	Waterbody ID:7406
Sample Collection Date(s):	7/31/14	
Sample Collection Time: FROM:	10:37 am	(AM/PM) TO: 10:52 am (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample
	Time
Temperature	
pH	
Alkalinity	
Conductivity	
Hardness/Salinity	
TRC	

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Hours					
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-002	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14	Sample Day's Flow: NA	WET-SPRING WET-SUM DRY-SUM
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REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	002	mg/L	Ammonia Nitrogen as N		0.12
Each Sample	002	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	002	mg/L	Chemical Oxygen Demand		24
Each Sample	002	mg/L	Chlorides		59.5
Each Sample	002	µg/L	Copper, Total	5	< 5
Each Sample	002	mg/L	Dissolved Oxygen		7.58
Each Sample	002	col/100 ml	Enterococci		290
Each Sample	002	col/100ml	Escherichia coli		10
Each Sample	002	col/100 mL	Fecal Coliform		120
Each Sample	002	mg/L	Hardness as CaCO ₃		59.8
Each Sample	002	µg/L	Lead, Total	5	< 2
Each Sample	002	mg/L	Nitrate Nitrogen as N		0.46
Each Sample	002	mg/L	Nitrite Nitrogen as N		0.45
Each Sample	002	mg/L	Oil & Grease		< 1.4
Each Sample	002	s.u.	pH		7.78
Each Sample	002	mg/L	Phosphorus		0.04
Each Sample	002	µg/L	Residual Chlorine, Total	20	NA
Each Sample	002	µmhos	Specific Conductance		271
Each Sample	002	mg/L	Surfactants		0.064
Each Sample	002	C	Temperature		19.10

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	002	mg/L	Total Kjeldahl Nitrogen		0.49
Each Sample	002	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	002	mg/L	Total Suspended Solids		< 5.0
Each Sample	002	µg/L	Zinc, Total	10	<2

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-003</u>
RECEIVING WATER: <u>Mill River</u>	WATERBODY ID: <u>7404</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION


Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To: 7/31/2014	
Collection Times (am/pm)	From: 11:25 am	To: 11:40 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA
Signature: 

Title: DIRECTOR OF OPERATIONS
Date: 9/5/2014

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-003</u>
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)
Test Species: <u><i>Daphnia pulex</i></u>	Source: _____
Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm)	On: _____ (date)

Atmr2001

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279	DSN-003
Receiving Water:	Mill River	Waterbody ID:7404	
Sample Collection Date(s):	7/31/2014		
Sample Collection Time:	FROM: 11:25 am	(AM/PM)	TO: 11:40 am (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample	Time	
Temperature			
pH			
Alkalinity			
Conductivity			
Hardness/Salinity			
TRC			

100% Test Sample

Parameter	Daphnia pulex	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity						
Alkalinity						
Hardness / Salinity						
TRC						

0% Test Sample (Control)

Parameter	Daphnia pulex	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity						
Alkalinity						
Hardness / Salinity						
TRC						

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit:CT0030279, DSN-003

Exp: 6/3/2018

Phone¹: (203)977-5281

Facility: Town of Stamford MS4

Contact: Tyler Theder

Phone²:

Address: Office of Operations 888 Washington Boulevard

Town:

Stamford

Zip:

06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14
-FALL

Sample Day s Flow: NA

WET-SPRING WET-SUM ☒ DRY-SUM ☐ -WET

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	003	mg/L	Ammonia Nitrogen as N		0.1
Each Sample	003	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	003	mg/L	Chemical Oxygen Demand		24
Each Sample	003	mg/L	Chlorides		41.9
Each Sample	003	µg/L	Copper, Total	5	11
Each Sample	003	mg/L	Dissolved Oxygen		6.27
Each Sample	003	col/100 ml	Enterococci		50
Each Sample	003	col/100ml	Escherichia coli		30
Each Sample	003	col/100 mL	Fecal Coliform		120
Each Sample	003	mg/L	Hardness as CaCO ₃		64.8
Each Sample	003	µg/L	Lead, Total	5	<2
Each Sample	003	mg/L	Nitrate Nitrogen as N		0.04
Each Sample	003	mg/L	Nitrite Nitrogen as N		0.04
Each Sample	003	mg/L	Oil & Grease		< 1.4
Each Sample	003	s.u.	pH		7.74
Each Sample	003	mg/L	Phosphorus		0.03
Each Sample	003	µg/L	Residual Chlorine, Total	20	NA
Each Sample	003	µmhos	Specific Conductance		222
Each Sample	003	mg/L	Surfactants		0.42

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MON.LOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	003	C	Temperature		16.63
Each Sample	003	mg/L	Total Kjeldahl Nitrogen		0.55
Each Sample	003	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	003	mg/L	Total Suspended Solids		< 5.0
Each Sample	003	µg/L	Zinc, Total	10	3

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-004</u>
RECEIVING WATER: <u>Noroton River</u>	WATERBODY ID: <u>7403</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>7/31/2014</u> To: <u>7/31/2014</u>	
Collection Times (am/pm)	From: <u>11:18 am</u> To: <u>11:33 am</u>	
Total Flow (sample day)	NA	gpd

TOXICITY TEST SUMMARY

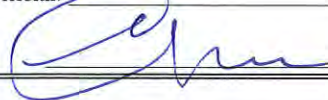
TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-004</u>
Dilution Water: _____	Hardness/Salinity: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)
Test Species: <u>Daphnia pulex</u>	Source: _____ Age: _____
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

<u>COMMENTS <i>Daphnia pulex</i></u>
Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>
<p>Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.</p>
Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID: CT0030279 DSN-004
Receiving Water:	Noroton River	Waterbody ID: 7403
Sample Collection Date(s):	7/31/14	
Sample Collection Time:	FROM: 11:18 am (AM/PM) TO: 11:33 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Hours					
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-004 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	004	mg/L	Ammonia Nitrogen as N		0.07
Each Sample	004	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	004	mg/L	Chemical Oxygen Demand		19
Each Sample	004	mg/L	Chlorides		124
Each Sample	004	µg/L	Copper, Total	5	<5
Each Sample	004	mg/L	Dissolved Oxygen		6.09
Each Sample	004	col/100 ml	Enterococci		120
Each Sample	004	col/100ml	Escherichia coli		370
Each Sample	004	col/100 mL	Fecal Coliform		840
Each Sample	004	mg/L	Hardness as CaCO ₃		121
Each Sample	004	µg/L	Lead, Total	5	<2
Each Sample	004	mg/L	Nitrate Nitrogen as N		1.18
Each Sample	004	mg/L	Nitrite Nitrogen as N		1.19
Each Sample	004	mg/L	Oil & Grease		< 1.4
Each Sample	004	s.u.	pH		7.64
Each Sample	004	mg/L	Phosphorus		0.06
Each Sample	004	µg/L	Residual Chlorine, Total	20	NA
Each Sample	004	µmhos	Specific Conductance		518
Each Sample	004	mg/L	Surfactants		0.052

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	004	C	Temperature		21.22
Each Sample	004	mg/L	Total Kjeldahl Nitrogen		0.54
Each Sample	004	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	004	mg/L	Total Suspended Solids		< 5.0
Each Sample	004	µg/L	Zinc, Total	10	3

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-005</u>
RECEIVING WATER: <u>Rippowam River</u>	WATERBODY ID: <u>7405</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To: 7/31/2014	
Collection Times (am/pm)	From: 9:42 am	To: 9:57 am	
Total Flow (sample day)	NA	gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

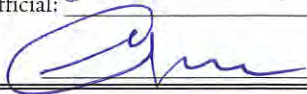
Authorized Official:

ERNIE ORGERA

Title:

DIRECTOR OF OPERATIONS

Signature:



Date:

9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-005</u>	Dilution Water: _____
Sample Collected On: <u>NA</u> (date)	Received On: _____ (date)	Hardness/Salinity: _____
Test Species: <u>Daphnia pulex</u> Source: _____ Age: _____		
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)		

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			LC50				95% Conf. Interval		NOAEL		CONTROL SURVIVAL (%)	
Hour	00	24	48	00	24	48	00	24	48	00	24	48	00	24	48	CONTROL 1	CONTROL 2	CONTROL 3	CONTROL 4				

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-005
Receiving Water:	Rippowam River	Waterbody ID:7405
Sample Collection Date(s):	7/31/14	
Sample Collection Time:	FROM: 9:42 am (AM/PM) TO: 9:57 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Time	Effluent Sample
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter		<i>Daphnia pulex</i>			Conductivity	Alkalinity	Hardness / Salinity	TRC
		Initial (00)	Final (48)	Initial (00)					Final (48)
Hours								

0% Test Sample (Control)

Parameter	Hours		<i>Daphnia pulex</i>		
	Initial (00)	Final (48)	Initial (00)	Final (48)	
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit:CT0030279, DSN-005

Exp: 6/3/2018

Phone¹: (203)977-5281

Facility: Town of Stamford MS4

Contact: Tyler Theder

Phone²:

Address: Office of Operations 888 Washington Boulevard

Town:

Stamford

Zip:

06901

Laboratory Name: Phoenix Environmental Labs, Inc.

Sample Date: 7/31/14
WET -FALL

Sample Day's Flow: NA

WET-SPRING WET-SUM DRY-SUM -

REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	005	mg/L	Ammonia Nitrogen as N		0.07
Each Sample	005	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	005	mg/L	Chemical Oxygen Demand		22
Each Sample	005	mg/L	Chlorides		141
Each Sample	005	µg/L	Copper, Total	5	<5
Each Sample	005	mg/L	Dissolved Oxygen		0.14
Each Sample	005	col/100 ml	Enterococci		40
Each Sample	005	col/100ml	Escherichia coli		370
Each Sample	005	col/100 mL	Fecal Coliform		330
Each Sample	005	mg/L	Hardness as CaCO ₃		111
Each Sample	005	µg/L	Lead, Total	5	<2
Each Sample	005	mg/L	Nitrate Nitrogen as N		0.8
Each Sample	005	mg/L	Nitrite Nitrogen as N		0.81
Each Sample	005	mg/L	Oil & Grease		< 1.4
Each Sample	005	s.u.	pH		8.03
Each Sample	005	mg/L	Phosphorus		0.03
Each Sample	005	µg/L	Residual Chlorine, Total	20	NA
Each Sample	005	µmhos	Specific Conductance		572
Each Sample	005	mg/L	Surfactants		<0.05

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	005	C	Temperature		21.88
Each Sample	005	mg/L	Total Kjeldahl Nitrogen		0.51
Each Sample	005	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	005	mg/L	Total Suspended Solids		< 5.0
Each Sample	005	µg/L	Zinc, Total	10	< 2

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	006	C	Temperature		22.82
Each Sample	006	mg/L	Total Kjeldahl Nitrogen		0.53
Each Sample	006	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	006	mg/L	Total Suspended Solids		< 5.0
Each Sample	006	µg/L	Zinc, Total	10	5

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	007	C	Temperature		23.26
Each Sample	007	mg/L	Total Kjeldahl Nitrogen		0.48
Each Sample	007	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	007	mg/L	Total Suspended Solids		< 5.0
Each Sample	007	µg/L	Zinc, Total	10	< 2

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-008</u>
RECEIVING WATER: <u>Trib to Stamford Harbor</u>	WATERBODY ID: <u>7000-42</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

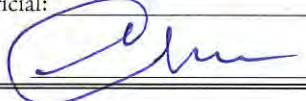
Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014 To: 7/31/2014	
Collection Times (am/pm)	From: 9:38 am To: 9:53 am	
Total Flow (sample day)	NA gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNE ORGERA
Signature: 

Title: DIRECTOR OF OPERATIONS
Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-008</u>
Dilution Water: _____ Hardness/Salinity: _____	
Sample Collected On: <u>NA</u> (date) Received On: _____ (date)	
Test Species: <u>Daphnia pulex</u> Source: _____ Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name: _____

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

<u>COMMENTS</u>	
Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.	
Laboratory Name:	

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	Town of Stamford MS4	NPDES ID:CT0030279 DSN-008
Receiving Water:	Trib to Stamford Harbor	Waterbody ID:7000-42
Sample Collection Date(s):	7/31/14	
Sample Collection Time:	FROM: 9:38 am (AM/PM) TO: 9:53 am (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-008 Exp: 6/3/2018 Phone¹: (203)977-5281
Facility: Town of Stamford MS4 Contact: Tyler Theder Phone²:
Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Labs, Inc.

Sample Date: 7/31/14 Sample Day s Flow: NA SPRING WET- SUM DRY-SUM DRY
FALL REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	008	mg/L	Ammonia Nitrogen as N		0.37
Each Sample	008	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	008	mg/L	Chemical Oxygen Demand		57
Each Sample	008	mg/L	Chlorides		1,790
Each Sample	008	µg/L	Copper, Total	5	<5
Each Sample	008	mg/L	Dissolved Oxygen		6.37
Each Sample	008	col/100 ml	Enterococci		650
Each Sample	008	col/100ml	Escherichia coli		>600
Each Sample	008	col/100 mL	Fecal Coliform		>2000
Each Sample	008	mg/L	Hardness as CaCO3		729
Each Sample	008	µg/L	Lead, Total	5	<2
Each Sample	008	mg/L	Nitrate Nitrogen as N		1.33
Each Sample	008	mg/L	Nitrite Nitrogen as N		1.36
Each Sample	008	mg/L	Oil & Grease		< 1.4
Each Sample	008	s.u.	pH		7.79
Each Sample	008	mg/L	Phosphorus		0.12
Each Sample	008	µg/L	Residual Chlorine, Total	20	NA
Each Sample	008	µmhos	Specific Conductance		5,464
Each Sample	008	mg/L	Surfactants		0.081

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	008	C	Temperature		20.97
Each Sample	008	mg/L	Total Kjeldahl Nitrogen		0.99
Each Sample	008	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	008	mg/L	Total Suspended Solids		< 5.0
Each Sample	008	µg/L	Zinc, Total	10	5

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-009</u>
RECEIVING WATER: <u>Westcott Cove</u>	WATERBODY ID: <u>7000-38</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To: 7/31/2014	
Collection Times (am/pm)	From: 10:29 am	To: 10:44 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official:

Signature:

Title:

Date:

ERNE ORGERA



DIRECTOR OF OPERATIONS

9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: Town of Stamford MS4 NPDES ID: CT0030279 DSN-009
 Dilution Water: _____ Hardness/Salinity: _____
 Sample Collected On: NA (date) Received On: _____ (date)
 Test Species: Daphnia pulex Source: _____ Age: _____
 Test Duration: 48 hours, Beginning: _____ (am/pm) On: _____ (date)

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50	95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)			1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

COMMENTS *Daphnia pulex*

Laboratory Name: _____

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name: _____

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-009</u>
Receiving Water:	<u>Westcott Cove</u>	Waterbody ID: <u>7000-38</u>
Sample Collection Date(s):	<u>7/31/14</u>	
Sample Collection Time: FROM:	<u>10:29 am</u> (AM/PM)	TO: <u>10:44 am</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Hours					
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity					
Alkalinity					
Hardness / Salinity					
TRC					

Laboratory Name: _____

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-009	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14	Sample Day's Flow: NA	WET-SPRING WET-SUM DRY-SUM
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REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	009	mg/L	Ammonia Nitrogen as N		0.38
Each Sample	009	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	009	mg/L	Chemical Oxygen Demand		118
Each Sample	009	mg/L	Chlorides		3,060
Each Sample	009	µg/L	Copper, Total	5	<5
Each Sample	009	mg/L	Dissolved Oxygen		4.81
Each Sample	009	col/100 ml	Enterococci		650
Each Sample	009	col/100ml	Escherichia coli		>600
Each Sample	009	col/100 mL	Fecal Coliform		910
Each Sample	009	mg/L	Hardness as CaCO ₃		1,180
Each Sample	009	µg/L	Lead, Total	5	<2
Each Sample	009	mg/L	Nitrate Nitrogen as N		1.61
Each Sample	009	mg/L	Nitrite Nitrogen as N		1.61
Each Sample	009	mg/L	Oil & Grease		< 1.4
Each Sample	009	s.u.	pH		7.38
Each Sample	009	mg/L	Phosphorus		0.18
Each Sample	009	µg/L	Residual Chlorine, Total	20	NA
Each Sample	009	µmhos	Specific Conductance		9,023
Each Sample	009	mg/L	Surfactants		0.076

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	009	C	Temperature		21.60
Each Sample	009	mg/L	Total Kjeldahl Nitrogen		0.84
Each Sample	009	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	009	mg/L	Total Suspended Solids		< 5.0
Each Sample	009	µg/L	Zinc, Total	10	11

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-010</u>
RECEIVING WATER: <u>Greenwich Cove</u>	WATERBODY ID: <u>7000-44</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 7/31/2014	To: 7/31/2014	
Collection Times (am/pm)	From: 10:17 am	To: 10:32 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	%	%
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERIN ORGIERA

Title: DIRECTOR OF OPERATIONS

Signature: [Signature]

Date: 9/5/2014

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name: <u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-010</u>
Dilution Water: _____ Hardness/Salinity: _____	
Sample Collected On: <u>NA</u> (date) Received On: _____ (date)	
Test Species: <u>Daphnia pulex</u> Source: _____ Age: _____	
Test Duration: <u>48 hours</u> , Beginning: _____ (am/pm) On: _____ (date)	

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													
NR% A													
NR% B													
NR% C													
NR% D													
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
LC50		95% Conf. Interval			NOAEL			CONTROL SURVIVAL (%)		1	2	3	4

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>				

<u>COMMENTS</u> <i>Daphnia pulex</i>
Laboratory Name:

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀

COMMENTS

Per permit requirements, aquatic toxicity monitoring performed annually during summer wet monitoring event.

Laboratory Name:

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID: <u>CT0030279 DSN-010</u>
Receiving Water:	<u>Greenwich Cove</u>	Waterbody ID: <u>7000-44</u>
Sample Collection Date(s):	<u>7/31/14</u>	
Sample Collection Time: FROM:	<u>10:17 am</u> (AM/PM)	TO: <u>10:32 am</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	
Temperature		
pH		
Alkalinity		
Conductivity		
Hardness/Salinity		
TRC		

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity				
Alkalinity				
Hardness / Salinity				
TRC				

Laboratory Name:

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-010 Exp: 6/3/2018 Phone¹: (203)977-5281
 Facility: Town of Stamford MS4 Contract: Tyler Theder Phone²:
 Address: Office of Operations 888 Washington Boulevard Town: Stamford Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 7/31/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM
 WET -FALL REPEAT MONTH:

FREQUENCY	DSN#	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Sample	010	mg/L	Ammonia Nitrogen as N		0.09
Each Sample	010	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	010	mg/L	Chemical Oxygen Demand		19
Each Sample	010	mg/L	Chlorides		151
Each Sample	010	µg/L	Copper, Total	5	<5
Each Sample	010	mg/L	Dissolved Oxygen		6.67
Each Sample	010	col/100 ml	Enterococci		105
Each Sample	010	col/100ml	Escherichia coli		180
Each Sample	010	col/100 mL	Fecal Coliform		1410
Each Sample	010	mg/L	Hardness as CaCO3		155
Each Sample	010	µg/L	Lead, Total	5	<2
Each Sample	010	mg/L	Nitrate Nitrogen as N		0.64
Each Sample	010	mg/L	Nitrite Nitrogen as N		0.62
Each Sample	010	mg/L	Oil & Grease		< 1.4
Each Sample	010	s.u.	pH		8.12
Each Sample	010	mg/L	Phosphorus		0.13
Each Sample	010	µg/L	Residual Chlorine, Total	20	NA
Each Sample	010	µmhos	Specific Conductance		696
Each Sample	010	mg/L	Surfactants		0.054

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	010	C	Temperature		21.05
Each Sample	010	mg/L	Total Kjeldahl Nitrogen		0.37
Each Sample	010	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	010	mg/L	Total Suspended Solids		< 5.0
Each Sample	010	µg/L	Zinc, Total	10	9

WET INSTREAM SAMPLING EVENT

8/13/14

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 155-01-20140813	Location: 155-01	

Event Type (circle type):	Spring	<u>Summer</u>	Fall	<u>Wet</u>	Dry
---------------------------	--------	---------------	------	------------	-----

Location Data

Sample Location: Newman mills / Riverwalk Park
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Sample Data

Date: 8-13-14	Time: 9:49	<table border="1"> <tr> <th colspan="2">Container List:</th> </tr> <tr> <td>2</td> <td>1 L Amber</td> </tr> <tr> <td>1</td> <td>500 ml plastic</td> </tr> <tr> <td>1</td> <td>250 ml plastic</td> </tr> <tr> <td>1</td> <td>1,000 ml plastic</td> </tr> <tr> <td>3</td> <td>100 ml plastic</td> </tr> </table>	Container List:		2	1 L Amber	1	500 ml plastic	1	250 ml plastic	1	1,000 ml plastic	3	100 ml plastic
Container List:														
2	1 L Amber													
1	500 ml plastic													
1	250 ml plastic													
1	1,000 ml plastic													
3	100 ml plastic													
Sampler: SWZ	Weather: Rain TDS													

Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY

Field Parameters

pH (S.U.)	5.93	Sample Appearance/Description: -clear, colorless, no odor
Temperature (o C)	20.33	
Dissolved Oxygen (mg/L)	6.87	
Spec. Conductivity (µmhos/cm)	293	

River Condition

Erosion or Scour on Streambanks:	Comments: none none
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26	
Sample #: 20140813-02	Location: ISS-02		

Event Type (circle type):	Spring	Summer	Fall	Wet	Dry
---------------------------	--------	--------	------	---	-----

Location Data

Sample Location:

Sample Data

Date: 8-13-14	Time: 11:06				
Sampler: JMS	Weather: Cloudy, Rain 70's				
			2	Container List: 1 L Amber	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1,000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq. Tox during summer wet events ONLY					

Field Parameters

pH (S.U.)	5.78	Sample Appearance/Description: - Clear, colorless, no odor
Temperature (o C)	20.59	
Dissolved Oxygen (mg/L)	6.68	
Spec. Conductivity (µmhos/cm)	298	

River Condition

	Comments: NONE
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26	
Sample #: 120140812-04	Location: 155-03		
Event Type (circle type): Spring Summer Fall <u>Wet</u> Dry			

Location Data

Sample Location:

Sample Data

Date: 8-13-11	Time: 12:25	Weather: Cloudy 80's		Container List:	
Sampler: JMS			2	1 L Amber	H2SO4
			1	500 ml plastic	H2SO4
			1	250 ml plastic	HNO3
			1	1,000 ml plastic	As-is
			3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY					

Field Parameters

pH (S.U.)	5.77	Sample Appearance/Description: - Clear, colorless, no odor
Temperature (o C)	20.65	
Dissolved Oxygen (mg/L)	5.62	
Spec. Conductivity (µmhos/cm)	265	

River Condition

	Comments: NONE
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	

#

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 155-08-20140813	Location: 155-08	

Event Type (circle type): Spring Summer Fall Wet Dry

Location Data

Sample Location: Short Rd, South of Innis Arden Golf Course

Sample Data

Date: <u>8/13/14</u>	Time: <u>11:05</u>	Container List:	
Sampler: <u>EAM</u>	Weather: <u>Rain 70's</u>	2	1 L Amber H2SO4
Start: 10:20		1	500 ml plastic H2SO4
		1	250 ml plastic HNO3
		1	1,000 ml plastic As-is
		3	100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY			

Field Parameters

pH (S.U.)	6.06	Sample Appearance/Description: - light brown, cloudy, slight odor
Temperature (°C)	23.08	
Dissolved Oxygen (mg/L)	5.28	
Spec. Conductivity (µmhos/cm)	876	

River Condition

Erosion or Scour on Streambanks:	Comments - Minor bank erosion due to seasonal flooding
Sedimentation in Streams (sandbars or deltas)	

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 155-09-20140813	Location: LOCATION #9	
Event Type (circle type): Spring <u>Summer</u> Fall <u>Wet</u> Dry		

Location Data

Sample Location: MIDDLE OF STREAM NEAR BRIDGE ^{SW2} (DOWNSTREAM) (UP STREAM)
--

Sample Data

Date: 8-13-14	Time: 12:15	Container List:
Sampler: SW2	Weather: 70'S RAIN	2 1 L Amber H2SO4
11:30 / 11:45 / 12:00 / 12:15		1 500 ml plastic H2SO4
		1 250 ml plastic HNO3
		1 1,000 ml plastic As-is
		3 100 ml plastic sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY		

Field Parameters

pH (S.U.) 7.33	Sample Appearance/Description: SLIGHT GRAY / WATERY SLIGHT CLOUDY / MUSTY ODOR
Temperature (o C) 22.66	
Dissolved Oxygen (mg/L) 4.75	
Spec. Conductivity (umhos/cm) 3078	

River Condition

Erosion or Scour on Streambanks:	Comments: YES
Sedimentation in Streams (sandbars or deltas)	HOME OBSERVED

Instream Sample Field Data Sheet

Client/Project Name: City of Stamford MS4	Location: Stamford, CT	Project: #105-26
Sample #: 155-10-20140813	Location: 155-10	
Event Type (circle type): Spring <u>Summer</u> Fall <u>Wet</u> Dry		

Location Data

Sample Location:	Northwest corner of Rosa Hartman Park - Downstream from I-95 Bridge
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Sample Data

Date:	8-13-14	Time:	12:08		Container List:		
Sampler:	EAT	Weather:	Rain 70s		2	1 L Amber	H2SO4
Start:	11:23				1	500 ml plastic	H2SO4
					1	250 ml plastic	HNO3
					1	1,000 ml plastic	As-is
					3	100 ml plastic	sterile
Note: 1 additional 1000 ml As-is for Aq Tox during summer wet events ONLY							

Field Parameters

pH (S.U.)	6.10	Sample Appearance/Description: - light brown, clear, no odor
Temperature (o C)	22.67	
Dissolved Oxygen (mg/L)	5.53	
Spec. Conductivity (umhos/cm)	238	

River Condition

	Comments: - minor erosion due to seasonal flooding
Erosion or Scour on Streambanks:	
Sedimentation in Streams (sandbars or deltas)	



ANCHOR

ENGINEERING SERVICES, INC.

T: 860.633.8770
F: 860.633.5971
www.anchorengr.com

41 Sequin Drive • Glastonbury, CT • 06033

September 29, 2014

Ms. Rosemary A. Gatter-Evarts
Aquatic Toxicity Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127

RECEIVED

SEP 29 2014

**BUREAU OF MATERIALS MANAGEMENT
& COMPLIANCE ASSURANCE**

Re: City of Stamford Aquatic Toxicity Monitoring Reports (ATMRs)

Dear Ms. Gattar-Everts:

Anchor Engineering Services, Inc. is pleased to submit the attached seven (7) ATMRs for the City of Stamford NPDES permit No. CT0030279. In-stream monitoring was conducted on August 13, 2014 and satisfies the summer wet weather monitoring for 2014. During monitoring activities the rain stopped, preventing Anchor Engineering staff from collecting representative samples for three of the ten instream monitoring locations.

Per the NPDES permit requirements, Aquatic Toxicity was performed, and the data is included on the ATMR forms. If you have any questions or comments regarding the attached, please do not hesitate to contact us at (860)633-8770.

Sincerely,

Patrick J. McKay
Senior Environmental Scientist

D. Scott Atkin, LEP
Principal

cc: Tyler Theder, City of Stamford
Christopher Stone, P.E.; DEEP (letter only)

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-001</u>
RECEIVING WATER: <u>Mianus River</u>	WATERBODY ID: <u>7407</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

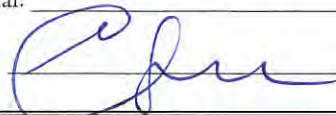
Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>8/13/14</u> To: <u>8/13/2014</u>	
Collection Times (am/pm)	From: <u>9:04 am</u> To: <u>9:49 am</u>	
Total Flow (sample day)	<u>NA</u> gpd	<u>gpd</u>

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: <u>8/14/14</u>	To: <u>8/16/14</u>
TEST SPECIES	<u>Daphnia pulex</u>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	<u>>100</u> %	<u>>100</u> %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA
 Signature: 

Title: DIRECTOR OF OPERATIONS -
 Date: 8/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-01-20140813	
Date/Time Begin: 8/14/14 @ 1302	Date/Time End: 8/16/14 @ 1402
Sample Hardness (mg/L): 66	Sample Conductivity (µS): 281
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	5	9.6	9.4	9.0	19	19	19	7.3	7.6	7.4
CONTROL 2	5	5	5	9.6	9.4	9.0	19	19	19	7.3	7.6	7.4
CONTROL 3	5	5	5	9.6	9.4	9.0	19	19	19	7.3	7.6	7.4
CONTROL 4	5	5	5	9.6	9.4	9.0	19	19	19	7.3	7.6	7.4
6.25% A	5	5	5	9.5	9.3	9.0	20	20	19	7.0	7.2	7.2
6.25% B	5	5	5	9.5	9.3	9.0	20	20	19	7.0	7.2	7.2
6.25% C	5	5	5	9.5	9.3	9.0	20	20	19	7.0	7.2	7.2
6.25% D	5	5	5	9.5	9.3	9.0	20	20	19	7.0	7.2	7.2
12.5% A	5	5	5	9.6	9.2	9.0	20	20	19	7.0	7.3	7.3
12.5% B	5	5	5	9.6	9.2	9.0	20	20	19	7.0	7.3	7.3
12.5% C	5	5	5	9.6	9.2	9.0	20	20	19	7.0	7.3	7.3
12.5% D	5	5	5	9.6	9.2	9.0	20	20	19	7.0	7.3	7.3
25% A	5	5	5	9.5	9.3	9.1	20	19	19	7.0	7.4	7.5
25% B	5	5	5	9.5	9.3	9.1	20	19	19	7.0	7.4	7.5
25% C	5	5	5	9.5	9.3	9.1	20	19	19	7.0	7.4	7.5
25% D	5	5	5	9.5	9.3	9.1	20	19	19	7.0	7.4	7.5
50% A	5	5	5	9.8	9.2	9.0	20	20	19	7.1	7.4	7.6
50% B	5	5	5	9.8	9.2	9.0	20	20	19	7.1	7.4	7.6
50% C	5	5	5	9.8	9.2	9.0	20	20	19	7.1	7.4	7.6
50% D	5	5	5	9.8	9.2	9.0	20	20	19	7.1	7.4	7.6
100% A	5	5	5	9.8	9.0	8.9	20	20	19	7.1	7.4	7.6
100% B	5	5	5	9.8	9.0	8.9	20	20	19	7.1	7.4	7.6
100% C	5	5	5	9.8	9.0	8.9	20	20	19	7.1	7.4	7.6
100% D	5	5	5	9.8	9.0	8.9	20	20	19	7.1	7.4	7.6
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>DAPHNIA PULEX</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

COMMENTS *Daphnia pulex*

Laboratory Name: New England Bioassy

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>DAPHNIA PULEX</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

COMMENTS

Laboratory Name: New England Bioassy

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-001</u>
Receiving Water:	<u>Mianus River</u>	Waterbody ID: <u>7407</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time:	FROM <u>9:04 am</u> (AM/PM) TO: <u>9:49 am</u> (AM/PM)	

Effluent Sample at Arrival

Parameter		Effluent Sample
8/14/14	Time	13:02
Temperature		6
pH		7.1
Alkalinity		N/A
Conductivity		281
Hardness/Salinity		66
TRC		NA

100% Test Sample

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		281	N/A		
Alkalinity		N/A	N/A		
Hardness / Salinity		66	N/A		
TRC		N/A	N/A		

0% Test Sample (Control)

Parameter		<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		189	185		
Alkalinity		35	35		
Hardness / Salinity		46 / <1	48 / <1		
TRC		<0.02	<0.02		

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-001	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM -
WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	001	mg/L	Ammonia Nitrogen as N		0.06
Each Sample	001	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	001	mg/L	Chemical Oxygen Demand		16
Each Sample	001	mg/L	Chlorides		49.2
Each Sample	001	µg/L	Copper, Total	5	<5
Each Sample	001	mg/L	Dissolved Oxygen		6.87
Each Sample	001	col/100 ml	Enterococci		700
Each Sample	001	col/100ml	Escherichia coli		>600
Each Sample	001	col/100 mL	Fecal Coliform		440
Each Sample	001	mg/L	Hardness as CaCO3		71.1
Each Sample	001	µg/L	Lead, Total	5	<2
Each Sample	001	mg/L	Nitrate Nitrogen as N		0.07
Each Sample	001	mg/L	Nitrite Nitrogen as N		0.07
Each Sample	001	mg/L	Oil & Grease		<1.4
Each Sample	001	s.u.	pH		5.93
Each Sample	001	mg/L	Phosphorus		0.05
Each Sample	001	µg/L	Residual Chlorine, Total	20	NA
Each Sample	001	µmhos	Specific Conductance		293
Each Sample	001	mg/L	Surfactants		< 0.05
Each Sample	001	C	Temperature		20.33

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	001	mg/L	Total Kjeldahl Nitrogen		0.42
Each Sample	001	mg/L	Total Petroleum Hydrocarbons		<1.4
Each Sample	001	mg/L	Total Suspended Solids		<5.0
Each Sample	001	µg/L	Zinc, Total	10	2

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-002</u>
RECEIVING WATER: <u>East Branch Mianus River</u>	WATERBODY ID: <u>7406</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 8/13/14	To 8/13/14	
Collection Times (am/pm)	From: 10:21 am	To: 11:06 am	
Total Flow (sample day)	NA	gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: 8/14/14	To: 8/16/14
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: <u>ERNIE ORLANDA</u>	Title: <u>DIRECTOR OF OPERATIONS</u>
Signature: <u>[Signature]</u>	Date: <u>9/25/2014</u>

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-02-20140813	
Date/Time Begin: 8/14/14 @ 1443	Date/Time End: 8/16/14 @ 1430
Sample Hardness (mg/L): 52	Sample Conductivity (µS): 273
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	5	4	9.6	9.4	8.9	20	20	19	7.2	7.5	7.2
6.25% B	5	5	5	9.6	9.4	8.9	20	20	19	7.2	7.5	7.2
6.25% C	5	5	5	9.6	9.4	8.9	20	20	19	7.2	7.5	7.2
6.25% D	5	5	5	9.6	9.4	8.9	20	20	19	7.2	7.5	7.2
12.5% A	5	5	5	9.5	9.3	8.8	20	20	19	7.2	7.5	7.2
12.5% B	5	5	5	9.5	9.3	8.8	20	20	19	7.2	7.5	7.2
12.5% C	5	5	5	9.5	9.3	8.8	20	20	19	7.2	7.5	7.2
12.5% D	5	5	4	9.5	9.3	8.8	20	20	19	7.2	7.5	7.2
25% A	5	5	5	9.4	9.3	8.9	20	20	19	7.2	7.5	7.2
25% B	5	4	4	9.4	9.3	8.9	20	20	19	7.2	7.5	7.2
25% C	5	5	5	9.4	9.3	8.9	20	20	19	7.2	7.5	7.2
25% D	5	5	5	9.4	9.3	8.9	20	20	19	7.2	7.5	7.2
50% A	5	5	5	9.3	9.2	8.8	20	19	19	7.2	7.4	7.2
50% B	5	5	5	9.3	9.2	8.8	20	19	19	7.2	7.4	7.2
50% C	5	5	4	9.3	9.2	8.8	20	19	19	7.2	7.4	7.2
50% D	5	5	5	9.3	9.2	8.8	20	19	19	7.2	7.4	7.2
100% A	5	5	5	9.4	9.1	8.9	20	19	19	7.1	7.3	7.2
100% B	5	5	5	9.4	9.1	8.9	20	19	19	7.1	7.3	7.2
100% C	5	5	5	9.4	9.1	8.9	20	19	19	7.1	7.3	7.2
100% D	5	5	5	9.4	9.1	8.9	20	19	19	7.1	7.3	7.2
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

COMMENTS *Daphnia pulex*

Laboratory Name: New England Bioassy

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

COMMENTS

Laboratory Name: New England Bioassy

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-002</u>
Receiving Water:	<u>East Branch Mianus River</u>	Waterbody ID: <u>7406</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time:	FROM <u>10:21 am</u> (AM/PM) TO: <u>11:06 am</u> (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	14:43
Temperature		6
pH		7.1
Alkalinity		N/A
Conductivity		273
Hardness/Salinity		52
TRC		N/A

100% Test Sample

Parameter	Hours	<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		273	N/A		
Alkalinity		N/A	N/A		
Hardness / Salinity		52	N/A		
TRC		N/A	N/A		

0% Test Sample (Control)

Parameter	Hours	<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		189	185		
Alkalinity		35	35		
Hardness / Salinity		46 / <1	48 / <1		
TRC		<0.02	<0.02		

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-002	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM -
WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	002	mg/L	Ammonia Nitrogen as N		0.07
Each Sample	002	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	002	mg/L	Chemical Oxygen Demand		18
Each Sample	002	mg/L	Chlorides		54.3
Each Sample	002	µg/L	Copper, Total	5	<5
Each Sample	002	mg/L	Dissolved Oxygen		6.68
Each Sample	002	col/100 ml	Enterococci		>2000
Each Sample	002	col/100ml	Escherichia coli		>600
Each Sample	002	col/100 mL	Fecal Coliform		>2000
Each Sample	002	mg/L	Hardness as CaCO3		53.2
Each Sample	002	µg/L	Lead, Total	5	<2
Each Sample	002	mg/L	Nitrate Nitrogen as N		0.41
Each Sample	002	mg/L	Nitrite Nitrogen as N		0.40
Each Sample	002	mg/L	Oil & Grease		< 1.4
Each Sample	002	s.u.	pH		5.78
Each Sample	002	mg/L	Phosphorus		0.09
Each Sample	002	µg/L	Residual Chlorine, Total	20	NA
Each Sample	002	µmhos	Specific Conductance		298
Each Sample	002	mg/L	Surfactants		0.07
Each Sample	002	C	Temperature		20.59

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	002	mg/L	Total Kjeldahl Nitrogen		0.64
Each Sample	002	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	002	mg/L	Total Suspended Solids		6.0
Each Sample	002	µg/L	Zinc, Total	10	4

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-003</u>
RECEIVING WATER: <u>Mill River</u>	WATERBODY ID: <u>7404</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 8/13/14	To: 8/13/14	
Collection Times (am/pm)	From: 11:40 am	To: 12:25 pm	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: 8/14/14	To: 8/16/14
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official:

ERNEST ORGERA

Title: DIRECTOR OF OPERATIONS

Signature:

[Signature]

Date:

9/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-03-20140813	
Date/Time Begin: 8/14/14 @ 1446	Date/Time End: 8/16/14 @ 1431
Sample Hardness (mg/L): 64	Sample Conductivity (µS): 257
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	5	5	9.5	9.3	9.0	20	19	19	7.0	7.4	7.1
6.25% B	5	5	5	9.5	9.3	9.0	20	19	19	7.0	7.4	7.1
6.25% C	5	5	5	9.5	9.3	9.0	20	19	19	7.0	7.4	7.1
6.25% D	5	5	4	9.5	9.3	9.0	20	19	19	7.0	7.4	7.1
12.5% A	5	5	5	9.3	9.3	8.9	20	19	19	7.1	7.5	7.1
12.5% B	5	5	5	9.3	9.3	8.9	20	19	19	7.1	7.5	7.1
12.5% C	5	5	5	9.3	9.3	8.9	20	19	19	7.1	7.5	7.1
12.5% D	5	5	5	9.3	9.3	8.9	20	19	19	7.1	7.5	7.1
25% A	5	5	5	9.2	9.3	8.9	20	19	19	7.1	7.5	7.1
25% B	5	4	4	9.2	9.3	8.9	20	19	19	7.1	7.5	7.1
25% C	5	5	5	9.2	9.3	8.9	20	19	19	7.1	7.5	7.1
25% D	5	5	5	9.2	9.3	8.9	20	19	19	7.1	7.5	7.1
50% A	5	5	5	9.2	9.2	8.8	20	19	19	7.1	7.5	7.1
50% B	5	5	5	9.2	9.2	8.8	20	19	19	7.1	7.5	7.1
50% C	5	5	5	9.2	9.2	8.8	20	19	19	7.1	7.5	7.1
50% D	5	5	5	9.2	9.2	8.8	20	19	19	7.1	7.5	7.1
100% A	5	5	5	9.1	9.0	8.8	20	19	19	7.1	7.4	7.1
100% B	5	5	5	9.1	9.0	8.8	20	19	19	7.1	7.4	7.1
100% C	5	5	5	9.1	9.0	8.8	20	19	19	7.1	7.4	7.1
100% D	5	5	5	9.1	9.0	8.8	20	19	19	7.1	7.4	7.1
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS <i>Daphnia pulex</i></u>	
<div style="border: 1px dashed gray; padding: 5px; margin-top: 10px;"> Laboratory Name: New England Bioassay </div>	

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS</u>	
<div style="border: 1px dashed gray; padding: 5px; margin-top: 10px;"> Laboratory Name: New England Bioassay </div>	

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279	<u>DSN-003</u>
Receiving Water:	<u>Mill River</u>	Waterbody ID: <u>7404</u>	
Sample Collection Date(s):	<u>8/13/14</u>		
Sample Collection Time:	FROM: <u>11:40 am</u> (AM/PM) TO: <u>12:25 pm</u> (AM/PM)		

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	14:46
Temperature		6
pH		7.1
Alkalinity		N/A
Conductivity		257
Hardness/Salinity		64
TRC		N/A

100% Test Sample

Parameter	Hours	<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		257	N/A		
Alkalinity		N/A	N/A		
Hardness / Salinity		64	N/A		
TRC		N/A	N/A		

0% Test Sample (Control)

Parameter	Hours	<i>Daphnia pulex</i>			
		Initial (00)	Final (48)	Initial (00)	Final (48)
Conductivity		189	185		
Alkalinity		35	35		
Hardness / Salinity		46 / <1	48 / <1		
TRC		<0.02	<0.02		

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-003	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET-SUM DRY-SUM
WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	003	mg/L	Ammonia Nitrogen as N		0.10
Each Sample	003	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	003	mg/L	Chemical Oxygen Demand		18
Each Sample	003	mg/L	Chlorides		42.7
Each Sample	003	µg/L	Copper, Total	5	12
Each Sample	003	mg/L	Dissolved Oxygen		5.62
Each Sample	003	col/100 ml	Enterococci		>2000
Each Sample	003	col/100ml	Escherichia coli		>600
Each Sample	003	col/100 mL	Fecal Coliform		830
Each Sample	003	mg/L	Hardness as CaCO3		72
Each Sample	003	µg/L	Lead, Total	5	<2
Each Sample	003	mg/L	Nitrate Nitrogen as N		0.10
Each Sample	003	mg/L	Nitrite Nitrogen as N		0.10
Each Sample	003	mg/L	Oil & Grease		< 1.4
Each Sample	003	s.u.	pH		5.77
Each Sample	003	mg/L	Phosphorus		0.04
Each Sample	003	µg/L	Residual Chlorine, Total	20	NA
Each Sample	003	µmhos	Specific Conductance		265
Each Sample	003	mg/L	Surfactants		<0.05
Each Sample	003	C	Temperature		20.65

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	003	mg/L	Total Kjeldahl Nitrogen		0.54
Each Sample	003	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	003	mg/L	Total Suspended Solids		< 5.0
Each Sample	003	µg/L	Zinc, Total	10	3

**STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-004</u>
RECEIVING WATER: <u>Noroton River</u>	WATERBODY ID: <u>7403</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 8/13/14	To: 8/13/14	
Collection Times (am/pm)	From: 10:25 am	To: 11:10 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: 8/14/14	To: 8/16/14
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNEST ORYERA

Title: DIRECTOR OF OPERATIONS

Signature: [Signature]

Date: 9/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-04-20140813	
Date/Time Begin: 8/14/14 @ 1451	Date/Time End: 8/16/14 @ 1432
Sample Hardness (mg/L): 66	Sample Conductivity (µS): 329
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	5	5	9.2	9.3	8.9	20	19	19	7.2	7.5	7.0
6.25% B	5	5	5	9.2	9.3	8.9	20	19	19	7.2	7.5	7.0
6.25% C	5	5	5	9.2	9.3	8.9	20	19	19	7.2	7.5	7.0
6.25% D	5	5	5	9.2	9.3	8.9	20	19	19	7.2	7.5	7.0
12.5% A	5	5	5	9.0	9.2	8.8	20	19	19	7.2	7.4	7.0
12.5% B	5	5	5	9.0	9.2	8.8	20	19	19	7.2	7.4	7.0
12.5% C	5	5	5	9.0	9.2	8.8	20	19	19	7.2	7.4	7.0
12.5% D	5	5	5	9.0	9.2	8.8	20	19	19	7.2	7.4	7.0
25% A	5	5	5	9.1	9.2	8.6	20	19	19	7.2	7.4	7.0
25% B	5	5	5	9.1	9.2	8.6	20	19	19	7.2	7.4	7.0
25% C	5	5	5	9.1	9.2	8.6	20	19	19	7.2	7.4	7.0
25% D	5	5	5	9.1	9.2	8.6	20	19	19	7.2	7.4	7.0
50% A	5	5	5	9.3	9.2	8.6	20	19	19	7.2	7.4	7.0
50% B	5	5	5	9.3	9.2	8.6	20	19	19	7.2	7.4	7.0
50% C	5	5	5	9.3	9.2	8.6	20	19	19	7.2	7.4	7.0
50% D	5	5	5	9.3	9.2	8.6	20	19	19	7.2	7.4	7.0
100% A	5	5	5	9.4	8.9	8.6	20	19	19	7.2	7.3	7.0
100% B	5	5	5	9.4	8.9	8.6	20	19	19	7.2	7.3	7.0
100% C	5	5	5	9.4	8.9	8.6	20	19	19	7.2	7.3	7.0
100% D	5	5	5	9.4	8.9	8.6	20	19	19	7.2	7.3	7.0
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS <i>Daphnia pulex</i></u>	
Laboratory Name:	New England Bioassay

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS</u>	
Laboratory Name:	New England Bioassay

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-004</u>
Receiving Water:	<u>Noroton River</u>	Waterbody ID: <u>7403</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time:	FROM: <u>10:25 am</u> (AM/PM) TO: <u>11:10 am</u> (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	14:51
Temperature		6
pH		7.2
Alkalinity		N/A
Conductivity		329
Hardness/Salinity		66
TRC		N/A

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		329	N/A	
Alkalinity		N/A	N/A	
Hardness / Salinity		66	N/A	
TRC		N/A	N/A	

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		189	185	
Alkalinity		35	35	
Hardness / Salinity		46 / <1	48 / <1	
TRC		<0.02	<0.02	

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-004	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET- SUM DRY-SUM
WET-FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	004	mg/L	Ammonia Nitrogen as N		0.19
Each Sample	004	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	004	mg/L	Chemical Oxygen Demand		21
Each Sample	004	mg/L	Chlorides		67.0
Each Sample	004	µg/L	Copper, Total	5	8
Each Sample	004	mg/L	Dissolved Oxygen		5.78
Each Sample	004	col/100 ml	Enterococci		>2000
Each Sample	004	col/100ml	Escherichia coli		>600
Each Sample	004	col/100 mL	Fecal Coliform		>2000
Each Sample	004	mg/L	Hardness as CaCO3		83.0
Each Sample	004	µg/L	Lead, Total	5	2
Each Sample	004	mg/L	Nitrate Nitrogen as N		0.47
Each Sample	004	mg/L	Nitrite Nitrogen as N		0.45
Each Sample	004	mg/L	Oil & Grease		< 1.4
Each Sample	004	s.u.	pH		7.28
Each Sample	004	mg/L	Phosphorus		0.16
Each Sample	004	µg/L	Residual Chlorine, Total	20	NA
Each Sample	004	µmhos	Specific Conductance		430
Each Sample	004	mg/L	Surfactants		0.1
Each Sample	004	C	Temperature		22.40

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	004	mg/L	Total Kjeldahl Nitrogen		1.15
Each Sample	004	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	004	mg/L	Total Suspended Solids		13
Each Sample	004	µg/L	Zinc, Total	10	18

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-008</u>
RECEIVING WATER: <u>Trib to Stamford Harbor</u>	WATERBODY ID: <u>7000-42</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 8/13/14	To: 8/13/14	
Collection Times (am/pm)	From: 10:20 am	To: 11:05 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: 8/14/14	To: 8/16/14
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official:

ERNIE ORGERA

Title:

DIRECTOR OF OPERATIONS

Signature:



Date:

9/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-08-20140813	
Date/Time Begin: 8/14/14 @ 1455	Date/Time End: 8/16/14 @ 1433
Sample Hardness (mg/L): 134	Sample Conductivity (µS): 846
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	4	4	9.5	9.3	8.7	20	19	19	7.3	7.4	7.2
6.25% B	5	5	5	9.5	9.3	8.7	20	19	19	7.3	7.4	7.2
6.25% C	5	5	5	9.5	9.3	8.7	20	19	19	7.3	7.4	7.2
6.25% D	5	4	4	9.5	9.3	8.7	20	19	19	7.3	7.4	7.2
12.5% A	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.4	7.2
12.5% B	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.4	7.2
12.5% C	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.4	7.2
12.5% D	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.4	7.2
25% A	5	5	5	9.5	9.3	8.9	20	19	19	7.3	7.4	7.2
25% B	5	5	5	9.5	9.3	8.9	20	19	19	7.3	7.4	7.2
25% C	5	5	5	9.5	9.3	8.9	20	19	19	7.3	7.4	7.2
25% D	5	5	5	9.5	9.3	8.9	20	19	19	7.3	7.4	7.2
50% A	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.5	7.2
50% B	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.5	7.2
50% C	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.5	7.2
50% D	5	5	5	9.4	9.3	8.8	20	19	19	7.3	7.5	7.2
100% A	5	5	5	9.3	9.0	8.6	20	19	19	7.4	7.5	7.2
100% B	5	5	5	9.3	9.0	8.6	20	19	19	7.4	7.5	7.2
100% C	5	5	5	9.3	9.0	8.6	20	19	19	7.4	7.5	7.2
100% D	5	5	5	9.3	9.0	8.6	20	19	19	7.4	7.5	7.2
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS <i>Daphnia pulex</i></u>	
Laboratory Name:	<div style="border: 1px dashed gray; padding: 2px;">New England Bioassy</div>

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS</u>	
Laboratory Name:	<div style="border: 1px dashed gray; padding: 2px;">New England Bioassy</div>

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 DSN-008
Receiving Water:	<u>Trib to Stamford Harbor</u>	Waterbody ID: <u>7000-42</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time: FROM:	<u>10:20 am</u> (AM/PM) TO: <u>11:05 am</u> (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	14:55
Temperature		6
pH		7.4
Alkalinity		N/A
Conductivity		846
Hardness/Salinity		134
TRC		N/A

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		846	N/A	
Alkalinity		N/A	N/A	
Hardness / Salinity		134	N/A	
TRC		N/A	N/A	

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		189	185	
Alkalinity		35	35	
Hardness / Salinity		46 / <1	48 / <1	
TRC		<0.02	<0.02	

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-008	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Labs, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA SPRING WET- SUM DRY-SUM
 DRY -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	008	mg/L	Ammonia Nitrogen as N		0.11
Each Sample	008	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	008	mg/L	Chemical Oxygen Demand		25
Each Sample	008	mg/L	Chlorides		204
Each Sample	008	µg/L	Copper, Total	5	13
Each Sample	008	mg/L	Dissolved Oxygen		5.28
Each Sample	008	col/100 ml	Enterococci		>2000
Each Sample	008	col/100ml	Escherichia coli		>2000
Each Sample	008	col/100 mL	Fecal Coliform		>2000
Each Sample	008	mg/L	Hardness as CaCO3		142
Each Sample	008	µg/L	Lead, Total	5	3
Each Sample	008	mg/L	Nitrate Nitrogen as N		0.07
Each Sample	008	mg/L	Nitrite Nitrogen as N		0.07
Each Sample	008	mg/L	Oil & Grease		< 1.4
Each Sample	008	s.u.	pH		6.06
Each Sample	008	mg/L	Phosphorus		0.19
Each Sample	008	µg/L	Residual Chlorine, Total	20	NA
Each Sample	008	µmhos	Specific Conductance		876
Each Sample	008	mg/L	Surfactants		0.10
Each Sample	008	C	Temperature		23.08

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	008	mg/L	Total Kjeldahl Nitrogen		1.68
Each Sample	008	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	008	mg/L	Total Suspended Solids		18
Each Sample	008	µg/L	Zinc, Total	10	5

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-009</u>
RECEIVING WATER: <u>Westcott Cove</u>	WATERBODY ID: <u>7000-38</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite	Grab
Collection Dates (mm/dd/yy)	From: <u>8/13/14</u> To: <u>8/13/14</u>	
Collection Times (am/pm)	From: <u>11:30 am</u> To: <u>12:15 pm</u>	
Total Flow (sample day)	NA gpd	gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From:	To:
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: ERNIE ORGERA

Title: DIRECTOR OF OPERATIONS

Signature: 

Date: 9/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-09-20140813	
Date/Time Begin: 8/14/14 @ 1500	Date/Time End: 8/16/14 @ 1435
Sample Hardness (mg/L): 290	Sample Conductivity (µS): 3010
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.5	7.2
6.25% B	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.5	7.2
6.25% C	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.5	7.2
6.25% D	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.5	7.2
12.5% A	5	5	5	9.2	9.3	8.9	20	19	19	7.5	7.5	7.2
12.5% B	5	5	5	9.2	9.3	8.9	20	19	19	7.5	7.5	7.2
12.5% C	5	5	5	9.2	9.3	8.9	20	19	19	7.5	7.5	7.2
12.5% D	5	5	5	9.2	9.3	8.9	20	19	19	7.5	7.5	7.2
25% A	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.4	7.2
25% B	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.4	7.2
25% C	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.4	7.2
25% D	5	5	5	9.3	9.2	8.8	20	19	19	7.5	7.4	7.2
50% A	5	5	5	9.5	9.2	8.6	20	19	19	7.5	7.3	7.2
50% B	5	5	5	9.5	9.2	8.6	20	19	19	7.5	7.3	7.2
50% C	5	5	5	9.5	9.2	8.6	20	19	19	7.5	7.3	7.2
50% D	5	5	5	9.5	9.2	8.6	20	19	19	7.5	7.3	7.2
100% A	5	5	5	9.5	9.1	8.8	20	19	19	7.3	7.2	7.2
100% B	5	5	5	9.5	9.1	8.8	20	19	19	7.3	7.2	7.2
100% C	5	5	5	9.5	9.1	8.8	20	19	19	7.3	7.2	7.2
100% D	5	5	5	9.5	9.1	8.8	20	19	19	7.3	7.2	7.2
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS <i>Daphnia pulex</i></u>	
Laboratory Name:	<div style="border: 1px dashed black; padding: 2px;">New England Bioassy</div>

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-0102-013	NEB	2.259 µg/L

<u>COMMENTS</u>	
Laboratory Name:	<div style="border: 1px dashed black; padding: 2px;">New England Bioassy</div>

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-009</u>
Receiving Water:	<u>Westcott Cove</u>	Waterbody ID: <u>7000-38</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time:	FROM: <u>11:30 am</u> (AM/PM) TO: <u>12:15 pm</u> (AM/PM)	

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	15:00
Temperature		6
pH		7.3
Alkalinity		N/A
Conductivity		3010
Hardness/Salinity		290
TRC		N/A

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		3010	N/A	
Alkalinity		N/A	N/A	
Hardness / Salinity		290	N/A	
TRC		N/A	N/A	

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		189	189	
Alkalinity		35	35	
Hardness / Salinity		46 / <1	48 / <1	
TRC		<0.02	<0.02	

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-009	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET- SUM DRY-SUM
WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	009	mg/L	Ammonia Nitrogen as N		0.32
Each Sample	009	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	009	mg/L	Chemical Oxygen Demand		42
Each Sample	009	mg/L	Chlorides		885
Each Sample	009	µg/L	Copper, Total	5	12
Each Sample	009	mg/L	Dissolved Oxygen		4.75
Each Sample	009	col/100 ml	Enterococci		>2000
Each Sample	009	col/100ml	Escherichia coli		>600
Each Sample	009	col/100 mL	Fecal Coliform		>2000
Each Sample	009	mg/L	Hardness as CaCO3		306
Each Sample	009	µg/L	Lead, Total	5	3
Each Sample	009	mg/L	Nitrate Nitrogen as N		0.42
Each Sample	009	mg/L	Nitrite Nitrogen as N		0.43
Each Sample	009	mg/L	Oil & Grease		< 1.4
Each Sample	009	s.u.	pH		7.33
Each Sample	009	mg/L	Phosphorus		0.19
Each Sample	009	µg/L	Residual Chlorine, Total	20	NA
Each Sample	009	µmhos	Specific Conductance		3028
Each Sample	009	mg/L	Surfactants		0.20
Each Sample	009	C	Temperature		22.66

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	009	mg/L	Total Kjeldahl Nitrogen		1.16
Each Sample	009	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	009	mg/L	Total Suspended Solids		10
Each Sample	009	µg/L	Zinc, Total	10	43

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report (ATMR) - PART 1

FACILITY NAME: <u>Town of Stamford MS4</u>	PIPE: <u>CT0030279 DSN-010</u>
RECEIVING WATER: <u>Greenwich Cove</u>	WATERBODY ID: <u>7000-44</u>

TOXICITY LIMIT:	CTC = NA	LC ₅₀ ≥	ALT NA
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SAMPLE INFORMATION

Sample Type	Composite		Grab
Collection Dates (mm/dd/yy)	From: 8/13/14	To: 8/13/14	
Collection Times (am/pm)	From: 11:23 am	To: 12:08 am	
Total Flow (sample day)	NA gpd		gpd

TOXICITY TEST SUMMARY

TEST DATE (mm/dd/yy)	From: 8/14/14	To: 8/16/14
TEST SPECIES	<i>Daphnia pulex</i>	
SURVIVAL IN 100%	%	%
SURVIVAL IN NA (CTC)	%	%
LC50	>100 %	>100 %
NOAEL	%	%
COMPLIANCE (P/F)		

STATEMENT OF ACKNOWLEDGEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

ERNIE ORGERA
Authorized Official:

Title: DIRECTOR OF OPERATIONS

Signature:

Date:

9/25/2014

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Anchor Engineering ISS-10-20140813	
Date/Time Begin: 8/14/14 @ 1503	Date/Time End: 8/16/14 @ 1436
Sample Hardness (mg/L): 46	Sample Conductivity (µS): 218
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	4	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 2	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 3	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
CONTROL 4	5	5	5	9.6	9.4	8.8	20	19	19	7.3	7.6	7.5
6.25% A	5	5	5	9.3	9.2	8.8	20	19	19	7.6	7.6	7.2
6.25% B	5	5	5	9.3	9.2	8.8	20	19	19	7.6	7.6	7.2
6.25% C	5	5	5	9.3	9.2	8.8	20	19	19	7.6	7.6	7.2
6.25% D	5	5	5	9.3	9.2	8.8	20	19	19	7.6	7.6	7.2
12.5% A	5	5	5	9.2	9.2	8.9	20	19	19	7.6	7.5	7.2
12.5% B	5	5	5	9.2	9.2	8.9	20	19	19	7.6	7.5	7.2
12.5% C	5	5	5	9.2	9.2	8.9	20	19	19	7.6	7.5	7.2
12.5% D	5	5	5	9.2	9.2	8.9	20	19	19	7.6	7.5	7.2
25% A	5	5	5	9.3	9.2	8.9	20	19	19	7.6	7.5	7.2
25% B	5	5	5	9.3	9.2	8.9	20	19	19	7.6	7.5	7.2
25% C	5	5	5	9.3	9.2	8.9	20	19	19	7.6	7.5	7.2
25% D	5	5	5	9.3	9.2	8.9	20	19	19	7.6	7.5	7.2
50% A	5	5	5	9.5	9.1	8.8	20	19	19	7.6	7.5	7.2
50% B	5	5	5	9.5	9.1	8.8	20	19	19	7.6	7.5	7.2
50% C	5	5	5	9.5	9.1	8.8	20	19	19	7.6	7.5	7.2
50% D	5	5	5	9.5	9.1	8.8	20	19	19	7.6	7.5	7.2
100% A	5	5	5	9.4	9.0	8.9	20	19	19	7.4	7.4	7.2
100% B	5	5	5	9.4	9.0	8.9	20	19	19	7.4	7.4	7.2
100% C	5	5	5	9.4	9.0	8.9	20	19	19	7.4	7.4	7.2
100% D	5	5	5	9.4	9.0	8.9	20	19	19	7.4	7.4	7.2
LC50 (%)		>100%	>100%	Method: EPA-821-R-02-012								

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO ₃ # 14-0102-013	NEB	2.259 µg/L

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-012-013	NEB	2.259µg/L

<u>COMMENTS <i>Daphnia pulex</i></u>	
Laboratory Name:	New England Bioassy

REFERENCE TOXICANT RESULTS				
SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC ₅₀
<i>Daphnia pulex</i>	8/1/14	CuNO3#14-012-013	NEB	2.259µg/L

<u>COMMENTS</u>	
Laboratory Name:	New England Bioassy

SUPPLEMENTAL CHEMISTRY - PART 2S

Facility Name:	<u>Town of Stamford MS4</u>	NPDES ID:CT0030279 <u>DSN-010</u>
Receiving Water:	<u>Greenwich Cove</u>	Waterbody ID: <u>7000-44</u>
Sample Collection Date(s):	<u>8/13/14</u>	
Sample Collection Time: FROM:	<u>11:23 am</u> (AM/PM)	TO: <u>12:08 am</u> (AM/PM)

Effluent Sample at Arrival

Parameter	Effluent Sample	
	Time	15:03
Temperature		6
pH		7.4
Alkalinity		N/A
Conductivity		218
Hardness/Salinity		46
TRC		N/A

100% Test Sample

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		218	N/A	
Alkalinity		N/A	N/A	
Hardness / Salinity		46	N/A	
TRC		N/A	N/A	

0% Test Sample (Control)

Parameter	<i>Daphnia pulex</i>			
	Hours	Initial (00)	Final (48)	
Conductivity		189	185	
Alkalinity		35	35	
Hardness / Salinity		46 / <1	48 / <1	
TRC		<0.02	<0.02	

Laboratory Name:

New England Bioassy

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 3

NPDES Permit: CT0030279, DSN-010	Exp: 6/3/2018	Phone ¹ : (203)977-5281
Facility: Town of Stamford MS4	Contact: Tyler Theder	Phone ² :
Address: Office of Operations 888 Washington Boulevard	Town: Stamford	Zip: 06901

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Sample Date: 8/13/14 Sample Day s Flow: NA WET-SPRING WET- SUM DRY-SUM
WET -FALL

REPEAT MONTH:

<u>FREQUENCY</u>	<u>DSN#</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	010	mg/L	Ammonia Nitrogen as N		0.18
Each Sample	010	mg/l	Biochemical Oxygen Demand		< 4.0
Each Sample	010	mg/L	Chemical Oxygen Demand		29
Each Sample	010	mg/L	Chlorides		36.7
Each Sample	010	µg/L	Copper, Total	5	16
Each Sample	010	mg/L	Dissolved Oxygen		5.53
Each Sample	010	col/100 ml	Enterococci		>2000
Each Sample	010	col/100ml	Escherichia coli		>600
Each Sample	010	col/100 mL	Fecal Coliform		>2000
Each Sample	010	mg/L	Hardness as CaCO3		50.0
Each Sample	010	µg/L	Lead, Total	5	5
Each Sample	010	mg/L	Nitrate Nitrogen as N		0.32
Each Sample	010	mg/L	Nitrite Nitrogen as N		0.32
Each Sample	010	mg/L	Oil & Grease		< 1.4
Each Sample	010	s.u.	pH		6.10
Each Sample	010	mg/L	Phosphorus		0.14
Each Sample	010	µg/L	Residual Chlorine, Total	20	NA
Each Sample	010	µmhos	Specific Conductance		238
Each Sample	010	mg/L	Surfactants		0.17
Each Sample	010	C	Temperature		22.67

Aquatic Toxicity Monitoring Report - PART 3

<u>FREQUENCY</u>	<u>MONLOC</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>MINIMUM LEVEL</u>	<u>RESULT</u>
Each Sample	010	mg/L	Total Kjeldahl Nitrogen		0.91
Each Sample	010	mg/L	Total Petroleum Hydrocarbons		< 1.4
Each Sample	010	mg/L	Total Suspended Solids		12
Each Sample	010	µg/L	Zinc, Total	10	45

APPENDIX J
STORMWATER OUTFALL MONITORING REPORTS – 2012



FUSS & O'NEILL
Disciplines to Deliver

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	<u>Location ID</u>
Sample #: 1242140813-01	SAMPLE LOCATION #1

Sample Location Info

Special Instructions:
End of Shippin Avenue discharging into Long Island Sound

Sample Data

Date: <u>August 13, 2014</u> Time: <u>03:42</u> Sampler: <u>Joshua Gemmell</u> Weather: <u>Rain, 66°F</u> Estimated Flow Rate (GPM): <u>50 gpm</u> Stagnant / Dry / Other: _____ Appearance: <u>Clear, no solids</u> Comments: _____	<table border="1"> <thead> <tr> <th>Container</th> <th>Quantity</th> <th>Preservative</th> </tr> </thead> <tbody> <tr> <td>32 oz. Amber</td> <td>1</td> <td>H2SO4</td> </tr> <tr> <td>500 mL Plastic</td> <td>2</td> <td>As Is</td> </tr> <tr> <td>250 mL Plastic</td> <td>1</td> <td>H2SO4</td> </tr> <tr> <td>250 mL Plastic</td> <td>1</td> <td>HNO3</td> </tr> <tr> <td>100 mL Plastic</td> <td>2</td> <td>As Is</td> </tr> </tbody> </table>	Container	Quantity	Preservative	32 oz. Amber	1	H2SO4	500 mL Plastic	2	As Is	250 mL Plastic	1	H2SO4	250 mL Plastic	1	HNO3	100 mL Plastic	2	As Is
Container	Quantity	Preservative																	
32 oz. Amber	1	H2SO4																	
500 mL Plastic	2	As Is																	
250 mL Plastic	1	H2SO4																	
250 mL Plastic	1	HNO3																	
100 mL Plastic	2	As Is																	

Field Parameters

Parameter	Instrument	Value
pH	YSI 63	6.91 SU
Temperature	YSI 63	69.2°F
rain pH	YSI 63	6.84 SU

Comments:

Discharge began approximately ~~04:00~~ ^{02:00} on 08/13/14.

Quantity of rainfall for event => ~~1.37"~~ ^{1.37"}

Previous Rainfall => 0.67" on 08/03/14

* Precipitation data provided by Stamford WPCA

**FUSS & O'NEILL***Disciplines to Deliver*

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	<u>Location ID</u>
Sample #: 1242140813-02	SAMPLE LOCATION #2

Sample Location Info

Special Instructions:

East side of Rippowam River near intersection of Cold Spring Road and Stillwater Road.

Sample Data

Date: <u>August 13, 2014</u> Time: <u>03:46</u> Sampler: <u>Joe Mingrone</u> Weather: <u>Rain, 65°F</u> <u>Christina Vinnitsky, Fuss & O'Neill</u>	Container 32 oz. Amber 500 mL Plastic 250 mL Plastic 250 mL Plastic 100 mL Plastic	Quantity 1 2 1 1 2	Preservative H2SO4 As Is H2SO4 HNO3 As Is
Estimated Flow Rate(GPM): <u>20 gpm</u> Stagnant / Dry / Other: _____			
Appearance: <u>Clear, no dark ss</u>			
Comments:			

Field Parameters

Parameter	Instrument	Value
pH	10E100334	8.69 SU
Temperature	10E100334	20.2°C
rain pH	10E100334	6.84 SU

Comments:

Discharge began approximately 02:00 on 08/13/14,
 Quantity of rainfall for event \Rightarrow ~~1.37"~~ 1.37"
 Previous Rainfall \Rightarrow 0.67" on 08/12/14
 * Precipitation info provided by Stamford WPCA

**FUSS & O'NEILL***Discipline to Deliver*

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	<u>Location ID</u>
Sample #: D42140813-03	SAMPLE LOCATION #3

Sample Location Info

Special Instructions:

East side of Rippowam River along southbound stretch of Washington Boulevard. Discharge opposite Fourth Street.

Sample Data

Date: <u>August 13, 2014</u> Time: <u>04:15</u> Sampler: <u>Joey Mingers</u> Weather: <u>65°F, Rain</u> <u>Christian Warkshy, Fuss & O'Neill</u>	32 oz. Amber 500 mL Plastic 250 mL Plastic 250 mL Plastic 100 mL Plastic	1 2 1 1 2	H2SO4 As Is H2SO4 HNO3 As Is
Estimated Flow Rate (GPM) <u>2,000 gpm</u> Stagnant / Dry / Other _____			
Appearance: <u>Slightly brownish, odorless</u> Comments:			

Field Parameters

Parameter	Instrument	Value
pH	10E100334	7.2450
Temperature	↓	20.3°C
rain pH	↓	6.8450

Comments:

Discharge began approximately 02:00 on 08/13/14.
 Quantity of rainfall for event => ~~1.37"~~ 1.37"
 Previous rainfall => 0.67" on 08/12/14
 * Precipitation info provided by Stamford WPCA

**FUSS & O'NEILL***Discipline to Deliver*

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	Location ID
Sample #: 1242140813-04	SAMPLE LOCATION #4

Sample Location Info

Special Instructions: End of Division Street discharging into east side of Rippowam River.

Sample Data

Date: <u>August 13, 2014</u> Time: <u>04:06</u> Sampler: <u>Jordan Gemmell, Fuss & O'Neill</u> Weather: <u>Rain, 66°F</u>	Container 32 oz. Amber 500 mL Plastic 250 mL Plastic 250 mL Plastic 100 mL Plastic	Quantity 1 2 1 1 2	Preservative H2SO4 As Is H2SO4 HNO3 As Is
Estimated Flow Rate(GPM) <u>20 gpm</u> Stagnant / Dry / Other <u>✓</u>			
Appearance: <u>Clear, no solids</u> Comments:			

Field Parameters

Parameter	Instrument	Value
pH	YSI 63	6.51 SU
Temperature	YSI 63	68.9°F
rain pH	YSI 63	6.84 SU

Comments:

Discharge began approximately 07:00 on 08/13/14,

Quantity of rainfall for event \Rightarrow ~~1.37"~~ 1.37"

Previous Rainfall \Rightarrow 0.67" on 08/07/14

* Precipitation info provided by Stamford WPCA

**FUSS & O'NEILL***Disciplines to Deliver*

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	Location ID
Sample #: 1242 140813-05	SAMPLE LOCATION #5

Sample Location Info

Special Instructions:

End of Poplar Street, discharging into west side of Noroton River.

Sample Data

Date: <u>August 13, 2014</u> Time: <u>04:45</u> Sampler: <u>Joe Miraflore</u> Weather: <u>65°F, Rain</u> <u>Christopher Hardsy, Fuss & O'Neill</u>	Container 32 oz. Amber 500 mL Plastic 250 mL Plastic 250 mL Plastic 100 mL Plastic	Quantity 1 2 1 1 2	Preservative H2SO4 As Is H2SO4 HNO3 As Is
Estimated Flow Rate(GPM) <u>40 gpm</u> Stagnant / Dry / Other _____			
Appearance: <u>Slightly brownish, odorless</u> Comments:			

Field Parameters

Parameter	Instrument	Value
pH	10E100334	7.00 SU
Temperature	↓	20.8°C
rain pH		6.84 SU

Comments:

Discharge began approximately 02:00 on 08/13/14,
 Quantity of rainfall for event => ~~1.37~~ 1.37"
 Previous rainfall => 0.67" on 08/02/14
 * Precipitation info provided by Stamford WPCA

**FUSS & O'NEILL***Discipline to Deliver*

Stormwater Field Data Sheet

Client/Project Name: Stamford MS4 Stormwater Sampling	Project #: 20050296.A56
Project Location: Stamford, CT	<u>Location ID</u>
Sample #: 1242140813-06	SAMPLE LOCATION #6

Sample Location Info

Special Instructions:

Located at Selleck Street opposite Harvard Avenue. Access manhole near lightpole at corner of Entenmann's Distribution Center.

Sample Data

Date: <u>August 13, 2014</u> Time: <u>04:35</u> Sampler: <u>Joshua Gemmell, Fuss & O'Neill</u> Weather: <u>Rain, 66°F</u>	Container 32 oz. Amber 500 mL Plastic 250 mL Plastic 250 mL Plastic 100 mL Plastic	Quantity 1 2 1 1 2	Preservative H2SO4 As Is H2SO4 HNO3 As Is
Estimated Flow Rate (GPM) <u>15 gpm</u> Stagnant / Dry / Other _____			
Appearance: <u>Clear, no solids</u> Comments:			

Field Parameters

Parameter	Instrument	Value
pH	YSI 63	7.57 SU
Temperature	YSI 63	69.5°F
rain pH	YSI 63	6.84 SU

Comments:

Discharge began approximately 02:00 on 08/13/14

Quantity of rainfall Prevented \Rightarrow ~~1.37"~~ 1.37"
 Previous Rainfall \Rightarrow 0.67" on 08/03/14
 * Precipitation info provided by Stamford WRA



FUSS & O'NEILL

(860) 646-2469 • www.fandO.com

- ☐ 146 Hartford Road, Manchester, CT 06040
- ☒ 56 Quarry Road, Trumbull, CT 06611
- ☐ 1419 Richland Street, Columbia, SC 29201

- ☐ 78 Interstate Drive, West Springfield, MA 01089
- ☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY

CHAIN-OF-CUSTODY RECORD

32362

Turnaround

- ☐ 24 Hour* ☐ 72 Hour* ☐ Other _____ (days)
- ☐ 48 Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME:

City of Stamford MS4 Sampling Stamford, CT

REPORT TO:

Jonathan Curran, Fuss and O'Neill

INVOICE TO:

Same as above

P.O. No.:

20050296 A56

Sampler's Signature:

Jonathan Curran Date: 08/13/14

Source Codes:

MW=Monitoring Well PW=Portable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other

PROJECT LOCATION

PROJECT NUMBER

20050296 A56

Analysis Request

Containers

EML

Soil VOA Vial, □ methanol	Other: Plastic VOA Vial, □ As is	Plastic - As is, □ As is	Plastic - H ₂ SO ₄ , □ 250 ml	Plastic - HNO ₃ , □ 250 ml	Plastic - NaOH, 250 ml
Glass VOA Vial, □ water	Other: Glass VOA Vial, □ As is	Glass - As is, □ As is	Glass - H ₂ SO ₄ , □ 250 ml	Glass - HNO ₃ , □ 250 ml	Glass - NaOH, 250 ml
Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz
Soil VOA Vial, □ methanol	Other: Plastic VOA Vial, □ As is	Plastic - As is, □ As is	Plastic - H ₂ SO ₄ , □ 250 ml	Plastic - HNO ₃ , □ 250 ml	Plastic - NaOH, 250 ml
Glass VOA Vial, □ water	Other: Glass VOA Vial, □ As is	Glass - As is, □ As is	Glass - H ₂ SO ₄ , □ 250 ml	Glass - HNO ₃ , □ 250 ml	Glass - NaOH, 250 ml
Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz	Other: Glass Soil Container () oz

Item No.	Transfer Check	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request	Containers	Comments
01	1	1242140813-01	ST	8/13/14	03:42	X	100-1	
02	1	1242140813-02	↑	↑	03:40	X	100-1	
03	1	1242140813-03	↑	↑	04:15	X	100-1	
04	1	1242140813-04	↑	↑	04:06	X	100-1	
05	1	1242140813-05	↑	↑	04:15	X	100-1	
06	1	1242140813-06	↑	↑	04:35	X	100-1	
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Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions:	CT Tax Exempt	QA/QC	Other	Reporting and Detection Limit Requirements:	RCP Deliverables	MCP CAM Cert.
1	<i>Jonathan Curran</i>	<i>Jonathan Curran</i>	8/13/14	9:15	<input type="checkbox"/> Duplicates	<input type="checkbox"/> Blanks	<input type="checkbox"/> Item Nos.	<input type="checkbox"/> Other	<input type="checkbox"/> RCP Deliverables	<input type="checkbox"/> MCP CAM Cert.	
2											
3											
4											

Additional Comments:

CET Quote # 042414

MAYOR
DAVID MARTIN

DIRECTOR OF OPERATIONS
ERNEST ORGERA



CITY OF STAMFORD
OFFICE OF OPERATIONS
HIGHWAY DEPARTMENT

TRAFFIC & ROAD MAINTENANCE SUPERVISOR
THOMAS TURK

REGULATORY COMPLIANCE OFFICER

TYLER THEDER
OPERATIONS SUPERVISOR
DOUGLAS HOYT

OPERATIONS SUPERVISOR
PETER J. IANNACCONE

OPERATIONS FOREMAN
JOHN CORNELIO

September 11, 2014

Mr. Christopher O. Stone, PE
Bureau of Materials Management and Compliance Assurance
Connecticut Department of Energy and Environmental Protection
79 Elm St.
Hartford, CT 06106-5127

**Re: Stormwater Monitoring Results for 2012 from six (6) Outfalls per NPDES Permit No. CT0030279,
Issued March 18, 2005**

Mr. Stone,

Enclosed please find the completed 2012 NPDES Discharge Monitoring Reports (DMRs) for outfall sampling at six (6) locations associated with the City of Stamford MS4 Permit #0030279 issued March 18, 2005. The enclosed DMRs have been modified to cover the monitoring period 1/1/2012 through 12/31/2012. As you are aware, structural and leadership changes occurred within the Water Pollution Control Authority (WPCA) during this time period and the 2012 stormwater sampling was not completed. Therefore, the enclosed DMR's are being submitted to comply with requirements listed per Notice of Violation item 1(a) dated March 5, 2014. In order to remain consistent with previously submitted DMR's (2009 – 2011), Ernie Orgera, Director of Operations, has signed the forms as an authorized agent of the City of Stamford.

The storm event occurred on Wednesday, August 13, 2014. The storm began at approximately 1:45 pm and a collectable discharge was observed by 2:00 pm, at which time the sampling teams were dispatched. The quantity of rainfall for the event occurring on 8/13/14 was 1.37 inches, as provided by the Water Pollution Control Authority (WPCA). Additionally, Weather Underground (www.wunderground.com) data for the White Plains, NY weather station shows a total of 0.96 inches of precipitation occurred on 8/13/14. The previous storm event with a magnitude of >0.1 inch occurred on 8/2/14 with 0.67 inches of rainfall as measured by WPCA. Weather Underground measured the 8/2/14 storm event as 0.23 inches of rainfall in White Plains, NY. Please see attached forms, for your reference.

Due to the travel time accessing the sampling locations, two different sampling crews were dispatched to collect the samples within three (3) hours of the commencement of storm event discharge. Sample Collection times were as follows:

Location 001	3:42PM	Crew #1
Location 002	3:40PM	Crew #2
Location 003	4:15PM	Crew #2
Location 004	4:06PM	Crew #1
Location 005	4:45PM	Crew #2
Location 006	4:35PM	Crew #1

Please don't hesitate to contact me if you have any questions or concerns.

Sincerely,



9/11/2014

Tyler L. Theder
Regulatory Compliance and Administrative Officer

Cc: Thomas Turk, Ernie Orgera, Margarita Arenas

Discharge Analysis Summary - 2012 Sampling Data

City of Stamford (MS4)

Permit Number: CT0030279 issued March 18, 2005

Discharge Serial Number:

001-1	002-1	003-1	004-1	005-1	006-1
-------	-------	-------	-------	-------	-------

discharge enters surface water
through a municipal storm sewer:

✓	✓	✓	✓	✓	✓
---	---	---	---	---	---

surface water body discharge enters:

LIS	Rippowam River	Rippowam River	Rippowam River	Noroton River	Stamford Harbor
-----	-------------------	-------------------	-------------------	------------------	--------------------

Permit Parameter	Method #	Lab
BODs (mg/L)	SM 5210 B	CET
COD (mg/L)	EPA410.4	CET
TSS (mg/L)	SM 2540 D	CET
nitrate (mg/L)	EPA300.0	CET
TKN (mg/L)	EPA351.2	CET
total P (mg/L)	EPA365.4	CET
oil & grease (mg/L)	EPA1664A	CET
Cd (mg/L)	EPA200.7	CET
Cu (mg/L)	EPA200.7	CET
Pb (mg/L)	EPA200.7	CET
Zn (mg/Kg)	EPA200.7	CET
pH (S.U.)		Fuss & Oneill
hardness as CaCO3 (mg/L)	EPA200.7	CET
temperature (deg C)		Fuss & Oneill
aquatic toxicity (LC50)	EPA-821-R-02	CET
fecal coliform (col/100 mL)	SM9222D	CET
enterococci (col/100 mL)	EPA1600	CET

2012 "makeup" samples collected August 13, 2014

CET Lab is Complete Environmental Testing, 80 Lupes Drive, Stratford CT 06615 203-377-9984

uncontaminated rain pH 6.84 S.U.

Discharge Analysis Summary - 2011

City of Stamford (MS4)
Existing Permit Number: CT0030279

Discharge Serial Number:

001-1	002-1	003-1	004-1	005-1	006-1
-------	-------	-------	-------	-------	-------

discharge enters surface water
through a municipal storm sewer:

✓	✓	✓	✓	✓	✓
---	---	---	---	---	---

surface water body discharge enters:

LIS	Rippowam River	Rippowam River	Rippowam River	Noroton River	Stamford Harbor
-----	----------------	----------------	----------------	---------------	-----------------

Permit Parameter	Method #	Lab
BODs (mg/L)	EPA405.1	WPCA
COD (mg/L)	EPA410.4	WPCA
TSS (mg/L)	EPA160.2	WPCA
nitrate (mg/L)	EPA353.2	WPCA
TKN (mg/L)	EPA351.2	WPCA
total P (mg/L)	EPA365.4	WPCA
oil & grease (mg/L)	EPA1664A	Phoenix
Cd (mg/L)	SW6010/EPA200.7	Phoenix
Cu (mg/L)	SW6010/EPA200.7	Phoenix
Pb (mg/L)	SW6010/EPA200.7	Phoenix
Zn (mg/Kg)	SW6010/EPA200.7	Phoenix
pH (S.U.)	EPA9040B	WPCA
hardness as CaCO3 (mg/L)	SW6010/EPA200.7	Phoenix
temperature (deg C)	EPA170.1	WPCA
aquatic toxicity (LC50)	EPA-821-R02-012	NEB
fecal coliform (col/100 mL)	SM9222D mFC	WPCA
enterococci (col/100 mL)	EPA1600 MEI	WPCA

notes: NEB = New England Bioassay

location 002 outfall area under construction - no sample - could not find outfall

uncontaminated rain pH 5.6 S.U. Cd <0.001mg/L Cu 0.036mg/L Pb <0.002mg/L Zn 0.051mg/L Se <0.010mg/L

Discharge Analysis Summary - 2010

City of Stamford (MS4)
Existing Permit Number: CT0030279

Discharge Serial Number:

001-1	002-1	003-1	004-1	005-1	006-1
-------	-------	-------	-------	-------	-------

discharge enters surface water
through a municipal storm sewer:

✓	✓	✓	✓	✓	✓
---	---	---	---	---	---

surface water body discharge enters:

LIS	Rippowam River	Rippowam River	Rippowam River	Noroton River	Stamford Harbor
-----	----------------	----------------	----------------	---------------	-----------------

Permit Parameter	Method #	Lab
BODs (mg/L)	EPA405.1	WPCA
COD (mg/L)	EPA410.4	WPCA
TSS (mg/L)	EPA160.2	WPCA
nitrate (mg/L)	EPA353.2	WPCA
TKN (mg/L)	EPA351.2	WPCA
total P (mg/L)	EPA365.4	WPCA
oil & grease (mg/L)	EPA166.4	Phoenix
Cd (mg/L)	SW6010/EPA200.7	Phoenix
Cu (mg/L)	SW6010/EPA200.7	Phoenix
Pb (mg/L)	SW6010/EPA200.7	Phoenix
Zn (mg/Kg)	SW6010/EPA200.7	Phoenix
pH (S.U.)	EPA9040B	WPCA
hardness as CaCO3 (mg/L)	SW6010/EPA200.7	Phoenix
temperature (deg C)	EPA170.1	WPCA
aquatic toxicity (LC50)	EPA-821-R02-012	NEB
fecal coliform (col/100 mL)	SM922D mFC	WPCA
enterococci (col/100 mL)	EPA1600 MEI	WPCA

notes: NEB = New England Bioassay

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Discharge Analysis Summary - 2009

City of Stamford (MS4)
Existing Permit Number: CT0030279

101	102	103	104	105	106
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Discharge Serial Number:

discharge enters surface water

through a municipal storm sewer:

✓	✓	✓	✓	✓	✓
---	---	---	---	---	---

surface water body discharge enters:

LIS	Rippowam River	Rippowam River	Rippowam River	Noroton River	Stamford Harbor
-----	----------------	----------------	----------------	---------------	-----------------

Permit Parameter	Method #	Lab
BODs (mg/L)	EPA405.1	WPCA
COD (mg/L)	EPA410.4	WPCA
TSS (mg/L)	EPA160.2	WPCA
nitrate (mg/L)	EPA353.2	WPCA
TKN (mg/L)	EPA351.2	WPCA
total P (mg/L)	EPA365.4	WPCA
oil & grease (mg/L)	EPA1664A	Phoenix
Cd (mg/L)	SW6010/EPA200.7	Phoenix
Cu (mg/L)	SW6010/EPA200.7	Phoenix
Pb (mg/L)	SW6010/EPA200.7	Phoenix
Zn (mg/Kg)	SW6010/EPA200.7	Phoenix
pH (S.U.)	EPA9040B	WPCA
hardness as CaCO3 (mg/L)	SW6010/EPA200.7	Phoenix
temperature (deg C)	EPA170.1	WPCA
aquatic toxicity (LC50)	EPA821-R02-012	GZA
fecal coliform (col/100 mL)	SM9222D mFC	WPCA
enterococci (col/100 mL)	EPA1600 MEI	WPCA

notes:						no sample no discharge
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

001-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXX/XXXX~~ TO ~~XXXX/XXXX~~
01/01/2012 12/31/2012

Stormwater Location 1
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00011 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
BOD, 5-day, 20 deg. C	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00310 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
Oxygen demand, chem. (low level) (COD)	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00335 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
pH	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00400 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
Solids, total suspended	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00530 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
Oil & grease	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00556 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB
Nitrogen, nitrate total (as N)	*****	*****	*****	*****	*****	*****	NA	annual	GRAB
00620 10 Effluent Gross	*****	*****	*****	*****	*****	*****	NA	Annual	GRAB

I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, and my review of the information submitted, I declare that this document and all attachments are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the prohibition of fine and imprisonment for knowingly submitting false data.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Ernie Orgera, Director of Operations	203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER
	203	977-4141
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
MM/DD/YYYY		
9/10/2014		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

001-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 01/01/2012
~~XXXXXX~~ 12/31/2012

Stormwater Location 1
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Nitrogen, Kjeldahl, total (as N) 00625 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	< 1.0 Req. Mon. INST MAX	.....	Annual	GRAB
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	0.16 Req. Mon. INST MAX	.....	Annual	GRAB
Hardness, total (as CaCO3) 00900 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	11 Req. Mon. INST MAX	.....	Annual	GRAB
Cadmium, total (as Cd) 01027 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	< 0.005 Req. Mon. INST MAX	.....	Annual	GRAB
Copper, total (as Cu) 01042 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	< 0.04 Req. Mon. INST MAX	.....	Annual	GRAB
Lead, total (as Pb) 01051 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	< 0.013 Req. Mon. INST MAX	.....	Annual	GRAB
Zinc, total (as Zn) 01092 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	mg/L	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....	mg/L	< 0.02 Req. Mon. INST MAX	.....	Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		TELEPHONE 203-977-4141	DATE 9/10/2014
	AREA Code		NUMBER	MM/DD/YYYY MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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Tyler Theder

CT0030279
PERMIT NUMBER

001-1
DISCHARGE NUMBER


DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 01/01/2012 TO ~~XXXXXX~~ 12/31/2012

Stormwater Location 1
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Whole effluent toxicity	7100	%	NA	annual grab	grab
22414 10 Effluent Gross	%	Annual	Annual	GRAB
Enterococci	3464	cfu/100mL	NA	annual grab	grab
61211 10 Effluent Gross	#/100mL	Annual	Annual	GRAB
Coliform, fecal general	844	cfu/100mL	NA	annual grab	grab
74055 10 Effluent Gross	#/100mL	Annual	Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

CT0030279
PERMIT NUMBER

002-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

Stormwater Location 2
External Outfall

ATTN: ~~XXXXXX~~
Tyler Theder

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ TO ~~XXXXXX~~
01/01/2012 12/31/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	68.4	°F	NA	annual	grab
00011 10 Effluent Gross	Req. Mon. INST MAX	deg F		Annual	GRAB
BOD, 5-day, 20 deg. C	5.0	mg/L	NA	annual	grab
00310 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Oxygen demand, chem. (low level) (COD)	23	mg/L	NA	annual	grab
00335 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
pH	8.69	SU	NA	annual	grab
00400 10 Effluent Gross	Req. Mon. INST MAX	SU		Annual	GRAB
Solids, total suspended	10	mg/L	NA	annual	grab
00530 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Oil & grease	< 5.0	mg/L	NA	annual	grab
00556 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Nitrogen, nitrate total (as N)	0.25	mg/L	NA	annual	grab
00620 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and analyze the information submitted and that the information submitted is true and accurate. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Ernie Orgera, Director of Operations		203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

C.T0030279	002-1
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
XX/XX/XX	XX/XX/XX
FROM	TO
01/01/2012	12/31/2012

Stormwater Location 2
External Outfall

ATTN: ~~XXXXXX~~
Tyler Theder

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N) 00625 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Phosphorus, total (as P) 00665 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Hardness, total (as CaCO3) 00900 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Cadmium, total (as Cd) 01027 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Copper, total (as Cu) 01042 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Lead, total (as Pb) 01051 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab
Zinc, total (as Zn) 01092 10 Effluent Gross	MEASUREMENT	PERMIT REQUIREMENT							
	.....	.....	.....	.....	.....	mg/L	NA	annual	grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141	9/10/2014
TYPED OR PRINTED		AREA Code	NUMBER
			MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

002-1
DISCHARGE NUMBER


DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 01/01/2012 TO ~~XXXXXX~~ 12/31/2012

Stormwater Location 2
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Whole effluent toxicity	NA	annual	grab
22414 1 0 Effluent Gross	Req. Mon. VALUE	%		Annual	GRAB
Enterococci			
61211 1 0 Effluent Gross	2,780	CFU/100mL	NA	annual	grab
Coliform, fecal general	Req. Mon. INST MAX	#/100mL		Annual	GRAB
74055 1 0 Effluent Gross	816	CFU/100mL	NA	annual	grab
	Req. Mon. INST MAX	#/100mL		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141 AREA Code NUMBER	9/10/2014 MMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904
FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

003-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

Stormwater Location 3
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
XXXXXX TO XXXXXX
01/01/2012 12/31/2012

No Discharge ☐

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Temperature, water deg. fahrenheit	00011 10 Effluent Gross	.....	.....	.....	.....	68.5	°F	NA	annual	grab
BOD, 5-day, 20 deg. C	00030 10 Effluent Gross	.....	.....	.....	.....	6.2	mg/L	NA	annual	grab
Oxygen demand, chem. (low level) (COD)	00035 10 Effluent Gross	.....	.....	.....	.....	43	mg/L	NA	annual	grab
pH	00400 10 Effluent Gross	.....	.....	.....	.....	7.24	SU	NA	annual	grab
Solids, total suspended	00530 10 Effluent Gross	.....	.....	.....	.....	27	mg/L	NA	annual	grab
Oil & grease	00556 10 Effluent Gross	.....	.....	.....	.....	<5.0	mg/L	NA	annual	grab
Nitrogen, nitrate total (as N)	00620 10 Effluent Gross	.....	.....	.....	.....	0.35	mg/L	NA	annual	grab

I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete. I am submitting this information for public release, including the possibility of use and dissemination for law enforcement purposes.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Ernie Orgera, Director of Operations	203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER
		MMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

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Tyler Theoder

CT0030279
PERMIT NUMBER

003-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR


Stormwater Location 3
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
X0X0X0X0X 12/31/2012
FROM 01/01/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Nitrogen, Kjeldahl, total (as N) 00625 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.0	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Phosphorus, total (as P) 00665 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.28	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Hardness, total (as CaCO3) 00900 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	22	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Cadmium, total (as Cd) 01027 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.005	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Copper, total (as Cu) 01042 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.04	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Lead, total (as Pb) 01051 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.013	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB
Zinc, total (as Zn) 01092 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.036	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. INST MAX		Annual	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and analyze the information submitted and that this document and all attachments contain true, accurate, and complete information to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Emie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141 AREA Code NUMBER	9/10/2014 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904
FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theoder

CT0030279
PERMIT NUMBER

003-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 01/01/2012 ~~XXXXXX~~ 12/31/2012

Stormwater Location 3
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Whole effluent toxicity	NA	annual	grab
22414 10 Effluent Gross	NA	Annual	GRAB
Enterococci	NA	Annual	GRAB
61211 10 Effluent Gross	NA	Annual	GRAB
Coliform, fecal general	NA	Annual	GRAB
74055 10 Effluent Gross	NA	Annual	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who gathered the information, I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Emie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141 AREA Code NUMBER	9/10/2014 MMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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DMR Mailing ZIP CODE: 06904
MINOR

Stormwater Location 4
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
X/X/XX/XX X/X/XX/XX
01/01/2012 12/31/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Temperature, water deg. fahrenheit	NA	annual	grab
00011 1 0 Effluent Gross	NA	Annual	GRAB
BOD, 5-day, 20 deg. C	NA	annual	grab
00310 1 0 Effluent Gross	NA	Annual	GRAB
Oxygen demand, chem. (low level) (COD)	NA	annual	grab
00335 1 0 Effluent Gross	NA	Annual	GRAB
pH	NA	annual	grab
00400 1 0 Effluent Gross	NA	Annual	GRAB
Solids, total suspended	NA	annual	grab
00530 1 0 Effluent Gross	NA	Annual	GRAB
Oil & grease	NA	annual	grab
00556 1 0 Effluent Gross	NA	Annual	GRAB
Nitrogen, nitrate total (as N)	NA	annual	grab
00620 1 0 Effluent Gross	NA	Annual	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Emie Orgera, Director of Operations
TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
203-977-4141

DATE
9/10/2014

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

CT0030279	004-1
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 01/01/2012	TO 12/31/2012

Stormwater Location 4
External Outfall

ATTN: ~~XXXXXX~~
Tyler Theader

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N) 00625 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	<1.0	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	0.46	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Hardness, total (as CaCO3) 00900 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	150	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Cadmium, total (as Cd) 01027 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	<0.005	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Copper, total (as Cu) 01042 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	<0.04	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Lead, total (as Pb) 01051 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	<0.013	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB
Zinc, total (as Zn) 01092 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	0.054	mg/L	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141 AREA Code NUMBER	7/10/2014 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904
FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

004-1
DISCHARGE NUMBER


DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 01/01/2012 TO ~~XXXXXX~~ 12/31/2012

Stormwater Location 4
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Whole effluent toxicity 22414 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
Enterococci	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
61211 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
Coliform, fecal general	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
74055 1 0 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		TELEPHONE 203-977-4141	DATE 9/16/2014
			AREA Code	NUMBER
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)				

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

CT0030279	005-1
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904


MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
XXXXXX	XXXXXX
FROM	TO
01/01/2012	12/31/2012

Stormwater Location 5
External Outfall

ATTN: ~~XXXXXX~~
Tyler Theder

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	NA	annual	grab
00011 1 0 Effluent Gross	deg F	NA	Annual	GRAB
BOD, 5-day, 20 deg. C	mg/L	NA	annual	grab
00310 1 0 Effluent Gross	mg/L	NA	Annual	GRAB
Oxygen demand, chem. (low level) (COD)	mg/L	NA	annual	grab
00335 1 0 Effluent Gross	mg/L	NA	Annual	GRAB
pH	SU	NA	annual	grab
00400 1 0 Effluent Gross	SU	NA	Annual	GRAB
Solids, total suspended	mg/L	NA	annual	grab
00530 1 0 Effluent Gross	mg/L	NA	Annual	GRAB
Oil & grease	mg/L	NA	annual	grab
00556 1 0 Effluent Gross	mg/L	NA	Annual	GRAB
Nitrogen, nitrate total (as N)	mg/L	NA	annual	grab
00620 1 0 Effluent Gross	mg/L	NA	Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141	9/10/2014
TYPED OR PRINTED		AREA Code	NUMBER
			MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

005-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XXXXXX~~ 07/01/2012 TO ~~XXXXXX~~ 12/31/2012

Stormwater Location 5
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N) 00625 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<1.0	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	0.19	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Hardness, total (as CaCO3) 00900 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	23	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Cadmium, total (as Cd) 01027 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<0.005	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Copper, total (as Cu) 01042 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<0.04	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Lead, total (as Pb) 01051 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<0.013	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB
Zinc, total (as Zn) 01092 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	0.076	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. INST MAX	mg/L		Annual	GRAB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. I have reviewed this document and the information submitted and believe that this document is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Ernie Orgera, Director of Operations	203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER
		MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name & Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

005-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
XX/XX/XXXX TO XX/XX/XXXX
07/01/2012 12/31/2012

Stormwater Location 5
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Whole effluent toxicity	NA	annual	grab
22414 1 0 Effluent Gross	%	Annual	GRAB
Enterococci	CFU/100mL	annual	grab
61211 1 0 Effluent Gross	#/100mL	Annual	GRAB
Coliform, fecal general	CFU/100mL	annual	grab
74055 1 0 Effluent Gross	#/100mL	Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Ernie Orgera, Director of Operations	203-977-4141	9/10/2014
TYPED OR PRINTED	AREA Code	NUMBER
		MM/DD/YYYY

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

CT0030279
PERMIT NUMBER

006-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
XX/XX/XX XX/XX/XX
FROM 07/07/2012 TO 12/31/2012

Stormwater Location 6
External Outfall

ATTN: ~~XXXXXX~~
Tyler Theder

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Temperature, water deg. Fahrenheit	69.3	°F	NA	annual	grab
00011 10 Effluent Gross	Req. Mon. INST MAX	deg F		Annual	GRAB
BOD, 5-day, 20 deg. C	< 5.0	mg/L	NA	annual	grab
00310 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Oxygen demand, chem. (low level) (COD)	32	mg/L	NA	annual	grab
00335 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
pH	7.57	SU	NA	annual	grab
00400 10 Effluent Gross	Req. Mon. INST MAX	SU		Annual	GRAB
Solids, total suspended	5.0	mg/L	NA	annual	grab
00530 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Oil & grease	< 5.0	mg/L	NA	annual	grab
00556 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB
Nitrogen, nitrate total (as N)	< 0.10	mg/L	NA	annual	grab
00620 10 Effluent Gross	Req. Mon. INST MAX	mg/L		Annual	GRAB

I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, and my review of the information submitted, I am aware that there are significant deficiencies in the collection of information, and I am aware that there are significant penalties for submitting false information, including the prohibition of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Ernie Orgera, Director of Operations

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

203-977-4141

DATE

9/10/2014

NUMBER

MMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD,
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theader

CT0030279
PERMIT NUMBER

006-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 06904
MINOR

Stormwater Location 6
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
XXXXXX/XXXX TO XXXX/XXXX
01/01/2012 12/31/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N) 00625 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Phosphorus, total (as P) 00665 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Hardness, total (as CaCO3) 00900 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Cadmium, total (as Cd) 01027 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Copper, total (as Cu) 01042 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Lead, total (as Pb) 01051 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			
Zinc, total (as Zn) 01092 10 Effluent Gross	MEASUREMENT	.....	.....	.....	.....	mg/L	NA	annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	Req. Mon. INST MAX	mg/L			

I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who submitted this information and my examination of the information submitted, I declare that this information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT


TELEPHONE: 203-977-4141
DATE: 9/10/2014
NUMBER: MMDD/YYYY

TYPED OR PRINTED

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Ernie Orgera, Director of Operations

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: City of Stamford
ADDRESS: 888 Washington Boulevard
Stamford, CT 06904

FACILITY: CITY OF STAMFORD
LOCATION: 888 WASHINGTON BLVD.
STAMFORD, CT 06904

ATTN: ~~XXXXXX~~
Tyler Theder

CT0030279
PERMIT NUMBER

006-1
DISCHARGE NUMBER


DMR Mailing ZIP CODE: 06904
MINOR

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
~~XX/XX/XX~~ TO ~~XX/XX/XX~~
01/01/2012 12/31/2012

Stormwater Location 6
External Outfall

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Whole effluent toxicity	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
22414 10 Effluent Gross Enterococci	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
61211 10 Effluent Gross Coliform, fecal general	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....
74055 10 Effluent Gross	SAMPLE MEASUREMENT	.....	.....	.....	.....	.....	NA	Annual	grab
	PERMIT REQUIREMENT	.....	.....	.....	.....	.....

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ernie Orgera, Director of Operations TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		203-977-4141	9/10/2014
		AREA Code	NUMBER
			MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Stamford MS4 Stormwater Permit Sampling Locations

Page 1 of 3

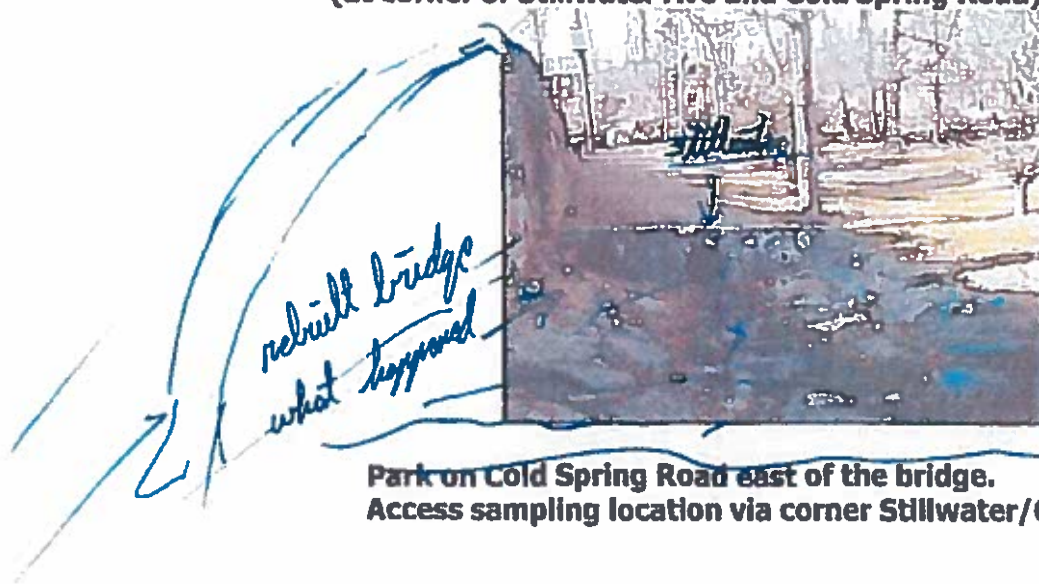
Storm drains representing residential areas:

- (1) end of Shippan Avenue discharging into Long Island Sound



Park on Shippan Ave at the very end of the street.
Access sampling location via stairway down to the beach.

- (2) Stillwater Avenue discharging to Rippowam River
(at corner of Stillwater Ave and Cold Spring Road)



Park on Cold Spring Road east of the bridge.
Access sampling location via corner Stillwater/Cold Spring.

Stamford MS4 Stormwater Permit Sampling Locations

Page 2 of 3

Storm drains from commercial areas:

- (3) Fourth Street discharging into the Rippowam River
(located on Washington Blvd opposite Fourth Street)



towards rocky bank

Park at very end of Fourth Street near Washington Blvd;
enter Fourth from Bedford or Summer Streets.
Access sampling location by crossing Washington Blvd;
locate elevated walkway area along river's edge.

- (4) Division Street discharging into the Rippowam River

Park at end of Division Street.
Access sampling location beyond guardrail at end of street.

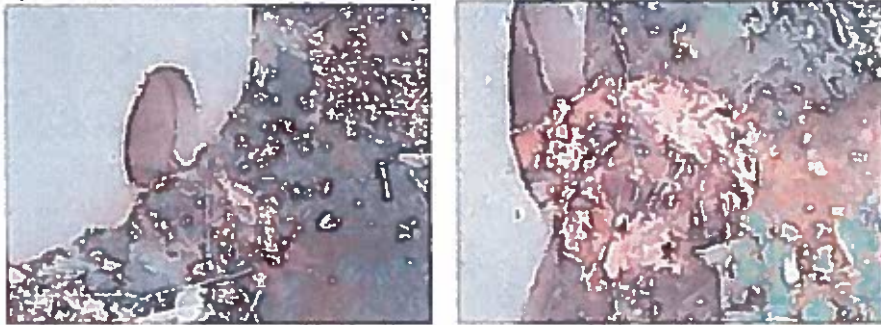


Stamford MS4 Stormwater Permit Sampling Locations

Page 3 of 3

Storm drains from industrial areas:

- (5) **Research Drive area discharging into Noroton River
(outfall located at end of Poplar St adjacent to Lesco Bldg)**



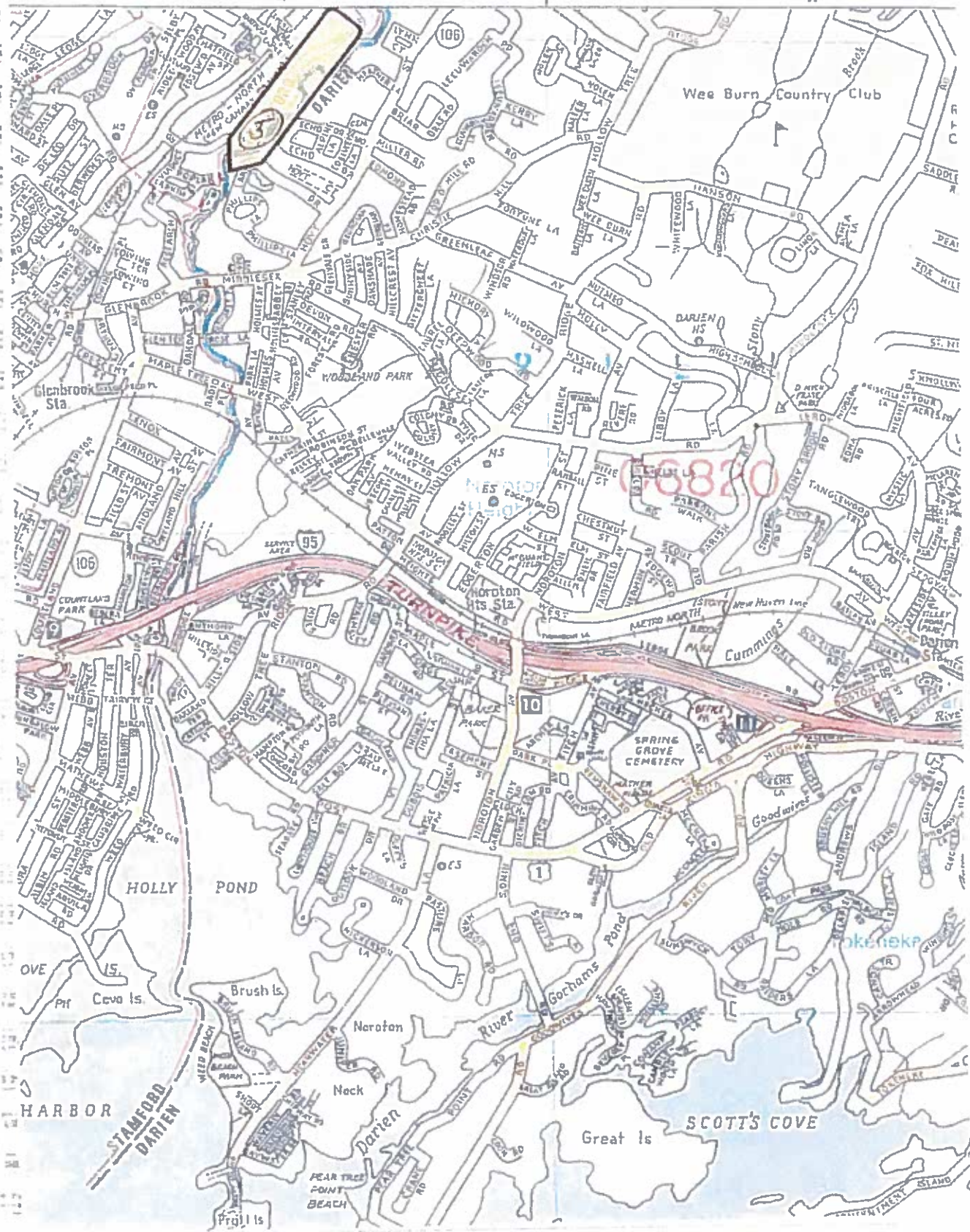
**Park near Lesco Bldg along river.
Access sampling location behind guardrail and shrubs.**

- (6) **West Avenue area discharging to Stamford Harbor
(location is at Selleck Street opposite Harvard Avenue)**



**Park in lot of Entenmann's Distribution Center.
Access manhole at corner of building near lightpole.**

H



~~CONFIDENTIAL~~



The information displayed on this map is for general reference only.
The data is not survey accurate. The City of Stamford assumes no legal
responsibility for the information contained herein.

#1

0 45 90 180
Feet

N



The information displayed on this map is for general reference only.
The data is not survey accurate. The City of Stamford assumes no legal
responsibility for the information contained herein.

2

0 45 90 180
Feet



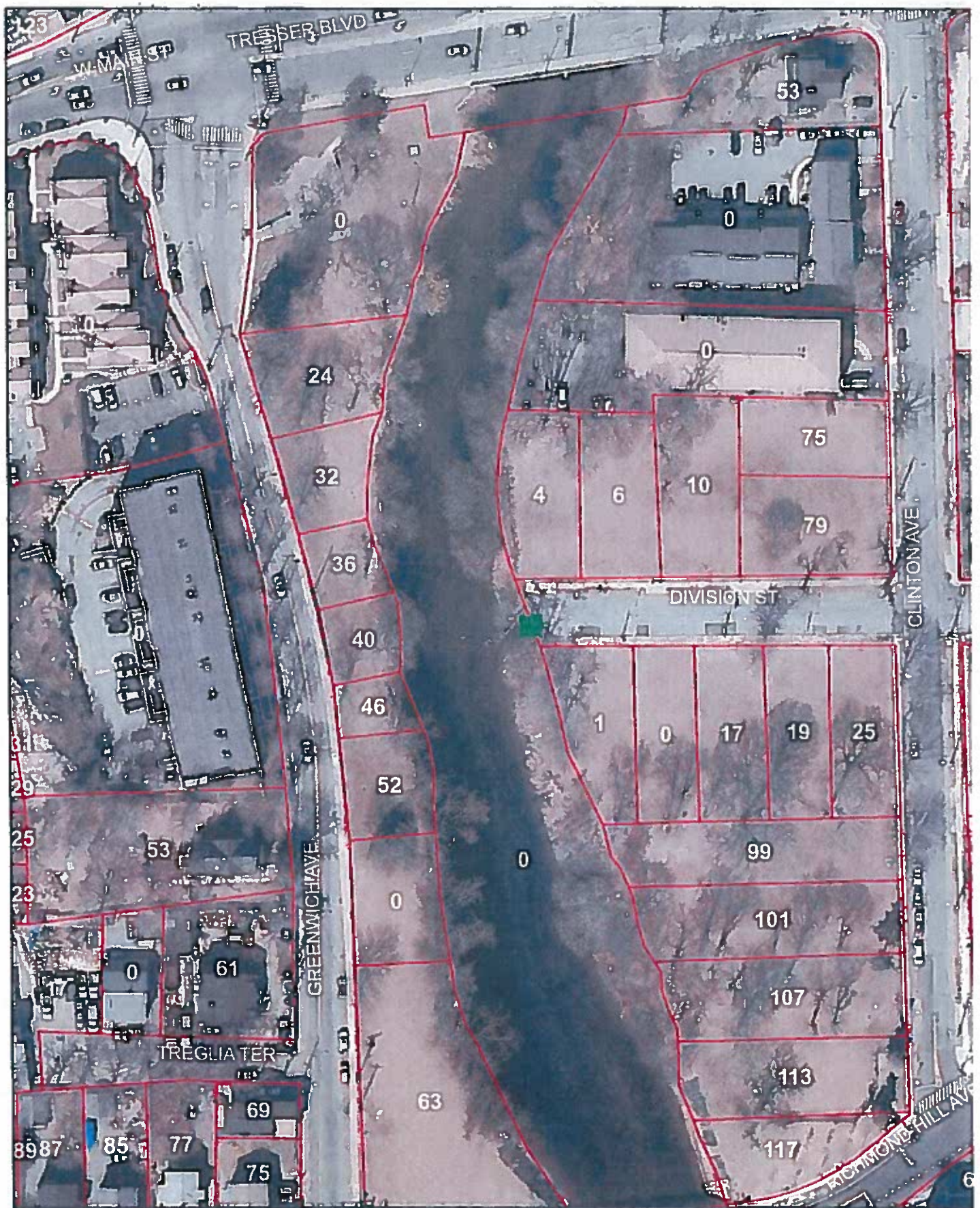


The information displayed on this map is for general reference only.
The data is not survey accurate. The City of Stamford assumes no legal
responsibility for the information contained herein.

#3

0 50 100 200
Feet





The information displayed on this map is for general reference only.
 The data is not survey accurate. The City of Stamford assumes no legal
 responsibility for the information contained herein.

#4

0 45 90 180
 Feet





The information displayed on this map is for general reference only.
The data is not survey accurate. The City of Stamford assumes no legal
responsibility for the information contained herein.

#5

0 35 70 140
Feet





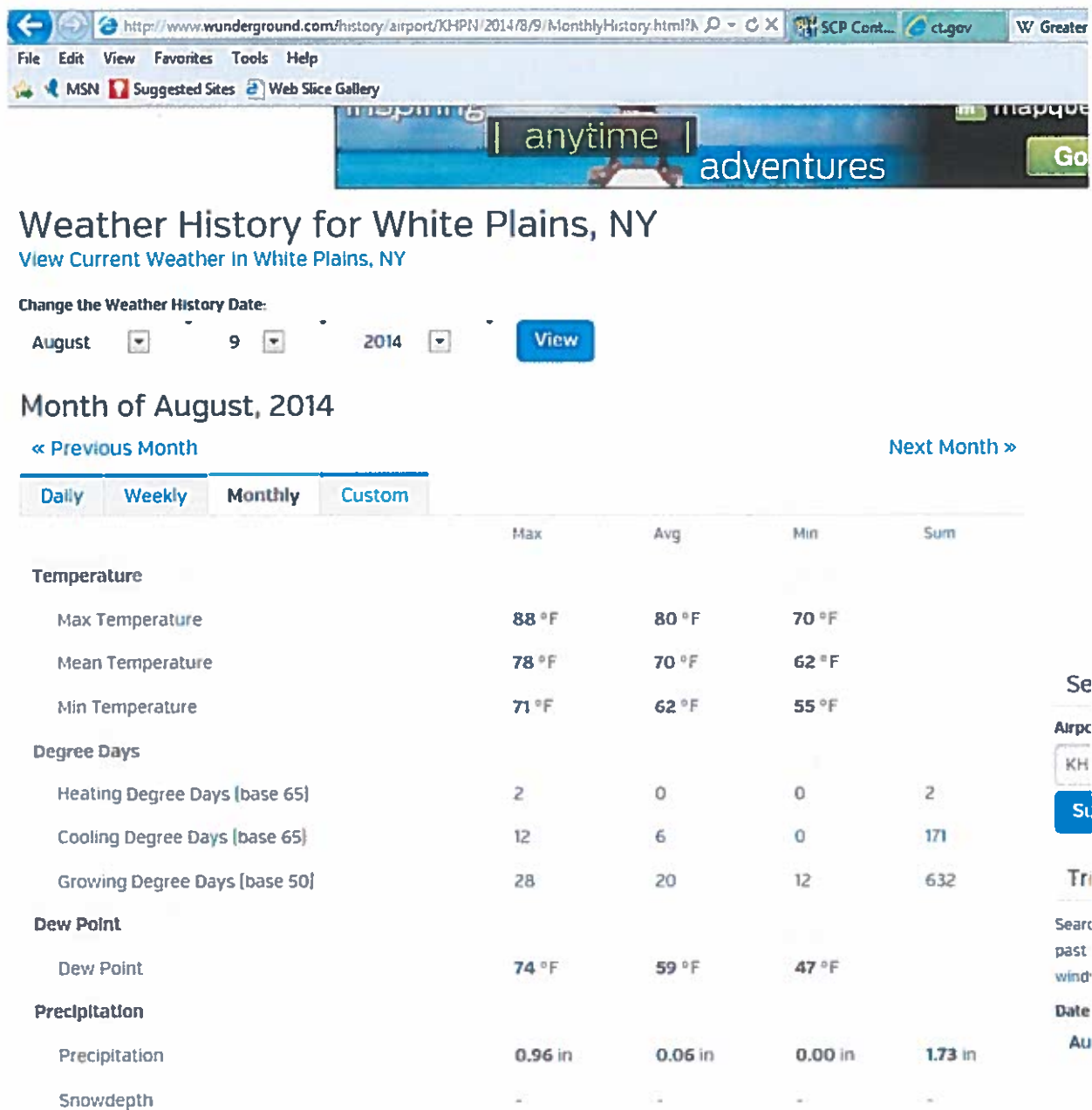
The information displayed on this map is for general reference only. The data is not survey accurate. The City of Stamford assumes no legal responsibility for the information contained herein.

#6

0 65 130 260 Feet



Theder, Tyler































Tyler L. Theder

Regulatory Compliance and Administrative Officer

City of Stamford

Office of Operations – Traffic and Road Maintenance | 90 Magee Ave | Stamford CT 06902 | t (203) 977-5281

Theder, Tyler

« Previous Month		« 2013		August 2014		2015 »		Next Month »	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
<div>3</div> <div></div> <div>Actual: 73 | 63</div> <div>Average: 80 | 63</div> <div>0.060.11</div>	<div>4</div> <div></div> <div>Actual: 82 | 66</div> <div>Average: 80 | 63</div> <div>0.000.10</div>	<div>5</div> <div></div> <div>Actual: 87 | 64</div> <div>Average: 80 | 63</div> <div>0.000.10</div>	<div>6</div> <div></div> <div>Actual: 82 | 64</div> <div>Average: 80 | 63</div> <div>0.000.10</div>	<div>7</div> <div></div> <div>Actual: 81 | 60</div> <div>Average: 80 | 63</div> <div>0.000.10</div>	<div>8</div> <div></div> <div>Actual: 80 | 57</div> <div>Average: 80 | 63</div> <div>0.000.10</div>	<div>9</div> <div></div> <div>Actual: 84 | 60</div> <div>Average: 80 | 63</div> <div>0.000.09</div>			
<div>10</div> <div></div> <div>Actual: 87 | 62</div> <div>Average: 80 | 63</div> <div>0.000.09</div>	<div>11</div> <div></div> <div>Actual: 84 | 62</div> <div>Average: 80 | 63</div> <div>0.000.09</div>	<div>12</div> <div></div> <div>Actual: 77 | 66</div> <div>Average: 80 | 63</div> <div>0.050.09</div>	<div>13</div> <div></div> <div>Actual: 79 | 64</div> <div>Average: 80 | 63</div> <div>0.960.09</div>	<div>14</div> <div></div> <div>Actual: 75 | 61</div> <div>Average: 79 | 62</div> <div>0.000.09</div>	<div>15</div> <div></div> <div>Actual: 70 | 55</div> <div>Average: 79 | 62</div> <div>0.000.09</div>	<div>16</div> <div></div> <div>Actual: 77 | 59</div> <div>Average: 79 | 62</div> <div>0.000.09</div>			
<div>17</div> <div></div> <div>Actual: 80 | 62</div> <div>Average: 78 | 62</div> <div>0.000.09</div>	<div>18</div> <div></div> <div>Actual: 77 | 55</div> <div>Average: 78 | 61</div> <div>0.000.09</div>	<div>19</div> <div></div> <div>Actual: 79 | 60</div> <div>Average: 78 | 61</div> <div>0.000.09</div>	<div>20</div> <div></div> <div>Actual: 82 | 63</div> <div>Average: 78 | 61</div> <div>0.000.09</div>	<div>21</div> <div></div> <div>Actual: 80 | 66</div> <div>Average: 78 | 61</div> <div>0.070.09</div>	<div>22</div> <div></div> <div>Actual: 73 | 64</div> <div>Average: 77 | 61</div> <div>0.030.09</div>	<div>23</div> <div></div> <div>Actual: 75 | 64</div> <div>Average: 77 | 61</div> <div>0.000.09</div>			
<div>24</div> <div></div> <div>Actual: 77 | 57</div> <div>Average: 77 | 61</div> <div>0.000.09</div>	<div>25</div> <div></div> <div>Actual: 86 | 60</div> <div>Average: 77 | 60</div> <div>0.000.09</div>	<div>26</div> <div></div> <div>Actual: 86 | 64</div> <div>Average: 77 | 60</div> <div>0.000.09</div>	<div>27</div> <div></div> <div>Actual: 88 | 64</div> <div>Average: 76 | 60</div> <div>0.000.09</div>	<div>28</div> <div></div> <div>Actual: 80 | 62</div> <div>Average: 76 | 60</div> <div>0.000.09</div>	<div>29</div> <div></div> <div>Actual: 75 | 55</div> <div>Average: 76 | 59</div> <div>0.000.09</div>	<div>30</div> <div></div> <div>Actual: 77 | 57</div> <div>Average: 76 | 59</div> <div>0.000.09</div>			

Change zoom level

APPENDIX K

ANNUAL BUDGETS: 2013 – 2014 AND 2014 – 2015

2013-2014 CAPITAL BUDGET

City of Stamford

Adopted Capital Budget
Fiscal Year 2013-2014



Michael A. Pavia, Mayor

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Mayor
MICHAEL A. PAVIA



CITY OF STAMFORD
OFFICE OF THE MAYOR

STAMFORD GOVERNMENT CENTER
888 WASHINGTON BOULEVARD
P.O. BOX 10152
STAMFORD, CT 06901-2902

Phone: (203) 977-4150
FAX: (203) 977-5845
Email: mpavia@ci.stamford.ct.us

July 1, 2013

Members of the Board of Finance
Members of the Board of Representatives
Members of the Planning Board
Citizens of the City of Stamford

I am pleased to transmit the Adopted Capital Budget for the fiscal year commencing July 1, 2013 and ending June 30, 2014 along with the plan for capital spending over the succeeding six years. This budget represents the culmination of a Capital Budget submission and approval process that started back in August, 2012 and was completed in May, 2013.

This City of Stamford Capital Budget for the fiscal year beginning July 1, 2013, which includes all approved projects for both City departments and outside agencies, calls for \$38,065,098 in total capital spending, of which \$28,724,783 will be financed with tax supported General Obligation Bonds.

I want to thank the Planning Board for their efforts in developing their recommended Capital Budget and both the Board of Finance and Board of Representatives for their review and approval of this final Adopted Capital Budget.

Respectfully Submitted,

Michael Pavia
Mayor

Fiscal Year 2013/2014 Capital Budget

0211 Operations: Public Services - Traffic & Road Maintenance
CP3701-New STORM DRAIN CONVERSION AT CITY & TOWN YARD GARAGES

No Balance		Priority
		Dept 1
		Planning 1

381 Description - Reroute existing catch basins to tie into oil/water separators that run to sanitary lines so that vehicles can be washed outside without violating DEEP regulations. Current wash bays at both locations are not sufficient enough to handle the fleet during busy seasons.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Thomas Turk		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$5,000	Design	7/1/2013 7/30/2013	(203) 977-5919			
Construction Related	\$160,000	Implementation	8/1/2013 9/30/2013	tturk@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		City Garage and Town Yard Garage			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 13/14 Total	\$165,000						

Term	20							Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	165,000	0	0	0	0	0	165,000	0	0	0	0	0	0	165,000
Planning	165,000	0	0	0	0	0	165,000	0	0	0	0	0	0	165,000
Mayor	165,000	0	0	0	0	0	165,000	0	0	0	0	0	0	165,000
BOF	165,000	0	0	0	0	0	165,000	0	0	0	0	0	0	165,000
BOR	165,000	0	0	0	0	0	165,000	0	0	0	0	0	0	165,000

Reason for Project (if new)

DEEP regulations do not allow for any vehicles/equipment to be washed outside where the wash water would end up into the storm water system. With over 60 vehicles and 4 wash bays it is logistically very difficult to comply with the regulations especially during the busy seasons, leaf pick up, snow plowing etc.

Fiscal Year 2013/2014 Capital Budget

0211 Operations: Public Services - Traffic & Road Maintenance

NEW EQUIPMENT STORAGE CANOPY AT CITY GARAGE

No Balance

Priority

Dept 2

Planning

383 Description - Install a truss arch structure that will provide cover for the heavy equipment vehicles (40 plus) stored outside. This will extend the usage of all these vehicle by guarding them from rain, snow and sunshine that can decrease the life of the vehicle. The life expectancy of the structure is 45 years. It is rated for snow loads and 110 mile per hour winds.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Thomas Turk		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input checked="" type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	7/1/2013 9/1/2013	(203) 977-5919			
Construction Related	\$750,000	Implementation	10/1/2013 11/1/2013	tturk@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		City Garage @ 90 Magee Ave			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 13/14 Total	\$750,000						

Term	20							Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	750,000	0	0	0	0	0	750,000	0	0	0	0	0	0	750,000
Planning	0	0	0	0	0	0	0	750,000	0	0	0	0	0	750,000
Mayor	0	0	0	0	0	0	0	750,000	0	0	0	0	0	750,000
BOF	0	0	0	0	0	0	0	750,000	0	0	0	0	0	750,000
BOR	0	0	0	0	0	0	0	750,000	0	0	0	0	0	750,000

Reason for Project (if new)

Comments - This is a simple and quick system that can be used to protect the multi-million dollar fleet of the Highway Department. Extending the life of the fleet would greatly reduce maintenance costs as well as new acquisition costs for replacement vehicles.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
C16012 CITY WIDE STORM DRAINS

Balance: \$390,809.49 as of 6/30/2013

Priority

Dept	6
Planning	2

19 Installation of storm drains, catch basins, and curbs.

Detail Project Cost		Project Schedule		Contact Info	Justification for Inclusion in Capital Plan
Effective Date		Start	End	Lou Casolo	<input checked="" type="checkbox"/> Life Safety
Design Development	\$0	Design		(203) 977-5796	<input checked="" type="checkbox"/> Continues On-Going Project
Construction Related	\$450,000	Implementation		lcasolo@ci.stamford.ct.us	<input type="checkbox"/> Leverages Other Funds
Equipment Acquisition	\$0	Project Location Citywide			<input checked="" type="checkbox"/> Infrastructure
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Quality of Life
Professional Services	\$0				<input type="checkbox"/> Plan Related
Land Acquisition	\$0	Method Used in Estimating Cost Engineering estimates and unit prices from recently bid projects.			<input checked="" type="checkbox"/> Public Safety Health
FY 13/14 Total	\$450,000				<input type="checkbox"/> Mandated Legal
					<input type="checkbox"/> Positive Revenue Impact
					<input type="checkbox"/> Positive Operational Impact/Efficiency
					<input type="checkbox"/> Other

Term	20						FY 13/14	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	450,000	0	0	0	0	0	450,000	500,000	500,000	500,000	500,000	500,000	500,000	3,450,000
Planning	450,000	0	0	0	0	0	450,000	450,000	450,000	450,000	450,000	450,000	450,000	3,150,000
Mayor	450,000	0	0	0	0	0	450,000	450,000	450,000	450,000	450,000	450,000	450,000	3,150,000
BOF	450,000	0	0	0	0	0	450,000	450,000	450,000	450,000	450,000	450,000	450,000	3,150,000
BOR	450,000	0	0	0	0	0	450,000	450,000	450,000	450,000	450,000	450,000	450,000	3,150,000

Reason for Project (if new)

Proposed FY13/14 projects at various locations including but not limited to investigation / design of drainage systems at Hope Street, Vanech Drive, Rachelle Ave.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
C56129 CITYWIDE MANHOLE & BASIN

Balance: \$93,822.08 as of 6/30/2013

Priority

Dept	7
Planning	3

39 The City's road network contains more than 12,000 manholes and basins. These structures require periodic reconstruction and adjustment at an average cost between \$3,000 and \$6,000 per basin. This work is critical to protect the safety of the public and to maintain the City's investment in the infrastructure. City required to raise city owned structures when state roads are paved.

Detail Project Cost			Project Schedule		Contact Info		Justification for Inclusion in Capital Plan							
Effective Date			Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other							
Design Development	\$0		Design		(203) 977-5796									
Construction Related	\$600,000		Implementation	7/1/2013 6/30/2020	lcasolo@ci.stamford.ct.us									
Equipment Acquisition	\$0		Project Location Citywide											
Miscellaneous Costs	\$0		Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Professional Services	\$0		Method Used in Estimating Cost											
Land Acquisition	\$0		Current bid prices.											
FY 13/14 Total	\$600,000													

Term	20						Capital Forecast								
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total	
Dept	600,000	0	0	0	0	0	600,000	500,000	500,000	500,000	500,000	500,000	500,000	3,600,000	
Planning	300,000	0	0	0	0	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	3,300,000	
Mayor	300,000	0	0	0	0	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	3,300,000	
BOF	300,000	0	0	0	0	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	3,300,000	
BOR	300,000	0	0	0	0	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	3,300,000	

Reason for Project (if new)

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
CP0211 ENVIRONMENTAL COMPLIANCE

Balance: \$232,353.37 as of 6/30/2013

Priority

Dept	9
Planning	2

42 This program is required to investigate and assess and correct as necessary of drainage systems discharging into water body, rivers, ponds and etc. and to evaluate Public Services facilities and modify practices in compliance with state and federal regulations. Based upon the requirements set forth in the draft MS-4 permit, significant action is mandated by the CT DEEP.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$250,000	Implementation	7/1/2013 6/30/2020	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Various City locations			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Engineering estimates			
Land Acquisition	\$0						
FY 13/14 Total	\$250,000						

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
Planning	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
Mayor	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
BOF	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
BOR	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000

Reason for Project (if new)

This funding will be used to help Stamford comply with mandates imposed by both the state (DEEP) and federal government (EPA). Non-compliance can result in substantial fines being handed down to the City.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
CP1074 PINE HILL DRAINAGE

Balance: \$100,000.00 as of 6/30/2013

Priority

Dept	11
Planning	2

180 Upgrade existing storm drainage and reconstruct roadway from Hope Street westerly to Elmbrook Drive.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	12/1/2012 5/1/2013	(203) 977-5796			
Construction Related	\$200,000	Implementation	7/1/2013 12/31/2014	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Pine Hill Ave from Hope Street west to Elmbrook			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Estimate based upon unit prices from similar projects.			
Land Acquisition	\$0						
FY 13/14 Total	\$200,000						

Term	20						FY 13/14	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000
Planning	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000
Mayor	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000
BOF	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000
BOR	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000

Reason for Project (if new)

Complaints since 1994 regarding low area flooding and poor drainage.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
CP1075 SKYMEADOW DRIVE DRAINAGE IMPROVEMENT

Balance: \$150,000.00 as of 6/30/2013

Priority

Dept	3
Planning	1

120 Excessive roadway shoulder erosions due to lack of drainage structures. Drainage improvements of Skymeadow Drive from Skyline Lane to High Ridge Rd. and road paving from Scofieldtown Road to High Ridge Road.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	12/1/2012 5/31/2013	(203) 977-5796			
Construction Related	\$150,000	Implementation	7/1/2013 12/31/2013	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Skymeadow Drive from Skyline Ln. to High Ridge Rd.			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Engineering Estimates			
Land Acquisition	\$0						
FY 13/14 Total	\$150,000						

Term	20							Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
Planning	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
Mayor	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
BOF	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
BOR	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000

Reason for Project (if new)

Prepare final design and construct improvements including roadway, drainage and paving.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
CP1372 OAKDALE ROAD CULVERT AND CATCH BASINS

Balance: \$113,583.40 as of 6/30/2013

Priority

Dept	10
Planning	1

61 Replace deteriorated culverts (3-24 inches corrugated metal pipes)

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	12/1/2012 6/30/2013	(203) 977-5796			
Construction Related	\$100,000	Implementation	7/1/2013 12/31/2013	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location Oakdale Road					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Professional Services	\$0	Method Used in Estimating Cost		Engineering estimates			
Land Acquisition	\$0						
FY 13/14 Total	\$100,000						

Term	20						FY 13/14	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000
Planning	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000
Mayor	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000
BOF	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000
BOR	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000

Reason for Project (if new)

Culverts are deteriorating and catch basins on roadway are damaged.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
NEW DAVENPORT STREET DRAINAGE

No Balance		Priority
		Dept 18
		Planning

94 Construction of approximately 500 linear feet of 18" PVC drain, 8 catch basins and related upgrades.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	1/1/2015 6/30/2015	(203) 977-5796			
Construction Related	\$0	Implementation	7/1/2015 12/31/2016	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Davenport Street @ Selleck Street			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Recent bids on similar projects. Engineer's estimate			
Land Acquisition	\$0						
FY 13/14 Total	\$0						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	0	0	0	0	0	0	0	0	250,000	0	0	0	0	250,000
Planning	0	0	0	0	0	0	0	0	250,000	0	0	0	0	250,000
Mayor	0	0	0	0	0	0	0	0	250,000	0	0	0	0	250,000
BOF	0	0	0	0	0	0	0	0	250,000	0	0	0	0	250,000
BOR	0	0	0	0	0	0	0	0	250,000	0	0	0	0	250,000

Reason for Project (if new)

Corner of Selleck street and Davenport street requires upgrade of storm drainage line as well as structure replacement.

Fiscal Year 2013/2014 Capital Budget

0220 Operations: Engineering - Engineering
CP5208 ROXBURY ROAD DRAINS

Balance: \$38,360.00 as of 6/30/2013

Priority

Dept 16

Planning

181 Funding will be used to reconstruct and re-align roadway from Westhill Road East to Westover Road. Adding drainage and reducing road width as needed. New drainage and reconstructed roadway for a total of 5,500 linear feet to eliminate dangerous swales and correct roadway elevations.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	7/1/2013 6/30/2013	(203) 977-5796			
Construction Related	\$0	Implementation	7/1/2013 6/30/2015	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Roxbury Road from Westhill to Westover			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Estimate based upon unit prices bid for similar projects.			
Land Acquisition	\$0						
FY 13/14 Total	\$0						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	0	0	0	0	0	0	0	300,000	300,000	0	0	0	0	600,000
Planning	0	0	0	0	0	0	0	300,000	300,000	0	0	0	0	600,000
Mayor	0	0	0	0	0	0	0	300,000	300,000	0	0	0	0	600,000
BOF	0	0	0	0	0	0	0	300,000	300,000	0	0	0	0	600,000
BOR	0	0	0	0	0	0	0	300,000	300,000	0	0	0	0	600,000

Reason for Project (if new)

This road has deteriorated to a point where normal overlay procedures will not sufficiently improve its condition and therefore are not cost effective solutions. Additionally the road is very wide and needs to be realigned and the curb lines adjusted.

Fiscal Year 2013/2014 Capital Budget

0220 **Operations: Engineering - Engineering**
NEW **MYANO LANE RECONSTRUCTION**

No Balance		Priority
		Dept 19
		Planning

182 Funding will be used to re-construct roadway (approx. 500') at intersection of Catoona Lane, heading south. Drainage facilities and catch basins will be added as needed.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$0	Implementation	7/1/2015 6/30/2016	lcasolo@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Myano Lane from West Main street to Catoona Lane			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0						
Land Acquisition	\$0						
FY 13/14 Total	\$0	Method Used in Estimating Cost		Estimate based upon unit prices from recent similar projects.			

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	0	0	0	0	0	0	0	0	200,000	0	0	0	0	200,000
Planning	0	0	0	0	0	0	0	0	200,000	0	0	0	0	200,000
Mayor	0	0	0	0	0	0	0	0	200,000	0	0	0	0	200,000
BOF	0	0	0	0	0	0	0	0	200,000	0	0	0	0	200,000
BOR	0	0	0	0	0	0	0	0	200,000	0	0	0	0	200,000

Reason for Project (if new)

Fiscal Year 2013/2014 Capital Budget

0260 Operations: Administration - Maintenance Parks
C56169 PAVING & DRAINAGE

Balance: \$0.00 as of 6/30/2013

Priority

Dept 7
 Planning

170 Upgrade renovations of paved surfaces and drainage systems in city parks and parking areas.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Kevin Murray		<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input checked="" type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$20,000	Design		(203) 977-5034			
Construction Related	\$280,000	Implementation		kmurray@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location		Citywide Parks			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		per eng department			
Land Acquisition	\$0						
FY 13/14 Total	\$300,000						

Term	10						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	300,000	0	0	0	0	0	300,000	100,000	100,000	0	0	0	0	500,000
Planning	0	0	0	0	0	0	0	150,000	150,000	100,000	100,000	0	0	500,000
Mayor	0	0	0	0	0	0	0	150,000	150,000	100,000	100,000	0	0	500,000
BOF	0	0	0	0	0	0	0	150,000	150,000	100,000	100,000	0	0	500,000
BOR	0	0	0	0	0	0	0	150,000	150,000	100,000	100,000	0	0	500,000

Reason for Project (if new) lifespan of paving

FY 13-14 request will be to upgrade the following Park properties;

1. Cove Island Roller Loop
2. John Boccuzzi at Southfield park Driveway/Parkind area
3. 426 Shippan Parks department
4. Dorothy Heroy Park Complex Parking area
5. Fort Stamford Driveway/Parking area

Fiscal Year 2013/2014 Capital Budget

0033 Special Revenue - Water Pollution Control
CP5241 STORM WATER PUMP STATIONS

Balance: \$816,079.77 as of 6/30/2013

Priority

Dept	7
Planning	4

86 To upgrade and perform major repairs to the three barrier pump stations that are operated and maintained by WPCA. Upgrade Dyke Lane Pumping Station.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Chakravarti, Prakash		<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5896			
Construction Related	\$500,000	Implementation		pchakravarti@ci.stamford.ct.us			
Equipment Acquisition	\$750,000	Project Location		STAMFORD HURRICANE BARRIER			
Miscellaneous Costs	\$100,000	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$50,000	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 13/14 Total	\$1,400,000						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	1,400,000	0	0	0	0	0	1,400,000	150,000	150,000	150,000	150,000	150,000	150,000	2,300,000
Planning	1,400,000	0	0	0	0	0	1,400,000	150,000	150,000	150,000	150,000	150,000	150,000	2,300,000
Mayor	1,184,000	0	0	0	0	0	1,184,000	150,000	150,000	150,000	150,000	150,000	150,000	2,084,000
BOF	1,184,000	0	0	0	0	0	1,184,000	150,000	150,000	150,000	150,000	150,000	150,000	2,084,000
BOR	384,000	0	0	0	0	0	384,000	150,000	150,000	150,000	150,000	150,000	150,000	1,284,000

Reason for Project (if new)

DYKE LANE PUMP STATION IS BEING EVALUATED. FEDERAL GRANT IS BEING SOLICITED VIA OFFICE OF ECONOMIC DEVELOPMENT. THE FEDERAL GRANT WILL BE AN 80/20 SPLIT. THE UPGRADE IS ESTIMATED AT \$1,000,000. \$800,000 ---GRANT
 \$200,000---CITY BOND
 TWO OF THE OTHER STORM WATER PUMP STATIONS NAMELY CUMMINGS AND WAPANAU STATIONS NEED TO BE WIRED FOR A QUICK CONNECT TO EMERGENCY GENERATORS. THE COST ESTIMATE IS \$70,000.
 TWO ENERGENCY GENERATORS HAVE TO BE PROCURED. ONE 300 KVA AND A 200 KVA GENERATOR ESTIMATED AT \$150,000.

Fiscal Year 2013/2014 Capital Budget

0033 **Special Revenue - Water Pollution Control**
CP2047 **PROJECT GIS**

Balance: \$247,651.28 as of 6/30/2013

Priority

Dept 8

Planning 4

98 Develop storm & sanitary sewer GIS data layers. Conversion of all data into geodatabase format for asset management. Project to be managed by GIS unit of Technology Management Services.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Chakravarti, Prakash		<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5896			
Construction Related	\$0	Implementation	1/2/2012	pchakravarti@ci.stamford.ct.us			
Equipment Acquisition	\$0	Project Location					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Professional Services	\$200,000	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 13/14 Total	\$200,000						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Total
Dept	100,000	100,000	0	0	0	0	200,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000
Planning	100,000	100,000	0	0	0	0	200,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000
Mayor	100,000	100,000	0	0	0	0	200,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000
BOF	100,000	100,000	0	0	0	0	200,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000
BOR	100,000	100,000	0	0	0	0	200,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000

Reason for Project (if new)

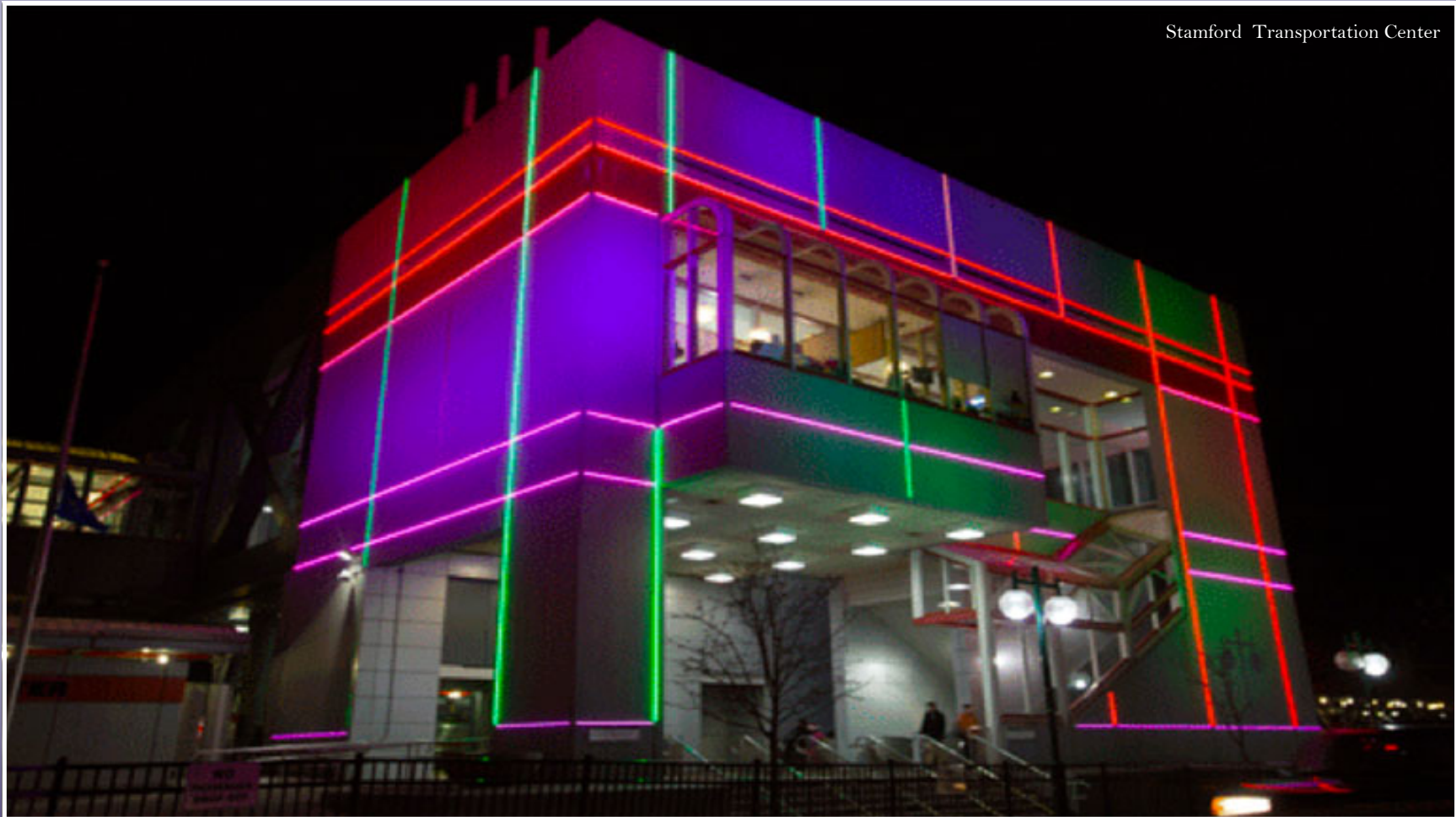
EPA MANDATE

2013-2014 OPERATING BUDGET

City of Stamford

Operating and Special Revenue Funds Budget

Fiscal Year 2013-2014



Stamford Transportation Center

Michael A. Pavia, Mayor

Photo courtesy of T. Charles Erickson

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Mayor
MICHAEL A. PAVIA



CITY OF STAMFORD
OFFICE OF THE MAYOR

STAMFORD GOVERNMENT CENTER
888 WASHINGTON BOULEVARD
P.O. BOX 10152
STAMFORD, CT 06901-2902

Phone: (203) 977-4150
FAX: (203) 977-5845
Email: mpavia@ci.stamford.ct.us

July 1, 2012

Members of the Board of Finance
Members of the Board of Representatives
The Citizens of the City of Stamford

The following General Fund Operating Budget reflects my initial budget recommendation as amended by both the Boards of Finance and Representatives. The result is a General Fund Operating Budget of \$493,125,523, which represents an expenditure increase of 2.77% over the prior year. Included in this budget is: \$200,227,857 to finance City operations, \$47,824,707 to finance Debt Service obligations and \$245,072,959 to finance Education. Additionally, this budget book also contains the adopted budgets of programs not included in the City's general fund: E.G Brennan Golf Course, Risk Management (includes Medical, Property, Casualty & Worker's Compensation), Parking Fund, City Contribution to Grants, Police Extra Duty, and the Marina.

Given the pace of the economic recovery in this region over the past few years, it is a constant challenge to produce an effective and fiscally viable budget that maintains current service levels while keeping tax increases to historically low levels. I believe this budget has met that challenge. This final budget, as approved by both the Boards of Representatives and Finance will enable City Departments and the Board of Education to continue to provide quality service and necessary programs to all residents and visitors of this City. The net impact of this budget is equivalent to an average tax increase of 3.41%, which continues to reflect minimal tax increases as presented during my Administration.

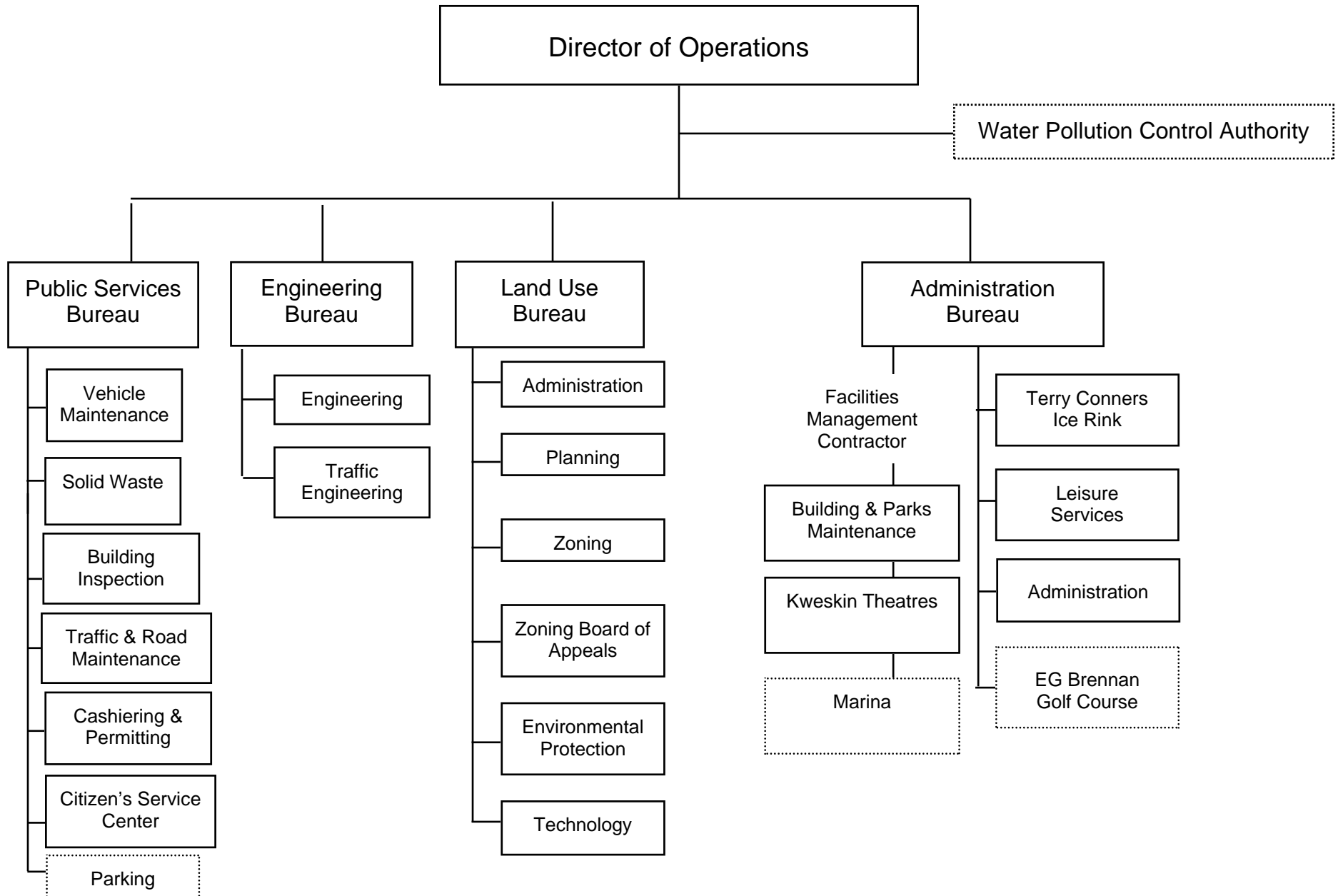
I will continue to actively address all issues that impact the provision of quality services in this City and pledge to remain diligent on all concerns relative to maintaining a safe, healthy and productive environment for all.

Respectfully Submitted,

A handwritten signature in dark ink, appearing to read "Michael A. Pavia". The signature is fluid and cursive, with the first name "Michael" being more prominent than the last name "Pavia".

Michael A. Pavia
Mayor

City of Stamford Office of Operations



Fiscal Year 2013/2014 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 201 Operations: Public Services

		<i>FY 11/12 Actual</i>	<i>FY 12/13 Original Budget</i>	<i>FY 12/13 Revised Budget</i>	<i>FY 13/14 Department Request</i>	<i>FY 13/14 Mayor's Request</i>	<i>FY 13/14 Finance Board</i>	<i>FY 13/14 Board of Reps</i>
<i>Dept/Div: 0211 Traffic & Road Maintenance</i>								
2111	Traffic & Road Maintenance	4,807,532	4,700,974	4,987,315	4,867,171	4,671,830	4,618,005	4,618,005
2113	Leaf Collection	257,272	250,136	109,237	250,097	250,097	250,097	250,097
2114	Storm Account	1,163,654	1,271,507	2,652,368	1,149,322	1,132,722	1,132,722	1,082,722
2116	Stormwater Management	0	0	0	417,165	417,165	335,446	335,446
2538	Special Events	96,259	107,650	129,507	209,945	193,798	193,798	193,798
<i>Traffic & Road Maintenance Total</i>		<i>6,324,717</i>	<i>6,330,267</i>	<i>7,878,427</i>	<i>6,893,700</i>	<i>6,665,612</i>	<i>6,530,068</i>	<i>6,480,068</i>
<i>Dept/Div: 0212 Fleet Management</i>								
2121	Vehicle Maintenance	1,164,851	1,249,424	1,217,164	1,355,587	1,316,042	1,305,277	1,305,277
2122	Gasoline	741,891	799,870	957,628	828,300	828,300	803,300	803,300
<i>Fleet Management Total</i>		<i>1,906,742</i>	<i>2,049,294</i>	<i>2,174,792</i>	<i>2,183,887</i>	<i>2,144,342</i>	<i>2,108,577</i>	<i>2,108,577</i>
<i>Dept/Div: 0213 Facilities Management</i>								
2137	Building Inspection	1,250,335	1,228,372	1,236,695	1,261,842	1,252,227	1,252,227	1,252,227
<i>Facilities Management Total</i>		<i>1,250,335</i>	<i>1,228,372</i>	<i>1,236,695</i>	<i>1,261,842</i>	<i>1,252,227</i>	<i>1,252,227</i>	<i>1,252,227</i>
<i>Dept/Div: 0214 Solid Waste</i>								
2141	Transfer Station	2,206,817	1,927,921	1,774,434	2,008,022	1,931,977	1,901,977	1,901,977
2142	Recycling	1,540,426	1,373,978	1,463,897	1,359,303	1,320,093	1,293,181	1,293,181
2143	Collection	3,810,460	3,819,166	4,025,672	4,103,648	4,026,515	3,999,603	3,999,603
2144	Haulaway	4,191,409	4,377,010	4,151,116	3,908,900	3,841,000	3,741,000	3,741,000
<i>Solid Waste Total</i>		<i>11,749,112</i>	<i>11,498,075</i>	<i>11,415,119</i>	<i>11,379,872</i>	<i>11,119,585</i>	<i>10,935,761</i>	<i>10,935,761</i>
<i>Dept/Div: 0251 Cashiering</i>								
2510	Cashiering	57,359	51,673	47,214	59,407	55,101	55,101	55,101
<i>Cashiering Total</i>		<i>57,359</i>	<i>51,673</i>	<i>47,214</i>	<i>59,407</i>	<i>55,101</i>	<i>55,101</i>	<i>55,101</i>

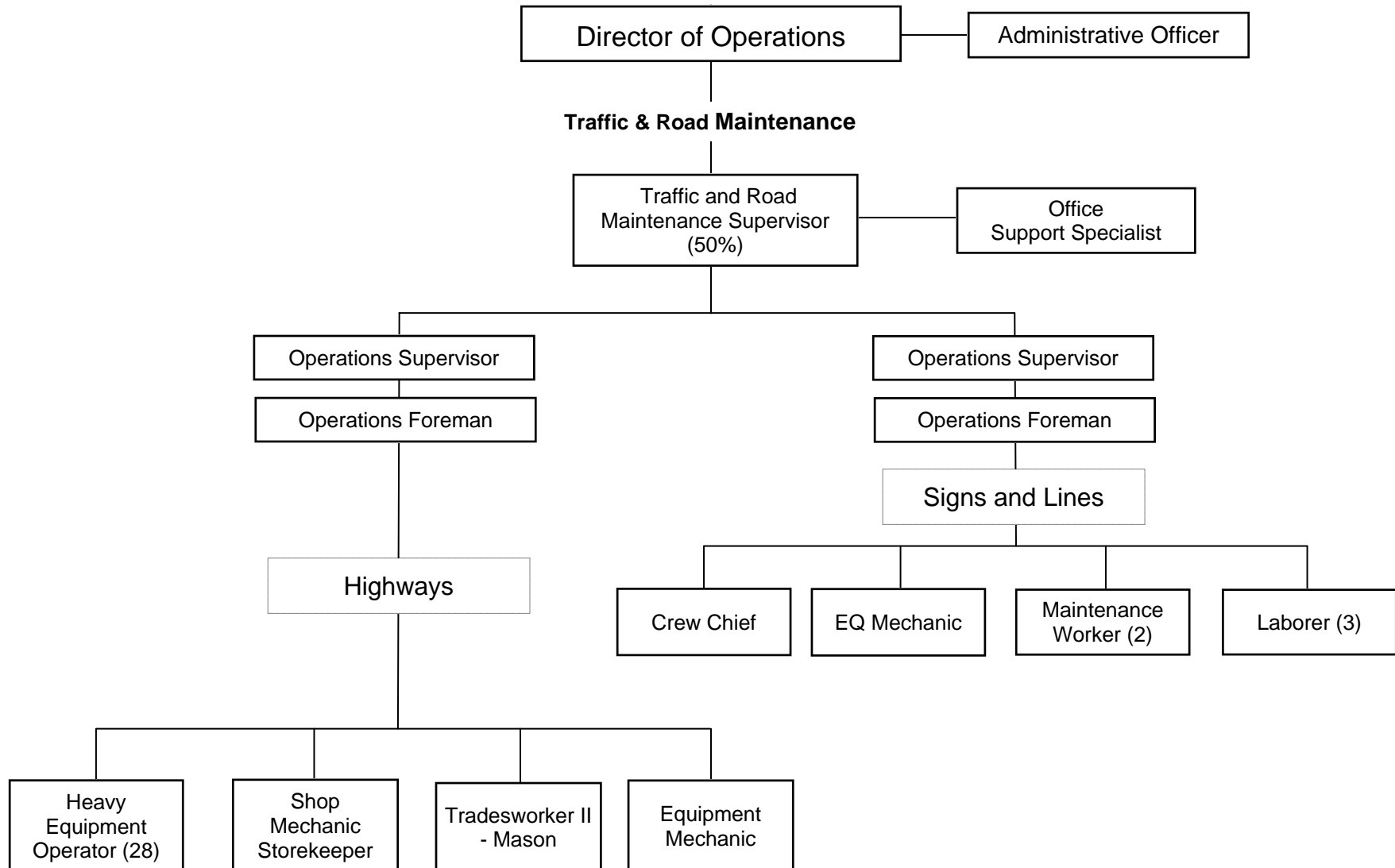
Fiscal Year 2013/2014 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 201 Operations: Public Services

	<i>FY 11/12 Actual</i>	<i>FY 12/13 Original Budget</i>	<i>FY 12/13 Revised Budget</i>	<i>FY 13/14 Department Request</i>	<i>FY 13/14 Mayor's Request</i>	<i>FY 13/14 Finance Board</i>	<i>FY 13/14 Board of Reps</i>
<i>Dept/Div: 0252 Citizen's Service Center</i>							
2520 Citizen's Service Center	168,734	160,240	159,175	167,497	166,959	150,959	150,959
<i>Citizen's Service Center Total</i>	<i>168,734</i>	<i>160,240</i>	<i>159,175</i>	<i>167,497</i>	<i>166,959</i>	<i>150,959</i>	<i>150,959</i>
<i>Operations: Public Services Total</i>	<i>\$21,456,999</i>	<i>\$21,317,921</i>	<i>\$22,911,420</i>	<i>\$21,946,205</i>	<i>\$21,403,826</i>	<i>\$21,032,693</i>	<i>\$20,982,693</i>

City of Stamford
Office of Operations
Traffic & Road Maintenance



Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2111 Traffic & Road Maintenance

Department Responsibilities:

Maintain all City of Stamford rights-of-way in a reasonable, safe and passable condition at all times and to provide installation and maintenance of signs and pavement markings.

Program: Road Maintenance

The minor repairs and maintenance of all potholes, catch basins, sidewalks, curbs and guardrails within the rights of way of the City of Stamford. The removal of miscellaneous debris from the side of the roads.

Goal: Improve response time to repair/maintenance requests outside seasonal programs such as leaf pick-up and snow/ice removal.

- **Objective:** Respond to all major safety issues within 5 business days.

Results: The Department has been able to supply a 24 hour response to most major issues from the time of being reported.

- **Objective:** Respond to all basic repair/maintenance issues within 10 business days.

Results: A back log for service requests was being cleared after sorting out some program issues. Super Storm Sandy changed the focus of the work but by the new year the department was able to focus back on service requests.

Program: Traffic Maintenance

The repair/replacement/maintenance of all street signs and pavement markings along city streets and city parking areas.

Goal: Minimize downtime for any safety related traffic signage or pavement marking to maintain the safe travel of vehicles throughout the city.

- **Objective:** Repair/replace any safety related traffic signage/pavement markings within 2 business days of known issue.

Results: Super Storm Sandy caused a lot of damage to local signage, which caused an increased effort to locate and repair any issues. By the new year there should be a minimal amount of damaged signage remaining.

Fiscal Year 2013/2014 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2111 Traffic & Road Maintenance

<i>Job Title</i>	<i>Pos 12/13</i>	<i>Pos 13/14</i>	<i>FY 12/13 Budget Salary</i>	<i>FY 13/14 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>
BUDGET ADJUSTMENT	0	0	0	-50,000	-50,000	100.00%
CHARGEBACK to Parking Mgmt Fund	0	0	-48,291	-54,796	-6,505	13.47%
Crew Chief (Traffic)	1	1	53,414	53,617	203	0.38%
Equipment Mechanic 37.5	1	1	56,055	60,083	4,028	7.19%
Heavy Equip Operator	29	28	1,357,411	1,433,600	76,189	5.61%
Laborer 37.5	3	3	132,193	138,627	6,435	4.87%
Maintenance Worker	1	2	47,418	87,987	40,568	85.55%
Master Mechanic	1	0	58,661	0	-58,661	-100.00%
Office Support Specialist	1	1	46,335	46,513	178	0.38%
Operations Foreman 37.5	1	1	66,094	76,792	10,697	16.18%
Operations Foreman 40	1	1	83,149	86,810	3,661	4.40%
Operations Supervisor 40	2	2	198,638	207,396	8,757	4.41%
Shop Mechanic/Storekeeper	0	1	0	59,259	59,259	100.00%
Tradesworker II - Mason	1	1	23,771	27,412	3,641	15.32%
Traf Mtce Work-EQ Mech	1	1	56,792	57,008	216	0.38%
Traffic & Road Mtc Supv	1	1	96,582	109,593	13,011	13.47%
Total	44	44	\$2,228,223	\$2,339,900	\$111,677	5.01%

FY 13/14 Includes one additional workday from 52 to 52.2 weeks an increase of 0.38%, Equipment Mechanic increase due to three year wage increase, Heavy Equipment Operator Increase due to step increases and full year funding for filled positions, Laborer Increase due to filling vacant positions at lower step and three year compounded wage increase, Maintenance Worker increase due to addition of one position, Operations Foreman increase due to three year compounded wage increase and one year step increase, Tradesworker II-Mason position funded for a half year, Traffic & Road Supervisor increase due to two year wage increase and one year step increase, Traffic & Road Supervisor increase due to filling of position at a higher step and three year compounded wage increase.

Fiscal Year 2013/2014 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2111 Traffic & Road Maintenance

Reference #	Account Title	FY 11/12 Actual	FY 12/13 Original Budget	FY 12/13 Revised Budget	FY 13/14 Department Request	FY 13/14 Mayor's Request	FY 13/14 Finance Board	FY 13/14 Board of Reps
01421111100	Salaries	2,062,930	2,228,222	2,190,181	2,417,950	2,389,900	2,339,900	2,339,900
01421111202	Permanent Part-time	38,779	38,559	38,559	38,559	38,559	38,559	38,559
01421111203	Seasonal	41,275	40,000	78,641	40,000	40,000	40,000	40,000
01421111301	Overtime	100,842	50,000	118,152	80,000	50,000	50,000	50,000
01421111503	Tool Allowance	360	360	860	500	500	500	500
01421111901	Differential	15,073	16,778	16,778	16,778	16,778	16,778	16,778
01421111902	Stand-By Time	5,218	4,588	5,056	4,588	4,588	4,588	4,588
01421112100	Medical & Life	1,216,554	0	0	0	0	0	0
01421112120	Active Medical & Life	0	801,760	801,760	775,621	775,621	775,621	775,621
01421112121	Retiree Medical & Life	0	351,806	351,806	315,679	315,679	315,679	315,679
01421112200	Social Security	173,149	181,956	181,956	198,776	194,335	190,510	190,510
01421112500	Unemployment Compensation	0	0	0	14,534	14,534	14,534	14,534
01421113202	Conferences & Training	0	0	640	3,000	0	0	0
01421113601	Contracted Services	27,378	33,150	26,509	53,000	33,150	33,150	33,150
01421114400	Equipment Rental	2,000	2,256	7,201	2,256	2,256	2,256	2,256
01421115240	Payments to Insurance Fund	548,408	534,288	534,288	385,679	385,679	385,679	385,679
01421115301	Telephone	15,641	12,557	20,486	12,557	12,557	12,557	12,557
01421115405	Postage	99	930	215	930	930	930	930
01421115500	Copying & Printing	4,987	4,995	4,675	4,995	4,995	4,995	4,995
01421116100	Office Supplies & Expenses	10,911	10,911	11,070	10,911	10,911	10,911	10,911
01421116501	Supplies - Land	77,850	75,000	91,828	175,000	75,000	75,000	75,000
01421116503	Street Painting Supplies	24,122	25,000	22,511	28,000	25,000	25,000	25,000
01421116504	Street & Traffic Signs	27,769	25,000	25,000	25,000	25,000	25,000	25,000
01421116601	Vehicle Maintenance	365,093	200,000	420,936	200,000	200,000	200,000	200,000

Fiscal Year 2013/2014 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2111 Traffic & Road Maintenance

<i>Reference # Account Title</i>	<i>FY 11/12 Actual</i>	<i>FY 12/13 Original Budget</i>	<i>FY 12/13 Revised Budget</i>	<i>FY 13/14 Department Request</i>	<i>FY 13/14 Mayor's Request</i>	<i>FY 13/14 Finance Board</i>	<i>FY 13/14 Board of Reps</i>
01421116610 Software Maintenance	9,218	17,000	0	17,000	10,000	10,000	10,000
01421116700 Small Tools & Replacement	11,127	9,000	8,305	9,000	9,000	9,000	9,000
01421116901 Protective Clothing	4,554	5,000	0	5,000	5,000	5,000	5,000
01421116902 Uniforms	18,005	23,310	21,353	23,310	23,310	23,310	23,310
01421118909 OSHA Safety Requirement	6,190	8,548	8,548	8,548	8,548	8,548	8,548
<i>Traffic & Road Maintenance Total</i>	<i>4,807,532</i>	<i>4,700,974</i>	<i>4,987,315</i>	<i>4,867,171</i>	<i>4,671,830</i>	<i>4,618,005</i>	<i>4,618,005</i>

Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2113 Leaf Collection

Department Responsibilities:

To meet state requirements for reducing solid waste transported to landfills, maintaining reasonable and safe travel conditions along City of Stamford rights-of-way, and accommodating curb side residential leaf pick-up on an annual basis.

Program: Annual Leaf Pick-up

To pick-up all the fallen leaves from residential properties that were collected and left curb side by the residents.

Goal: To complete the leaf pick-up program in a timely manner, with no worker injuries or damage to property.

- **Objective:** Complete the leaf pick-up program within 15 business days (typical start date is the day after Veteran's Day in November), to allow for sufficient prep time before the first snow fall.

***Results:** Super Storm Sandy hit the area on October 29, 2012 causing a massive amount of storm debris. The Leaf program typically starts in mid November. Due to the amount of storm debris the "leaf" program became a "Debris" program which lasted twice as long as a typical pick up program. Over 20,000 tons of debris was picked up in a 1 month period.*

- **Objective:** To hold monthly safety meetings to review City and labor force safety issues.

***Results:** Frequency of meetings have increased leading to a better overall safety record.*

Fiscal Year 2013/2014 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2113 Leaf Collection

Reference #	Account Title	FY 11/12 Actual	FY 12/13 Original Budget	FY 12/13 Revised Budget	FY 13/14 Department Request	FY 13/14 Mayor's Request	FY 13/14 Finance Board	FY 13/14 Board of Reps
01421131203	Seasonal	91,723	110,711	38,218	110,711	110,711	110,711	110,711
01421131301	Overtime	81,538	70,040	5,634	70,040	70,040	70,040	70,040
01421132200	Social Security	13,827	13,827	13,827	13,827	13,827	13,827	13,827
01421132500	Unemployment Compensation	27,294	28,988	28,988	26,307	26,307	26,307	26,307
01421135240	Payments to Insurance Fund	25,239	6,570	6,570	9,212	9,212	9,212	9,212
01421135400	Advertising/Official Notices	4,000	4,000	0	4,000	4,000	4,000	4,000
01421136501	Supplies - Land	7,484	8,000	8,000	8,000	8,000	8,000	8,000
01421136700	Small Tools & Replacement	6,167	8,000	8,000	8,000	8,000	8,000	8,000
Leaf Collection Total		257,272	250,136	109,237	250,097	250,097	250,097	250,097

Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2114 Snow Removal

Department Responsibilities:

To manage the resources, materials and manpower necessary to effectively combat and clean up the results of any and all snow fall, icy conditions, extreme winds and natural or man made disasters in order to maintain reasonable and safe access for all residents and visitors of the City of Stamford.

Program: Snow Removal Program

The mobilization of manpower and vehicles to remove all snow from the streets, sidewalks, and parking areas under the care of the City of Stamford which includes all the parks, areas around public facilities and 54 snow removal routes throughout the streets of the city.

Goal: To be ready, before the first snow fall, to provide a quick response to any and all snow fall amounts to prevent the accumulation of snow on the streets, sidewalks and parking areas under the care of the City of Stamford, with no damage to property or worker injuries.

- **Objective:** Have all snow removal equipment ready for use by mid December and/or before the first snow fall, directly after the leaf pick-up program.

Results: Due to the extended Super Storm Sandy Debris Pick-up program the fleet was not fully prepared for early snow events but the department was able to maintain safe passage on the streets.

- **Objective:** Hold monthly safety committee meetings to review City and labor force safety issues.

Results: Safety meeting frequency increased leading to a better overall safety record.

Program: Ice Prevention Program

The mobilization of manpower, vehicles and materials to effectively prevent dangerous icy conditions from forming on the streets, sidewalks and public spaces under the care of the City of Stamford.

Goal: To be prepared and informed enough to provide proactive actions that would prevent any dangerous icy conditions from forming.

- **Objective:** To make sure there is enough salt stored in the domes for the winter season. There are 3 domes with a capacity of 4,000 tons each which requires 12,000 tons of salt for full readiness.

Results: Due to a light winter the past year the salt domes were able to be filled to near capacity.

- **Objective:** To prevent any incidents from occurring due to icy conditions.

Results: Between the light winters and efficient response to snow events, incidents related to icing conditions have been kept to a minimum.

Fiscal Year 2013/2014 Department Summary

Fund: 0001 *General Fund*
Bur/Office: 201 *Operations: Public Services*
Dept/Div: 0211 *Traffic & Road Maintenance*
Activity: 2114 *Snow Removal*

Program: Emergency/Storm Response

The mobilization of manpower, materials and vehicles in response to any major disaster event to allow for safe passage of the emergency responders and residents.

Goal: To be prepared to respond and communicate efficiently during and after a major event in order to keep the roads free and clear from debris.

- **Objective:** To have all roads clear from debris enough to allow for safe passage within 24 hours of an event.

Results: *With the addition of a few more plow truck drivers and equipment, responses to snow events have been rapid enough to maintain safe passage on the roadways during the event.*

Fiscal Year 2013/2014 Board of Representatives Operating Budget

Fund: 0001 General Fund

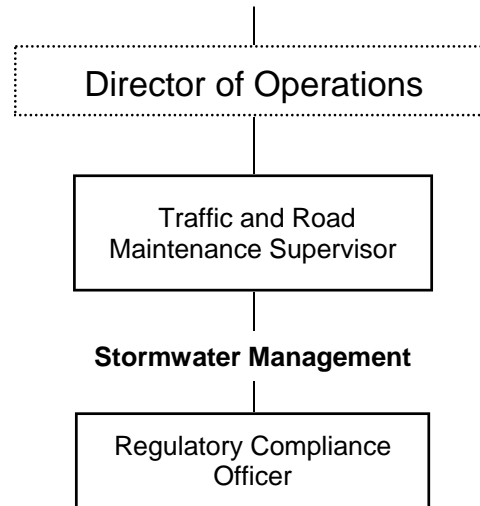
Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2114 Storm Account

Reference #	Account Title	FY 11/12 Actual	FY 12/13 Original Budget	FY 12/13 Revised Budget	FY 13/14 Department Request	FY 13/14 Mayor's Request	FY 13/14 Finance Board	FY 13/14 Board of Reps
01421141203	Seasonal	2,795	0	140,337	0	0	0	0
01421141301	Overtime	619,084	462,000	1,285,708	462,000	462,000	462,000	462,000
01421142200	Social Security	40,526	35,343	104,343	35,343	35,343	35,343	35,343
01421143601	Contracted Services	849	1,000	349,415	16,000	1,000	1,000	1,000
01421145240	Payments to Insurance Fund	127,298	157,064	157,064	19,879	19,879	19,879	19,879
01421146501	Supplies - Land	4,836	6,500	6,500	6,500	6,500	6,500	6,500
01421146505	Salt & Sand	354,709	590,000	590,000	590,000	590,000	590,000	540,000
01421146602	Plow Repair	0	5,600	5,600	5,600	4,000	4,000	4,000
01421146605	Equipment Maintenance	13,558	14,000	13,402	14,000	14,000	14,000	14,000
Storm Account Total		1,163,654	1,271,507	2,652,368	1,149,322	1,132,722	1,132,722	1,082,722

City of Stamford
Office of Operations
Stormwater Management



Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2116 Storm Water Management

Department Responsibilities:

To ensure that the City of Stamford is in compliance with all state and federal regulations regarding storm water permitting. Included in this cost center is a chargeback to the WPCA for operations and maintenance of the pump stations and hurricane barrier.

Program: MS4 Permit

Fulfilling all obligations described within the DEEP issued MS4 permit which regulates all the storm water discharges within the City such as storm water drainage system, rivers and lake outfalls and overall non-permeable surface drainage.

Goal: To build a team that can effectively and efficiently comply with all the requirements outlined in the MS4 permit.

- **Objective:** To map out and clean all 15,000 storm water catch basins in the City within the permitted time frame.

Results: New program - will report results next fiscal year.

- **Objective:** To map out all the outfalls along the City's rivers and lakes.

Results: New program - will report results next fiscal year.

Program: Residential and Commercial Compliance

Ensuring that the residents and local businesses are in compliance with City, State and Federal regulations by using the latest storm water management techniques.

Goal: To educate the public about the need and benefits of proper Stormwater Management.

- **Objective:** To identify the sources of any outfalls that contain illicit discharges that can harm the water system.

Results: New program - will report results next fiscal year.

Goal: To educate the public so that they are aware of and can implement the latest storm water management techniques.

- **Objective:** To educate and prevent the public from dumping materials onto the roads that can end up in the storm water catch basins.

Results: New program - will report results next fiscal year.

Fiscal Year 2013/2014 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2116 Storm Water Management

<i>Job Title</i>	<i>Pos 12/13</i>	<i>Pos 13/14</i>	<i>FY 12/13 Budget Salary</i>	<i>FY 13/14 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>
BUDGET ADJUSTMENT	0	0	0	-74,163	-74,163	100.00%
Regulatory Compliance Officer	0	1	0	74,163	74,163	100.00%
<i>Total</i>	<i>0</i>	<i>1</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>100.00%</i>

New Position

Fiscal Year 2013/2014 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2116 Stormwater Management

Reference #	Account Title	FY 11/12 Actual	FY 12/13 Original Budget	FY 12/13 Revised Budget	FY 13/14 Department Request	FY 13/14 Mayor's Request	FY 13/14 Finance Board	FY 13/14 Board of Reps
01421161100	Salaries	0	0	0	74,163	74,163	0	0
01421161203	Seasonal	0	0	0	0	0	0	0
01421161301	Overtime	0	0	0	0	0	0	0
01421162120	Active Medical & Life	0	0	0	0	0	0	0
01421162200	Social Security	0	0	0	6,056	6,056	0	0
01421163601	Contracted Services	0	0	0	0	0	0	0
01421164400	Equipment Rental	0	0	0	0	0	0	0
01421165301	Telephone	0	0	0	0	0	0	0
01421165405	Postage	0	0	0	0	0	0	0
01421165500	Copying & Printing	0	0	0	0	0	0	0
01421166100	Office Supplies & Expenses	0	0	0	500	500	0	0
01421166501	Supplies - Land	0	0	0	0	0	0	0
01421166601	Vehicle Maintenance	0	0	0	0	0	0	0
01421166610	Software Maintenance	0	0	0	0	0	0	0
01421166700	Small Tools & Replacement	0	0	0	500	500	0	0
01421166901	Protective Clothing	0	0	0	500	500	0	0
01421166902	Uniforms	0	0	0	0	0	0	0
01421168859	Chargeback From WPCA	0	0	0	335,446	335,446	335,446	335,446
01421168909	OSHA Safety Requirement	0	0	0	0	0	0	0
Stormwater Management Total		0	0	0	417,165	417,165	335,446	335,446

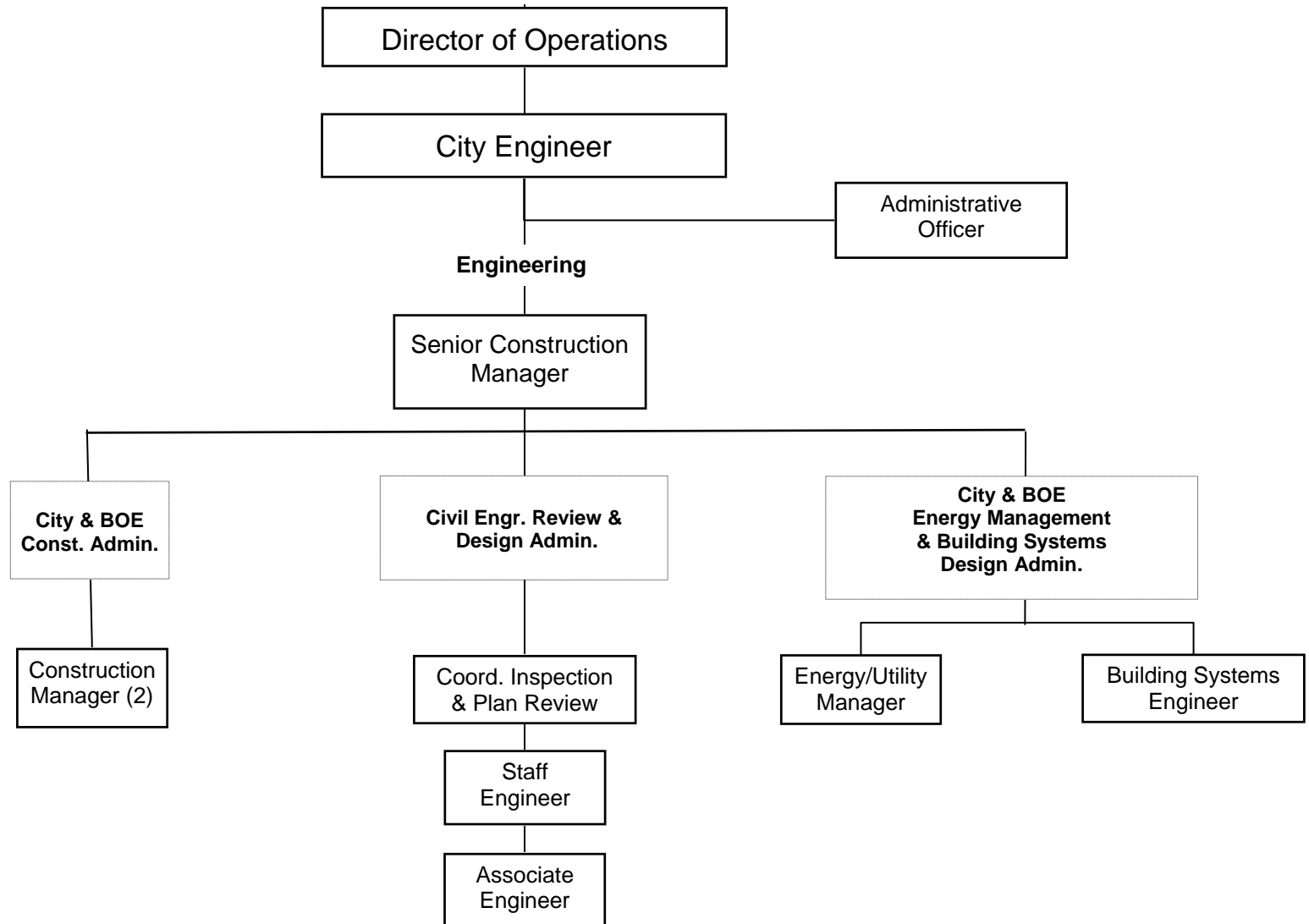
Fiscal Year 2013/2014 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 202 Operations: Engineering

	<i>FY 11/12 Actual</i>	<i>FY 12/13 Original Budget</i>	<i>FY 12/13 Revised Budget</i>	<i>FY 13/14 Department Request</i>	<i>FY 13/14 Mayor's Request</i>	<i>FY 13/14 Finance Board</i>	<i>FY 13/14 Board of Reps</i>
<i>Dept/Div: 0220 Engineering</i>							
2200 Engineering	2,346,764	2,375,565	2,313,588	2,297,522	2,292,140	2,292,140	2,292,140
<i>Engineering Total</i>	<i>2,346,764</i>	<i>2,375,565</i>	<i>2,313,588</i>	<i>2,297,522</i>	<i>2,292,140</i>	<i>2,292,140</i>	<i>2,292,140</i>
<i>Dept/Div: 0221 Traffic Engineering</i>							
2210 Traffic Engineering	1,007,255	1,044,065	1,032,621	1,184,975	1,051,725	1,051,725	1,051,725
<i>Traffic Engineering Total</i>	<i>1,007,255</i>	<i>1,044,065</i>	<i>1,032,621</i>	<i>1,184,975</i>	<i>1,051,725</i>	<i>1,051,725</i>	<i>1,051,725</i>
<i>Operations: Engineering Total</i>	<i>\$3,354,019</i>	<i>\$3,419,630</i>	<i>\$3,346,209</i>	<i>\$3,482,497</i>	<i>\$3,343,865</i>	<i>\$3,343,865</i>	<i>\$3,343,865</i>

City of Stamford Office of Operations Engineering



Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Department Responsibilities:

The mission of Engineering Department is to deliver the City's substantial volume of design and construction projects in an expeditious, cost-effective manner while maintaining the highest degree of architectural, engineering, and construction quality.

The Engineering Department administers many capital improvement projects involving the City's infrastructure, including storm and sanitary sewers, school construction, roadways, sidewalks, bridges, parks, City building facilities, street lights, energy performance and mechanical systems. In addition to managing design and construction of Engineering Department projects, the Department has undertaken the management of many capital projects for other departments, including the Board of Education, Land Use, Police Department, Fire Department, Public Safety, Parks and Recreation Department, and Facilities Management.

The Department prepares and administers design of many public improvement projects "in house," with the majority of Board of Education and larger transportation projects utilizing professional consulting architects and engineers.

Furthermore, the Engineering Department supports internal customer relations (citizens services), permit issuance, public inquiries and maintains and updates all engineering records.

Program: Administrative

The mission of the Administrative program is to support all activities within the Engineering Bureau as well as support internal customer relations (citizens services), permit issuance, public inquiries and maintain and update all engineering records.

Goal: Respond to all inquiries in a timely manner.

- **Objective:** Respond to all public walk-in inquiries (i.e. research for plans and engineering records) within the same day.

Results: *On the average, the Department receives 10 walk-in requests a day. 98% of citizens received services and results within the same day. Some complicated requests required more time or more manpower to perform research and investigation, resulting in a delayed response.*

- **Objective:** Issue the Street Opening and Street Use permits within 3 days of receipt of the application and necessary documents required.

Results: *100% of Street Use permits are issued within 3 days of receipt of the application.*

Street Opening permit application requires more time to review. With the current staffing level, 92% of Street Opening permits were issued within 3 days of receipt of the application.

Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Program: Construction Management

The mission of the Construction Management program is to provide supervision and construction inspection of all capital projects being performed throughout the City so that projects are built in an efficient, high quality manner that allows for assets throughout the City to retain their value and provide effective services to the City for many years.

Engineering Department is also responsible for 3 capital programs. These programs include Street Resurfacing/Paving Program, Citywide Sidewalk Program, and Citywide Drainage Catch Basin and Manhole Replacement Program.

Goal: Complete capital projects on time and on budget with minimum interruption to residents, business owners, or school administration.

- **Objective:** Complete capital projects on or before deadlines i.e. school opening dates, grant expiration dates, federal guidelines, and etc.

Results: All schools opened on schedule. Project designs underway to perform construction during summer. State grants for eligible school construction being obtained. Storm Sandy impacted many City parks and roadway infrastructure. As a result, many storm restoration projects are being planned and undertaken in parallel with the FY12/13 Capital Projects. All paving and sidewalk projects programmed during this period were completed as scheduled before winter shutdown.

- **Objective:** Manage capital project expenses to fall within funding availability by performing value engineering, keep track of inspection daily record to quantify the use of contractor's labors and materials, comply with State or Federal guidelines in order to obtain as much grant opportunity possible to fund capital projects.

Results: Inspection of capital projects continues, some resources have been dedicated to Storm Sandy projects, not foreseen in capital plan. Major State Grant projects have been bid and completed within this period.

Many Storm Sandy projects related to restoration were reviewed with FEMA for Public Assistance funding. Furthermore, the Engineering Bureau worked with other City Departments to plan and execute beach projects within mandated CT DEEP deadlines in this period.

Program: Design and Review

The mission of the Design and Review program is to prepare plans and bid specifications, assist in obtaining permits, oversee A&E design, conduct periodic subdivision reviews, so that projects throughout the City are performed in an efficient, safe and logical manner at the least possible cost to the taxpayer.

Goal: Complete engineering plan review thoroughly and in timely manner.

- **Objective:** Issue engineering sign-off and/or engineering review comments within 60 days of receipt of the plan.

Results: During the first 6 months of FY12/13, only 91% of plans were reviewed on time. To improve the review of projects, additional resources were retained to maintain the demand.

Fiscal Year 2013/2014 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Program: Planning

The mission of the Planning program is to determine project needs and costs and provide professional engineering services to city departments, outside contractors and design professionals so that projects throughout the City are performed in an efficient, safe and logical manner at the least cost to the taxpayer.

Goal: Plan wisely to meet capital project needs, funding availability, and project schedule.

- **Objective:** Determine capital budget amounts appropriately, submit capital project budget request and any supplemental budget request on time.

Results: *The Department prepared, determined and submitted 19 capital budget requests of \$23 million for FY13/14 on time. The Department also assisted BOE in submitting 16 supplemental budget requests of \$18 million on time.*

Budget preparation is a combination of addressing Citizens Service's complaints, coordination with utility companies, and many meetings with other City Departments to assess capital needs.

- **Objective:** Coordinate with local, state and federal agencies to meet project requirements, and to obtain grant funding.

Results: *During the first 6 months of FY12/13, the Department spent majority of time on coordinating with FEMA to obtain federal reimbursement to recover from Super Storm Sandy damages.*

The Department continues to meet with FTA officials during the bidding and award of SUT2. The City meets regularly with ConnDOT regarding large development projects in the South End.

Fiscal Year 2013/2014 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

<i>Job Title</i>	<i>Pos 12/13</i>	<i>Pos 13/14</i>	<i>FY 12/13 Budget Salary</i>	<i>FY 13/14 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>
Administrative Officer	1	1	92,502	96,607	4,105	4.44%
Associate Engineer	2	1	146,185	73,598	-72,587	-49.65%
Building Systems Engineer	0	1	0	83,794	83,794	100.00%
City Engineer	1	1	141,274	147,528	6,254	4.43%
Construction Manager	2	2	206,060	206,852	791	0.38%
Coord Inspect & Plan Review 35	1	1	84,341	91,181	6,840	8.11%
Energy/Utility Manager	1	1	104,806	109,441	4,635	4.42%
Sr. Construction Manager	1	1	118,173	123,501	5,328	4.51%
Staff Engineer	1	1	90,092	90,537	445	0.49%
<i>Total</i>	<i>10</i>	<i>10</i>	<i>\$983,433</i>	<i>\$1,023,039</i>	<i>\$39,606</i>	<i>4.03%</i>

FY 13/14 Includes one additional workday from 52 to 52.2 weeks an increase of 0.38%, Administrative Officer, City Engineer, Energy/Utility Manager and Sr. Construction Manager increase due to compounded three year wage increase, One Associate Engineer position eliminated, One Building Systems Engineer position created. Coord Inspect & Plan Review increase due to three year compounded wage increase and step increase, Staff Engineer increase due to longevity.

2014-2015 CAPITAL BUDGET

City of Stamford

Adopted Capital Budget

Fiscal Year 2014 - 2015



David R. Martin, Mayor

Fleet Fuel Station

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Mayor
David R. Martin



CITY OF STAMFORD
OFFICE OF THE MAYOR

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July 1, 2014

Members of the Board of Finance
Members of the Board of Representatives
Members of the Planning Board
Citizens of the City of Stamford

I am pleased to transmit the Adopted Capital Budget for the fiscal year commencing July 1, 2014 and ending June 30, 2015 along with the plan for capital spending over the succeeding six years. This budget represents the culmination of a Capital Budget submission and approval process that started back in August, 2013 and was completed in May, 2014.

This City of Stamford Capital Budget for the fiscal year beginning July 1, 2014, which includes all approved projects for both City departments and outside agencies, calls for \$42,752,888 in total capital spending, of which \$27,310,583 will be financed with tax supported General Obligation Bonds.

I want to thank the Planning Board for their efforts in developing their recommended Capital Budget and both the Board of Finance and Board of Representatives for their review and approval of this final Adopted Capital Budget.

Respectfully Submitted,

David R. Martin
Mayor

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP5301 HOLCOMB AVENUE DRAINAGE IMPROVEMENT

No Balance

Priority

Dept 7

Planning 7

441 Increase the size of the underground stormwater drainage system piping and structures from Strawberry Hill Avenue to the existing culvert at Cowan Avenue Mill and pave Holcomb Avenue and add concrete curbing. Sidewalk improvement on the entire north side of Holcomb Avenue from Strawberry Hill Ave to Hillandale Ave.

Detail Project Cost			Project Schedule			Contact Info		Justification for Inclusion in Capital Plan						
Effective Date			Start	End		Lou Casolo		<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other						
Design Development	\$0		Design			(203) 977-5796								
Construction Related	\$700,000		Implementation	7/1/2014	6/30/2015	Lcasolo@StamfordCT.gov								
Equipment Acquisition	\$0		Project Location			Holcomb Ave. from Strawberry Hill Ave to Hillandale Ave.								
Miscellaneous Costs	\$0		Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Professional Services	\$0		Method Used in Estimating Cost											
Land Acquisition	\$0													
FY 14/15 Total	\$700,000													

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	700,000	0	0	0	0	0	700,000	0	0	0	0	0	0	700,000
Planning	500,000	0	0	0	0	0	500,000	200,000	0	0	0	0	0	700,000
Mayor	500,000	0	0	0	0	0	500,000	200,000	0	0	0	0	0	700,000
BOF	500,000	0	0	0	0	0	500,000	200,000	0	0	0	0	0	700,000
BOR	500,000	0	0	0	0	0	500,000	200,000	0	0	0	0	0	700,000

Reason for Project (if new) To tie into Boyle Stadium drainage system recently completed.

Project is to address flooding problems reported for over 30 years. Existing roadway drainage system capacity at Holcomb Avenue is insufficient to handle large rainfall events. The flooding impacts the newly installed Boyle Stadium turf field, running track, and locker rooms based on off site impacts.

Design is completed. Scheduled to bid in winter 2013.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
C16012 CITY WIDE STORM DRAINS

Balance: \$487,494.84 as of 6/30/2014

Priority

Dept 2

Planning 2

19 Installation and replacement of storm drains, catch basins, and curbs.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$600,000	Implementation	7/1/2014 6/30/2021	lcasolo@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location Citywide					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Professional Services	\$0	Method Used in Estimating Cost		Engineering estimates and unit prices from recently bid projects.			
Land Acquisition	\$0						
FY 14/15 Total	\$600,000						

Term	20						FY 14/15	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	600,000	0	0	0	0	0	600,000	600,000	600,000	600,000	600,000	600,000	600,000	4,200,000
Planning	450,000	0	0	0	0	0	450,000	750,000	600,000	600,000	600,000	600,000	600,000	4,200,000
Mayor	450,000	0	0	0	0	0	450,000	750,000	600,000	600,000	600,000	600,000	600,000	4,200,000
BOF	450,000	0	0	0	0	0	450,000	750,000	600,000	600,000	600,000	600,000	600,000	4,200,000
BOR	450,000	0	0	0	0	0	450,000	750,000	600,000	600,000	600,000	600,000	600,000	4,200,000

Reason for Project (if new)

Proposed FY14/15 locations including but not limited to investigation/design of drainage systems. Based on Citizens Service Requests or known problems associated with localized flooding.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
C56129 CITYWIDE MANHOLE & BASIN

Balance: \$212,655.98 as of 6/30/2014

Priority

Dept 4

Planning 4

39 The City's road network contains more than 12,000 manholes and basins. These structures require periodic reconstruction and adjustment at an average cost between \$3,000 and \$6,000 per basin. This work is critical to protect the safety of the public and to maintain the City's investment in the infrastructure.

Detail Project Cost			Project Schedule			Contact Info		Justification for Inclusion in Capital Plan						
Effective Date			Start	End		Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other						
Design Development	\$0		Design			(203) 977-5796								
Construction Related	\$500,000		Implementation	7/1/2014	6/30/2021	lcasolo@StamfordCT.gov								
Equipment Acquisition	\$0		Project Location Citywide											
Miscellaneous Costs	\$0		Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Professional Services	\$0		Method Used in Estimating Cost			Current bid prices.								
Land Acquisition	\$0													
FY 14/15 Total	\$500,000													

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	500,000	0	0	0	0	0	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,500,000
Planning	300,000	0	0	0	0	0	300,000	700,000	500,000	500,000	500,000	500,000	500,000	3,500,000
Mayor	300,000	0	0	0	0	0	300,000	700,000	500,000	500,000	500,000	500,000	500,000	3,500,000
BOF	300,000	0	0	0	0	0	300,000	700,000	500,000	500,000	500,000	500,000	500,000	3,500,000
BOR	300,000	0	0	0	0	0	300,000	700,000	500,000	500,000	500,000	500,000	500,000	3,500,000

Reason for Project (if new)

Priorities are determined based on severity of location. Locations reported from Citizen's Service Requests.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP0211 ENVIRONMENTAL COMPLIANCE

Balance: \$134,406.62 as of 6/30/2014

Priority

Dept 13

Planning 13

42 This program is required to investigate and assess and correct as necessary of drainage systems discharging into water body, rivers, ponds, etc. and to evaluate Public Services facilities and modify practices in compliance with state and federal regulations. Based upon the requirements set forth in the draft MS-4 permit, significant action is mandated by the CT DEEP.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$250,000	Implementation	7/1/2014 6/30/2021	lcasolo@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location		Various City locations			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Engineering estimates			
Land Acquisition	\$0						
FY 14/15 Total	\$250,000						

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
Planning	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
Mayor	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
BOF	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000
BOR	250,000	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,750,000

Reason for Project (if new)

This funding will be used to help Stamford comply with mandates imposed by both the state (DEEP) and federal government (EPA). Non-compliance can result in substantial fines being handed down to the City.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP1075 SKYMEADOW DRIVE DRAINAGE IMPROVEMENT

Balance: \$255,850.00 as of 6/30/2014

Priority

Dept 8

Planning 8

120 Excessive roadway shoulder erosions due to lack of drainage structures. Drainage improvements of Skymeadow Drive from Skyline Lane to High Ridge Rd. and road paving from Scofieldtown Road to High Ridge Road.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	12/1/2012 5/31/2014	(203) 977-5796			
Construction Related	\$450,000	Implementation	7/1/2014 12/31/2015	lcasolo@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location		Skymeadow Drive from Skyline Ln. to High Ridge Rd.			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Engineering Estimates			
Land Acquisition	\$0						
FY 14/15 Total	\$450,000						

Term	20							Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	450,000	0	0	0	0	0	450,000	0	0	0	0	0	0	450,000
Planning	250,000	0	0	0	0	0	250,000	200,000	0	0	0	0	0	450,000
Mayor	250,000	0	0	0	0	0	250,000	200,000	0	0	0	0	0	450,000
BOF	250,000	0	0	0	0	0	250,000	200,000	0	0	0	0	0	450,000
BOR	250,000	0	0	0	0	0	250,000	200,000	0	0	0	0	0	450,000

Reason for Project (if new)

Drainage improvements and paving of Skymeadow Drive from Skyline Lane east to High Ridge Rd. and full depth reconstruction including road paving from Skyline Lane west to Scofieldtown Road.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP3220 MAJOR BRIDGE REPLACEMENT

Balance: \$1,000,063.62 as of 6/30/2014

Priority

Dept	15
Planning	15

81 This account is for the construction, and inspection of bridges in need of replacement throughout the City. FY13/14 request is for Main Street Bridge over the Rippowam River and out year requests are for Riverbank Road Bridge over the Mianus River, and Cedar Height Road over the Rippowam River Bridge replacements.

Detail Project Cost		Project Schedule			Contact Info		Justification for Inclusion in Capital Plan							
Effective Date		Start	End		Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other							
Design Development	\$0	Design	12/15/2012	5/1/2015	(203) 977-5796									
Construction Related	\$0	Implementation	5/1/2015	12/31/2016	lcasolo@StamfordCT.gov									
Equipment Acquisition	\$0	Project Location												
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Professional Services	\$0													
Land Acquisition	\$0													
FY 14/15 Total	\$0	Method Used in Estimating Cost			CTDOT Preliminary Cost Estimating Guidelines and recent COS bridge projects									

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	0	0	0	0	0	0	0	2,000,000	6,500,000	0	0	4,000,000	0	12,500,000
Planning	0	0	0	0	0	0	0	2,000,000	6,500,000	0	0	4,000,000	0	12,500,000
Mayor	0	0	0	0	0	0	0	2,000,000	6,500,000	0	0	4,000,000	0	12,500,000
BOF	0	0	0	0	0	0	0	2,000,000	6,500,000	0	0	4,000,000	0	12,500,000
BOR	0	0	0	0	0	0	0	2,000,000	6,500,000	0	0	4,000,000	0	12,500,000

Reason for Project (if new)

The current project balance is being used to fund the replacement of the West Main Street bridge. The outyear request will be used to fund the replacement of Riverbank Road Bridge and Cedar Height Road Bridge.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP1199 MERRIEBROOK BARN RENOVATIONS

Balance: \$119,990.00 as of 6/30/2014

Priority

Dept 14

Planning 14

147 Environmental remediation of barn for lead paint and asbestos. Reconstruction of septic system.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$100,000	Implementation		Lcasolo@StamfordCT.gov			
Equipment Acquisition	\$50,000	Project Location					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Engineering estimates			
Land Acquisition	\$0						
FY 14/15 Total	\$150,000						

Term	20						FY 14/15	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
Planning	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
Mayor	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
BOF	150,000	0	0	0	0	0	150,000	0	0	0	0	0	0	150,000
BOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Reason for Project (if new)

Requires as part of lease agreement.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
CP5208 ROXBURY ROAD DRAINS

Balance: \$8,360.00 as of 6/30/2014

Priority

Dept	12
Planning	12

181 Funding will be used to reconstruct and re-align roadway from Westhill Road East to Westover Road. Adding drainage and adjust road width as needed. New drainage and reconstructed roadway for a total of 5,500 linear feet to eliminate dangerous swales and correct roadway elevations.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input checked="" type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$300,000	Design	7/1/2013 6/30/2014	(203) 977-5796			
Construction Related	\$0	Implementation	7/1/2014 6/30/2017	lcasolo@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location		Roxbury Road from Westhill to Westover			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Estimate based upon unit prices bid for similar projects.			
Land Acquisition	\$0						
FY 14/15 Total	\$300,000						

Term	20						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	300,000	0	0	0	0	0	300,000	500,000	5,000,000	0	0	0	0	5,800,000
Planning	0	0	0	0	0	0	0	800,000	5,000,000	0	0	0	0	5,800,000
Mayor	0	0	0	0	0	0	0	800,000	5,000,000	0	0	0	0	5,800,000
BOF	0	0	0	0	0	0	0	800,000	5,000,000	0	0	0	0	5,800,000
BOR	0	0	0	0	0	0	0	800,000	5,000,000	0	0	0	0	5,800,000

Reason for Project (if new)

This road has deteriorated to a point where normal overlay procedures will not sufficiently improve its condition and therefore are not cost effective solutions. A new drainage design is needed to improve and protect roadway pavement. Additionally the roadway needs to be realigned.

Fiscal Year 2014/2015 Capital Budget

0220 Operations: Engineering - Engineering
NEW MYANO LANE RECONSTRUCTION

No Balance

Priority

Dept	15
Planning	15

182 Funding will be used to re-construct roadway (approx. 500') at intersection of Catoona Lane, heading south. Drainage facilities and catch basins will be added as needed.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Lou Casolo		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5796			
Construction Related	\$0	Implementation	7/1/2015 6/30/2016	lcasolo@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location		Myano Lane from West Main street to Catoona Lane			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost		Estimate based upon unit prices from recent similar projects.			
Land Acquisition	\$0						
FY 14/15 Total	\$0						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	0	0	0	0	0	0	0	200,000	0	0	0	0	0	200,000
Planning	0	0	0	0	0	0	0	200,000	0	0	0	0	0	200,000
Mayor	0	0	0	0	0	0	0	200,000	0	0	0	0	0	200,000
BOF	0	0	0	0	0	0	0	200,000	0	0	0	0	0	200,000
BOR	0	0	0	0	0	0	0	200,000	0	0	0	0	0	200,000

Reason for Project (if new)

Fiscal Year 2014/2015 Capital Budget

0260 Operations: Administration - Maintenance Parks

C56169 PAVING & DRAINAGE

Balance: \$0.00 as of 6/30/2014

Priority

Dept 5

Planning 5

170 Upgrade renovations of paved surfaces and drainage systems in city parks and parking areas.

Detail Project Cost		Project Schedule		Contact Info	Justification for Inclusion in Capital Plan
Effective Date		Start	End	Kevin Murray (203) 977-4606 kmurray@StamfordCT.gov	<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input checked="" type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other
Design Development	\$20,000	Design			
Construction Related	\$280,000	Implementation			
Equipment Acquisition	\$0	Project Location Citywide Parks			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Professional Services	\$0				
Land Acquisition	\$0				
FY 14/15 Total	\$300,000	Method Used in Estimating Cost		Per Engineering Department	

Term	10						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	300,000	0	0	0	0	0	300,000	300,000	250,000	150,000	150,000	150,000	150,000	1,450,000
Planning	150,000	0	0	0	0	0	150,000	300,000	250,000	150,000	150,000	150,000	150,000	1,300,000
Mayor	150,000	0	0	0	0	0	150,000	300,000	250,000	150,000	150,000	150,000	150,000	1,300,000
BOF	150,000	0	0	0	0	0	150,000	300,000	250,000	150,000	150,000	150,000	150,000	1,300,000
BOR	150,000	0	0	0	0	0	150,000	300,000	250,000	150,000	150,000	150,000	150,000	1,300,000

Reason for Project (if new) lifespan of paving

FY 14-15 request will be to upgrade the following Park properties;

1. Cumming Park(Hurricane Barrier) roadway
2. John Boccuzzi at Southfield park Driveway
3. 426 Shippan Parks department
4. Dorothy Heroy Park Complex Parking area
5. Fort Stamford Driveway/Parking area
6. Merribrook Parking lot

Fiscal Year 2014/2015 Capital Budget

0260 **Operations: Administration - Maintenance Parks**
NEW **SCALZI PARK PHASE 4**

No Balance

Priority

Dept 3

Planning 3

451 Request of Phase 4 for additional Parking spaces for Scalzi Park

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Kevin Murray		<input checked="" type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input checked="" type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$10,000	Design		(203) 977-4606			
Construction Related	\$90,000	Implementation		kmurray@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location		Scalzi Park			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 14/15 Total	\$100,000						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	100,000	0	0	0	0	0	100,000	0	0	0	0	0	0	100,000
Planning	0	0	0	0	0	0	0	100,000	0	0	0	0	0	100,000
Mayor	0	0	0	0	0	0	0	100,000	0	0	0	0	0	100,000
BOF	0	0	0	0	0	0	0	100,000	0	0	0	0	0	100,000
BOR	0	0	0	0	0	0	0	100,000	0	0	0	0	0	100,000

Reason for Project (if new) Renovation enhancement and additional amenities created greater demand than originally anticipated for parking

FY 14-15 request- 100 k design development and construction of additional parking in Scalzi Park

Fiscal Year 2014/2015 Capital Budget

0900 Board of Education - Capital

C5B623 DISTRICT-WIDE PAVING & RESURFACING

Balance: \$7,576.07 as of 6/30/2014

Priority

Dept 7

Planning 7

56 Priority parking lots: Roxbury (200K) - Dolan (250K) - Toquam (350K)- Springdale Sidewalk (100K).

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Al Barbarotta		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input checked="" type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$90,000	Design	7/1/2014 6/30/2015	(203) 977-4525			
Construction Related	\$810,000	Implementation	7/1/2014 6/30/2020	abarbarotta@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Professional Services	\$0	Method Used in Estimating Cost		Contractor Estimates			
Land Acquisition	\$0						
FY 14/15 Total	\$900,000						

Term							Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	900,000	0	0	0	0	0	900,000	250,000	250,000	250,000	250,000	250,000	250,000	2,400,000
Planning	450,000	0	0	0	0	0	450,000	450,000	450,000	450,000	450,000	350,000	250,000	2,850,000
Mayor	250,000	0	0	0	0	0	250,000	450,000	450,000	450,000	450,000	350,000	250,000	2,650,000
BOF	250,000	0	0	0	0	0	250,000	450,000	450,000	450,000	450,000	350,000	250,000	2,650,000
BOR	250,000	0	0	0	0	0	250,000	450,000	450,000	450,000	450,000	350,000	250,000	2,650,000

Reason for Project (if new)

On going resurfacing projects at all schools. In many areas subsurface drainage system requires improvements before final paving.

Fiscal Year 2014/2015 Capital Budget

STF Short Term Financing - Capital

C65200 CITYWIDE VEHICLE REPLACEMENT & UPGRADE

Balance: \$665,310.32 as of 6/30/2014

Priority

Dept 1

Planning 1

91 To replace vehicles including but not limited to: Garbage/recycling trucks, Vac trucks and related equipment for operations and Public Safety.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Mike Scacco		<input type="checkbox"/> Life Safety <input type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input type="checkbox"/> Public Safety Health <input type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5520			
Construction Related	\$0	Implementation		mscacco@StamfordCT.gov			
Equipment Acquisition	\$9,019,575	Project Location					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 14/15 Total	\$9,019,575						

Term	5						Capital Forecast							
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	9,019,575	0	0	0	0	0	9,019,575	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	27,019,575
Planning	3,369,500	0	0	0	0	0	3,369,500	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	21,369,500
Mayor	1,967,194	0	0	0	0	1,402,306	3,369,500	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	21,369,500
BOF	1,967,194	0	0	0	0	1,402,306	3,369,500	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	21,369,500
BOR	1,967,194	0	0	0	0	1,402,306	3,369,500	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	21,369,500

Reason for Project (if new)

Fiscal Year 2014/2015 Capital Budget

0033 Special Revenue - Water Pollution Control
CP5241 STORM WATER PUMP STATIONS

Balance: \$1,797,253.27 as of 6/30/2014

Priority

Dept 3

Planning 3

86 To upgrade and perform major repairs to the three barrier pump stations that are operated and maintained by WPCA. Upgrade Dyke Lane Pumping Station.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Chakravarti, Prakash		<input checked="" type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input checked="" type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design	7/1/2013 11/30/2013	(203) 977-5896			
Construction Related	\$0	Implementation	4/1/2014 7/30/2015	pchakravarti@StamfordCT.gov			
Equipment Acquisition	\$700,000	Project Location		STAMFORD HURRICANE BARRIER			
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 14/15 Total	\$700,000						

Term	20						FY 14/15	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	700,000	0	0	0	0	0	700,000	0	0	150,000	0	0	150,000	1,000,000
Planning	350,000	0	0	0	0	0	350,000	350,000	0	150,000	0	0	150,000	1,000,000
Mayor	350,000	0	0	0	0	0	350,000	350,000	0	150,000	0	0	150,000	1,000,000
BOF	350,000	0	0	0	0	0	350,000	350,000	0	150,000	0	0	150,000	1,000,000
BOR	350,000	0	0	0	0	0	350,000	350,000	0	150,000	0	0	150,000	1,000,000

Reason for Project (if new)

WPCA MAINTAINS THE STAMFORD HURRICANE BARRIER AND THREE ASSOCIATED PUMP STATIONS. THE DYKE LANE PUMP STATION IS BEING EVALUATED AND GENERATORS WILL BE INSTALLED AT ALL STATIONS. DYKE LANE PUMPS REQUIRE SOFT STARTS TO REDUCE THE POWER CONSUMPTION AND THE HIGH VOLTAGE TRANSFORMERS HAVE TO BE RELOCATED OUTSIDE THE PUMP ROOM FOR SAFETY. THE OTHER STORM WATER PUMP STATIONS NAMELY CUMMINGS AND WAPANAU STATIONS NEED TO BE WIRED FOR EMERGENCY GENERATORS ESTIMATED AT \$150,000.

Fiscal Year 2014/2015 Capital Budget

0033 **Special Revenue - Water Pollution Control**
CP2047 **PROJECT GIS**

Balance: \$447,651.28 as of 6/30/2014

Priority

Dept 0

Planning 0

98 Develop storm & sanitary sewer GIS data layers. Conversion of all data into geodatabase format for asset management. Project to be managed by GIS unit of Technology Management Services.

Detail Project Cost		Project Schedule		Contact Info		Justification for Inclusion in Capital Plan	
Effective Date		Start	End	Chakravarti, Prakash		<input type="checkbox"/> Life Safety <input checked="" type="checkbox"/> Continues On-Going Project <input type="checkbox"/> Leverages Other Funds <input checked="" type="checkbox"/> Infrastructure <input type="checkbox"/> Quality of Life <input checked="" type="checkbox"/> Plan Related <input checked="" type="checkbox"/> Public Safety Health <input checked="" type="checkbox"/> Mandated Legal <input type="checkbox"/> Positive Revenue Impact <input type="checkbox"/> Positive Operational Impact/Efficiency <input type="checkbox"/> Other	
Design Development	\$0	Design		(203) 977-5896			
Construction Related	\$0	Implementation	1/2/2012	pchakravarti@StamfordCT.gov			
Equipment Acquisition	\$0	Project Location					
Miscellaneous Costs	\$0	Is this project for construction, reconstruction or remodeling of any building or facility leased by the City and open to the public? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Professional Services	\$0	Method Used in Estimating Cost					
Land Acquisition	\$0						
FY 14/15 Total	\$0						

Term	10						FY 14/15	Capital Forecast						
	City Bond	WPCA Bond	ST Grant	Loan	Fed Grant	Other		FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Dept	0	0	0	0	0	0	0	100,000	0	100,000	0	100,000	0	300,000
Planning	0	0	0	0	0	0	0	100,000	0	100,000	0	100,000	0	300,000
Mayor	0	0	0	0	0	0	0	100,000	0	100,000	0	100,000	0	300,000
BOF	0	0	0	0	0	0	0	100,000	0	100,000	0	100,000	0	300,000
BOR	0	0	0	0	0	0	0	100,000	0	100,000	0	100,000	0	300,000

Reason for Project (if new)

GIS MAPPING OF THE SEWER SYSTEM IS IN PROGRESS.

2014-2015 OPERATING BUDGET

City of Stamford

Operating and Special Revenue Funds Budget

Fiscal Year 2014-2015



Photo Credit: P. Rao

2014 Street Seats

David Martin, Mayor

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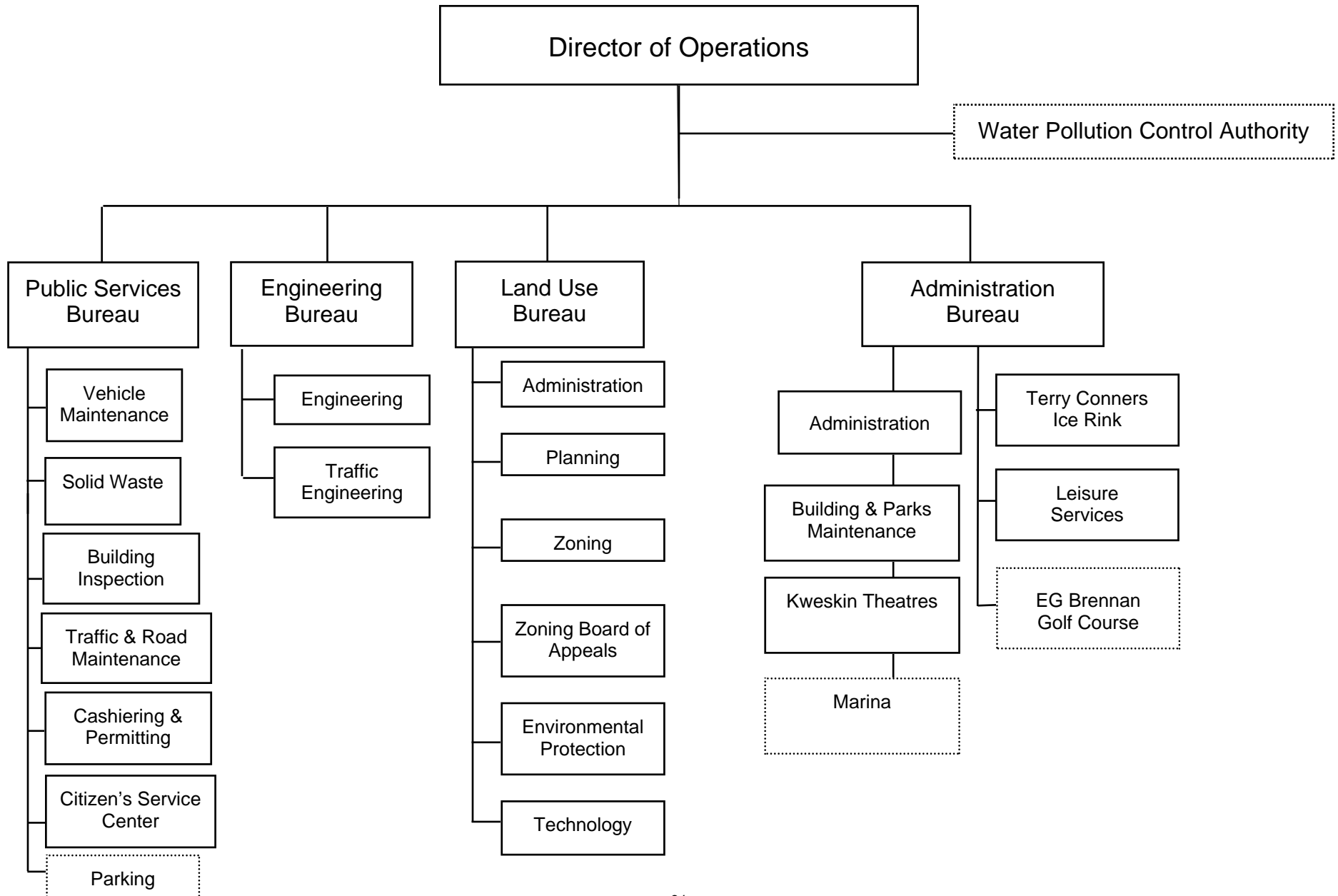
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City of Stamford Office of Operations



Fiscal Year 2014/2015 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 201 Operations: Public Services

		<i>FY 12/13 Actual</i>	<i>FY 13/14 Original Budget</i>	<i>FY 13/14 Revised Budget</i>	<i>FY 14/15 Department Request</i>	<i>FY 14/15 Mayor's Request</i>	<i>FY 14/15 Finance Board</i>	<i>FY 14/15 Board of Reps</i>
<i>Dept/Div: 0211 Traffic & Road Maintenance</i>								
2111	Traffic & Road Maintenance	4,928,595	4,618,005	4,861,806	5,450,194	5,450,194	5,395,391	5,394,979
2113	Leaf Collection	105,879	250,097	307,627	253,989	253,989	252,675	252,675
2114	Storm Account	2,550,408	1,082,722	2,025,531	1,091,526	1,080,526	1,072,125	1,072,125
2116	Stormwater Management	0	335,446	348,779	1,148,105	1,009,105	954,041	954,437
2538	Special Events	129,525	193,798	184,545	193,798	193,798	191,707	191,707
<i>Traffic & Road Maintenance Total</i>		<i>7,714,407</i>	<i>6,480,068</i>	<i>7,728,288</i>	<i>8,137,612</i>	<i>7,987,612</i>	<i>7,865,939</i>	<i>7,865,923</i>
<i>Dept/Div: 0212 Fleet Management</i>								
2121	Vehicle Maintenance	1,192,419	1,305,277	1,337,280	1,522,098	1,425,997	1,404,346	1,403,334
2122	Gasoline	913,097	803,300	888,442	842,520	842,520	842,520	842,520
<i>Fleet Management Total</i>		<i>2,105,516</i>	<i>2,108,577</i>	<i>2,225,722</i>	<i>2,364,618</i>	<i>2,268,517</i>	<i>2,246,866</i>	<i>2,245,854</i>
<i>Dept/Div: 0213 Facilities Management</i>								
2137	Building Inspection	1,226,796	1,252,227	1,261,200	1,546,733	1,546,733	1,523,138	1,519,890
<i>Facilities Management Total</i>		<i>1,226,796</i>	<i>1,252,227</i>	<i>1,261,200</i>	<i>1,546,733</i>	<i>1,546,733</i>	<i>1,523,138</i>	<i>1,519,890</i>
<i>Dept/Div: 0214 Solid Waste</i>								
2141	Transfer Station	1,773,653	1,901,977	1,991,095	2,093,410	2,090,180	2,036,805	2,038,322
2142	Recycling	1,463,900	1,293,181	1,274,739	1,465,578	1,460,195	1,428,435	1,428,339
2143	Collection	4,020,490	3,999,603	4,092,716	4,647,363	4,621,598	4,577,393	4,577,162
2144	Haulaway	4,150,863	3,741,000	4,079,442	4,362,560	4,327,560	4,327,560	4,327,560
<i>Solid Waste Total</i>		<i>11,408,906</i>	<i>10,935,761</i>	<i>11,437,992</i>	<i>12,568,911</i>	<i>12,499,533</i>	<i>12,370,193</i>	<i>12,371,383</i>
<i>Dept/Div: 0251 Cashiering</i>								
2510	Cashiering	48,001	55,101	57,221	63,250	55,906	52,138	51,693
<i>Cashiering Total</i>		<i>48,001</i>	<i>55,101</i>	<i>57,221</i>	<i>63,250</i>	<i>55,906</i>	<i>52,138</i>	<i>51,693</i>

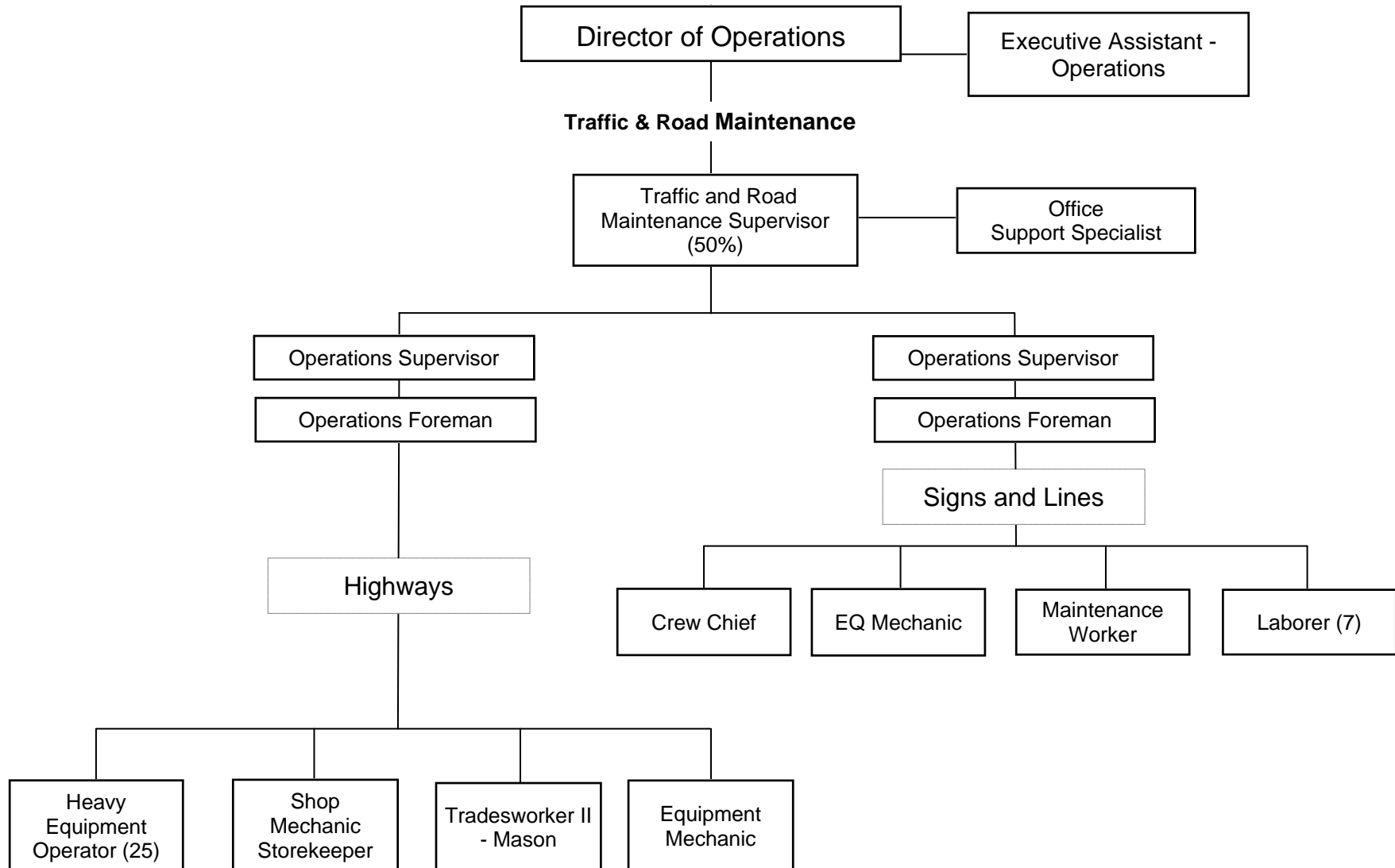
Fiscal Year 2014/2015 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 201 Operations: Public Services

	<i>FY 12/13 Actual</i>	<i>FY 13/14 Original Budget</i>	<i>FY 13/14 Revised Budget</i>	<i>FY 14/15 Department Request</i>	<i>FY 14/15 Mayor's Request</i>	<i>FY 14/15 Finance Board</i>	<i>FY 14/15 Board of Reps</i>
<i>Dept/Div: 0252 Citizen's Service Center</i>							
2520 Citizen's Service Center	159,141	150,959	166,218	191,922	191,922	175,900	176,405
<i>Citizen's Service Center Total</i>	<i>159,141</i>	<i>150,959</i>	<i>166,218</i>	<i>191,922</i>	<i>191,922</i>	<i>175,900</i>	<i>176,405</i>
<i>Operations: Public Services Total</i>	<i>\$22,662,767</i>	<i>\$20,982,693</i>	<i>\$22,876,640</i>	<i>\$24,873,046</i>	<i>\$24,550,223</i>	<i>\$24,234,174</i>	<i>\$24,231,148</i>

City of Stamford
Office of Operations
Traffic & Road Maintenance



Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2111 Traffic & Road Maintenance

Department Responsibilities:

Maintain all City of Stamford rights-of-way in a reasonable, safe and passable condition at all times and to provide installation and maintenance of signs and pavement markings.

Program: Road Maintenance

The minor repairs and maintenance of all potholes, catch basins, sidewalks, curbs and guardrails within the rights of way of the City of Stamford.
The removal of miscellaneous debris from the side of the roads.

Goal: Improve response time to repair/maintenance requests outside seasonal programs such as leaf pick-up and snow/ice removal.

- **Objective:** Respond to all major safety issues within 5 business days.

Results: The Department has been able to supply a 24 hour response to most major issues from the time of being reported.

- **Objective:** Respond to all basic repair/maintenance issues within 10 business days.

Results: 90% of service requests are responded to within 10 business days outside of the Leaf Pick-Up program and snow seasons.

Program: Traffic Maintenance

The repair/replacement/maintenance of all street signs and pavement markings along city streets and city parking areas.

Goal: Minimize downtime for any safety related traffic signage or pavement marking to maintain the safe travel of vehicles throughout the city.

- **Objective:** Repair/replace any safety related traffic signage/pavement markings within 2 business days of known issue.

Results: 95% of all service requests are addressed within 5 business days. 95% of found sign issues are addressed within 2 business days.

Fiscal Year 2014/2015 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2111 Traffic & Road Maintenance

<i>Union</i>	<i>Job ID</i>	<i>Job Title</i>	<i>Pos 13/14</i>	<i>Pos 14/15</i>	<i>FY 13/14 Budget Salary</i>	<i>FY 14/15 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>	<i>Comments</i>
UE	C340	Heavy Equip Operator	28	25	1,433,600	1,318,808	-114,792	-8.01%	Replace 3 HEO's with 3 Laborers
UE	C479	Laborer 37.5	3	7	138,627	327,227	188,599	136.05%	Replace 3 HEO's with 3 Laborers
MAA	C951	Operations Supervisor 40	2	2	207,396	207,396	0	0.00%	
MAA	C971	Traffic & Road Mtc Supv	1	1	109,593	113,957	4,365	3.98%	Contractual Step Increase
MAA	C952	Operations Foreman 40	1	1	86,810	86,810	0	0.00%	
MAA	C577	Operations Foreman 37.5	1	1	76,792	79,991	3,200	4.17%	Contractual Step Increase
UE	C332	Equipment Mechanic 37.5	1	1	60,083	61,872	1,789	2.98%	Contractual Wage Increase
UE	C926	Shop Mechanic/Storekeeper	1	1	59,259	61,023	1,764	2.98%	Contractual Wage Increase
UE	C510	Tradesworker II - Mason	1	1	27,412	57,126	29,714	108.40%	Position Funded for Full Year
UAW	C816	Traf Mtce Work-EQ Mech	1	1	57,008	57,008	0	0.00%	
UAW	C174	Crew Chief (Traffic)	1	1	53,617	53,617	0	0.00%	
UAW	C558	Office Support Specialist	1	1	46,513	46,513	0	0.00%	
UAW	C507	Maintenance Worker	2	1	87,987	41,302	-46,685	-53.06%	1 Maintenance Worker replaced with 1 Laborer
	BA	BUDGET ADJUSTMENT	0	0	-50,000	-40,000	10,000	-20.00%	
	CBPM	CHARGEBACK to Parking Mgmt Fund	0	0	-54,796	-56,979	-2,182	3.98%	
Total			44	44	\$2,339,900	\$2,415,672	\$75,772	3.24%	

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2111 Traffic & Road Maintenance

Reference #	Account Title	FY 12/13 Actual	FY 13/14 Original Budget	FY 13/14 Revised Budget	FY 14/15 Department Request	FY 14/15 Mayor's Request	FY 14/15 Finance Board	FY 14/15 Board of Reps
01421111100	Salaries	2,141,236	2,339,900	2,275,076	2,455,672	2,455,672	2,415,672	2,415,672
01421111202	Permanent Part-time	37,689	38,559	39,559	38,559	38,559	38,559	38,559
01421111203	Seasonal	78,641	40,000	40,000	40,000	40,000	30,000	30,000
01421111301	Overtime	118,152	50,000	86,218	50,000	50,000	49,091	49,091
01421111503	Tool Allowance	860	500	500	500	500	500	500
01421111901	Differential	11,460	16,778	17,278	16,778	16,778	16,778	16,778
01421111902	Stand-By Time	5,056	4,588	4,588	4,588	4,588	4,588	4,588
01421112120	Active Medical & Life	801,760	775,621	775,621	801,104	801,104	801,104	801,104
01421112121	Retiree Medical & Life	351,806	315,679	315,679	280,422	280,422	280,422	280,422
01421112200	Social Security	181,956	190,510	190,510	199,366	199,366	195,472	198,601
01421112302	Classified Pension Fund	0	0	0	376,768	376,768	376,768	376,769
01421112406	OPEB Contribution	0	0	0	170,651	170,651	170,651	170,651
01421112500	Unemployment Compensation	0	14,534	14,534	2,360	2,360	2,360	2,360
01421113202	Conferences & Training	640	0	0	0	0	0	0
01421113601	Contracted Services	26,509	33,150	33,150	33,150	33,150	33,150	33,150
01421114400	Equipment Rental	7,201	2,256	2,256	2,256	2,256	2,256	2,256
01421115240	Payments to Insurance Fund	534,288	385,679	385,679	549,769	549,769	549,769	549,769
01421115301	Telephone	16,485	12,557	15,500	12,557	12,557	12,557	9,075
01421115405	Postage	215	930	0	930	930	930	870
01421115500	Copying & Printing	5,090	4,995	5,859	4,995	4,995	4,995	4,995
01421116100	Office Supplies & Expenses	11,070	10,911	10,911	10,911	10,911	10,911	10,911
01421116501	Supplies - Land	91,828	75,000	187,922	75,000	75,000	75,000	75,000
01421116503	Street Painting Supplies	22,511	25,000	25,000	25,000	25,000	25,000	25,000
01421116504	Street & Traffic Signs	25,000	25,000	25,000	25,000	25,000	25,000	25,000

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2111 Traffic & Road Maintenance

Reference #	Account Title	FY 12/13 Actual	FY 13/14 Original Budget	FY 13/14 Revised Budget	FY 14/15 Department Request	FY 14/15 Mayor's Request	FY 14/15 Finance Board	FY 14/15 Board of Reps
01421116601	Vehicle Maintenance	420,936	200,000	355,000	200,000	200,000	200,000	200,000
01421116610	Software Maintenance	0	10,000	10,000	28,000	28,000	28,000	28,000
01421116700	Small Tools & Replacement	8,305	9,000	9,001	9,000	9,000	9,000	9,000
01421116801	Laundry	0	0	107	0	0	0	0
01421116901	Protective Clothing	0	5,000	5,000	5,000	5,000	5,000	5,000
01421116902	Uniforms	21,353	23,310	23,310	23,310	23,310	23,310	23,310
01421118909	OSHA Safety Requirement	8,548	8,548	8,548	8,548	8,548	8,548	8,548
Traffic & Road Maintenance Total		4,928,595	4,618,005	4,861,806	5,450,194	5,450,194	5,395,391	5,394,979

Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2113 Leaf Collection

Department Responsibilities:

To meet state requirements for reducing solid waste transported to landfills, maintaining reasonable and safe travel conditions along City of Stamford rights-of-way, and accommodating curb side residential leaf pick-up on an annual basis.

Program: Annual Leaf Pick-up

To pick-up all the fallen leaves from residential properties that were collected and left curb side by the residents.

Goal: To complete the leaf pick-up program in a timely manner, with no worker injuries or damage to property.

- **Objective:** Complete the leaf pick-up program within 15 business days (typical start date is the day after Veteran's Day in November), to allow for sufficient prep time before the first snow fall.
Results: The 2013-2014 Leaf Pick-Up program took an overall of 21 business days to complete. Delays were caused by bad weather such as freezing temperatures, heavy rains and snow which required plowing.
- **Objective:** To hold monthly safety meetings to review City and labor force safety issues.
Results: During the 2013-2014 Leaf Pick-Up program there were 2 minor accidents involving vehicles and 2 minor injuries reported.

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2113 Leaf Collection

<i>Reference # Account Title</i>	<i>FY 12/13 Actual</i>	<i>FY 13/14 Original Budget</i>	<i>FY 13/14 Revised Budget</i>	<i>FY 14/15 Department Request</i>	<i>FY 14/15 Mayor's Request</i>	<i>FY 14/15 Finance Board</i>	<i>FY 14/15 Board of Reps</i>
01421131203 Seasonal	38,218	110,711	112,211	110,711	110,711	110,711	110,711
01421131301 Overtime	2,276	70,040	130,070	72,250	72,250	70,936	70,936
01421132200 Social Security	13,827	13,827	13,827	13,997	13,997	13,997	13,997
01421132500 Unemployment Compensation	28,988	26,307	26,307	11,738	11,738	11,738	11,738
01421135240 Payments to Insurance Fund	6,570	9,212	9,212	25,293	25,293	25,293	25,293
01421135400 Advertising/Official Notices	0	4,000	0	4,000	4,000	4,000	4,000
01421136501 Supplies - Land	8,000	8,000	8,000	8,000	8,000	8,000	8,000
01421136700 Small Tools & Replacement	8,000	8,000	8,000	8,000	8,000	8,000	8,000
<i>Leaf Collection Total</i>	<i>105,879</i>	<i>250,097</i>	<i>307,627</i>	<i>253,989</i>	<i>253,989</i>	<i>252,675</i>	<i>252,675</i>

Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2114 Snow Removal

Department Responsibilities:

To manage the resources, materials and manpower necessary to effectively combat and clean up the results of any and all snow fall, icy conditions, extreme winds and natural or man made disasters in order to maintain reasonable and safe access for all residents and visitors of the City of Stamford.

Program: Snow Removal Program

The mobilization of manpower and vehicles to remove all snow from the streets, sidewalks, and parking areas under the care of the City of Stamford which includes all the parks, areas around public facilities and 54 snow removal routes throughout the streets of the city.

Goal: To be ready, before the first snow fall, to provide a quick response to any and all snow fall amounts to prevent the accumulation of snow on the streets, sidewalks and parking areas under the care of the City of Stamford, with no damage to property or worker injuries.

- **Objective:** Have all snow removal equipment ready for use by mid December and/or before the first snow fall, directly after the leaf pick-up program.

Results: There have been 8 snow/ice events by the first week of January already for this 2013-2014 Winter Season. The equipment was ready and salt supplies were good.

- **Objective:** Hold monthly safety committee meetings to review City and labor force safety issues.

Results: No injuries for the season as of Mid January. (1) incident involving an accident during a snow event reported thus far.

Program: Ice Prevention Program

The mobilization of manpower, vehicles and materials to effectively prevent dangerous icy conditions from forming on the streets, sidewalks and public spaces under the care of the City of Stamford.

Goal: To be prepared and informed enough to provide proactive actions that would prevent any dangerous icy conditions from forming.

- **Objective:** To make sure there is enough salt stored in the domes for the winter season. There are 3 domes with a capacity of 4,000 tons each which requires 12,000 tons of salt for full readiness.

Results: In the first month and a half of the 2013-2014 Winter Season 6660 tons of salt had been used. There is about 6000 tons left at the ready with 3 months of winter left to go.

- **Objective:** To prevent any incidents from occurring due to icy conditions.

Results: An arctic vortex created extreme icing conditions this season with temperatures in the single digits. The extended icing issues from each storm caused higher incident rates than previous years.

Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2114 Snow Removal

Program: Emergency/Storm Response

The mobilization of manpower, materials and vehicles in response to any major disaster event to allow for safe passage of the emergency responders and residents.

Goal: To be prepared to respond and communicate efficiently during and after a major event in order to keep the roads free and clear from debris.

- **Objective:** To have all roads clear from debris enough to allow for safe passage within 24 hours of an event.

Results: Clean up after the snow stops falling typically takes 4 to 5 hours. Due to extreme cold temperatures and extraordinary icing conditions clean up time has expanded and maintaining ice free roads has in some storms taken days.

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

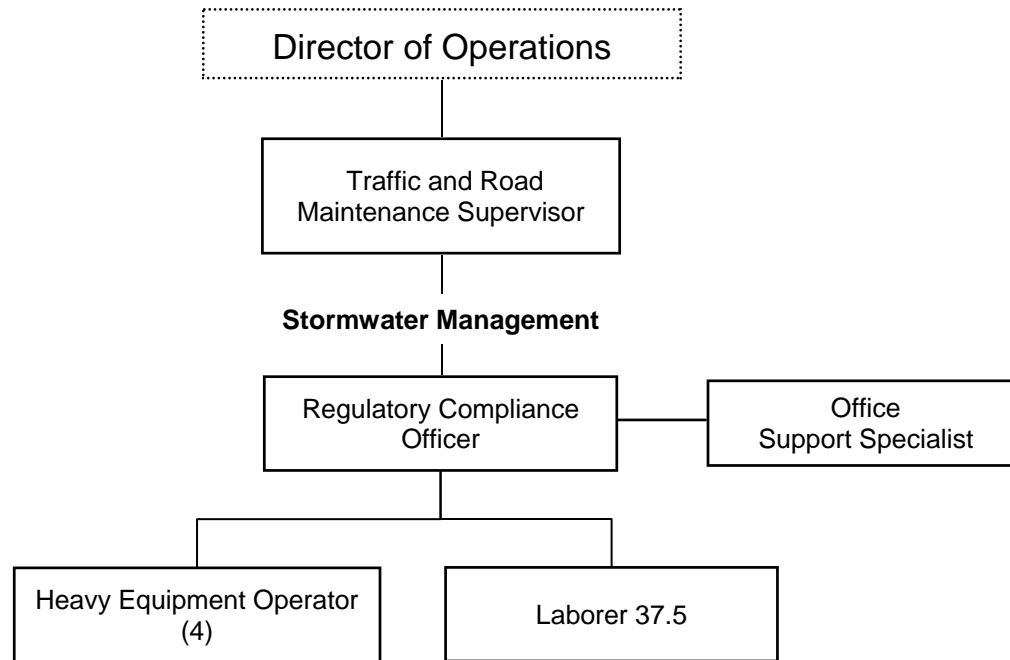
Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2114 Storm Account

<i>Reference # Account Title</i>	<i>FY 12/13 Actual</i>	<i>FY 13/14 Original Budget</i>	<i>FY 13/14 Revised Budget</i>	<i>FY 14/15 Department Request</i>	<i>FY 14/15 Mayor's Request</i>	<i>FY 14/15 Finance Board</i>	<i>FY 14/15 Board of Reps</i>
01421141203 Seasonal	140,337	0	2,500	0	0	0	0
01421141301 Overtime	1,285,708	462,000	751,963	462,000	462,000	453,599	453,599
01421142200 Social Security	35,343	35,343	35,343	35,343	35,343	35,343	35,343
01421143601 Contracted Services	316,454	1,000	19,332	11,000	11,000	11,000	11,000
01421145240 Payments to Insurance Fund	157,064	19,879	19,879	24,471	24,471	24,471	24,471
01421146501 Supplies - Land	6,500	6,500	6,500	6,500	6,500	6,500	6,500
01421146505 Salt & Sand	590,000	540,000	1,157,021	534,212	523,212	523,212	523,212
01421146602 Plow Repair	5,600	4,000	4,000	4,000	4,000	4,000	4,000
01421146605 Equipment Maintenance	13,402	14,000	28,993	14,000	14,000	14,000	14,000
<i>Storm Account Total</i>	<i>2,550,408</i>	<i>1,082,722</i>	<i>2,025,531</i>	<i>1,091,526</i>	<i>1,080,526</i>	<i>1,072,125</i>	<i>1,072,125</i>

City of Stamford
Office of Operations
Stormwater Management



Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2116 Storm Water Management

Department Responsibilities:

To ensure that the City of Stamford is in compliance with all state and federal regulations regarding storm water permitting. Included in this cost center is a chargeback to the WPCA for operations and maintenance of the pump stations and hurricane barrier.

Program: MS4 Permit

Fulfilling all obligations described within the DEEP issued MS4 permit which regulates all the storm water discharges within the City such as storm water drainage system, rivers and lake outfalls and overall non-permeable surface drainage.

Goal: To quickly build a team that can effectively and efficiently comply with all the requirements outlined in the MS4 permit.

- **Objective:** To use GPS to map out and clean all 15,000 storm water catch basins in the City within the permitted time frame.

Results: New program - will report results next fiscal year.

- **Objective:** To use GPS to map out all the outfalls along the City's rivers and lakes.

Results: New program - will report results next fiscal year.

Program: Residential and Commercial Compliance

Ensuring that the residents and local businesses are in compliance with City, State and Federal regulations by using the latest storm water management techniques.

Goal: To educate the public about the need and benefits of proper Stormwater Management.

- **Objective:** To identify the sources of any outfalls that contain illicit discharges that can harm the water system.

Results: New program - will report results next fiscal year.

Goal: To educate the public so that they are aware of and can implement the latest storm water management techniques.

- **Objective:** To educate and prevent the public from dumping materials onto the roads that can end up in the storm water catch basins.

Results: New program - will report results next fiscal year.

Goal: To establish the proper ordinances to allow for proper enforcement of all the MS4 regulations.

- **Objective:** Establish funding for implementation.

Results: New objective – results will be reported in next fiscal year.

Fiscal Year 2014/2015 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 201 Operations: Public Services
Dept/Div: 0211 Traffic & Road Maintenance
Activity: 2116 Stormwater Management

<i>Union</i>	<i>Job ID</i>	<i>Job Title</i>	<i>Pos 13/14</i>	<i>Pos 14/15</i>	<i>FY 13/14 Budget Salary</i>	<i>FY 14/15 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>	<i>Comments</i>
UE	C340	Heavy Equip Operator	0	4	0	193,416	193,416	100.00%	Full Funding Previously Existing Position(s)
MAA	C961	Regulatory Compliance Officer	1	1	74,163	74,163	0	0.00%	
UE	C479	Laborer 37.5	0	1	0	45,417	45,417	100.00%	Full Funding Previously Existing Position(s)
UAW	C558	Office Support Specialist	0	1	0	42,192	42,192	100.00%	Full Funding Previously Existing Position(s)
	BA	BUDGET ADJUSTMENT	0	0	-74,163	-42,192	31,971	-43.11%	
Total			1	7	\$0	\$312,996	\$312,996	89427428.57%	

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 201 Operations: Public Services

Dept/Div: 0211 Traffic & Road Maintenance

Activity: 2116 Stormwater Management

Reference #	Account Title	FY 12/13 Actual	FY 13/14 Original Budget	FY 13/14 Revised Budget	FY 14/15 Department Request	FY 14/15 Mayor's Request	FY 14/15 Finance Board	FY 14/15 Board of Reps
01421161100	Salaries	0	0	13,333	355,188	355,188	312,996	312,996
01421161203	Seasonal	0	0	0	30,000	15,000	8,000	8,000
01421161301	Overtime	0	0	0	20,000	10,000	9,818	9,818
01421162200	Social Security	0	0	0	30,997	30,997	25,307	27,233
01421163601	Contracted Services	0	0	0	200,000	150,000	150,000	150,000
01421164400	Equipment Rental	0	0	0	5,000	5,000	5,000	5,000
01421165301	Telephone	0	0	0	5,400	5,400	5,400	3,902
01421165405	Postage	0	0	0	2,000	500	500	468
01421165500	Copying & Printing	0	0	0	5,000	2,500	2,500	2,500
01421166100	Office Supplies & Expenses	0	0	0	10,000	5,000	5,000	5,000
01421166501	Supplies - Land	0	0	0	4,000	4,000	4,000	4,000
01421166601	Vehicle Maintenance	0	0	0	100,000	50,000	50,000	50,000
01421166605	Equipment Maintenance	0	0	0	2,000	2,000	2,000	2,000
01421166610	Software Maintenance	0	0	0	10,000	5,000	5,000	5,000
01421166700	Small Tools & Replacement	0	0	0	4,000	4,000	4,000	4,000
01421166901	Protective Clothing	0	0	0	3,000	3,000	3,000	3,000
01421166902	Uniforms	0	0	0	7,000	7,000	7,000	7,000
01421168859	Chargeback From WPCA	0	335,446	335,446	350,520	350,520	350,520	350,520
01421168909	OSHA Safety Requirement	0	0	0	4,000	4,000	4,000	4,000
<i>Stormwater Management Total</i>		0	335,446	348,779	1,148,105	1,009,105	954,041	954,437

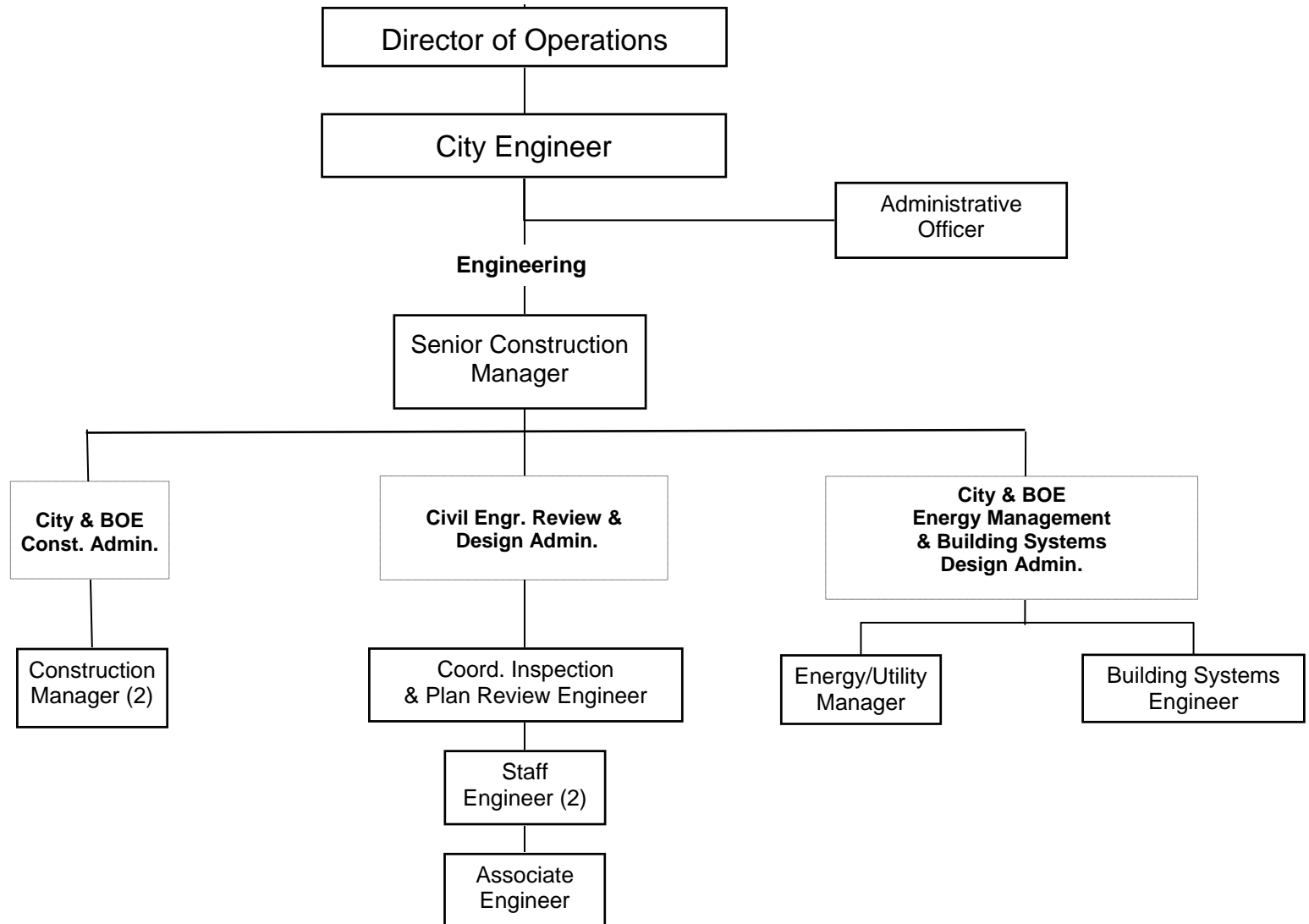
Fiscal Year 2014/2015 Activity Summary Report

Fund: 0001 General Fund

Bur/Offc: 202 Operations: Engineering

	<i>FY 12/13 Actual</i>	<i>FY 13/14 Original Budget</i>	<i>FY 13/14 Revised Budget</i>	<i>FY 14/15 Department Request</i>	<i>FY 14/15 Mayor's Request</i>	<i>FY 14/15 Finance Board</i>	<i>FY 14/15 Board of Reps</i>
<i>Dept/Div: 0220 Engineering</i>							
2200 Engineering	2,264,639	2,292,140	2,301,085	2,688,820	2,683,437	2,683,339	2,679,095
<i>Engineering Total</i>	<i>2,264,639</i>	<i>2,292,140</i>	<i>2,301,085</i>	<i>2,688,820</i>	<i>2,683,437</i>	<i>2,683,339</i>	<i>2,679,095</i>
<i>Dept/Div: 0221 Traffic Engineering</i>							
2210 Traffic Engineering	1,025,985	1,051,725	1,034,110	1,275,265	1,172,015	1,166,290	1,164,761
<i>Traffic Engineering Total</i>	<i>1,025,985</i>	<i>1,051,725</i>	<i>1,034,110</i>	<i>1,275,265</i>	<i>1,172,015</i>	<i>1,166,290</i>	<i>1,164,761</i>
<i>Operations: Engineering Total</i>	<i>\$3,290,624</i>	<i>\$3,343,865</i>	<i>\$3,335,195</i>	<i>\$3,964,085</i>	<i>\$3,855,452</i>	<i>\$3,849,629</i>	<i>\$3,843,856</i>

City of Stamford Office of Operations Engineering



Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Department Responsibilities:

The mission of Engineering Department is to deliver the City's substantial volume of design and construction projects in an expeditious, cost-effective manner while maintaining the highest degree of architectural, engineering, and construction quality.

The Engineering Department administers many capital improvement projects involving the City's infrastructure, including storm and sanitary sewers, school construction, roadways, sidewalks, bridges, parks, City building facilities, street lights, energy performance and mechanical systems. In addition to managing design and construction of Engineering Department projects, the Department has undertaken the management of many capital projects for other departments, including the Board of Education, Land Use, Police Department, Fire Department, Public Safety, Parks and Recreation Department, and Facilities Management.

The Department prepares and administers design of many public improvement projects "in house," with the majority of Board of Education and larger transportation projects utilizing professional consulting architects and engineers.

Furthermore, the Engineering Department supports internal customer relations (citizens services), permit issuance, public inquiries and maintains and updates all engineering records.

Program: Administrative

The mission of the Administrative program is to support all activities within the Engineering Bureau as well as support internal customer relations (citizens services), permit issuance, public inquiries and maintain and update all engineering records.

Goal: Respond to all inquiries in a timely manner.

- **Objective:** Respond to all public walk-in inquiries (i.e. research for plans and engineering records) within the same day.

Results: *On the average, the Department receives 10 walk-in requests a day. 98% of citizens received services and results within the same day. Some complicated requests required more time or more manpower to perform research and investigation, resulting in a delayed response.*

- **Objective:** Issue the Street Opening and Street Use permits within 3 days of receipt of the application and necessary documents required.

Results: *100% of Street Use permits are issued within 3 days of receipt of the application.*

Street Opening permit application requires more time to review. 75% of Street Opening permits were issued within 3 days of receipt of the application.

Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Program: Construction Management

The mission of the Construction Management program is to provide supervision and construction inspection of all capital projects being performed throughout the City so that projects are built in an efficient, high quality manner that allows for assets throughout the City to retain their value and provide effective services to the City for many years.

Engineering Department is also responsible for 3 capital programs. These programs include Street Resurfacing/Paving Program, Citywide Sidewalk Program, and Citywide Drainage Catch Basin and Manhole Replacement Program.

Goal: Complete capital projects on time and on budget with minimum interruption to residents, business owners, or school administration.

- **Objective:** Complete capital projects on or before deadlines i.e. school opening dates, grant expiration dates, federal guidelines, and etc.

Results: All schools opened on schedule. Project designs underway to perform construction during summer. State grants for eligible school construction being obtained. All paving and sidewalk projects programmed during this period were completed as scheduled before winter shutdown.

- **Objective:** Manage capital project expenses to fall within funding availability by performing value engineering, keep track of inspection daily record to quantify the use of contractor's labors and materials, comply with State or Federal guidelines in order to obtain as much grant opportunity possible to fund capital projects.

Results: Inspection of capital projects continues. Major State Grant projects have been bid and completed within this period. Work closely with OPM and Finance to comply with bond funding obligations on Board of Education projects.

Program: Design and Review

The mission of the Design and Review program is to prepare plans and bid specifications, assist in obtaining permits, oversee A&E design, conduct periodic subdivision reviews, so that projects throughout the City are performed in an efficient, safe and logical manner at the least possible cost to the taxpayer.

Goal: Complete engineering plan review thoroughly and in timely manner.

- **Objective:** Issue engineering sign-off and/or engineering review comments within 30 days of receipt of the plan.

Results: 100% of plans were reviewed and responded to on time.

Fiscal Year 2014/2015 Department Summary

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

Program: Planning

The mission of the Planning program is to determine project needs and costs and provide professional engineering services to city departments, outside contractors and design professionals so that projects throughout the City are performed in an efficient, safe and logical manner at the least cost to the taxpayer.

Goal: Plan wisely to meet capital project needs, funding availability, and project schedule.

- **Objective:** Determine capital budget amounts appropriately, submit capital project budget request and any supplemental budget request on time.

Results: The Department prepared, determined and submitted 19 capital budget requests of \$16.25 million for FY14/15 on time.

Budget preparation is a combination of addressing Citizens Service's complaints, coordination with utility companies, and many meetings with other City Departments to assess capital needs.

- **Objective:** Coordinate with local, state and federal agencies to meet project requirements, and to obtain grant funding.

Results: In FY13/14, CT DOT awarded \$173,640.50 grants for the Rehabilitation of June Road Bridge over the Mianus River, and \$554,973.13 for the Cold Spring Road Bridge Rehabilitation Project.

Fiscal Year 2014/2015 Full Time Salary Comparison

Fund: 0001 General Fund
Bur/Office: 202 Operations: Engineering
Dept/Div: 0220 Engineering
Activity: 2200 Engineering

<i>Union</i>	<i>Job ID</i>	<i>Job Title</i>	<i>Pos 13/14</i>	<i>Pos 14/15</i>	<i>FY 13/14 Budget Salary</i>	<i>FY 14/15 Budget Salary</i>	<i>Budget Salary \$ Increase</i>	<i>Budget Salary % Increase</i>	<i>Comments</i>
UAW	C878	Construction Manager	2	2	206,852	207,202	350	0.17%	Longevity Increase
UAW	C731	Staff Engineer	1	2	90,537	173,428	82,892	91.56%	Full Funding Previously Existing Position(s)
MAA	C142	City Engineer	1	1	147,528	147,628	100	0.07%	Longevity Increase
MAA	C950	Sr. Construction Manager	1	1	123,501	123,501	0	0.00%	
MAA	C948	Energy/Utility Manager	1	1	109,441	109,441	0	0.00%	
MAA	C982	Coord Insp Plan Rev Eng	0	1	0	98,695	98,695	100.00%	
MAA	C866	Administrative Officer	1	1	96,607	96,957	350	0.36%	Longevity Increase
UAW	C877	Building Systems Engineer	1	1	83,794	89,466	5,672	6.77%	Inc to 40 hrs per week
UAW	C882	Associate Engineer	1	1	73,598	73,598	0	0.00%	
MAA	C170	Coord Inspect & Plan Review 35	1	0	91,181	0	-91,181	-100.00%	
Total			10	11	\$1,023,039	\$1,119,917	\$96,877	9.47%	

Fiscal Year 2014/2015 Board of Representatives Operating Budget

Fund: 0001 General Fund

Bur/Office: 202 Operations: Engineering

Dept/Div: 0220 Engineering

Activity: 2200 Engineering

Reference #	Account Title	FY 12/13 Actual	FY 13/14 Original Budget	FY 13/14 Revised Budget	FY 14/15 Department Request	FY 14/15 Mayor's Request	FY 14/15 Finance Board	FY 14/15 Board of Reps
01422001100	Salaries	910,511	1,023,039	1,029,131	1,119,917	1,119,917	1,119,917	1,119,917
01422001203	Seasonal	7,891	0	351	0	0	0	0
01422001301	Overtime	12,042	5,000	5,902	10,000	5,000	4,909	4,909
01422002120	Active Medical & Life	175,996	163,289	163,289	202,946	202,946	202,946	202,946
01422002121	Retiree Medical & Life	181,577	163,282	163,282	150,727	150,727	150,727	150,727
01422002200	Social Security	75,998	78,645	78,645	86,439	86,056	86,049	86,056
01422002302	Classified Pension Fund	0	0	0	201,861	201,861	201,861	201,861
01422002406	OPEB Contribution	0	0	0	79,633	79,633	79,633	79,633
01422002500	Unemployment Compensation	2,985	0	0	0	0	0	0
01422002600	Classified 401A Match	0	0	0	2,961	2,961	2,961	2,961
01422003623	Contracted Svcs/Street Light Maint.	27,000	27,000	27,000	27,000	27,000	27,000	27,000
01422004400	Equipment Rental	2,418	2,420	2,420	2,420	2,420	2,420	2,420
01422005240	Payments to Insurance Fund	2,694	9,035	9,035	18,181	18,181	18,181	18,181
01422005301	Telephone	15,595	14,930	13,930	14,930	14,930	14,930	10,789
01422005405	Postage	1,073	1,700	1,000	1,700	1,700	1,700	1,590
01422005500	Copying & Printing	659	750	750	750	750	750	750
01422006100	Office Supplies & Expenses	10,066	9,375	9,375	9,375	9,375	9,375	9,375
01422006204	Electric - Utility	827,345	778,600	778,600	739,670	739,670	739,670	739,670
01422006601	Vehicle Maintenance	3,631	6,000	9,300	12,000	12,000	12,000	12,000
01422006605	Equipment Maintenance	3,248	3,330	3,330	3,330	3,330	3,330	3,330
01422006610	Software Maintenance	1,000	1,860	1,860	1,950	1,950	1,950	1,950
01422008100	Dues & Fees	2,910	3,885	3,885	3,030	3,030	3,030	3,030
Engineering Total		2,264,639	2,292,140	2,301,085	2,688,820	2,683,437	2,683,339	2,679,095

APPENDIX L

JOB DESCRIPTIONS – NEW STAFF

REGULATORY COMPLIANCE & ADMINISTRATIVE OFFICER - OPERATIONS

GENERAL SUMMARY OF DUTIES

Under the general direction of the Director of Operations or designee, is responsible for ensuring City agency, resident and business compliance with environmental permits, procedures and mandated regulations. May issue notice of violations as needed to ensure compliance. Exercise supervision over employees and contractors as assigned. Assists in the long term planning and operations of the Office of Operations; does related work as required.

EXAMPLES OF WORK (Illustrative Only)

Implements and manages responsibilities under the City of Stamford MS4 Storm water permit, including but not limited to, establishing educational programs for, interacting with, and assisting City agencies, residents and businesses in permit compliance.

Conducts investigations & enforces MS4 Stormwater compliance throughout the City according to the City of Stamford ordinance.

Collects, reviews and monitors permit required data; compiles reports for compliance and works to resolve permit noncompliance.

Monitors and inspects compliance with State General permit for stormwater discharge associated with industrial activities.

Conducts investigations, recommends action to be taken and makes follow-up inspections.

Establishes and maintains a comprehensive computerized record keeping system required for the MS4 permit.

Assists in the development and submission of the annual MS4 stormwater State report; maintains archives of reports, forms and records.

Plans, organizes and supervises work assignments of subordinates. Evaluates and coordinates employees' job performance. Supervises and participates in personnel activities.

Prepares budget recommendations and participates in the budgetary process.

Represents the Office of Operations on assigned committees, projects and activities.

Responds to emergencies at facilities and City-Wide areas of jurisdiction.

REQUIRED KNOWLEDGE, SKILLS & ABILITIES

Thorough knowledge of the operations, procedures and methods used in a public service administration.

Ability to enforce compliance/regulations with firmness and tact.

Knowledge of stormwater collection systems.

Ability to plan, develop, coordinate, implement and conduct a variety of educational programs for audiences of diverse backgrounds.

Ability to prepare for and conduct evaluations, inspections and compliance actions relating to assigned areas of responsibility.

Ability to effectively and courteously interact with the public, government agencies and city departments.

MINIMUM TRAINING & EXPERIENCE REQUIRED

Graduation from an accredited college or university with a bachelor's degree in Public Administration, a natural, physical or biological science or an enforcement discipline and five (5) years experience in law or regulatory enforcement, compliance or project management, at least four (4) of which shall have been in a government setting OR an equivalent combination of education and experience.

SPECIAL REQUIREMENTS: At time of application, possession of a valid motor vehicle operator's license.

WORK ENVIRONMENT

(The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.)

Work is generally performed in an office environment, but requires travel to a variety of locations to perform field work in all weather conditions. Employee may be exposed to noise from basic office equipment operation.

Essential functions may require maintaining physical condition necessary for walking rough terrain and climbing inclines at work sites. May also be exposed to conditions and hazards associated with construction sites and potentially hazardous materials and equipment, fumes or vapors. Work may also be performed in enclosed spaces.

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.

The job description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the job change.

341-11-T12-(E)
Revised- 03/16/78
Revised- 07/09/82
Revised- 12/29/88
Revised- 01/26/89
Revised- 04/28/92
Revised- 04/28/97
Revised- 02/26/04

HEAVY EQUIPMENT OPERATOR

GENERAL SUMMARY OF DUTIES

Under the general direction of a supervisor in the Office of Operations, performs a full range of skilled and unskilled manual tasks in the maintenance construction and repair of City roadways; operates and maintains all small hand and power tools and complex heavy equipment; does related work as required.

EXAMPLES OF WORK (Illustrative Only)

Operates hand and power equipment and tools, including but not limited to, movers, drills, saws and jackhammers.

Operates dump trucks, snowplows, sanding equipment, sweepers, loaders, vac-alls, bulldozers, graders, bobcat, asphalt roller, forklift and other heavy equipment.

Repairs sewer lines; raises and lowers manhole/catch basin covers; loads and unloads materials and supplies.

Cleans sidewalks, streets, gutters and catch basins.

Cuts grass and weeds with hand or power mower.

Picks up and disposes of papers, debris, leaves and branches.

Shovels snow and does necessary sanding and salting.

Follows assigned route on a schedule.

Performs routine maintenance service (including greasing, fluid check, and repair of safety lights and plow blades) and assists mechanic in equipment overhauling operations.

Checks before operating and during the work period, oil level, tire pressure and general condition of vehicle; makes minor maintenance adjustments.

Directs the work of helpers assigned to a particular job.

Uses safety precautions in the operation of equipment and advises supervisor of unusual conditions which may require more specialized attention.

-2-

HEAVY EQUIPMENT OPERATOR
341-11-T12 (E)

REQUIRED KNOWLEDGE, SKILLS & ABILITIES

Knowledge of the basic practices of the road/highway maintenance and construction trade.

Skill in the operation and minor maintenance of heavy vehicular equipment.

Good knowledge of traffic and safety rules and regulations.

Ability to use and make minor repairs to small tools and simpler mechanical equipment.

Ability to understand and follow oral and written instructions.

Ability for strength and endurance despite adverse conditions.

Ability to guide the work of Equipment Operators.

MINIMUM TRAINING & EXPERIENCE REQUIRED

Possession of a valid Commercial Driver's License and successful completion of six (6) months as an Equipment Operator with the City of Stamford.

338-11-T10
Revised- 03/17/78
Revised- 05/16/80
Revised- 07/09/82
Revised- 01/16/89
Revised- 03/27/89
Revised- 04/28/92
Revised- 04/28/97
Revised- 02/26/04

EQUIPMENT OPERATOR

GENERAL SUMMARY OF DUTIES

Under the general supervision of a supervisor or foreman in the Office of Operations, performs skilled and unskilled manual labor tasks in the maintenance, construction and repair of City roadways; operates and maintains small hand and power tools and less complex heavy equipment; does related work as required.

EXAMPLES OF WORK (Illustrative Only)

Operates hand and power equipment and tools, including but not limited to, mowers, drills, saws and jackhammers.

Operates dump trucks, snowplows, and sanding equipment.

Loads and unloads materials and supplies.

Repairs sewer lines.

Raises and lowers manhole/catch basin covers.

Cuts grass and weeds with hand or power mower.

Picks up and disposes of papers, debris, leaves and branches.

Cleans sidewalks, streets, gutters, and catch basins.

Shovels snow and does necessary sanding and salting.

Follows assigned route on a schedule.

Trains on heavy equipment such as front loaders, backhoes, spreaders, sweepers and vactors.

Checks before operating and during the work period, oil and other lubrication levels, tire pressure and general condition of vehicle.

Assists Heavy Equipment Operators in more skilled operations.

-2-

EQUIPMENT OPERATOR

338-11-T10

EXAMPLES OF WORK (Illustrative Only) (cont'd.)

Assists mechanic in equipment overhauling operations.

Uses safety precautions in the operations of the equipment and advises supervisor of unusual conditions that may require more specialized attention.

REQUIRED KNOWLEDGE, SKILLS & ABILITIES

Some knowledge of the basic practices of the construction and maintenance trade.

Skill in the operation and minor routine maintenance of heavy vehicular equipment.

Ability to use and make minor repairs to small tools and simpler mechanical equipment.

Working knowledge of traffic and safety rules and regulations.

Ability to understand and follow oral and written instructions.

Ability for strength and endurance despite adverse conditions.

MINIMUM TRAINING & EXPERIENCE REQUIRED

Two (2) years of experience in Public Works activities or in the construction trade, one (1) which must have involved the operation of heavy equipment OR two (2) years experience operating heavy equipment in another work setting OR two (2) years of experience as a Laborer with the City of Stamford.

SPECIAL REQUIREMENTS

At the time of application, possession of a valid Commercial Driver's License. Prior to original appointment, must pass comprehensive medical examination.

SPECIAL NOTE:

This is an entry/training level position. Upon successful completion of six (6) months of employment, promotion without examination will be made to the full working classification of Heavy Equipment Operator.

478-11-T10L
Revised- 01/05/78
Revised- 11/30/79
Revised- 07/01/88
Revised- 07/01/89
Revised- 08/05/02
Revised- 08/28/08

LABORER

GENERAL SUMMARY OF DUTIES

Under the general supervision of higher official, performs routine manual work of ordinary difficulty and responsibility in doing both heavy and light physical labor tasks and assisting in semi-skilled tasks; does related work as required.

EXAMPLES OF WORK (Illustrative Only)

Loads and unloads materials and supplies.

Cleans sidewalk, streets, gutters, and catch basins.

Cuts grass and disposes of leaves, papers, branches.

Carries cans and/or recycling bins of ashes, garbage, refuse and similar waste from houses and other buildings to street for collection.

Empties refuse and/or recycling into truck and returns cans/bins to proper location.

May substitute temporarily for Collection Driver.

Shovels snow and does necessary sanding and salting.

Performs incidental security work and minor maintenance and custodial work.

Works with maintenance employees as unskilled helper.

Occasionally may operate light and non-complex equipment in work.

In the Traffic Maintenance and Parking Division, installs pavement marking, traffic signage and performs related duties as required.

LABORER
T10L

REQUIRED KNOWLEDGE, SKILLS & ABILITIES

Ability to use hand tools and some motorized equipment.

Ability to carry out oral and simple written instructions.

Ability for strength and endurance despite adverse conditions.

Ability to work under unpleasant working conditions to include extreme weather conditions.

Ability to perform physical labor that involves repetitive (average of 500 times daily) bending, pulling, pushing, lifting and carrying of up to 75 pounds.

PHYSICAL DEMANDS AND WORK ENVIRONMENT

(The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The list is not all-inclusive and may be supplemented as necessary. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.) (n)

- This is heavy work requiring the exertion of 75 pounds of force occasionally, up to 50 pounds of force frequently and up to 25 pounds of force constantly to move cans and bins. (n)
- Work requires lifting, pulling, pushing, carrying, walking, standing, reaching, climbing, stooping, kneeling, crouching, and crawling. (n)
- Work requires the employee regularly working near moving motor vehicles and/or mechanical parts. (n)
- The employee is frequently works in inclement weather with exposure to the elements, including heat, rain, wind, snow or cold. (n)
- The employee frequently is exposed to garbage, debris, fumes, airborne particles, toxic or caustic chemicals. (n)
- The employee must be able to work flexible shifts and/or weekends. (n)

MINIMUM TRAINING & EXPERIENCE REQUIRED

There are no requirements for this position other than good physical health and stamina as is necessary to successfully perform the duties of this classification.