

STORMWATER POLLUTION PREVENTION PLAN

**BOROUGH OF NAUGATUCK
PUBLIC WORKS GARAGE
543 RUBBER AVENUE
NAUGATUCK, CONNECTICUT**

September 12, 2011

MMI #2129-22-1

Prepared for:

Borough of Naugatuck
Department of Public Works
229 Church Street
Naugatuck, Connecticut 06770

Prepared by:

MILONE & MACBROOM, INC.
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773

www.miloneandmacbroom.com

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE DESCRIPTION	1
2.1 Applicable Standard Industrial Classification (SIC) Codes.....	1
2.2 General Description and Current Use	2
2.3 Environmental Setting	3
2.4 Stormwater Conveyance Structures	4
3.0 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES	7
3.1 Drainage Area 001	7
3.2 Drainage Area 002	8
3.3 Drainage Area 003	8
3.4 Inventory of Exposed Materials and Potential Pollutant Sources.....	8
3.5 Spills and Leaks	9
4.0 MEASURES AND CONTROLS	10
4.1 Pollution Prevention Team	10
4.2 Good Housekeeping/Preventive Maintenance	11
4.3 Vehicle and Equipment Washing.....	13
4.4 Roof Areas	13
4.5 Sediment and Erosion Controls	13
4.6 Spill Prevention and Response Procedures.....	14
4.7 Employee Training.....	15
4.8 Nonstormwater Discharges	16
5.0 RECOMMENDATIONS FOR STORMWATER MANAGEMENT	16
6.0 MONITORING PROGRAM	17
6.1 Site Inspections	18
6.1.1 Semiannual Inspections	18
6.2 Outfall Monitoring	19
6.2.1 Quarterly Monitoring	19
6.2.2 Semiannual Monitoring	20

LIST OF TABLES

Table 3-1 Summary of Exposed Materials.....7
Table 4-1 Emergency Contact Information.....15

LIST OF FIGURES

Figure 1 USGS-Based Location Map.....5
Figure 2 Aerial-Based Location Map.....6

LIST OF APPENDICES

Appendix A Required Plan Certificates
Appendix B Spill & Leak Reporting Form and Summary of Chemicals Stored On Site
Appendix C Sample Inspection Reporting Form
Appendix D Site Plan

1.0 INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) has been developed for the Borough of Naugatuck (the Borough) Public Works Garage in accordance with the requirements of the General Permit for the Discharge of Stormwater Associated with an Industrial Activity, which goes into effect on October 1, 2011 (the General Permit). A copy of the General Permit is in Appendix A. Milone & MacBroom, Inc. (MMI) has been retained by the Borough to prepare this registration. In implementing this plan, it is the Borough's intent to prevent pollution of surface waters from stormwater that is generated by all operations. Site usage can be characterized under the Connecticut Department of Energy & Environmental Protection (DEEP) use code under Sector G – Transportation and Public Works.

Information contained in this SWPPP has been obtained from site inspections, facility records, and communications with municipal personnel. A copy of this plan shall be maintained at the site as required by Section 5(c)(1)(A) of the General Permit. An electronic copy of the plan shall also be placed on the Borough's website (<http://www.naugatuck-ct.gov>).

2.0 SITE DESCRIPTION

2.1 Applicable Standard Industrial Classification (SIC) Codes

The primary industrial activity at the Public Works Garage is classified under the primary Standard Industrial Classification Code (SIC) 9199 Public Works Garage and the North American Industrial Classification System Code 92119. Operations at the facility are categorized under Sector G – Transportation and Public Works.

All site operations are addressed in this SWPPP. The activities that take place at the property are subject to the conditions of the General Permit and include vehicle maintenance and storage.

2.2 General Description and Current Uses

The Naugatuck Department of Public Works (DPW) facility is located at 543 Rubber Avenue and consists of two parcels, with the Brookside Avenue right-of-way acting as the only separation between the two parcels. The facility is bordered by residential properties and Naugatuck High School to the north and by industrial properties to the east, south, and west. Figure 1 is a USGS-based location map of the facility. Figure 2 is an aerial-based location map of the facility.

Parcel #1 (Western Parcel)

Parcel #1 contains the DPW garage and is located at the southwest corner of the intersection of Rubber Avenue and Brookside Avenue. It is approximately 1.47 acres within the B-2 zone. Of this area, approximately 78% is impervious area (including buildings, paved areas, and gravel areas). The remainder of the site along the banks of Long Meadow Pond Brook is wooded.

The DPW garage is a 12,525-square foot (s.f.) flat-roofed brick structure built in 1950. The western portion is used for equipment storage, while the eastern portion is used for maintenance. Floor drains in the eastern maintenance bay have reportedly been permanently sealed. Floor drains in the storage bay have been connected to an existing oil/water separator that discharges to the sanitary sewer system in Rubber Avenue. Stored maintenance items include parts, oils, transmission fluid, and grease. A 2,500-gallon underground storage tank at the northeast corner of the site contains used crankcase oil for building heat. No vehicle fueling takes place at this facility.

The western corner of the site is utilized for storage of materials, including bituminous concrete, sand, and gravel. The material is divided with concrete block walls. Construction materials such as catch basins are stored along the banks of Long Meadow Pond Brook to the rear of the site.

An additional area along the southeast corner of the site is utilized for the storage of plows and road sand.

Parcel #2 (Eastern Parcel)

Parcel #2 is used for material storage and overflow parking and is located at the eastern corner of the intersection of Rubber Avenue and Brookside Avenue. It is approximately 0.38 acres in size, of which nearly all is impervious coverage. Materials stored include process stone, cold patch, pipe, concrete structures, risers, covers, and manholes. The materials are separated by concrete block walls and remain uncovered.

2.3 Environmental Setting

The southern property lines of both parcels are coincident with Long Meadow Pond Brook. As such, the rear/southern portions of the sites are located within the FEMA-delineated flood zone AE (1% annual chance floodplain with base elevations determined) and also within the floodway of Long Meadow Pond Brook per the New Haven County Flood Insurance Study effective December 17, 2010. The 1% annual chance floodplain elevation at the site is approximately 285 feet (NAVD88).

Both parcels are located within the Long Meadow Pond Brook subregional watershed (No. 6917-00-2-L4). Long Meadow Pond Brook drains to the Naugatuck River and is located within the Housatonic Major Basin. The CTDEEP Impaired Waters Monitoring Requirements Table has not identified Drainage Basin CT 6917-00-2-L4 of the Long Meadow Pond Brook as being impaired.

The CTDEEP July 2011 Natural Diversity Database (NDDDB) was accessed to determine whether state-listed special concern, threatened, and/or endangered species occur within the project limits. According to the database, there are no areas of concern within the site limits.

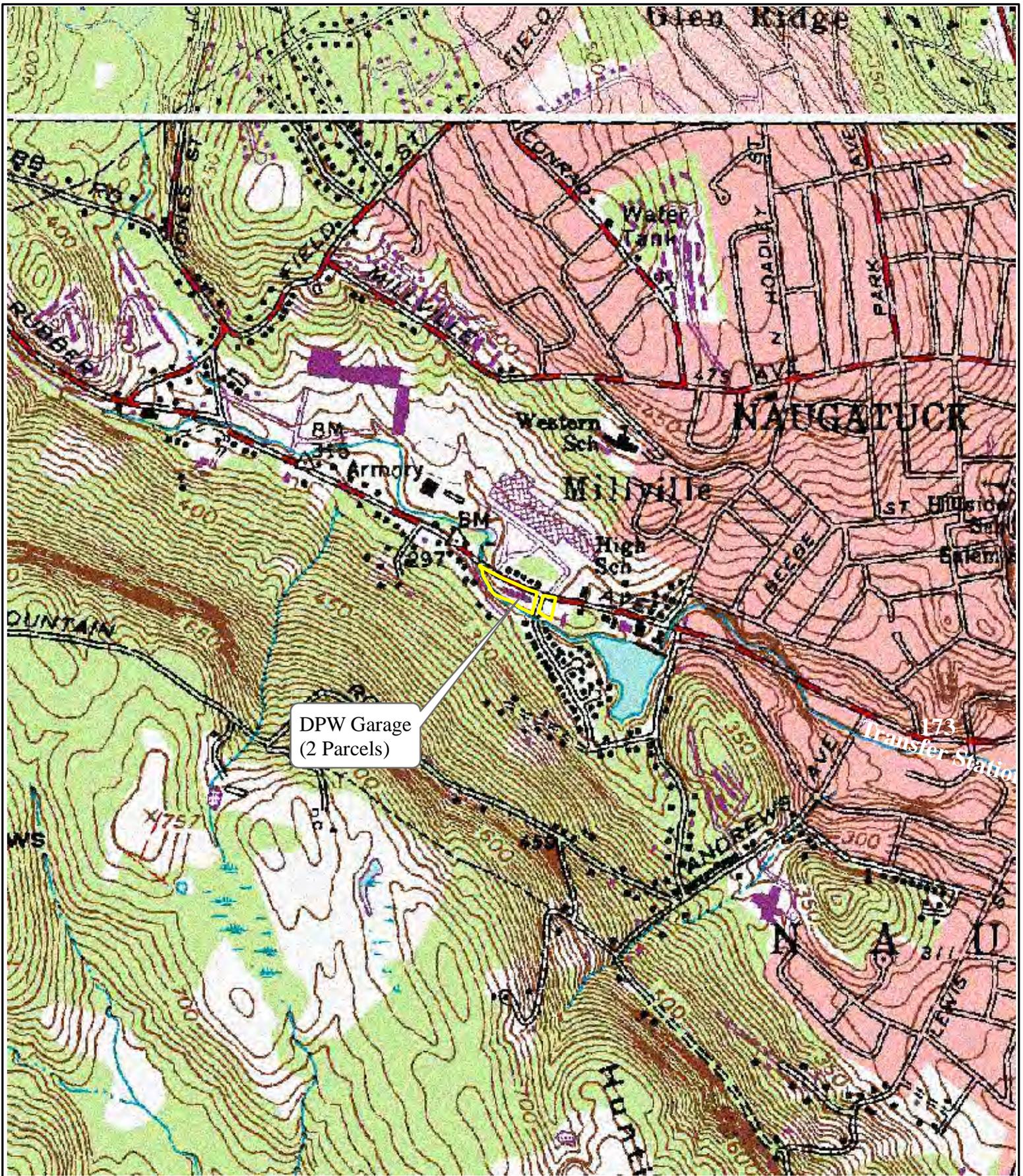
The parcels are not located in an Aquifer Protection Zone or any public water supply watersheds. The site is located outside of the Coastal Consistency Review Boundary.

2.4 Stormwater Conveyance Structures

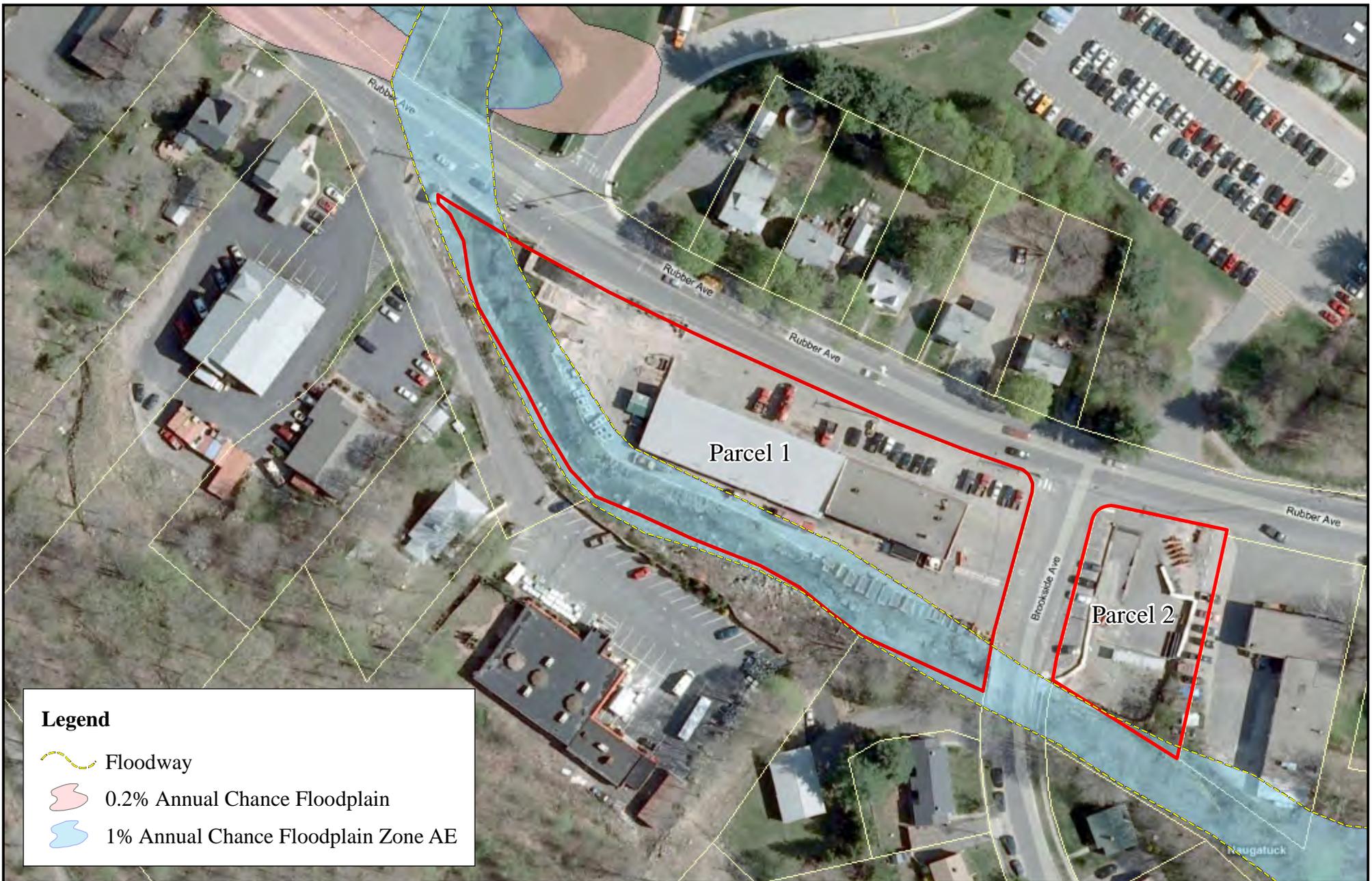
There are limited stormwater conveyance structures on Parcel #1 and no structures on Parcel #2. A catch basin located between the two easternmost garage bays collects vehicle wash water and discharges to an oil/water separator before connection to the sanitary sewer main in Rubber Avenue. There is no mechanism keeping rainwater from entering the catch basin and discharging to sanitary sewer.

A drywell located adjacent to the concrete traffic barrier wall and swing gate near the western end of the building collects stormwater runoff from the paved area surrounding in addition to runoff from the material storage area located at the western corner of the parcel. There is currently no basket or filter installed to trap sediment, and it was noted to be full of water during the June 2011 site visit. It appeared to be silted on during the July 2011 site visit.

The remaining portions of Parcel #1 and all of Parcel #2 sheet flow to public streets and Long Meadow Pond Brook. There are no direct discharge points for either site.



<p>Engineering, Landscape Architecture and Environmental Science</p> <p>MILONE & MACBROOM®</p> <p>99 Realty Drive Cheshire, Connecticut 06410 (203) 271-1773 Fax: (203) 272-9733 www.miloneandmacbroom.com</p>	<p>Borough of Naugatuck Public Works Garage 543 Rubber Avenue</p> <p>MMI#: 2129-22 MXD: P:\Fig1-PublicWorks.mxd SOURCE: USGS</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">Site Location Map</p>	<p>LOCATION: Naugatuck, CT</p> <p>Map By: BAM Date: June 2011 Scale: 1:12,000</p> <p>SHEET: Figure 1</p>
---	---	--



Legend

-  Floodway
-  0.2% Annual Chance Floodplain
-  1% Annual Chance Floodplain Zone AE


MILONE & MACBROOM
*Engineering,
Landscape Architecture
and Environmental Science*
 99 Realty Drive
 Cheshire, CT 06410
 Phone: (203) 271-1773
 Fax: (203) 272-9773

Borough Naugatuck Public Works Garage
543 Rubber Avenue

Location:
Naugatuck, CT

MMI#: 2129-22
 MXD: P:Fig2-PublicWorks
 Source: Virtual Earth



Site Location Map
Aerial Base

Map By: BAM
 Date: June 2011
 Scale: 1:1,200

Sheet:
Figure 2

3.0 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

In accordance with Section 5.(f).7 (Sector G of the General Permit), Table 3-1 is a summary of sources and activities within each respective drainage area that have the potential to contribute pollutants to stormwater runoff. The table also notes required management practices and controls in accordance with the requirements of the permit. The appended site plan indicates the location of potential sources of pollution within each watershed based on the activities that are currently carried out at the facility.

**TABLE 3-1
Summary of Exposed Materials**

Exposed Materials	Method of Storage	Management Practices	Controls	Pollutants of Concern*
Construction material storage	Stockpile			TSS
Vehicle Storage	Parked outside	Regular preventative maintenance. Inspections.	Catch basin	O&G

*Note: O&G = Oil and Grease
 COD = Chemical Oxygen Demand
 TSS = Total Suspended Solids
 TP = Total Phosphorous
 TKN = Total Kjeldahl Nitrogen

3.1 Drainage Area 001

DA-001 consists of stormwater runoff from the material storage area at the western portion of the site and surface runoff from the paved area surrounding (including a portion of Rubber Avenue given the lack of curbing). This drainage area discharge to a drywell has no outlet other than infiltration. Materials stored in the concrete block wall area to the west include bituminous waste, sand, and gravel. The materials remain uncovered.

3.2 Drainage Area 002

DA-002 consists of the southern portion of the site, which sheet flows to Long Meadow Pond Brook. It includes roof drainage from the garage building that slopes toward the brook and discharges via gutters and a downspout at the rear of the structure. There is no direct discharge point; rather, stormwater flows across the impervious surfaces and down the wooded banks of the brook.

3.3 Drainage Area 003

DA-003 consists of the northern and eastern portions of Parcel #1 and all of Parcel #2, which sheet flow to public streets and to Long Meadow Pond Brook. There is no direct discharge point; rather, stormwater flows across the impervious surfaces and down the wooded banks of the brook or to public streets.

3.4 Inventory of Exposed Materials and Potential Pollutant Sources

In accordance with Section 5(c)(2)(D)(ii) Inventory of Exposed Materials, the following sections provide a summary of specific activities that have the potential to impact stormwater quality.

Loading and Unloading Operations

Municipal vehicles are utilized for loading and unloading operations of construction materials.

Roof Areas

Activities at the buildings do not have process vents that would discharge to the roof and become potential stormwater contaminants.

Outdoor Storage Activities (Dumpsters, Equipment, and Leaf/Yard Waste)

A large portion of the both sites are used for the storage of construction materials such as bituminous, gravel, sand, and concrete. These materials are separated by concrete block retaining walls but are not covered.

Outdoor Manufacturing or Processing Activities

There are no outdoor manufacturing or processing activities at the facility.

Dust- or Particulate-Generating Processes

Material storage at both parcels has the potential for particulate generation as loading/unloading operations are completed.

On-Site Waste Disposal Practices

There is no active on-site solid waste disposal of goods.

3.5 Spills and Leaks

There have been no recorded spills or leaks of five gallons or more of toxic or hazardous substances at the facility that could affect stormwater. Any spills or leaks of five gallons or more will be recorded on site using the form provided in Appendix D of this plan.

4.0 MEASURES AND CONTROLS

The following stormwater management controls are in place for the operations at the facility. In addition to the control measures specified in "Control Measures" (Section 5(b)) of the General Permit, the following include the additional control measures as per sector-specific requirements.

4.1 Pollution Prevention Team

The Pollution Prevention Team is responsible for implementing the SWPPP, ensuring compliance with regulatory requirements, and providing acceptable environmental quality of the site and of the stormwater discharges. A number of Borough employees will be responsible for the implementation of the SWPPP.

Pollution Prevention Coordinator:

Borough Engineer: Wayne Zirolli, P.E.

Phone: (203) 720-7006

Email: WZirolli@naugatuck-ct.gov

- Responsibilities: *Coordinate all stages of SWPPP development and implementation, submit budget requests sufficient for proper site operation and maintenance, establish staff responsibilities and job duties and delegate them appropriately, establish and implement training programs as appropriate, maintain records and ensure regulatory reports are submitted as required, coordinate semiannual site inspections and annual water quality monitoring, periodically update the SWPPP as necessary.*

Member:

Director of Public Works: James Stewart, P.E.

Phone: 203-720-7071 or 203-720-7043

Email: JStewart@naugatuck-ct.gov

- Responsibilities: *Oversee the implementation of preventive maintenance and "good housekeeping" at the facility, respond to emergency situations, spill response coordinator.*

Member:

Public Works Supt.: Robert Roland

Phone: 203-720-7071 or 203-720-7043

Email: RRoland@naugatuck-ct.gov

- Responsibilities: *Oversee the implementation of preventive maintenance and "good housekeeping" at the facility; respond to emergency situations, spill response coordinator.*

The SWPPP will be updated by the Pollution Prevention Coordinator whenever (1) there is a change at the site that has an effect on the potential to cause pollution of the waters of the state or (2) the actions required by the plan fail to ensure or adequately protect against pollution of the waters of the state. The required SWPPP certifications are included herein as Appendix A.

4.2 Good Housekeeping/Preventive Maintenance

Proper housekeeping will be practiced at the site to prevent inadvertent discharges to the stormwater system. No washing of equipment or vehicles should be conducted except in the vehicle washing area. Any fluids or materials incorporated in vehicle maintenance should be collected with sorbent materials.

The Borough will maintain the integrity and effectiveness of all containers, material storage areas, and systems to contain pollutants and minimize exposure to rainfall and runoff. In addition to the placement of erosion controls as described below, the following preventive maintenance should be

completed as necessary based on the results of site inspections (see Section 3.10) as part of the preventive maintenance program:

- Inspect the drywell at the west end of the site. Consider providing pretreatment and replacing this structure if it is clogged and no longer provides effective infiltration.
- Inspect and clean catch basins at least annually.
- Inspect and clean gutters at rear of building.
- Perform sweeping of paved areas semiannually.
- Inspect the banks of the brook for erosion along the entire edge of the site.
- Cover all material, sand, and salt stockpiles with polyethylene sheeting.
- Inspect oil/water separator semiannually and pump as necessary.
- Drip pans shall be used when performing maintenance on vehicles.
- Fluid changes shall be performed in areas where floor drains are connected solely to oil/water separators prior to discharge to the sanitary sewer system.
- Spills shall be immediately cleaned with absorbent material. Speedi-dri, or other similar sorbent material, will be kept on site for spill cleanup. Used or "spent" Speedi-dri will be stored in 55-gallon drums until it can be properly disposed of off site. Spills will be cleaned up in accordance with the procedures outlined in this plan.
- Funnels shall be used to minimize leaks and spills when transferring fluids.
- Oily wastes shall be kept separate from other waste materials.
- Dirty rags shall be stored in a covered container.
- No drums shall be stored outdoors.
- Annual stormwater sampling shall be performed in accordance with Section 6.0 of the SWPPP and requirements of the General Permit.
- Silt fence or Coir Logs shall be placed behind equipment and material storage along the top of the Long Meadow Pond Brook bank to prevent materials from washing into the watercourse.

The primary areas for potential release of pollutants to stormwater include the material storage areas and drywell. All other maintenance bays have sealed floor drains, and the exterior catch basin discharges to sanitary sewer.

Since the catch basin that discharges to a drywell intercepts runoff from the material storage area, there is potential for any of the materials stored within these work areas to discharge to ground water. Surface runoff from both parcels also has the potential to contain pollutants that could discharge directly to the brook. Additionally, it is advisable to provide secondary containment for any stored chemicals or waste material.

4.3 Vehicle and Equipment Washing

Wastewater from vehicle washing activities drains to an oil/water separator and is then discharged to the sanitary sewer. The oil/water separator shall be inspected at least annually for the accumulation of sediment and oils and shall be cleaned out as necessary. The area draining surface runoff to the catch basin is limited to a 12' x 25' washing area that slopes to the basin. Protective measures should continue to be taken to minimize the volume of stormwater runoff that discharges through the separator to the sanitary sewer system.

4.4 Roof Areas

No roof areas were identified during the site inspections as being exposed to chemical or other pollutants. As such, preventative maintenance items are not necessary to prevent nonstormwater-related discharges. Specific recommendations for the installation of additional protective roofing or coverings are included in Section 5.0.

4.5 Sediment and Erosion Controls

Erosion and sedimentation controls shall be installed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. These controls will be installed and maintained

to protect the waters of the state. Additional recommendations have been included in Section 5.0. As site conditions may change, inspections that reveal potential erosion will be addressed by implementing additional measures to limit stormwater impacts. Maintenance activities will be performed as needed based on visual inspection by the SWPPP team.

Most of the site consists of either stable vegetation or pavement; however, some operations at the site have the potential to generate dust/particulates. Material stockpiling in the southeastern portion of the property boundary shall be addressed with the installation of silt fence or other sediment control measures around the stockpiles.

4.6 Spill Prevention and Response Procedures

Potential spill areas include the material storage area and the storage and maintenance bays. In the event of an accidental discharge of chemical material, the Pollution Prevention Coordinator will be notified immediately to coordinate response procedures. The Pollution Prevention Coordinator will be notified of releases regardless of spill quantity. If the spill represents an immediate health or explosion hazard, the Naugatuck Fire Department will be contacted immediately by dialing 911. The spill will also be reported to the DEEP Oil and Chemical Spills Unit at (860) 424-3338. A spill response record form is presented in Appendix C.

Containment of the spill will begin immediately using available manpower and materials. Sorbent material will be clearly marked and available at all potential spill locations. The spill will be contained as close to the source as possible with absorbent materials. These materials will be removed immediately and disposed of in a proper manner. Expended sorbent and its associated fluid will be removed and placed into a sorbent disposal drum. The waste drum will be located in an appropriate disposal area and removed to a qualified facility for proper treatment. In the event that containment of the spill is beyond the capability of the available manpower, the nearest available cleanup contractor will be notified. Any material released to the floor drains of the garage areas will be held in the oil/water separator prior to discharge to the sanitary sewer, thereby preventing any harmful impacts.

The garage foreman will be responsible for contacting the DEEP as well as local emergency management officials as required. A listing of Borough personnel and a state, local, and federal official who must be contacted in case of an emergency is included in Table 4-1.

**TABLE 4-1
Emergency Contact Information**

Agency	Contact Information
Emergency-Medical-Fire-Police	911
Naugatuck Fire Chief	(203) 720-7082
Naugatuck Police Department (Nonemergency)	(203) 729-5221
Area Health District	(203) 881-3255
Naugatuck Engineering	(203) 720-7006
CTDEEP Emergency Response and Spill Prevention	(860) 424-3338
CTDEEP Waste Management	(860) 424-3366
CTDEEP Water Management	(860) 424-3914
State Office of Emergency Medical Services	(860) 509-7975
State Fire Marshal/Bureau of Engineering	(860) 685-8350

4.7 Employee Training

Employees will be trained regarding the safe and appropriate handling of materials that are used on site as well as appropriate stormwater management techniques. The Pollution Prevention Coordinator or his designee will train new employees within 90 days of hire. A log will be kept to verify training has occurred.

Employees will receive training on this Pollution Prevention Plan, including its contents and recommendations. Training will include information on the importance of good stormwater management practices, spill response procedures, and material management practices. Storm drain structures will be identified during training, and the importance of preventing nonstormwater discharges will be discussed. Employees will also be taught good housekeeping and preventive maintenance practices. The spill prevention and response procedures will be reviewed such that each employee is familiar with the required practices in the event of a material spill.

4.8 Nonstormwater Discharges

The general permit identifies allowable nonstormwater discharges. These discharges are allowed, provided they do not impact water quality. Allowable nonstormwater discharges at the site include the following:

- Landscape irrigation and lawn watering runoff
- Uncontaminated ground water discharges such as from foundation drains and footing drains
- Residual street wash water
- Discharges containing no chemical additives (including chlorine) from flushing fire systems
- Naturally occurring discharges such as rising ground water and springs

Based on a review of operations and the site during the June 2011 site walk, it appears that certain facility modifications may be necessary to prevent the potential for nonstormwater-related discharges. These suggested modifications are included in Section 5.0.

5.0 RECOMMENDATIONS FOR STORMWATER MANAGEMENT

The following improvements are recommended, each intended to protect stormwater at this site. Engineering details of each of these improvements need to be evaluated in detail prior to implementation. The cost of the proposed improvements should be incorporated into a five-year capital improvement program, with the goal of completing construction of the improvements by the end of 2016.

- Replace dry well at western portion of property with appropriate pretreatment (i.e., oil/water separator) and connect to MS4 system in Rubber Avenue or discharge via adequately protected outfall to Long Meadow Pond Brook. If outfall is constructed,

sampling shall be completed in accordance with the monitoring program detailed in Section 6.0 of this SWPPP.

- Silt fence or Coir Logs shall be placed behind equipment and material storage along the top of the Long Meadow Pond Brook bank to prevent materials from washing into the watercourse.
- Cover material storage areas with polyethylene sheeting.
- Verify that all floor drains are fully disconnected from the storm drainage system in a manner that would prevent the discharge of any spill material.

6.0 MONITORING PROGRAM

The General Permit requires a standard monitoring program for registrants; however, certain sectors require a more detailed program given the sensitivity of the site usage. The permittee will comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur and where waste is exposed or potentially exposed to rainfall. These sector-specific requirements are in addition to any requirements specified elsewhere in the permit. Given the multiple sector specifications for the project site, the SWPPP includes additional plan requirements beyond those specified in Section 5(d).

Two types of ongoing site inspections will be performed. The first is periodic inspection of select areas. The second is a comprehensive site compliance evaluation. Site inspections will be completed by the Pollution Prevention Coordinator or his designee. Monitoring consists of site inspections, outfall inspections, and water quality sampling.

The Borough will maintain a site operating log. The logs will include records of date received, source of material, and designated storage. Up-to-date records of the facility operations will be maintained on site.

6.1 Site Inspections

6.1.1 Semiannual Inspections

The Borough shall conduct comprehensive site inspections no less frequently than twice a year. Inspections should be made during rainfall events if possible. Such evaluations shall include:

- Visual inspection of material handling areas and other potential sources of pollution identified in the plan for evidence of, or the potential for, pollutants entering the stormwater drainage system.
- Visual inspection of structural stormwater management measures, erosion control measures, and other structural pollution prevention measures.
- Visual inspection of spill response equipment.

Records shall be kept of all site inspections that summarize the scope of the inspection, personnel making the inspection, signature of the permittee, the date(s) of the inspection, major observations relating to the plan, actions taken, and updates made to the plan. All records shall be retained as part of the SWPPP for at least five years. A sample inspection form is included herein as Appendix F.

More frequent routine inspections should be completed at least monthly and shall include the visual inspection of all equipment and specific sensitive areas of the site. The evaluation should include a visual inspection of work areas, with particular emphasis on storage of materials in areas that may be exposed to rainwater. Records shall be kept on site that detail tracking or follow-up procedures. Other information that may be appropriate for recordkeeping includes:

- Maintenance performed
- Sampling type, location, volumes, etc.
- Observations of incidental site inspections
- Emergency conditions (spills, failures, etc.)
 - Time initiated and/or first detected
 - Nature of emergency
 - Effects on stormwater collection system and/or receiving stream
 - Corrective action taken
 - Authorities notified
 - Duration
 - Special sampling and results
 - Other pertinent documentation

No emergencies have been reported at the site to date. If an emergency condition were to arise, records would be kept to properly report the incident to the appropriate parties and to provide a means of dealing with similar conditions in the future. If the emergency caused a violation of the General Permit, the DEEP would be notified. Any accelerated stormwater sampling or other information required to fully document and describe the condition would also be recorded.

6.2 Outfall Monitoring

6.2.1 Quarterly Monitoring

Because the sites do not have any stormwater outfalls, stormwater sampling from the drywell adjacent to the material storage area is representative of stormwater discharge from the sites. Visual monitoring of stormwater samples at the existing drywell shall be completed on a quarterly basis. Monitoring samples shall be taken in a clean, clear glass or plastic container and examined in a well-lit area. If visual assessment indicates control measures are inadequate, permittee must review and revise the selection, design,

installation, and implementation of the control measure to ensure that the condition is eliminated and will not be repeated.

Parameter
Color (visual)
Odor
Clarity
Floating solids
Settled solids
Suspended solids
Foam
Oil Sheen
Obvious indicators of stormwater pollution

6.2.2 Semiannual Monitoring

Water quality samples from the drywell shall be taken on a semiannual basis. In addition to the standard monitoring required in "Monitoring" (Section 5(e)) for the given sector uses of the project site, the Borough is required to sample additional parameters under the same conditions as those required in Section 5(e). One semiannual sample shall be taken between October 1 and March 31, and the other shall be taken between April 1 and September 30. Semiannual samples shall be separated by at least 30 days. After four semiannual samples, if the average of four values for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for the permit term. The following parameters shall be evaluated:

Parameter	Benchmark
Sample pH (S.U.)	5-9
Rainfall pH (S.U.)	--
Total Iron (mg/l)	1.0
Chemical Oxygen Demand (mg/l)	75
Total Oil and Grease (mg/l)	5
Total Suspended Solids (mg/l)	--
Sample pH (S.U.)	5-9
Total Phosphorous (mg/l)	0.40
Total Kjeldahl Nitrogen (mg/l)	2.30
Nitrate as Nitrogen (mg/l)	1.10
Total Copper (mg/l)	0.059
Total Lead (mg/l)	0.076
Total Zinc (mg/l)	0.200
Aquatic Toxicity	Years 1 and 2

2129-22-1-s911-3-rpt

APPENDIX A
Required Plan Certifications

Public Works Garage
Naugatuck, Connecticut

**Certification of the
Stormwater Pollution Prevention Plan**

The following certification shall be signed by a professional engineer licensed to practice in Connecticut or a Certified Hazardous Materials Manager.

"I certify that I have thoroughly and completely reviewed the Stormwater Pollution Prevention Plan prepared for this site. I further certify, based on such review and site visit by myself or my agent, and on my professional judgment, that the Stormwater Pollution Prevention Plan meets the criteria set forth in the General Permit for the Discharge of Stormwater Associated with Industrial Activity effective on October 1, 2011. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."



Signature

9-15-11

Date

Nicole Burnham

Name

Associate

Title

20928 CT

P.E. Number (if applicable)

Certification of the Nonstormwater Discharges

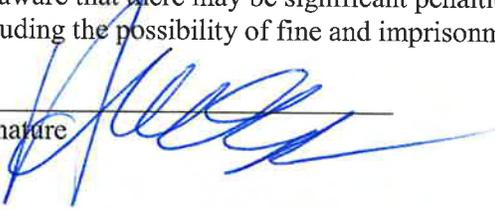
The following certification shall be signed by a professional engineer licensed to practice in Connecticut or a Certified Hazardous Materials Manager.

"I certify that in my professional judgment, the stormwater discharge from the site consists only of stormwater*, or of stormwater combined with wastewater authorized by an effective permit issued under section 22a-430 or section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided they do not contribute to a violation of water quality standards:

- Landscape irrigation or lawn watering
- Uncontaminated ground water discharges such as pumped ground water, foundation drains, water from crawl space pumps, and footing drains
- Discharges of uncontaminated air conditioner or refrigeration condensate
- Water sprayed for dust control or at a truck load wet-down station
- Naturally occurring discharges such as rising ground waters, uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands

This certification is based on testing and/or evaluation of the stormwater discharge from the site. I further certify that all potential sources of nonstormwater at the site, a description of the results of any test and/or evaluation for the presence of nonstormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the Stormwater Pollution Prevention Plan prepared for the site. I further certify that no interior building floor drains exist unless such floor drain connection has been approved and permitted by the commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

Signature



Date

9-15-11

Name

Nilolk Burnham

Title

Associate

P.E. Number (if applicable)

20928 CT

*Following implementation of the recommendations in Section 5.0 of the SWPPP.

APPENDIX B
Spill & Leak Reporting Form
Summary of Chemicals Stored On Site

Public Works Garage
Naugatuck, Connecticut

SUMMARY OF CHEMICALS STORED ON SITE

Material	Description/ Tank Size/ AST/UST	Location (Drainage Area)	Quantity (Estimated)	Exposed in Last Three Years		Likelihood of Contact with Stormwater	Known Past Significant Spills/Leaks	
				Yes	No		Yes	No
Unleaded gasoline	5-gal. containers	002	20 gallons		✓	Possible from overfilling of tank or truck.		✓
Motor oil	55-gal. drum, 1 gal. and ¼-gal. containers	002	125 gallons		✓	None. Stored in Municipal Garage.		✓
Used motor oil	Tank		275 gallons		✓	None. Stored in Municipal Garage.		✓
Used motor oil	UST		2,000 gallons		✓	None. Stored underground		✓
Automatic transmission fluid	55-gal. drum and 1/4- gal. drum		100 gallons		✓	None. Stored in Municipal Garage.		✓
DEF diesel exhaust fluid	55-gal. drums		110 gallons		✓	None. Stored in Municipal Garage.		✓
Hydraulic oil	55-gal. drums		110 gallons		✓	None. Stored in Municipal Garage.		✓
Antifreeze	55-gal. drum		55 gallons		✓	None. Stored in Municipal Garage.		✓
Gear lubricant	16-gal. drums		32 gallons		✓	None. Stored in Municipal Garage.		✓
Windshield washer fluid	1-gal. container		25 gallons		✓	None. Stored in Municipal Garage.		✓
Spray paint	Cans		15 cans		✓	None. Stored in Municipal Garage.		✓
Paint	1-gal. cans		5 gallons		✓	None. Stored in Municipal Garage.		✓
Bar and chain oil	1-gal. containers		2 gallons		✓	None. Stored in Municipal Garage.		✓
Brake cleaner, carb cleaner, spray oil	Spray cans		30 cans		✓	None. Stored in Municipal Garage.		✓
Car wash soap	1-gal. containers		6 gallons		✓	None. Stored in Municipal Garage.		✓
Paint thinner	1-gal. containers		2 gallons		✓	None. Stored in Municipal Garage.		✓
Sand/salt storage mix	Stockpile		60 tons		✓	Likely. Stored outside with no cover.		✓
Process aggregate	Stockpile		50 tons		✓	Likely. Stored outside with no cover.		✓
Mason sand	Stockpile		15 tons		✓	Likely. Stored outside with no cover.		✓
Cold patch	Stockpile		50 tons		✓	Likely. Stored outside with no cover.		✓

Note: AST = Aboveground storage tank, UST = Underground storage tank

APPENDIX C
Sample Inspection Reporting Form

Public Works Garage
Naugatuck, Connecticut

COMPLIANCE INSPECTION FORM
NAUGATUCK PUBLIC WORKS GARAGE

Inspection Completed By: _____

Date of Inspection: _____ Weather Conditions: _____

1. Catch Basin and Drywell Inspected? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

2. Gutters Inspected? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

3. Paved Areas in Need of Sweeping? _____ Yes _____ No
Action Taken: _____

4. Bank of Long Meadow Pond Brook Inspected? _____ Yes _____ No
Evidence of Erosion? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

5. Sand Storage Inspected? _____ Yes _____ No
Are Piles Covered? _____ Yes _____ No
Action Taken: _____

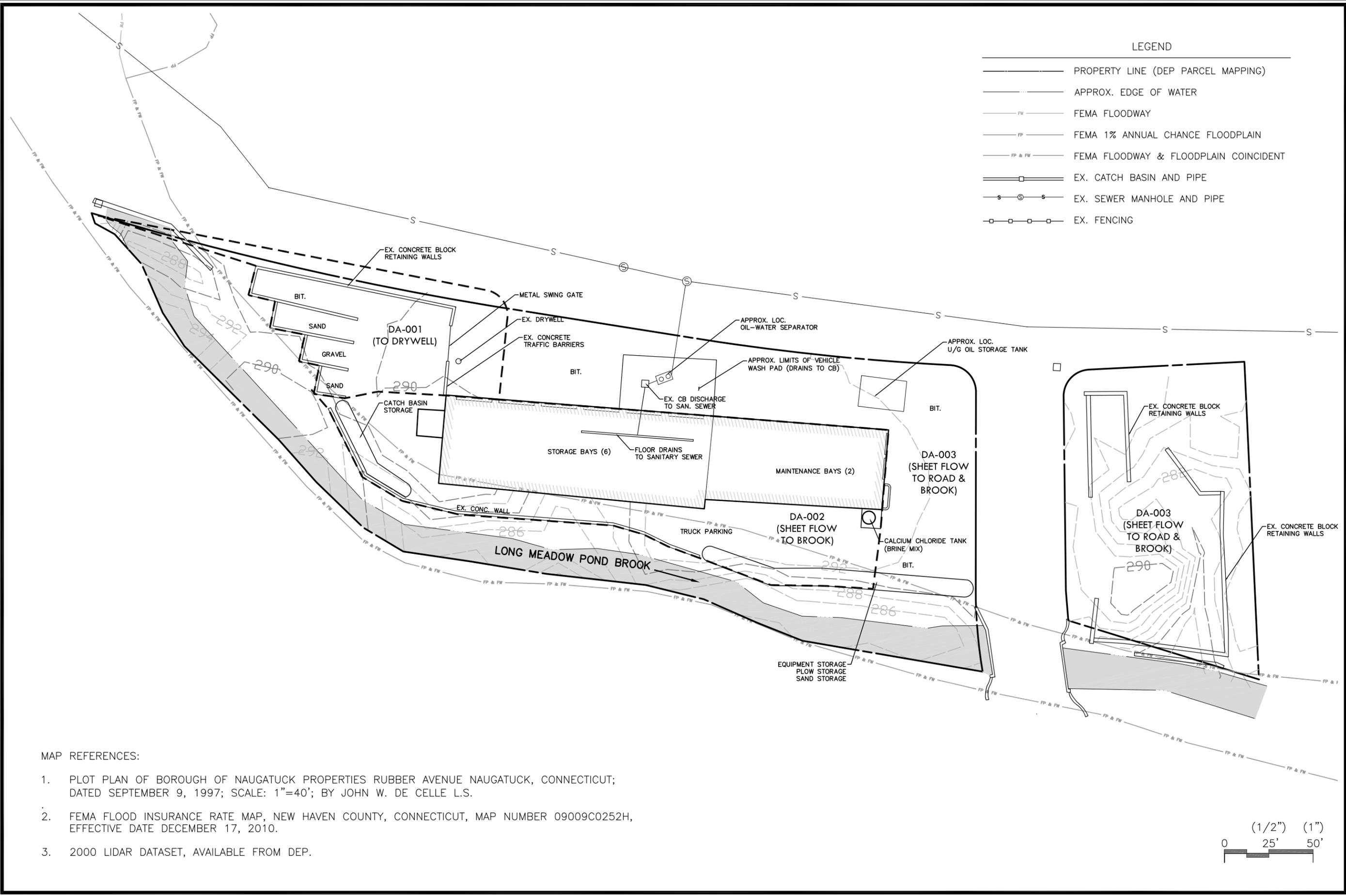
6. Oil / Water Separator Inspected? _____ Yes _____ No
Is routine cleaning needed? _____ Yes _____ No
Action Taken: _____

SIGNATURE: _____

DATE: _____

APPENDIX D
Site Plan

Public Works Garage
Naugatuck, Connecticut





MILONE & MACBROOM®
 Engineering, Architecture, and Environmental Science
 99 Realty Drive
 Cheshire, Connecticut 06410
 (203) 271-1773 Fax (203) 272-9733
 www.miloneandmacbroom.com

REVISIONS

SITE PLAN
 DEPARTMENT OF PUBLIC WORKS GARAGE
 INDUSTRIAL STORMWATER PERMIT
 543 RUBBER AVENUE
 NAUGATUCK, CONNECTICUT

DESIGNED	BAM	NB	DRAWN	CHECKED
SCALE 1"=50'				
DATE SEPT. 2011				
PROJECT NO. 2129-22				

SP-1

SHEET NO.