MOTT MACDONALD

Ms. Beverley Konopada, RMC, CMR
Borough Clerk
P.O. Box 4391
Brick, NJ 08723

Via Hand Delivery

Our Reference
394752ME01

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Freehold NJ 07728
United States of America

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mottmac.com/americas

Stormwater Pollution Prevention Plan (SPPP)
Tier A Municipal Stormwater General Permit
NJPDES #: NJG0153281; PI ID #: 203290
Borough of Mantoloking
Ocean County, NJ

May 21, 2018

Dear Ms. Konopada:

In accordance with the Tier A Municipal Stormwater General Permit for the Borough of Mantoloking, Mott MacDonald has revised and updated the attached Stormwater Pollution Prevention Plan (SPPP), dated 1-27-05, latest revised date of 5-2-18. As the appointed Stormwater Program Coordinator, I have executed the revised and updated SPPP on the cover and the SPPP Signature Page. In accordance with the Tier A Permit requirements, please retain the latest revised SPPP at the Borough Hall for use, reference, and possible future inspections by the general public and/or the NJDEP. Also, please find attached a disc containing a PDF electronic version of the latest revised SPPP and the Municipal Stormwater Management Plan. In accordance with the Tier A Permit requirements, please inform the webmaster to post both the SPPP and the Municipal Stormwater Management Plan on Mantoloking's official Borough website. If the webmaster requires another type of file format for posting on the website, please let me know.

Should you have any questions regarding the above or attached, please do not hesitate to call.

Very truly yours,
Mott MacDonald, LLC

Larry Plevier, P.E., CME
Borough Engineer / Stormwater Program Coordinator
T 732.780.6565
larry.plevier@mottmac.com

cc: Honorable Mayor George C. Nebel
Councilman Lance White
Scott Hulse, Superintendent of Public Works
Jean Cipriani, Esq., Borough Attorney
Colleen Malvasio, Engineering Department
Victoria Pecchioli, PP, LLA, Ocean County Planning Department
Anthony Washington, NJDEP Bureau of Nonpoint Pollution Control

BOROUGH OF MANTOLOKING
OCEAN COUNTY, NEW JERSEY

Stormwater Pollution Prevention Plan (SPPP)

NJPDES #: NJG0153281
PI ID #: 203290

Dated
January 27, 2005

Revised
June 2009
September 10, 2010
May 2, 2018

Lawrence Plevier, PE, CME
Stormwater Program Coordinator

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

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BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

INTRODUCTION

Background/Authorization

In December 1999, the United States Environmental Protection Agency (USEPA) issued Phase II Stormwater Rules to address pollutants entering municipal separate storm sewer systems, also referred to as "MS4s". To comply with USEPA requirements and goals of the stormwater program, the New Jersey Department of Environmental Protection (NJDEP) has developed the Municipal Stormwater Regulation Program, which regulates all 566 municipalities within the State.

As a result of the statewide Municipal Stormwater Regulation Program, the Tier A municipalities, including the Borough of Mantoloking, has been issued a Tier A Municipal Stormwater Master General Permit, number NJ0141852. The NJPDES permit number unique to the Borough of Mantoloking is NJG0153281, with an original "Effective Date of Permit Authorization" (EDPA) of April 1, 2004. The NJDEP has renewed the Tier A Municipal Stormwater General Permit for Mantoloking with a new EDPA of January 1, 2018. The Tier A Municipal Stormwater General Permit has mandatory elements that must be implemented to avoid possible enforcement action and penalties from the State, and the General Permit requires that the Borough prepare this Stormwater Pollution Prevention Plan (SPPP). The purpose of the plan is to document SPPP team member assignments, scope of activities, schedule, and completion dates of tasks necessary to meet permit mandated Statewide Basic Requirements (SBRs). The SBRs were developed by NJDEP for prevention of nonpoint-source stormwater pollution in order to improve the quality of our surface and ground waters, the health of our ecosystems, and ultimately the quality of our lives. The SPPP has been revised, updated, and amended to include the latest changes and requirements from the reissued NJDEP Tier A Permit.

Intended Use of the SPPP

Tier A Municipalities are required to develop, implement, and enforce a Stormwater Management Program to satisfy the appropriate water quality requirements of the National Pollutant Discharge Elimination System Phase II rule of the Federal Clean Water Act and the New Jersey Department of Environmental Protection, Division of Watershed Management, Municipal Stormwater Regulation Program. The Stormwater Pollution Prevention Plan (SPPP) describes the Tier A Municipalities stormwater program and serves as a mechanism for implementation of the Statewide Basic Requirements (SBR). The SPPP addresses stormwater quality issues related to new development, redevelopment, and existing development. The SPPP shall include, at a minimum, all of the information and items identified in Attachment A of the Borough's Tier A Municipal Master General Permit (Appendix D of the SPPP).

Information/Actions Required to Complete SPPP

The Borough of Mantoloking shall review the items identified in Forms 1 through 17 and implement the SPPP in accordance with the requirements specified in Part IV.F.1.c of the latest issued permit. The SPPP Team Members Form includes the Borough's reorganizational meeting minutes for the appointment of the Stormwater Program Coordinator position. A renewal of the Tier A Municipal Stormwater General Permit was issued by the NJDEP on December 08, 2017 with an effective date of January 1, 2018. Therefore, the EDPA for the latest issued Authorization To Discharge for the Tier A Permit is January 1, 2018 with an expiration date for the current Tier A Permit of December 31, 2022. The SPPP shall be signed, dated and be retained by the Borough of Mantoloking's Stormwater Program Coordinator. The Borough shall certify annually that they have developed, implemented, and are actively enforcing the program. The Annual Reports and Certifications (ARC) for the appropriate items and general permit requirements are found in Appendix A of this Stormwater Pollution Prevention Plan. The Annual Reports and Certifications, including the Supplemental Questionnaire, shall be submitted via electronically to NJDEP Division of Water Quality, Bureau of Nonpoint Pollution Control, Municipal Stormwater Regulation Program via the State web portal (www.njdeponline.com). The ARCs shall be submitted annually on or before May 2nd.

Should Amendments to the SPPP be necessary, the amended SPPP shall also be signed, dated and be retained and otherwise treated in the same manner as the original SPPP. The Borough of Mantoloking shall retain each previous SPPP for a period of at least five years from the date of the previous SPPP. Additional information regarding the SPPP can be found in Part IV.F.1 of the latest issued permit.

The Borough of Mantoloking shall make available the SPPP and Annual Reports and Certification upon request to an authorized representative of NJDEP Municipal Stormwater Regulation Program and to the public at reasonable times during regular business hours.

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

SCHEDULE

Required Actions and Schedule

The SPPP has a series of required actions over the life of the plan. Some of the required actions are one-time actions, such as adopting an amended stormwater management ordinance, and other actions will require continued attention and/or updating as part of the municipal operations and maintenance, such as annual inspections for outfall pipe stream scouring remediation and inlet labeling. Each required action has a regulatory date for implementation based on the original EDPA or the current EDPA on the Tier A Permit renewed by the NJDEP. The required actions are specifically described on the provided forms, and a schedule for each required action, their implementation dates, and the current implementation status is located on the attached Summary of Statewide Basic Requirements (SBRs).

NJPDES Municipal Stormwater Regulation Program
Summary of Statewide Basic Requirements (SBRs)
Tier A Municipal Stormwater General Permit (NJO141852)

(Please refer to final permit for details on SBRs)

Statewide Basic Requirement	**Minimum Standard**	**Implementation Schedule**
Stormwater Pollution Prevention Plan (SPPP)	Preparation of **SPPP** which describes the municipality's stormwater program, including details on the implementation of required SBRs. The SPPP shall be amended, as necessary, and amended SPPPs shall be signed, dated, implemented, retained, and otherwise treated in the same manner as the original SPPP. SPPP shall be revised and amended to incorporate additional SBRs, best management practices, and other changes required by the renewal of the Tier A Permit.	12 months from original effective date of permit authorization (EDPA) by 4/1/05 and ongoing: **Prepared and ongoing**
Post on the municipality's website	Post the current SPPP on the municipality's website	EDPA + 90 Days
Post on the municipality's website	Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website	EDPA + 90 Days
Public Notice	Comply with applicable State and local public notice requirements when providing for public participation.	Upon original EDPA by 4/1/04: **Ongoing compliance**
Post-Construction Stormwater Management in New Development and Redevelopment		
Stormwater Management Plan	Adopt stormwater management (SWM) plan in accordance with N.J.A.C. 7:8-4.	Complete 12 mos. from original EDPA by 4/1/05: **Adopted**
Stormwater Control Ordinance	Adopt and implement stormwater control ordinance in accordance with N.J.A.C. 7:8-4.	Adopt ordinance 12 months from SWM plan adoption by 4/1/06: **Adopted**
Residential Site Improvement Standards	Ensure compliance with Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7), including any exception, waiver, or special area standard approved under N.J.A.C. 5:21-3.	Upon original EDPA by 4/1/04: **Ongoing compliance**

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
BMP Operation and Maintenance	Ensure adequate long-term operation and maintenance of BMPs.	Original EDPA of 4/1/04 for BMPs on municipal property, 24 months for BMPs elsewhere by 4/1/06: **Ongoing compliance**
Storm Drain Inlets Design Standards for New Construction	New storm drain inlets must meet the design standards specified in Attachment C of the permit.	11 months from original EDPA if municipally installed, by 4/1/05. Otherwise 24 mos. from original EDPA by 4/1/06: **Ongoing compliance**
For each structural and non-structural stormwater measure (e.g. basins), for which an application is made to the municipality after EDPA, the muncipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been mainitained by the Tier A municipality. Records demonstrationg compliance with Part IV.B.4 shall be keptor their location shall be referenced, in the SPPP.	EDPA
BMP Maintenance Plans	Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the the Department upon request.	EDPA + 12 Months

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
Local Public Education		
Local Public Education Program	Annually conduct educational activities that total a minimum of 10 points, as identified on Attachment E of the Tier A Permit for approved activities and the assigned point value.	Start 12 months from original EDPA by 4/1/05: **Completed and ongoing**
Storm Drain Inlet Labeling and Maintenance	Label all municipal storm drain inlets that are next to sidewalks, or within plazas, parking areas or maintenance yards. Coordinate efforts with watershed groups and volunteer organizations and maintain legibility of the inlet labels.	Within 60 months from original EDPA by 4/1/09: **Completed and ongoing**
Advertise public involvement program(s) pertaining to education and outreach activities	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP	EDPA + 12 Months: **Completed and ongoing**
Improper Disposal of Waste		
Pet Waste Ordinance	Adopt and enforce an ordinance requiring owners and keepers to immediately and properly dispose of their pet's solid waste. Distribute information with pet licenses regarding the ordinance and the environmental benefits of proper disposal of pet waste.	Complete 18 mos. and ongoing: **Adopted and ongoing**
Litter Ordinance	Adopt and enforce a litter ordinance, or enforce the existing State litter statute (N.J.S.A._13: lE-99.3).	Complete 18 mos. and ongoing: **Adopted and ongoing**
Improper Waste Disposal Ordinance	Adopt and enforce an ordinance prohibiting spilling, dumping or disposal of any materials other than stormwater into the MS4.	Complete 18 mos. from original EDPA by 10/1/05 and ongoing: **Adopted and ongoing**
Wildlife Feeding Ordinance	Adopt and enforce an ordinance that prohibits feeding of non-confined wildlife in any public park or property owned/operated by the municipality (except environmental education centers).	Complete 18 months from original EDPA by 10/1/05 and ongoing: **Adopted and ongoing**

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
Yard Waste Ordinance / Collection Program	Adopt and enforce an ordinance that prohibits placing non-containerized yard waste in the street, **or** collect yard waste based on a frequency as determined by the municipality. Non-containerized yard waste cannot be placed any closer than 10' from a storm drain inlet.	Start 18 months from original EDPA by 10/1/05 and ongoing: **Adopted and ongoing**
Refuse Container / Dumpster Ordinance	Adopt and enforce an ordinance requiring dumpsters and other refuse containers that are outdoors or exposed to stromwater to be covered at all times and which prohibits the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids, or solids from the containers.	Complete on or before 9-1-10: **Adopted and ongoing.**
Private Storm Drain Inlet Retrofitting Ordinance	Adopt and enforce an ordinance requiring the retrofitting of existing storm drain inlets to meet the standard in Attachment C of the permit which are in direct contact with repaving, repairing, reconstruction, resurfacing, or alterations of facilities on property not owned or operated by the municipality (except individual single family homes).	Complete on or before 9-1-10: **Adopted and ongoing.**
Illicit Connection Elimination and MS4 Outfall Mapping		
Illicit Connection Ordinance	Develop, implement and enforce an ordinance, to the extent allowable under State law, to prohibit illicit connections to MS4.	Develop & implement 18 months from original EDPA by 10/1/05: **Adopted and ongoing**
Illicit Connection Elimination Program	Develop, implement and enforce a program to detect and eliminate illicit connections into the municipality's small MS4.	Develop & implement 18 months from original EDPA by 10/1/05: **Completed and ongoing**
MS4 Outfall Pipe Mapping	Map all municipal storm sewer outfall pipe which discharges to surface water by dividing the municipality into two sectors for the purposes of outfall mapping.	Map 1st sector 36 mos. from original EDPA by 4/1/07 Map 2nd sector 60 mos. from original EDPA by 4/1/09: **Completed**

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
Solids and Floatable Controls		
Street Sweeping	In predominantly commercial and/or industrial areas, conduct monthly sweeping of curbed streets, roads and highways (with a speed limit less than 35 mph), and sweeping within one week of any leaf pick up or snow melt.	Start 12 months from original EDPA by 4/1/05 and ongoing: **Not applicable & not required**
Storm Drain Inlet Retrofitting	Retrofitting of storm drain inlets during road repair, reconstruction, alterations or repaving with inlets that meet the design standards specified in Attachment C of the permit.	Start 12 months from original EDPA by 4/1/05 and ongoing: **Completed and ongoing**
Stormwater Facility Maintenance	Develop and implement a stormwater facility maintenance program that includes yearly catch basin cleaning and ensures proper function and operation of all municipally operated stormwater facilities.	Start 12 months from original EDPA by 4/1/05 and ongoing: **Ongoing compliance**
Catch Basin Inspection and Cleaning	Inspect annually all municipally owned and operated catch basins and clean those basins to remove sediment, trash, or debris.	Start 12 months from original EDPA by 4/1/05 and ongoing: **Completed and ongoing**
Outfall Pipe Stream Scouring Remediation	Develop and implement a stormwater outfall pipe scouring detection, remediation and maintenance program to identify and stabilize localized stream and stream bank scouring in the vicinity of outfall pipes operated by the municipality. Repairs shall be in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C. 2:90-1).	Start 18 months from original EDPA by 10/1/05 and ongoing: **Completed and ongoing**

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
Maintenance Yard Operations		
De-icing Material Storage	Construct permanent indoor storage with an impermeable floor for deicing materials. Seasonal tarping shall be used as an interim BMP until the permanent structure is completed. Uncovered sand may be stored outside if a 50' setback is maintained from any storm sewer inlet.	Comply w/ tarping & sand storage requirements w/ in 12 mos., by 4/1/05 complete perm. structure w/ in 36 mos. from original EDPA by 4/1/07: **Completed with Shared Services with Bay Head Borough and ongoing**
Equipment and Vehicle Washing	Manage any equipment and vehicle washing activities to control and prevent unpermitted discharges of wash wastewater. Maintain a record of where and when equipment and vehicle washing occurs to document proper management.	Start 12 months from original EDPA and ongoing: **Ongoing compliance**
Fueling Operations	Develop and implement SOPs for vehicle fueling and bulk delivery and implement with the required practices contained in Attachment D of the permit.	Start 12 months from original EDPA and ongoing: **Completed and ongoing**
Vehicle Maintenance	Implement required practices for vehicle maintenance contained in Attachment D of the permit.	Start 12 mos. from original EDPA by 4/1/05 and ongoing: **Completed and ongoing**
Good Housekeeping	Implement required practices for good housekeeping, contained in Attachment D of the permit.	Start 12 mos. from original EDPA by 4/1/05 and ongoing: **Completed and ongoing**
Employee Training		
Employee Training	Develop and conduct an employee training program for appropriate employees that cover the required topics contained in the permit.	Start 12 mos. from original EDPA by 4/1/05 and ongoing: **Completed and ongoing**

Statewide Basic Requirement	Minimum Standard	Implementation Schedule
Employee Training	Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	EDPA + 12 Months
Employee Training	Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	EDPA + 6 Months

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

MAPS

Required Maps

The SPPP contains a map of the Borough of Mantoloking which identifies the location of municipal outfall pipes for the Municipal Separate Storm Sewer System (MS4s) for both Sector A and Sector B. The map of the MS4 outfalls can be found in Appendix E of the SPPP.

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

FORMS

Tier A Municipal Stormwater Regulation Program

Stormwater Pollution Prevention Team Members

Number of team members may vary.

Completed by: Lawrence Plevier, PE, CME
Title: Borough Engineer
Date: 1-27-05 Revised: 5-2-18
Municipality: Borough of Mantoloking
County: Ocean
NJPDES #: NJG0153281
PI ID #: 203290

Stormwater Program Coordinator: Lawrence Plevier, PE, CME
Title: Borough Engineer
Office Phone #:732-899-6600
Emergency Phone #:732-233-1327

Public Notice Coordinator: Beverley Konopada, RMC
Title: Borough Clerk
Office Phone #: 732-475-6983
Emergency Phone #: 732-899-6600

Post-Construction Stormwater Management Coordinator: Lawrence Plevier, PE, CME
Title: Borough Engineer
Office Phone #: 732-475-6983
Emergency Phone #:

Local Public Education Coordinator: Beverley Konopada, RMC
Title: Borough Clerk
Office Phone #: 732-475-6983
Emergency Phone #: _____

Ordinance Coordinator: Jean Cipriani, Esq.
Title: Borough Attorney
Office Phone #: 732-240-6000
Emergency Phone #: _____

Public Works Coordinator: Scott Hulse
Title: Superintendent of Public Works
Office Phone #: 732-475-6983
Emergency Phone #: 732-606-7307

Employee Training Coordinator: Scott Hulse; Larry Plevier, PE, CME
Title: Superintendent of Public Works; Borough Engineer
Office Phone #: 732-899-6600
Emergency Phone #: 732-606-7307

Other: Claudia Larsen
Title: Mantoloking Environmental Commission Chairwoman
Office Phone #:732-475-6983
Emergency Phone #:

DRAFT # 1 01/08/2018

THE BOROUGH OF MANTOLOKING
MAYOR AND COUNCIL

MINUTES OF THE ORGANIZATION MEETING
January 3, 2018
MANTOLOKING YACHT CLUB
1224 BAY AVENUE
MANTOLOKING, NEW JERSEY

The Organization Meeting of the Mayor and Council was held this day in the Mantoloking Yacht Club.

1. **CALL TO ORDER:** Mayor George C. Nebel called the meeting to order at 5:30 p.m.

2. **OPEN PUBLIC MEETING STATEMENT**: Mayor George C. Nebel read the following statement

In compliance with the provisions of the New Jersey Open Public Meetings Act, adequate notice of this meeting of the Mantoloking Borough Council has been advertised in the manner provided by law.

3. **ROLL CALL:**

COUNCIL	PRESENT	ABSENT	LATE	DIAL -IN
Council President White	X			
Councilman Gillingham	X			
Councilman Amarante	X			
Councilman Nelson	X			
Councilwoman O'Mealia	X			
Councilman Rzemieniewski	X			
Mayor George C. Nebel	X			
ALSO PRESENT				
Beverley A. Konopada, Borough Clerk	X			
Jean Cipriani, Borough Attorney	X			
Lynne Hazelet, Deputy Clerk	X			
April Yezzi, CFO, CTC, QPA		X		
Chief Stacy Ferris		X		

4. **PLEDGE OF ALLEGIANCE:** The Mayor led the assembly in the Pledge of Allegiance.

5. **OATH OF OFFICE:**

Borough Clerk, Beverley Konopada administered the oath of office to:

Jean Cipriani, Esq. Borough Attorney

Christopher Nelson 3 year term to expire 12/31/2020

Anthony Amarante 3 year term to expire 12/31/2020

6. **PRIVILEGE OF THE FLOOR:** The Mayor opened the meeting for public comment and questions about the agenda.

No comments were made.

7. **NEW BUSINESS:**

NOMINATION OF 2018 COUNCIL PRESIDENT Mayor Nebel requested nominations from the governing body members for the 2018 Council President.

RESOLUTION NO. 01/03/2018-01: NOMINATION AND ELECTION OF 2018 COUNCIL PRESIDENT

Councilman Gillingham motioned to nominate Councilman White as Council President for 2018. He has worked seamlessly with Mayor Nebel and has played key roles in current projects.
The motion was seconded by Councilman Rzemieniewski and approved by unanimous voice vote.

Councilman White thanked Councilman Gillingham for his kind words.

Council President White moved the following six resolutions. The motion was seconded by Councilman Rzemieniewski and approved by unanimous voice vote.

A. RESOLUTION NO. 01/03/2018-02: THE APPOINTMENT OF OFFICIALS, COMMITTEES, AND BOARDS FOR 2018

WHEREAS, it is the responsibility of the Mayor to appoint individuals as Class II and Class IV members of the Planning Board as vacancies may exist; and
WHEREAS, it is the responsibility of the Council to appoint an individual as Class III member to the Planning Board as vacancies may exist; and
WHEREAS, it is the responsibility of the Mayor with the consent of Council to appoint various individuals such as Chief Financial Officer, Tax Collector, Borough Clerk, Deputy Borough Clerk, Assessment Search Officer, Public Agency Compliance Officer, Qualified Purchasing Agent, Tax Search Officer, Public Works Superintendent, Public Works Manager, Recycling Coordinator, Construction Official, Deputy Construction Official, Building Subcode Official, Deputy Building Subcode Official, Building Inspector, Deputy Building Inspector, Zoning And Land Use Official, Deputy Zoning and Land Use Official, Dune Inspector, Deputy Dune Inspector, Dune Program Director, Emergency Management Coordinator, Borough Historian, Licensed Sewer Operator, Animal Control Officer, Auditor, Attorney, Dune Consultant, Prosecutor, Alternate Prosecutors, Conflicts Prosecutor, Public Defender, Alternate Public Defenders, Engineer, Assistant Engineer, Insurance Commissioner, Tax Appeal Agents, Tax Assessor, Magistrate, Court Administrator, Deputy Court Administrator, Municipal Court Violations Clerk, Board Of Health, Registrar of Vital Statistics, Deputy Registrar, Special Counsel, National Flood Insurance Program (NFIP) Coordinator, NFIP Community Rating System Coordinator, Assistant NFIP Community Rating System Coordinator, Flood Plain Manager, NFIP Flood Hazard Mitigation Planning Committee, Handicap Coordinator, Community Development Block Grant Representative, Archives Records Project Manager, Technical Assistant to the Construction Official, Fire Official, Deputy Fire Official, Fire Code Official, Electrical Code Official, Plumbing Code Official, Police Department Physician and Environmental Commission, and

WHEREAS, AFTER DUE DELIBERATION, the Mayor and Council have determined that the schedule attached hereto and made a part hereof entitled "Officials, Committees and Boards for 2018" constitute their appointments for the position set forth therein.
IT IS NOW, THEREFORE, this 3rd day of January, 2018, **RESOLVED** by the Mayor and Council of the Borough of Mantoloking, as follows:

1. That the schedule entitled "Officials, Committees, and Boards for 2018" does accurately designate persons or entities nominated or appointed to the various positions as set forth therein.

2. That the Council does, by this Resolution, hereby confirm, ratify, and approve the nominations and appointments and terms of office identified in said schedule both as to those officers and positions wherein the Mayor has the right to nominate and appoint with the advice and consent of Council or otherwise, and as to those offices and positions wherein the Council has the right to select said individuals or entities.

OFFICIALS, COMMITTEES, AND BOARDS FOR 2018		
OFFICIALS		**TERM EXPIRATION**
Borough Clerk	Beverley A. Konopada	
Assessment Search Officer	Beverley A. Konopada	
Public Agency Compliance Officer	Beverley A. Konopada	

Insurance Commissioner	Beverley A. Konopada	
Deputy Borough Clerk	Lynne A. Hazelet	
Tech. Asst. to the Construction Official	Colleen Malvasio	
Qualified Purchasing Agent	April Yezzi	
Chief Financial Officer	April Yezzi	
Tax Collector	April Yezzi	
Tax Search Officer	April Yezzi	
Public Works Manager	Scott Hulse	
Construction Official	Todd Morgano	
Deputy Construction Official	Steven Grenley	
Building Subcode Official	Todd Morgano	
Deputy Building Subcode Official	Steven Grenley	
Building Inspector	Todd Morgano	
Deputy Building Inspector	Steven Grenley	
Fire Official	Ron Piszar	
Deputy Fire Official	Richard Orlando	
Fire Sub-Code Official	Ron Piszar	
Deputy Fire Sub-Code Official	Richard Orlando	
Electrical Sub-Code Official	Steven Grenley	
Deputy Electrical Sub-Code Official	Stuart Safeer	
Plumbing Sub-Code Official	Glen Purvis	
Zoning & Land Use Official	Barbara Woolley-Dillon	
Deputy Zoning & Land Use Official	Scott Loftus	
Deputy Dune Inspector	Christopher R. Nelson	
ADA Compliance Officer	E. Laurence White	
National Flood Insurance Program Coordinator	E. Laurence White	
Recycling Coordinator	Joy Bragen-Edly	
Emergency Management Coordinator	Robert S. McIntyre	12/31/2018
Tax Assessor	Gary R. DalCorso	
Licensed Sewer Operator	Ron Laird	
Animal Control Officer	Muskrat Jack	
Tax Appeal Agents	Jean Cipriani, Esq. Gilmore and Monahan, P.A. and Gary R. Dalcorso	
PROFESSIONAL SERVICES		
Borough Auditor	Robert S. Oliwa, R.M.A.	
Borough Attorney	Jean Cipriani, Esq. Gilmore and Monahan, P.A.	
Dune Consultant	Dr. Stewart Farrell	

Municipal Prosecutor	Bonnie R. Peterson, Esq.	
Alternate/Conflicts Prosecutor	Matthew Burns, Esq.	
Municipal Public Defender	Margarie M. Herlihy, Esq.	
Alternate Public Defender #1	Kevin E. Young, Esq.	
Alternate Public Defender #2	Thaddeus D. Niemiec, Esq.	
Borough Engineer/Stormwater Program Coordinator	Lawrence Plevier, P.E.	
Asst. Engineer/Dune Inspector/Flood Plain Man.	Robert C. Mainberger, P.E.	
Alternate Asst. Engineer/Dune Inspector/Flood Plain Man.	Doug Gaffney	
Asst. Community Rating System Coordinator	Francis X. Bruton	
Borough Special Counsel-Public Education	Vito A. Gagliardi, Jr., Esq.	
Borough Special Counsel-State Tax Appeal	Harry Haushalter, Esq.	
Police Department Physician	Hitesh B. Patel, MD	
Labor Relations Attorney	Michael McKenna	
Police Physician- Psychological	Dr. Mark White	
ENVIRONMENTAL COMMISSION	Claudia Larsen- Chairwoman	12/31/2020
(3 Year Terms)	Constance E. Pilling	12/31/2018
	Lynn O'Mealia	12/31/2019
	E. Laurence White	12/31/2018
	Jan O'Malley	12/31/2020
	John G. Wesson	12/31/2019
	Denise Boughton	12/31/2020
Subcommittee		
Barnegat Bay Estuary	Ann Elizabeth Nelson, Chairwoman	
ENVIRONMENTAL COMMITTEE	Lynn O'Mealia, Chairwoman	
Solid Waste/Recycling	Hank Rzemieniewski, Vice-Chairman	
Barnegat Bay		
Flood Strategy		
Subcommittee		
Flood Hazard Mitigation	Robert C. Mainberger, P.E.	
	Lawrence Plevier, P.E.	
	Francis X. Bruton	
	Todd Morgano, Construction Official	

SPPP Form 2 – Public Notice

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Beverley Konopada, RMC, Borough Clerk
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

For meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.), Mantoloking Borough provides public notice in a manner that complies with the requirements of that Act. Also, in regard to the passage of ordinances, Mantoloking Borough provides public notice in a manner that complies with the requirements of N.J.S.A. 40:49-1 et seq. In addition, for municipal actions (e.g., adoption of the municipal stormwater management plan) subject to public notice requirements in the Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.), Mantoloking Borough complies with those requirements.

SPPP Form 3 – New Development and Redevelopment Program

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Lawrence Plevier, PE, CME, Borough Engineer
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

To control stormwater from new development and redevelopment projects throughout Mantoloking Borough (including projects we operate), we will do the following:

We are already ensuring that all new residential development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management (including the NJDEP Stormwater Management rules, N.J.A.C. 7:8, referenced in those standards) are in compliance with those standards. Our planning and zoning boards ensure such compliance before issuing preliminary or final subdivision or site plan approvals under the Municipal Land Use Law.

Since the EDPA, the Borough of Mantoloking has not constructed Major Development improvements on Borough property. Other than improvements of existing public roadways within the municipal right-of-way, the Borough has constructed public walkways within municipal right-of-way. The projects have still complied with the Borough Code for stormwater management standards for minor projects with the implementation of pervious decking material and by installing the walkways on-grade with light-weight construction equipment. The Borough will ensure adequate long-term operation and maintenance of BMPs for those projects. The projects were not Major Development, and, therefore, the projects did not require a project maintenance plan similar to the maintenance plan described in our ordinance. We will also require any storm drain inlets that we install to comply with the design standard in Attachment C of our permit. We will ensure such operation and maintenance for any new development or redevelopment projects on our property by complying with the maintenance requirements in that ordinance. In addition, any storm drain inlets we install for such projects will comply with that ordinance's standard for such inlets.

The Borough Engineer and Borough Attorney had reviewed the Municipal Stormwater Management Plan (MSWMP) and Amended Stormwater Control Ordinance for their adoption. The revised MSWMP, which was approved by the Ocean County Planning Board on 6-7-07, was adopted by the Mantoloking on 6-18-07, and the Amended Stormwater Management ordinance, which was also approved by the Ocean County Planning Board on 6-7-07, was adopted by Mantoloking on 7-16-07. The Borough of Mantoloking Ordinance No. 543 for the stormwater management design standards and the Borough of Mantoloking Resolution: Adoption of the Municipal Stormwater Management Plan Revision Dated May, 2007 for the MSWMP are attached at the end of this SPPP section. Also attached to this section of the SPPP is the approval letter from the Ocean County Planning Board with Ocean County Municipal Stormwater Plan Review report, dated 6-7-07, for the MSWMP and the Stormwater Ordinance and the letter from the Borough Engineer, dated 4-30-08, forwarding the above referenced material to the Ocean County Soil Conservation District.

Ordinance No. 543, which will be administered by the Mantoloking Borough Planning Board and Zoning Board of Adjustment and code enforcement officer, will control stormwater from non-residential development and redevelopment projects. Where it is necessary to implement the Municipal Stormwater Management Plan, the adopted Resolution for the MSWMP will also control aspects of residential development and redevelopment projects that are not subject to the Residential Site Improvement Standards.

For any BMP that is installed in order to comply with the requirements of our post-construction program, Mantoloking Borough will ensure adequate long-term operation as well as preventative and corrective maintenance (including replacement) of BMPs. For BMPs on private property that we do not own or operate, the Borough is requiring the preparation of Stormwater Maintenance Plans, in accordance with NJAC 7:8, that establish liability for maintenance of BMP's to private individuals or a specific organization (i.e. homeowners association, etc.) to ensure proper long-term operation of all stormwater BMP's.

Mantoloking Borough will also enforce, through the municipal stormwater control ordinance, compliance with the design standard in Attachment C for our permit to control passage of solid and floatable materials through storm drain inlets. The Borough expects that all projects will achieve the necessary compliance thru the installation of the NJDOT bicycle safe grate and (if needed) a curb opening with a clear space no bigger than two inches across the smallest dimension.

All public type "B" storm drain inlets have been retrofitted by the Mantoloking Department of Public Works (DPW) for compliance with the Tier A Municipal Stormwater General Permit.

Hatch Mott MacDonald

3 Paragon Way
Freehold, NJ 07728
T 732.780.6565 www.hatchmott.com

April 30, 2008

Ocean County Soil Conservation District
714 lacey Road
Forked River, NJ 08732

RE: Borough of Mantoloking, Ocean County
Tier A Municipal Stormwater Permit
Adopted Municipal Stormwater Management Plan and Stormwater Control Ordinances
NJPDES #NJG0153281, PI ID #203290

Gentleman:

On behalf of the Borough of Mantoloking and as required by the Boroughs Tier A Municipal Stormwater Permit, enclosed please find the following:

1. One (1) Copy of the Adopted Stormwater Control Ordinances, Ordinance No. 543, dated July 16, 2007.
2. One (1) Copy of the Ocean County Planning Board Approval letter, dated June 7, 2007 approving the Municipal Stormwater Management Plan and Stormwater Control Ordinances.
3. One (1) Copy of the Borough of Mantoloking Resolution adopting the Stormwater Management Plan, dated June 18, 2007.

Should you have any questions or require a copy of the Boroughs Stormwater Management Plan, please do not hesitate to contact this office.

Very truly yours,

Hatch Mott MacDonald

Thomas S. Guldin

Thomas S. Guldin, P.E., C.M.E.
Borough Engineer
T 732.780.6565 F 732.577.0551
thomas.guldin@hatchmott.com

cc: Honorable George C. Nebel, Mayor
Irene Ryan, RMC (w/encl)
James S. Walzer, HMM (w/encl.)
File: Borough of Mantoloking (Stormwater Permit) (w/encl)

DONALD P. BERTRAND, CHAIRMAN
RICHARD WORK, VICE CHAIRMAN
JOHN P. KELLY, FREEHOLDER DIRECTOR
"RRY P. LITTLE, FREEHOLDER
ALD A. LOTRECCHIO, COUNTY ENGINEER
.OSEPH BILOTTA
PETER M. HARTNEY, JR.
ELAINE McCRYSTAL
DONALD REED
JOHN C. BARTLETT, JR., FREEHOLDER ALTERNATE
FRANK S. SCARANTINO, ALTERNATE
WILLIAM R. ENNIS, ALTERNATE
CHRISTAKIS KARAMANOS, ALTERNATE

OCEAN COUNTY PLANNING BOARD
P O Box 2191
Toms River, New Jersey 08754-2191
Telephone (732) 929-2054
Telecopier (732) 244-8396

DAVID J. McKEON
PLANNING DIRECTOR

JOHN C. SAHRADNIK
COUNSEL

ROBIN L. FLORIO
SECRETARY

June 7, 2007

The Honorable George C. Nebel, Mayor
Borough of Mantoloking
202 Downer Avenue
P.O. Box 247
Mantoloking, NJ 08738-0247

Re: Review of the Revised Borough of Mantoloking Municipal Stormwater Management Plan and Ordinance

Dear Mayor Nebel,

As per the official County comment letter, dated December 8, 2006 the Borough's Municipal Stormwater Management Plan and Ordinance were denied by the County and a revision of the plan with said amendments were requested at that time. The County received these revisions on June 5 & 7, 2007. The Borough has now been deemed in compliance with all of the requirements and has made the necessary revisions as per our comment letter. Therefore, Mantoloking's Stormwater Management Plan and Ordinance are hereby deemed approved by the County pending the adoption of the Plan with the exact changes as submitted.

I thank you for your dutiful participation and commend your Borough on the revisions made to improve the adopted regulations for stormwater, protecting the future for your municipality and the County.

Very truly yours,

Tiffany Robinson

Tiffany Robinson
Assistant Planner

Cc: David J. McKeon, Planning Director
Ronald A. Lotrecchio, County Engineer
Jim Walzer, Hatch Mott MacDonald

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SPECIAL ASSISTANCE/ACCOMMODATIONS UPON REQUEST

OCEAN COUNTY MUNICIPAL STORMWATER PLAN REVIEW

Municipality: Mantoloking Borough

Pinelands Ordinance Required: No

Date of SWMP Adopted: March 21, 2005
Date of SWMP Revision: June 2007

Date Adopted SWMP Submitted to the County: October 10, 2006
Date Revised SWMP Submitted to the County: June 5 and 7, 2007

Date Ordinance Adopted: February 21, 2006

Date Adopted Ordinance Submitted to the County: October 10, 2006

Master Plan Amended: Municipality is required to adopt the SWMP as part of the Master Plan. Need proof that this was done or will be done in the next Re-examination date

	Sufficient	Sufficient with Recommendations	Insufficient	Not Applicable	Comments
GENERAL	☒	☐	☐	☐	
INTRODUCTION	☒	☐	☐	☐	On page 3, the Introduction Section states in the last sentence of the first paragraph that "The plan describes long term operation and maintenance measures for existing and future stormwater facilities." Please describe these measures under the Design and Performance Standards section of the Plan. ***Satisfied in June 4th Revisions.***
General Discussion	☒	☐	☐	☐	
Hydrologic Cycle	☒	☐	☐	☐	
Quantity Issues	☒	☐	☐	☐	
Groundwater Recharge Issues	☒	☐	☐	☐	

Water Quality Issues	☒	☐	☐	☐	
Description of Municipality	☒	☐	☐	☐	
Size in Square Miles	☒	☐	☐	☐	
Population and trends	☒	☐	☐	☐	Please update the population to reflect the 2005 County estimate (US Census Bureau) for the Borough of 450. ***Satisfied in June 4th Revisions.***
Waterways	☒	☐	☐	☐	
Waterways Health	☒	☐	☐	☐	The discussion on the health of the Barnegat Bay and the Atlantic Ocean is limited. The Atlantic Ocean is impaired for Dissolved Oxygen and Total Coliform, while the Barnegat Bay is impaired for Total Coliform. The Plan should discuss if any sampling data has been conducted and potential sources of these impairments. ***Satisfied in June 4th Revisions.***
TMDLs	☒	☐	☐	☐	Please discuss the proposed TMDLs for total coliform to address shellfish impaired waters of the Barnegat Bay, published February 21, 2006. Please include a discussion on potential sources of the impairment and how the Plan will help to reduce the loads contributing to the impairments. ***Satisfied in June 4th Revisions.***
Existing Stormwater Problems	☒	☐	☐	☐	
MUNICIPAL STORMWATER PLAN GOALS	☒	☐	☐	☐	
9 Minimum Goals Identified	☒	☐	☐	☐	Refer to comment under **Safety Standards for Stormwater Management Basins.**

					Satisfied in June 4th Revisions.
Achievement of 9 Minimum Goals	☒	☐	☐	☐	On page 3, the Plan states that to achieve the goals, "the Plan outlines specific stormwater design and performance standards for new development as well as controls to address existing development." It also states that "preventative and corrective maintenance strategies are included in the Plan to ensure long term effectiveness of stormwater management facilities." Please outline these specific strategies under the Design and Performance section of the Plan. Additionally, please add the following sentence to this paragraph: "The Plan outlines safety standards for stormwater infrastructure to be implemented to protect public safety." ***Satisfied in June 4th Revisions.***
CONSISTENCY WITH OTHER PLANS AND REGULATIONS	☒	☐	☐	☐	
TMDLs	☒	☐	☐	☐	Please discuss the proposed TMDLs for total coliform to address shellfish impaired waters of the Barnegat Bay, published February 21, and how the Plan will help to reduce loadings. ***Satisfied in June 4th Revisions.***
Existing Municipal SWMP	☐	☐	☐	☒	
Regional SWMPs	☐	☐	☐	☒	
RSIS	☒	☐	☐	☐	
Coordination with the Ocean SCD	☒	☐	☐	☐	
Pinelands	☐	☐	☐	☒	

CAFRA	☒	☐	☐	☐	It should be included in the Plan that the CAFRA Rules incorporate the new Stormwater Rules by reference. When submitting for a CAFRA Permit and requesting a waiver from the performance standards, DEP could require a mitigation plan even if the Borough does not. ***Satisfied in June 4th Revisions.***
REQUIRED MAPPING	☒	☐	☐	☐	All maps should reflect their source of information. ***Satisfied in June 4th Revisions.***
Waterbodies (USGS and Soil Surveys)	☒	☐	☐	☐	As per N.J.A.C 7:8-4.2, the Ocean County Soil Survey streams should be identified on a USGS map and included in the Plan as Figure C-2: Borough and its Waterways. ***Satisfied in June 4th Revisions.***
Groundwater Recharge Areas	☒	☐	☐	☐	
Well Head Protection Areas	☒	☐	☐	☐	
RECOMMENDED STORMWATER CONTROL ORDINANCE(S)	☒	☐	☐	☐	On page 1, the Ordinance does not specify that it is applicable to all "major development" that is non residential major, residential major development not pre-empted by RSIS and all major development undertaken by the Borough. ***Satisfied in June 4th Revisions.*** The Ordinance excludes the <u>required</u> inlet standards to control solids and floatables. ***Satisfied in June 4th Revisions.*** The Ordinance excludes the <u>required</u> illustration of safety ledges in new stormwater management basins from the BMP Manual.

					OK. Not feasible to have basins due to high groundwater table.
DESIGN AND PERFORMANCE STANDARDS	☒	☐	☐	☐	The Plan only references the design and performance standards; it does not address how the standards will be enforced in the event of non-compliance. ***Satisfied in June 4th Revisions.***
SAFETY STANDARDS FOR STORMWATER MANAGEMENT BASINS	☒	☐	☐	☐	The Plan states that since new basins are not feasible due to the high water table in the Borough, the required language for Safety Standards for Stormwater Management Basins was excluded because the standards are not applicable. However, the Stormwater Ordinance does include the requirements for these standards. Additionally, page 3 of the Plan also excludes the last required minimum goal of protecting public safety through proper design and operation of stormwater basins. ***Satisfied in June 4th Revisions.*** Please make the Ordinance and the Plan consistent with each other. Should the Borough have existing basins that would require retrofit or safety provisions installed, these standards should be included.
LONG-TERM O&M OF BMPS	☒	☐	☐	☐	The Plan does not address long term O & M after construction in terms of corrective and preventative maintenance, nor does it address compliance and enforcement mechanisms for non-compliance. ***Satisfied in June 4th Revisions.***
ADDITIONAL MEASURES	☒	☐	☐	☐	
Wellhead Protection Ordinance	☐	☐	☐	☒	
Mitigation Plan	☒	☐	☐	☐	The language in this section should follow the DEP

					Mitigation guidance which is posted on the DEP stormwater website. Possible mitigation projects might include retrofitting of outfalls to the Barnegat Bay to tie in with the TMDL. We also recommend that the language in this section include that the issuance of a waiver under a Land Use permit by the Department does not automatically waive the requirement for mitigation to be performed under the municipal review. Also include language that the applicant must obtain all required permits for the mitigation project prior to municipal approval. ***Satisfied in June 7, 2007 revisions.***
Stream Corridor Protection Plan	☐	☐	☐	☒	
IF MORE THAN 640 ACRES OF DEVELOPABLE LAND (DUE IN 2006)	☐	☐	☐	☒	Less than 1 square mile vacant land
Land Use/Build Out Analysis	☐	☐	☐	☒	
Master Plan Review and Evaluation	☐	☐	☐	☒	
Official Map Review and Evaluation	☐	☐	☐	☒	
Development Regulations Review and Evaluation	☐	☐	☐	☒	

RESOLUTION: ADOPTION OF THE MUNICIPAL STORMWATER MANAGEMENT PLAN REVISION DATED MAY, 2007

WHEREAS, the Borough Engineer has, pursuant to recommendations of the Ocean County Planning Board, revised the Borough's Stormwater Management Plan; and

WHEREAS, the revised plan, entitled: "Municipal Stormwater Management Plan, revised May, 2007", has been reviewed and approved by the Ocean County Planning Board, as evidenced by letter dated June 7, 2007; and

WHEREAS, it is the desire of the governing body of the Borough of Mantoloking to adopt the above described document as the Municipal Stormwater Management Plan for the Borough.

IT IS NOW, THEREFORE, this 18th day of June, 2007, RESOLVED by the Mayor and Council of the Borough of Mantoloking, Ocean County, New Jersey, that the document entitled: "Municipal Stormwater Management Plan, revised May, 2007" is hereby adopted as the Stormwater Management Plan for the Borough of Mantoloking

CERTIFICATION

I, Irene H. Ryan, Clerk of the Borough of Mantoloking, County of Ocean, New Jersey, do hereby certify the foregoing to be a true copy of Resolution passed by the Borough Council of the Borough of Mantoloking, at a Regular Council Meeting held in the Borough Hall at 4:30 p.m. on June 18, 2007, at which time a quorum was present.

Irene H. Ryan

Irene H. Ryan, R.M.C.

RESOLUTION NO. 07/16/2007 – 07: PUBLIC HEARING/ ADOPTION OF ORDINANCE NO. 543 PROVIDING FOR STORMWATER CONTROL

WHEREAS, on the 16th day of July, 2007 a public hearing on Ordinance No. 543 was held and no comments were made by the public; and

WHEREAS, the Mayor and Council of the Borough of Mantoloking, Ocean County, New Jersey, hereby adopt the following Ordinance entitled:

ORDINANCE NO. 543

AN ORDINANCE OF THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEWJERSEY, PROVIDING FOR STORMWATER CONTROL, IN THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, AND PROVIDING PENALTIES FOR VIOLATIONS AND REVOKING ORDINANCE NO. 502 ENTITLED:

"AN ORDINANCE OF THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, PROVIDING FOR STORMWATER CONTROL, IN THE BOROUGH OF MANTOLOKING, OCEAN COUNTY NEW JERSEY, AND PROVIDING PENALTIES FOR VIOLATIONS"

CERTIFICATION

I, Irene H. Ryan, Clerk of the Borough of Mantoloking, County of Ocean, New Jersey, do hereby certify the foregoing to be a true copy of Resolution No. 07/16/2007-07 passed by the Borough Council of the Borough of Mantoloking, at a Regular Council Meeting held in the Borough Hall at 4:30 p.m. on July 16, 2007, at which time a quorum was present.

Irene H. Ryan

Irene H. Ryan, R.M.C.

ORDINANCE NO. 543

AN ORDINANCE OF THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, PROVIDING FOR STORMWATER CONTROL, IN THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, AND PROVIDING PENALTIES FOR VIOLATIONS AND REVOKING ORDINANCE NO. 502 ENTITLED: "AN ORDINANCE OF THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, PROVIDING FOR STORMWATER CONTROL, IN THE BOROUGH OF MANTOLOKING, OCEAN COUNTY, NEW JERSEY, AND PROVIDING PENALTIES FOR VIOLATIONS"

BE IT ORDAINED by the Mayor and Council of the Borough of Mantoloking, Ocean County, New Jersey, as follows:

SECTION 1 – PURPOSE

A. POLICY STATEMENT

FLOOD CONTROL, GROUNDWATER RECHARGE, AND POLLUTANT REDUCTION THROUGH NONSTRUCTURAL OR LOW IMPACT TECHNIQUES SHALL BE EXPLORED BEFORE RELYING ON STRUCTURAL BMPS. STRUCTURAL BMPS SHOULD BE INTEGRATED WITH NONSTRUCTURAL STORMWATER MANAGEMENT MEASURES AND PROPER MAINTENANCE PLANS. NONSTRUCTURAL MEASURES INCLUDE BOTH ENVIRONMENTALLY SENSITIVE SITE DESIGN AND SOURCE CONTROLS THAT PREVENT POLLUTANTS FROM BEING PLACED ON THE SITE. SOURCE CONTROL PLANS SHOULD BE DEVELOPED BASED UPON PHYSICAL SITE CONDITIONS AND THE ORIGIN, NATURE, AND THE ANTICIPATED LOADING OF POTENTIAL POLLUTANTS. MULTIPLE STORMWATER MANAGEMENT BMPS MAY BE NECESSARY TO ACHIEVE THE ESTABLISHED PERFORMANCE STANDARDS FOR WATER QUALITY, QUANTITY, AND GROUNDWATER RECHARGE.

B. PURPOSE

IT IS THE PURPOSE OF THIS ORDINANCE TO ESTABLISH MINIMUM STORMWATER MANAGEMENT REQUIREMENTS AND CONTROLS FOR MAJOR DEVELOPMENT.

C. APPLICABILITY

1. THIS ORDINANCE SHALL BE APPLICABLE TO ANY SITE PLAN OR SUBDIVISION THAT REQUIRES PRELIMINARY OR FINAL SITE PLAN REVIEW:

   a. NON-RESIDENTIAL MAJOR DEVELOPMENT; AND

   b. ASPECTS OF RESIDENTIAL MAJOR DEVELOPMENTS THAT ARE NOT PRE-EMPTED BY THE RESIDENTIAL SITE IMPROVEMENT STANDARDS AT N.J.A.C. 5:21.

2. THIS ORDINANCE SHALL ALSO BE APPLICABLE TO ALL MAJOR DEVELOPMENTS UNDERTAKEN BY BORO OF MANTOLOKING.

D. COMPATIBILITY WITH OTHER PERMIT AND ORDINANCE REQUIREMENTS

DEVELOPMENT APPROVALS ISSUED PURSUANT TO THIS ORDINANCE ARE TO BE CONSIDERED AN INTEGRAL PART OF DEVELOPMENT APPROVALS UNDER THE SUBDIVISION AND SITE PLAN REVIEW PROCESS AND DO NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY TO SECURE REQUIRED PERMITS OR APPROVALS FOR ACTIVITIES REGULATED BY ANY OTHER APPLICABLE CODE, RULE, ACT, OR ORDINANCE. IN THEIR INTERPRETATION AND APPLICATION, THE PROVISIONS OF THIS ORDINANCE SHALL BE HELD TO THE MINIMUM REQUIREMENTS FOR THE PROMOTION OF THE PUBLIC HEALTH, SAFETY, AND GENERAL WELFARE. THIS ORDINANCE IS NOT INTENDED TO INTERFERE WITH, ABROGATE, OR ANNUL ANY OTHER ORDINANCES, RULE OR REGULATION, STATUTE, OR OTHER PROVISION OF LAW EXCEPT THAT, WHERE ANY PROVISION OF THIS ORDINANCE IMPOSES RESTRICTIONS DIFFERENT FROM THOSE IMPOSED BY ANY OTHER ORDINANCE, RULE OR REGULATION, OR OTHER PROVISION OF LAW, THE MORE RESTRICTIVE PROVISIONS OR HIGHER STANDARDS SHALL CONTROL.

E. STANDARDS APPLICABLE TO DEVELOPMENT OF SINGLE LOT

THE RULES, REGULATIONS, AND REQUIREMENTS SET FORTH IN THIS ORDINANCE SHALL NOT SUPERCEDE THE STORMWATER MANAGEMENT PLAN REGULATIONS AS SET FORTH IN THE MANTOLOKING LAND USE ORDINANCE (NO. 465) AND ANY SUPPLEMENTS OR AMENDMENTS THERETO. THE STORMWATER MANAGEMENT PLAN REGULATIONS IN THE LAND USE ORDINANCE SHALL APPLY TO ALL SINGLE FAMILY OR SINGLE LOT DEVELOPMENT CONSTRUCTION PROJECT PROPOSED WITHIN THE BOROUGH. THE PROVISIONS CONTAINED IN THIS ORDINANCE SHALL SUPPLEMENT THE REQUIREMENTS CONTAINED IN THE LAND USE ORDINANCE WHEN APPLICABLE AND AS DETERMINED BY THE BOROUGH ENGINEER.

SECTION 2 – GENERAL STANDARDS

A. DESIGN AND PERFORMANCE STANDARDS FOR STORMWATER MANAGEMENT MEASURES

1. STORMWATER MANAGEMENT MEASURES FOR MAJOR DEVELOPMENT SHALL BE DEVELOPED TO MEET THE EROSION CONTROL, GROUNDWATER RECHARGE, STORMWATER RUNOFF QUANTITY, AND STORMWATER RUNOFF QUALITY STANDARDS IN SECTION 3. TO THE MAXIMUM EXTENT FEASIBLE, THESE STANDARDS SHALL BE MET BY INCORPORATING NONSTRUCTURAL STORMWATER MANAGEMENT STRATEGIES INTO THE DESIGN. IF THESE STRATEGIES ALONE ARE NOT SUFFICIENT TO MEET THE

STANDARDS, STRUCTURAL STORMWATER MANAGEMENT MEASURES NECESSARY TO MEET THESE STANDARDS SHALL BE INCORPORATED INTO THE DESIGN.

2. THE STANDARDS IN THIS ORDINANCE APPLY ONLY TO NEW MAJOR DEVELOPMENT AND ARE INTENDED TO MINIMIZE THE IMPACT OF STORMWATER RUNOFF ON WATER QUALITY AND WATER QUANTITY IN RECEIVING WATER BODIES AND MAINTAIN GROUNDWATER RECHARGE. THE STANDARDS DO NOT APPLY TO NEW MAJOR DEVELOPMENT TO THE EXTENT THAT ALTERNATIVE DESIGN AND PERFORMANCE STANDARDS ARE APPLICABLE UNDER A REGIONAL STORMWATER MANAGEMENT PLAN OR WATER QUALITY MANAGEMENT PLAN ADOPTED IN ACCORDANCE WITH DEPARTMENT RULES. SUCH ALTERNATIVE STANDARDS SHALL PROVIDE AT LEAST AS MUCH PROTECTION FROM STORMWATER RELATED LOSS OF GROUNDWATER RECHARGE, STORMWATER QUANTITY, AND WATER QUALITY IMPACTS OF MAJOR DEVELOPMENT PROJECTS AS WOULD BE PROVIDED UNDER THE STANDARDS IN THIS SUBCHAPTER.

3. FOR SITE IMPROVEMENTS REGULATED UNDER THE RESIDENTIAL SITE IMPROVEMENT STANDARDS (RSIS) AT NJAC 5:21, THE RSIS SHALL APPLY IN ADDITION TO THIS SECTION EXCEPT TO THE EXTENT THE RSIS ARE SUPERCEDED BY THIS SECTION OR ALTERNATIVE STANDARDS APPLICABLE UNDER A REGIONAL STORMWATER MANAGEMENT PLAN OR WATER QUALITY MANAGEMENT PLAN ADOPTED IN ACCORDANCE WITH DEPARTMENT RULES.

SECTION 3 - STORMWATER MANAGEMENT REQUIREMENTS FOR MAJOR DEVELOPMENT

A. THE DEVELOPMENT SHALL INCORPORATE A MAINTENANCE PLAN FOR THE STORMWATER MANAGEMENT MEASURES INCORPORATED INTO THE DESIGN OF A MAJOR DEVELOPMENT.

B. STORMWATER MANAGEMENT MEASURES SHALL AVOID ADVERSE IMPACTS OF CONCENTRATED FLOW ON HABITAT FOR THREATENED AND ENDANGERED SPECIES AS DOCUMENTED IN THE DEPARTMENT' LANDSCAPE PROJECT OR NATURAL HERITAGE DATABASE ESTABLISHED UNDER N.J.S.A. 13:1B-15.147 THROUGH 15.150, PARTICULARLY HELONIAS BULLATA (SWAMP PINK) AND/OR CLEMMYS MUHLNEBERGI (BOG TURTLE).

C. THE FOLLOWING LINEAR DEVELOPMENT PROJECTS ARE EXEMPT FROM THE GROUNDWATER RECHARGE, STORMWATER RUNOFF QUANTITY, AND STORMWATER RUNOFF QUALITY REQUIREMENTS OF SECTIONS 3.F AND 3.G:

1. THE CONSTRUCTION OF AN UNDERGROUND UTILITY LINE PROVIDED THAT THE DISTURBED AREAS ARE REVEGETATED UPON COMPLETION;

2. THE CONSTRUCTION OF AN ABOVEGROUND UTILITY LINE PROVIDED THAT THE EXISTING CONDITIONS ARE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE; AND

3. THE CONSTRUCTION OF A PUBLIC PEDESTRIAN ACCESS, SUCH AS A SIDEWALK OR TRAIL WITH A MAXIMUM WIDTH OF 14 FEET, PROVIDED THAT THE ACCESS IS MADE OF PERMEABLE MATERIAL.

D. A WAIVER FROM STRICT COMPLIANCE FROM THE GROUNDWATER RECHARGE, STORMWATER RUNOFF QUANTITY, AND STORMWATER RUNOFF QUALITY REQUIREMENTS OF SECTIONS 3.F AND 3.G MAY BE OBTAINED FOR THE ENLARGEMENT OF AN EXISTING PUBLIC ROADWAY OR RAILROAD; OR THE CONSTRUCTION OR ENLARGEMENT OF A PUBLIC PEDESTRIAN ACCESS, PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET:

1. THE APPLICANT DEMONSTRATES THAT THERE IS A PUBLIC NEED FOR THE PROJECT THAT CANNOT BE ACCOMPLISHED BY ANY OTHER MEANS;

2. THE APPLICANT DEMONSTRATES THROUGH AN ALTERNATIVES ANALYSIS, THAT THROUGH THE USE OF NONSTRUCTURAL AND STRUCTURAL STORMWATER MANAGEMENT STRATEGIES AND MEASURES, THE OPTION SELECTED COMPLIES WITH THE REQUIREMENTS OF SECTIONS 3.F AND 3.G TO THE MAXIMUM EXTENT PRACTICABLE;

3. THE APPLICANT DEMONSTRATES THAT, IN ORDER TO MEET THE REQUIREMENTS OF SECTIONS 3.F AND 3.G, EXISTING STRUCTURES CURRENTLY IN USE, SUCH AS HOMES AND BUILDINGS, WOULD NEED TO BE CONDEMNED; AND

4. THE APPLICANT DEMONSTRATES THAT IT DOES NOT OWN OR HAVE OTHER RIGHTS TO AREAS, INCLUDING THE POTENTIAL TO OBTAIN THROUGH CONDEMNATION, LANDS NOT FALLING UNDER D.3 ABOVE WITHIN THE UPSTREAM DRAINAGE AREA OF THE RECEIVING STREAM, THAT WOULD PROVIDE ADDITIONAL OPPORTUNITIES TO MITIGATE THE REQUIREMENTS OF SECTIONS 3.F AND 3.G THAT WERE NOT ACHIEVABLE ON-SITE.

E. NONSTRUCTURAL STORMWATER MANAGEMENT STRATEGIES

1. TO THE MAXIMUM EXTENT PRACTICABLE, THE STANDARDS IN SECTIONS 3.F AND 3.G SHALL BE MET BY INCORPORATING NONSTRUCTURAL STORMWATER MANAGEMENT STRATEGIES SET FORTH AT SECTION 3.E INTO THE DESIGN. THE APPLICANT SHALL IDENTIFY THE NONSTRUCTURAL MEASURES INCORPORATED INTO THE DESIGN OF THE PROJECT. IF THE APPLICANT CONTENDS THAT IT IS NOT FEASIBLE FOR ENGINEERING, ENVIRONMENTAL, OR SAFETY REASONS TO INCORPORATE ANY NONSTRUCTURAL STORMWATER

MANAGEMENT MEASURES IDENTIFIED IN PARAGRAPH 3.E.2 BELOW INTO THE DESIGN OF A PARTICULAR PROJECT, THE APPLICANT SHALL IDENTIFY THE STRATEGY CONSIDERED AND PROVIDE A BASIS FOR THE CONTENTION.

2. NONSTRUCTURAL STORMWATER MANAGEMENT STRATEGIES INCORPORATED INTO SITE DESIGN SHALL:

   a. PROTECT AREAS THAT PROVIDE WATER QUALITY BENEFITS OR AREAS PARTICULARLY SUSCEPTIBLE TO EROSION AND SEDIMENT LOSS;

   b. MINIMIZE IMPERVIOUS SURFACES AND BREAK UP OR DISCONNECT THE FLOW OF RUNOFF OVER IMPERVIOUS SURFACES;

   c. MAXIMIZE THE PROTECTION OF NATURAL DRAINAGE FEATURES AND VEGETATION;

   d. MINIMIZE THE DECREASE IN THE "TIME OF CONCENTRATION" FROM PRE-CONSTRUCTION TO POST CONSTRUCTION. "TIME OF CONCENTRATION" IS DEFINED AS THE TIME IT TAKES FOR RUNOFF TO TRAVEL FROM THE HYDRAULICALLY MOST DISTANT POINT OF THE WATERSHED TO THE POINT OF INTEREST WITHIN A WATERSHED;

   e. MINIMIZE LAND DISTURBANCE INCLUDING CLEARING AND GRADING;

   f. MINIMIZE SOIL COMPACTION;

   g. PROVIDE LOW-MAINTENANCE LANDSCAPING THAT ENCOURAGES RETENTION AND PLANTING OF NATIVE VEGETATION AND MINIMIZES THE USE OF LAWNS, FERTILIZERS AND PESTICIDES;

   h. PROVIDE VEGETATED OPEN-CHANNEL CONVEYANCE SYSTEMS DISCHARGING INTO AND THROUGH STABLE VEGETATED AREAS;

   i. PROVIDE OTHER SOURCE CONTROLS TO PREVENT OR MINIMIZE THE USE OR EXPOSURE OF POLLUTANTS AT THE SITE, IN ORDER TO PREVENT OR MINIMIZE THE RELEASE OF THOSE POLLUTANTS INTO STORMWATER RUNOFF. THESE SOURCE CONTROLS INCLUDE, BUT ARE NOT LIMITED TO:

      (1) SITE DESIGN FEATURES THAT HELP TO PREVENT ACCUMULATION OF TRASH AND DEBRIS IN DRAINAGE SYSTEMS, INCLUDING FEATURES THAT SATISFY SECTION 3.E.3. BELOW;

(2) SITE DESIGN FEATURES THAT HELP TO PREVENT DISCHARGE OF TRASH AND DEBRIS FROM DRAINAGE SYSTEMS;

(3) SITE DESIGN FEATURES THAT HELP TO PREVENT AND/OR CONTAIN SPILLS OR OTHER HARMFUL ACCUMULATIONS OF POLLUTANTS AT INDUSTRIAL OR COMMERCIAL DEVELOPMENTS; AND

(4) WHEN ESTABLISHING VEGETATION AFTER LAND DISTURBANCE, APPLYING FERTILIZER IN ACCORDANCE WITH THE REQUIREMENTS ESTABLISHED UNDER THE SOIL EROSION AND SEDIMENT CONTROL ACT, N.J.S.A. 4:24- 39 ET SEQ., AND IMPLEMENTING RULES.

3. SITE DESIGN FEATURES IDENTIFIED UNDER SECTION 3.E.2.i.(2) ABOVE SHALL COMPLY WITH THE FOLLOWING STANDARD TO CONTROL PASSAGE OF SOLID AND FLOATABLE MATERIALS THROUGH STORM DRAIN INLETS. FOR PURPOSES OF THIS PARAGRAPH, "SOLID AND FLOATABLE MATERIALS" MEANS SEDIMENT, DEBRIS, TRASH, AND OTHER FLOATING, SUSPENDED, OR SETTLEABLE SOLIDS. FOR EXEMPTIONS TO THIS STANDARD SEE SECTION 3.E.3.c BELOW.

   a. DESIGN ENGINEERS SHALL USE EITHER OF THE FOLLOWING GRATES WHENEVER THEY USE A GRATE IN PAVEMENT OR ANOTHER GROUND SURFACE TO COLLECT STORMWATER FROM THAT SURFACE INTO A SOTRM DRAIN OR SURFACE WATER BODY UNDER THAT GRATE:

      (1) THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) BICYCLE SAFE GRATE, WHICH IS DESCRIBED IN CHAPTER 2.4 OF THE NJDOT BICYCLE COMPATIBLE ROADWAYS AND BIKEWAYS PLANNING AND DESIGN GUIDELINES (APRIL 1996); OR

      (2) A DIFFERENT GRATE, IF EACH INDIVIDUAL CLEAR SPACE IN THAT GRATE HAS AN AREA OF NO MORE THEN SEVEN (7.0) SQUARE INCHES, OR IS NO GREATER THEN 0.5 INCHES ACROSS THE SMALLEST DIMENSION.

   b. WHENEVER THE DESIGN ENGINEERS USE A CURB-OPENING INLET, THE CLEAR SPACE IN THAT CURB OPENING (OR EACH INDIVIDUAL CLEAR SPACE, IF THE CURB OPENING HAS TWO OR MORE CLEAR SPACES) SHALL HAVE AN AREA OF NO MORE THEN (7.0) SQUARE INCHES, OR BE NO GREATER THEN TWO (2.0) INCHES ACROSS THE SMALLEST DIMENSION.

   c. THIS STANDARD DOES NOT APPLY:

(1) WHERE THE REVIEW AGENCY DETERMINES THAT THIS STANDARD WOULD CAUSE INADEQUATE HYDAULIC PERFORMANCE THAT COULD NOT PRACTICABLY BE OVERCOME BY USING ADDITIONAL OR LARGER STORM DRAIN INLETS THAT MEET THESE STANDARDS;

(2) WHERE FLOWS FROM THE WATER QUALITY DESIGN STORM AS SPECIFIED IN SECTION 3.G.1 ARE CONVEYED THROUGH ANY DEVICE (E.G., END OF PIPE NETTING FACILITY, MANUFACTURED TREATMENT DEVICE, OR A CATCH BASIN HOOD) THAT IS DESIGNED, AT A MINIMUM, TO PREVENT DELIVERY OF ALL SOLID AND FLOATABLE MATERIALS THAT COULD NOT PASS THROUGH ONE OF THE FOLLOWING:

(a) A RECTANGULAR SPACE FOUR AND FIVE-EIGHTHS INCHES LONG AND ONE AND ONE-HALF INCHES WIDE (THIS OPTION DOES NOT APPLY FOR OUTFALL NETTING FACILITIES); OR

(b) A BAR SCREEN HAVE A BAR SPACING OF 0.5 INCHES.

(3) WHERE FLOWS ARE CONVEYED THROUGH A TRASH RACK THAT HAS PARALLEL BARS WITH ONE-INCH (1") SPACING BETWEEN THE BARS, TO THE ELEVATION OF THE WATER QUALITY DESIGN STORM AS SPECIFIED IN SECTION 4.G.1; OR

(4) WHERE THE NEW JERSEY DEPARTMENT OF ENVIORNMENTAL PROTECTION DETERMINES, PURSUANT TO THE NEW JERSEY REGISTER OF HISTORIC PLACES RULES AT N.J.A.C. 7:4-7:2(c), THAT ACTION TO MEET THIS STANDARD IS AN UNDERTAKING THAT CONSTITUTES AN ENCROACHMENT OR WILL DAMAGE OR DESTROY THE NEW JERSEY REGISTER LISTED HISTORIC PROPERTY.

4. ANY LAND USED AS A NONSTRUCTURAL STORMWATER MANAGEMENT MEASURE TO MEET THE PERFORMANCE STANDARDS IN SECTIONS 3.F. AND 3.G. SHALL BE DEDICATED TO A GOVERNMENT AGENCY, SUBJECT TO A CONSERVATION RESTRICTION FILED WITH THE APPROPRIATE COUNTY CLERK'S OFFICE, OR SUBJECT TO AN APPROVED EQUIVALENT RESTRICTION THAT ENSURES THAT MEASURE OR AN EQUIVALENT STORMWATER MANAGEMENT MEASURE APPROVED BY THE REVIEWING AGENCY IS MAINTAINED IN PERPETUITY.

5. GUIDANCE FOR NONSTRUCTURAL STORMWATER MANAGEMENT MEASURES IS AVAILABLE IN THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL.

F. EROSION CONTROL, GROUNDWATER RECHARGE AND RUNOFF QUANTITY STANDARDS

1. THIS SECTION CONTAINS MINIMUM DESIGN AND PERFORMANCE STANDARDS TO CONTROL EROSION, ENCOURAGE AND CONTROL INFILTRATION AND GROUNDWATER RECHARGE, AND CONTROL STORMWATER RUNOFF QUANTITY IMPACTS OF MAJOR DEVELOPMENT.

a. THE MINIMUM DESIGN AND PERFORMANCE STANDARDS FOR EROSION CONTROL ARE THOSE ESTABLISHED UNDER THE SOIL EROSION AND SEDIMENT CONTROL ACT, N.J.S.A. 4:24-39 ET SEQ. AND IMPLEMENTING RULES.

b. THE MINIMUM DESIGN AND PERFORMANCE STANDARDS FOR GROUNDWATER RECHARGE ARE AS FOLLOWS:

(1) THE DESIGN ENGINEER SHALL, USING THE ASSUMPTIONS AND FACTORS FOR STORMWATER RUNOFF AND GROUNDWATER RECHARGE CALCULATIONS AT SECTION 4, EITHER:

(a) DEMONSTRATE THROUGH HYDROLOGIC AND HYDRAULIC ANALYSIS THAT THE SITE AND ITS STORMWATER MANAGEMENT MEASURES MAINTAIN 100 PERCENT OF THE AVERAGE ANNUAL PRE-CONSTRUCTION GROUNDWATER RECHARGE VOLUME FOR THE SITE; OR

(b) DEMONSTRATE THROUGH HYDROLOGIC AND HYDRAULIC ANALYSIS THAT THE INCREASE OF STORMWATER RUNOFF VOLUME FROM PRE-CONSTRUCTION TO POST-CONSTRUCTION FOR THE 2-YEAR STORM IS INFILTRATED.

(2) THIS GROUNDWATER RECHARGE REQUIREMENT DOES NOT APPLY TO PROJECTS WITHIN THE "URBAN REDEVELOPMENT AREA," OR TO PROJECTS SUBJECT TO (3) BELOW.

(3) THE FOLLOWING TYPES OF STORMWATER SHALL NOT BE RECHARGED:

(a) STORMWATER FROM AREAS OF HIGH POLLUTANT LOADING. HIGH POLLUTANT LOADING AREAS ARE AREAS IN INDUSTRIAL AND COMMERCIAL DEVELOPMENTS WHERE SOLVENTS AND/OR PETROLEUM PRODUCTS ARE LOADED/UNLOADED, STORED, OR APPLIED, AREAS WHERE PESTICIDES ARE LOADED/UNLOADED OR STORED; AREAS WHERE HAZARDOUS MATERIALS ARE EXPECTED TO BE PRESENT IN GREATER THAN "REPORTABLE QUANTITIES" AS DEFINED BY THE UNITED STATES

ENVIRONMENTAL PROTECTION AGENCY (EPA) AT 40 CFR 302.4; AREAS WHERE RECHARGE WOULD BE INCONSISTENT WITH DEPARTMENT APPROVED REMEDIAL ACTION WORK PLAN OR LANDFILL CLOSURE PLAN AND AREAS WITH HIGH RISKS FOR SPILLS OF TOXIC MATERIALS, SUCH AS GAS STATIONS AND VEHICLE MAINTENANCE FACILITIES; AND

(b) INDUSTRIAL STORMWATER EXPOSED TO "SOURCE MATERIAL." "SOURCE MATERIAL" MEANS ANY MATERIAL(S) OR MACHINERY, LOCATED AT AN INDUSTRIAL FACILITY, THAT IS DIRECTLY OR INDIRECTLY RELATED TO PROCESS, MANUFACTURING OR OTHER INDUSTRIAL ACTIVITIES, WHICH COULD BE A SOURCE OF POLLUTANTS IN ANY INDUSTRIAL STORMWATER DISCHARGE TO GROUNDWATER. SOURCE MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, RAW MATERIALS; INTERMEDIATE PRODUCTS; FINAL PRODUCTS; WASTE MATERIALS; BY-PRODUCTS; INDUSTRIAL MACHINERY AND FUELS, AND LUBRICANTS, SOLVENTS, AND DETERGENTS THAT ARE RELATED TO PROCESS, MANUFACTURING, OR OTHER INDUSTRIAL ACTIVITIES THAT ARE EXPOSED TO STORMWATER.

(4) THE DESIGN ENGINEER SHALL ASSESS THE HYDRAULIC IMPACT ON THE GROUNDWATER TABLE AND DESIGN THE SITE SO AS TO AVOID ADVERSE HYDRAULIC IMPACTS. POTENTIAL ADVERSE HYDRAULIC IMPACTS INCLUDE, BUT ARE NOT LIMITED TO, EXACERBATING A NATURALLY OR SEASONALLY HIGH WATER TABLE SO AS TO CAUSE SURFICIAL PONDING, FLOODING OF BASEMENTS, OR INTERFERENCE WITH THE PROPER OPERATION OF SUBSURFACE SEWAGE DISPOSAL SYSTEMS AND OTHER SUBSURFACE STRUCTURES IN THE VICINITY OR DOWNGRADIENT OF THE GROUNDWATER RECHARGE AREA.

c. IN ORDER TO CONTROL STORMWATER RUNOFF QUANTITY IMPACTS, THE DESIGN ENGINEER SHALL, USING THE ASSUMPTIONS AND FACTORS FOR STORMWATER RUNOFF CALCULATIONS AT SECTION 4, COMPLETE ONE OF THE FOLLOWING:

(1) DEMONSTRATE THROUGH HYDROLOGIC AND HYDRAULIC ANALYSIS THAT FOR STORMWATER LEAVING THE SITE, POST-CONSTRUCTION RUNOFF HYDROGRAPHS FOR THE TWO, 10, AND 100-YEAR STORM EVENTS DO NOT EXCEED, AT ANY POINT IN TIME, THE PRE-CONSTRUCTION RUNOFF HYDROGRAPHS FOR THE SAME STORM EVENTS;

(2) DEMONSTRATE THROUGH HYDROLOGIC AND HYDRAULIC ANALYSIS THAT THERE IS NO INCREASE, AS COMPARED TO THE PRE-CONSTRUCTION CONDITION, IN THE PEAK RUNOFF RATES OF

STORMWATER LEAVING THE SITE FOR THE TWO, 10, AND 100-YEAR STORM EVENTS AND THAT THE INCREASED VOLUME OR CHANGE IN TIMING OF STORMWATER RUNOFF WILL NOT INCREASE FLOOD DAMAGE AT OR DOWNSTREAM OF THE SITE. THIS ANALYSIS SHALL INCLUDE THE ANALYSIS OF IMPACTS OF EXISTING LAND USES AND PROJECTED LAND USES ASSUMING FULL DEVELOPMENT UNDER EXISTING ZONING AND LAND USE ORDINANCES IN THE DRAINAGE AREA;

(3) DESIGN STORMWATER MANAGEMENT MEASURES SO THAT THE POST-CONSTRUCTION PEAK RUNOFF RATES FOR THE 2, 10 AND 100 YEAR STORM EVENTS ARE 50, 75 AND 80 PERCENT, RESPECTIVELY, OF THE PRECONSTRUCTION PEAK RUNOFF RATES. THE PERCENTAGES APPLY ONLY TO THE POST-CONSTRUCTION STORMWATER RUNOFF THAT IS ATTRIBUTABLE TO THE PORTION OF THE SITE ON WHICH THE PROPOSED DEVELOPMENT OR PROJECT IS TO BE CONSTRUCTED. THE PERCENTAGES SHALL NOT BE APPLIED TO POST-CONSTRUCTION STORMWATER RUNOFF INTO TIDAL FLOOD HAZARD AREAS IF THE INCREASED VOLUME OF STORMWATER RUNOFF WILL NOT INCREASE FLOOD DAMAGES BELOW THE POINT OF DISCHARGE; OR

(4) IN TIDAL FLOOD HAZARD AREAS, STORMWATER RUNOFF QUANTITY ANALYSIS IN ACCORDANCE WITH (1), (2) AND (3) ABOVE SHALL ONLY BE APPLIED IF THE INCREASED VOLUME OF STORMWATER RUNOFF COULD INCREASE FLOOD DAMAGES BELOW THE POINT OF DISCHARGE.

2. ANY APPLICATION FOR A NEW AGRICULTURAL DEVELOPMENT THAT MEETS THE DEFINITION OF MAJOR DEVELOPMENT AT SECTION 13 SHALL BE SUBMITTED TO THE APPROPRIATE SOIL CONSERVATION DISTRICT FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND ANY APPLICABLE SOIL CONSERVATION DISTRICT GUIDELINES FOR STORMWATER RUNOFF QUANTITY AND EROSION CONTROL. FOR THE PURPOSES OF THIS SECTION, "AGRICULTURAL DEVELOPMENT" MEANS LAND USES NORMALLY ASSOCIATED WITH THE PRODUCTION OF FOOD, FIBER AND LIVESTOCK FOR SALE. SUCH USES DO NOT INCLUDE THE DEVELOPMENT OF LAND FOR THE PROCESSING OR SALE OF FOOD AND THE MANUFACTURING OF AGRICULTURALLY RELATED PRODUCTS.

G. STORMWATER RUNOFF QUALITY STANDARDS

1. STORMWATER MANAGEMENT MEASURES SHALL BE DESIGNED TO REDUCE THE POST-CONSTRUCTION LOAD OF TOTAL SUSPENDED SOLIDS (TSS) IN STORMWATER RUNOFF BY 80 PERCENT OF THE ANTICIPATED LOAD FROM THE DEVELOPED SITE, EXPRESSED AS AN ANNUAL AVERAGE.

STORMWATER MANAGEMENT MEASURES SHALL ONLY BE REQUIRED FOR WATER QUALITY CONTROL IF AN ADDITIONAL 1/4 ACRE OF IMPERVIOUS SURFACE IS BEING PROPOSED ON A DEVELOPMENT SITE. THE REQUIREMENT TO REDUCE TSS DOES NOT APPLY TO ANY STORMWATER RUNOFF IN A DISCHARGE REGULATED UNDER A NUMERIC EFFLUENT LIMITATION FOR TSS IMPOSED UNDER THE NEW JERSEY POLLUTION DISCHARGE ELIMINATION SYSTEM (NJPDES) RULES, N.J.A.C. 7:14A, OR IN A DISCHARGE SPECIFICALLY EXEMPT UNDER A NJPDES PERMIT FROM THIS REQUIREMENT. THE WATER QUALITY DESIGN STORM IS 1.25 INCHES OF RAINFALL IN TWO HOURS. WATER QUALITY CALCULATIONS SHALL TAKE INTO ACCOUNT THE DISTRIBUTION OF RAIN FROM THE WATER QUALITY DESIGN STORM, AS REFLECTED IN TABLE 1. THE CALCULATION OF THE VOLUME OF RUNOFF MAY TAKE INTO ACCOUNT THE IMPLEMENTATION OF NON-STRUCTURAL AND STRUCTURAL STORMWATER MANAGEMENT MEASURES.

TABLE 1: WATER QUALITY DESIGN STORM DISTRIBUTION

TIME (MINUTES)	CUMULATIVE RAINFALL (INCHES)	TIME (MINUTES)	CUMULATIVE RAINFALL (INCHES)
0	0.0000	65	0.8917
5	0.0083	70	0.9917
10	0.0166	75	1.0500
15	0.0250	80	1.0840
20	0.0500	85	1.1170
25	0.0750	90	1.1500
30	0.1000	95	1.1750
35	0.1330	100	1.2000
40	0.1660	105	1.2250
45	0.2000	110	1.2334
50	0.2583	115	1.2417
55	0.3583	120	1.2500
60	0.6250	-	-

2. FOR PURPOSES OF TSS REDUCTION CALCULATIONS, TABLE 2 BELOW PRESENTS THE PRESUMED REMOVAL RATES FOR CERTAIN BMPS DESIGNED IN ACCORDANCE WITH THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL. THE BMP MANUAL MAY BE OBTAINED FROM THE ADDRESS IDENTIFIED IN SECTION 6, OR FOUND ON THE DEPARTMENT'S WEBSITE AT WWW.NJSTORMWATER.ORG. THE BMP MANUAL AND OTHER SOURCES OF TECHNICAL GUIDANCE ARE LISTED IN SECTION 6. TSS REDUCTION SHALL BE CALCULATED BASED ON THE REMOVAL RATES FOR THE BMPS IN TABLE 2 BELOW. ALTERNATIVE REMOVAL RATES AND METHODS OF CALCULATING REMOVAL RATES MAY BE USED IF THE DESIGN ENGINEER PROVIDES DOCUMENTATION DEMONSTRATING THE CAPABILITY OF THESE ALTERNATIVE RATES AND METHODS TO THE REVIEW AGENCY. A COPY OF ANY APPROVED ALTERNATIVE RATE OR METHOD OF CALCULATING THE REMOVAL RATE SHALL BE PROVIDED TO THE DEPARTMENT AT THE FOLLOWING ADDRESS: DIVISION OF WATERSHED MANAGEMENT, NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, PO BOX 418 TRENTON, NEW JERSEY, 08625-0418.

3. IF MORE THAN ONE BMP IN SERIES IS NECESSARY TO ACHIEVE THE REQUIRED 80 PERCENT TSS REDUCTION FOR A SITE, THE APPLICANT SHALL UTILIZE THE FOLLOWING FORMULA TO CALCULATE TSS REDUCTION:

$R = A + B - [(A \times B)/100]$

WHERE

R = TOTAL TSS PERCENT LOAD REMOVAL FROM APPLICATION OF BOTH BMPS, AND

A = THE TSS PERCENT REMOVAL RATE APPLICABLE TO THE FIRST BMP

B = THE TSS PERCENT REMOVAL RATE APPLICABLE TO THE SECOND BMP

TABLE 2: TSS REMOVAL RATES FOR BMPS

BEST MANAGEMENT PRACTICE	TSS PERCENT REMOVAL RATE
BIORETENTION SYSTEMS	90
CONSTRUCTED STORMWATER WETLAND	90
EXTENDED DETENTION BASIN	40-60
INFILTRATION STRUCTURE	80
MANUFACTURED TREATMENT DEVICE	SEE SECTION 5.C
SAND FILTER	80
VEGETATIVE FILTER STRIP	60-80
WET POND	50-90

4. IF THERE IS MORE THAN ONE ONSITE DRAINAGE AREA, THE 80 PERCENT TSS REMOVAL RATE SHALL APPLY TO EACH DRAINAGE AREA, UNLESS THE RUNOFF FROM THE SUBAREAS CONVERGE ON SITE IN WHICH CASE THE REMOVAL RATE CAN BE DEMONSTRATED THROUGH A CALCULATION USING A WEIGHTED AVERAGE.

5. STORMWATER MANAGEMENT MEASURES SHALL ALSO BE DESIGNED TO REDUCE, TO THE MAXIMUM EXTENT FEASIBLE, THE POST-CONSTRUCTION NUTRIENT LOAD OF THE ANTICIPATED LOAD FROM THE DEVELOPED SITE IN STORMWATER RUNOFF GENERATED FROM THE WATER QUALITY DESIGN STORM. IN ACHIEVING REDUCTION OF NUTRIENTS TO THE MAXIMUM EXTENT FEASIBLE, THE DESIGN OF THE SITE SHALL INCLUDE NONSTRUCTURAL STRATEGIES AND STRUCTURAL MEASURES THAT OPTIMIZE NUTRIENT REMOVAL WHILE STILL ACHIEVING THE PERFORMANCE STANDARDS IN SECTIONS 3.F AND 3.G.

6. ADDITIONAL INFORMATION AND EXAMPLES ARE CONTAINED IN THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL, WHICH MAY BE OBTAINED FROM THE ADDRESS IDENTIFIED IN SECTION 6.

7. IN ACCORDANCE WITH THE DEFINITION OF FW1 AT N.J.A.C. 7:9B-1.4, STORMWATER MANAGEMENT MEASURES SHALL BE DESIGNED TO PREVENT ANY INCREASE IN STORMWATER RUNOFF TO WATERS CLASSIFIED AS FW1.

8. SPECIAL WATER RESOURCE PROTECTION AREAS SHALL BE ESTABLISHED ALONG ALL WATERS DESIGNATED CATEGORY ONE AT N.J.A.C. 7:9B, AND PERENNIAL OR INTERMITTENT STREAMS THAT DRAIN INTO OR UPSTREAM OF THE CATEGORY ONE WATERS AS SHOWN ON THE USGS QUADRANGLE MAPS OR IN THE COUNTY SOIL SURVEYS, WITHIN THE ASSOCIATED HUC14 DRAINAGE AREA. THESE AREAS SHALL BE ESTABLISHED FOR THE PROTECTION OF WATER QUALITY, AESTHETIC VALUE, EXCEPTIONAL ECOLOGICAL SIGNIFICANCE, EXCEPTIONAL RECREATIONAL SIGNIFICANCE, EXCEPTIONAL WATER SUPPLY SIGNIFICANCE, AND EXCEPTIONAL FISHERIES SIGNIFICANCE OF THOSE ESTABLISHED CATEGORY ONE WATERS. THESE AREAS SHALL BE DESIGNATED AND PROTECTED AS FOLLOWS:

a. THE APPLICANT SHALL PRESERVE AND MAINTAIN A SPECIAL WATER RESOURCE PROTECTION AREA IN ACCORDANCE WITH ONE OF THE FOLLOWING:

(1) A 300-FOOT SPECIAL WATER RESOURCE PROTECTION AREA SHALL BE PROVIDED ON EACH SIDE OF THE WATERWAY, MEASURED PERPENDICULAR TO THE WATERWAY FROM THE TOP OF THE BANK OUTWARDS OR FROM THE CENTERLINE OF THE WATERWAY WHERE THE BANK IS NOT DEFINED, CONSISTING OF EXISTING VEGETATION OR

VEGETATION ALLOWED TO FOLLOW NATURAL SUCCESSION IS PROVIDED.

(2) ENCROACHMENT WITHIN THE DESIGNATED SPECIAL WATER RESOURCE PROTECTION AREA UNDER SUBSECTION (1) ABOVE SHALL ONLY BE ALLOWED WHERE PREVIOUS DEVELOPMENT OR DISTURBANCE HAS OCCURRED (FOR EXAMPLE, ACTIVE AGRICULTURAL USE, PARKING AREA OR MAINTAINED LAWN AREA). THE ENCROACHMENT SHALL ONLY BE ALLOWED WHERE APPLICANT DEMONSTRATES THAT THE FUNCTIONAL VALUE AND OVERALL CONDITION OF THE SPECIAL WATER RESOURCE PROTECTION AREA WILL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE. IN NO CASE SHALL THE REMAINING SPECIAL WATER RESOURCE PROTECTION AREA BE REDUCED TO LESS THAN 150 FEET AS MEASURED PERPENDICULAR TO THE TOP OF BANK OF THE WATERWAY OR CENTERLINE OF THE WATERWAY WHERE THE BANK IS UNDEFINED. ALL ENCROACHMENTS PROPOSED UNDER THIS SUBPARAGRAPH SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE DEPARTMENT.

b. ALL STORMWATER SHALL BE DISCHARGED OUTSIDE OF AND FLOW THROUGH THE SPECIAL WATER RESOURCE PROTECTION AREA AND SHALL COMPLY WITH THE STANDARD FOR OFF-SITE STABILITY IN THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY," ESTABLISHED UNDER THE SOIL EROSION AND SEDIMENT CONTROL ACT , N.J.S.A. 4:24-39 ET SEQ.

c. IF STORMWATER DISCHARGED OUTSIDE OF AND FLOWING THROUGH THE SPECIAL WATER RESOURCE PROTECTION AREA CANNOT COMPLY WITH THE STANDARD FOR OFF-SITE STABILITY IN THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY," ESTABLISHED UNDER THE SOIL EROSION AND SEDIMENT CONTROL ACT , N.J.S.A. 4:24-39 ET SEQ., THEN THE STABILIZATION MEASURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE STANDARDS MAY BE PLACED WITHIN THE SPECIAL WATER RESOURCE PROTECTION AREA, PROVIDED THAT:

(1) STABILIZATION MEASURES SHALL NOT BE PLACED WITHIN 150 FEET OF THE CATEGORY ONE WATERWAY;

(2) STORMWATER ASSOCIATED WITH DISCHARGES ALLOWED BY THIS SECTION SHALL ACHIEVE A 95 PERCENT TSS POST-CONSTRUCTION REMOVAL RATE;

(3) TEMPERATURE SHALL BE ADDRESSED TO ENSURE NO IMPACT ON THE RECEIVING WATERWAY;

(4) THE ENCROACHMENT SHALL ONLY BE ALLOWED WHERE THE APPLICANT DEMONSTRATES THAT THE FUNCTIONAL VALUE AND

OVERALL CONDITION OF THE SPECIAL WATER RESOURCE PROTECTION AREA WILL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE;

(5) A CONCEPTUAL PROJECT DESIGN MEETING SHALL BE HELD WITH THE APPROPRIATE DEPARTMENT STAFF AND SOIL CONSERVATION DISTRICT STAFF TO IDENTIFY NECESSARY STABILIZATION MEASURES; AND

(6) ALL ENCROACHMENTS PROPOSED UNDER THIS SECTION SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE DEPARTMENT.

d. THIS SUBSECTION DOES NOT APPLY TO THE CONSTRUCTION OF ONE INDIVIDUAL SINGLE FAMILY DWELLING THAT IS NOT PART OF A LARGER DEVELOPMENT ON A LOT RECEIVING PRELIMINARY OR FINAL SUBDIVISION APPROVAL ON OR BEFORE FEBRUARY 2, 2004, PROVIDED THAT THE CONSTRUCTION BEGINS ON OR BEFORE FEBRUARY 2, 2009.

SECTION 4 - CALCULATION OF STORMWATER RUNOFF AND GROUNDWATER RECHARGE

A. STORMWATER RUNOFF SHALL BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING:

1. THE DESIGN ENGINEER SHALL CALCULATE RUNOFF USING ONE OF THE FOLLOWING METHODS:

   a. THE USDA NATURAL RESOURCES CONSERVATION SERVICE (NRCS) METHODOLOGY, INCLUDING THE NRCS RUNOFF EQUATION AND DIMENSIONLESS UNIT HYDROGRAPH, AS DESCRIBED IN THE NRCS NATIONAL ENGINEERING HANDBOOK SECTION 4 – HYDROLOGY AND TECHNICAL RELEASE 55 – URBAN HYDROLOGY FOR SMALL WATERSHEDS; OR;
   b. THE RATIONAL METHOD FOR PEAK FLOW AND THE MODIFIED RATIONAL METHOD FOR HYDROGRAPH COMPUTATIONS.

2. FOR THE PURPOSE OF CALCULATING RUNOFF COEFFICIENTS AND GROUNDWATER RECHARGE, THERE IS A PRESUMPTION THAT THE PRE-CONSTRUCTION CONDITION OF A SITE OR PORTION THEREOF IS A WOODED LAND USE WITH GOOD HYDROLOGIC CONDITION. THE TERM "RUNOFF COEFFICIENT" APPLIES TO BOTH THE NRCS METHODOLOGY AT SECTION 4.A.1.a AND THE RATIONAL AND MODIFIED RATIONAL METHODS AT SECTION 4.A.1.b. A RUNOFF COEFFICIENT OR A GROUNDWATER RECHARGE LAND COVER FOR AN EXISTING CONDITION MAY BE USED ON ALL OR A PORTION OF THE SITE IF THE DESIGN ENGINEER VERIFIES THAT THE HYDROLOGIC CONDITION HAS EXISTED ON THE SITE OR PORTION OF THE SITE FOR AT LEAST FIVE YEARS WITHOUT INTERRUPTION PRIOR TO THE TIME OF APPLICATION. IF MORE THAN ONE LAND COVER HAVE

EXISTED ON THE SITE DURING THE FIVE YEARS IMMEDIATELY PRIOR TO THE TIME OF APPLICATION, THE LAND COVER WITH THE LOWEST RUNOFF POTENTIAL SHALL BE USED FOR THE COMPUTATIONS. IN ADDITION, THERE IS THE PRESUMPTION THAT THE SITE IS IN GOOD HYDROLOGIC CONDITION (IF THE LAND USE TYPE IS PASTURE, LAWN, OR PARK), WITH GOOD COVER (IF THE LAND USE TYPE IS WOODS), OR WITH GOOD HYDROLOGIC CONDITION AND CONSERVATION TREATMENT (IF THE LAND USE TYPE IS CULTIVATION).

3. IN COMPUTING PRE-CONSTRUCTION STORMWATER RUNOFF, THE DESIGN ENGINEER SHALL ACCOUNT FOR ALL SIGNIFICANT LAND FEATURES AND STRUCTURES, SUCH AS PONDS, WETLANDS, DEPRESSIONS, HEDGEROWS, OR CULVERTS, THAT MAY REDUCE PRE-CONSTRUCTION STORMWATER RUNOFF RATES AND VOLUMES.

4. IN COMPUTING STORMWATER RUNOFF FROM ALL DESIGN STORMS, THE DESIGN ENGINEER SHALL CONSIDER THE RELATIVE STORMWATER RUNOFF RATES AND/OR VOLUMES OF PERVIOUS AND IMPERVIOUS SURFACES SEPARATELY TO ACCURATELY COMPUTE THE RATES AND VOLUME OF STORMWATER RUNOFF FROM THE SITE. TO CALCULATE RUNOFF FROM UNCONNECTED IMPERVIOUS COVER, URBAN IMPERVIOUS AREA MODIFICATIONS AS DESCRIBED IN THE NRCS TECHNICAL RELEASE 55 – URBAN HYDROLOGY FOR SMALL WATERSHEDS AND OTHER METHODS MAY BE EMPLOYED.

5. IF THE INVERT OF THE OUTLET STRUCTURE OF A STORMWATER MANAGEMENT MEASURE IS BELOW THE FLOOD HAZARD DESIGN FLOOD ELEVATION AS DEFINED AT N.J.A.C. 7:13, THE DESIGN ENGINEER SHALL TAKE INTO ACCOUNT THE EFFECTS OF TAILWATER IN THE DESIGN OF STRUCTURAL STORMWATER MANAGEMENT MEASURES.

B. GROUNDWATER RECHARGE MAY BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING:

1. THE NEW JERSEY GEOLOGICAL SURVEY REPORT GSR-32 A METHOD FOR EVALUATING GROUND-WATER RECHARGE AREAS IN NEW JERSEY, INCORPORATED HEREIN BY REFERENCE AS AMENDED AND SUPPLEMENTED. INFORMATION REGARDING THE METHODOLOGY IS AVAILABLE FROM THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL; AT HTTP://WWW.STATE.NJ.US/DEP/NJGS/; OR AT NEW JERSEY GEOLOGICAL SURVEY, 29 ARCTIC PARKWAY, P.O. BOX 427 TRENTON, NEW JERSEY 08625-0427; (609) 984-6587.

SECTION 5 - STANDARDS FOR STRUCTURAL STORMWATER MANAGEMENT MEASURES

A. STANDARDS FOR STRUCTURAL STORMWATER MANAGEMENT MEASURES ARE AS FOLLOWS:

1. STRUCTURAL STORMWATER MANAGEMENT MEASURES SHALL BE DESIGNED TO TAKE INTO ACCOUNT THE EXISTING SITE CONDITIONS, INCLUDING, FOR EXAMPLE, ENVIRONMENTALLY CRITICAL AREAS, WETLANDS; FLOOD-PRONE AREAS; SLOPES; DEPTH TO SEASONAL HIGH WATER TABLE; SOIL TYPE, PERMEABILITY AND TEXTURE; DRAINAGE AREA AND DRAINAGE PATTERNS; AND THE PRESENCE OF SOLUTION-PRONE CARBONATE ROCKS (LIMESTONE).

2. STRUCTURAL STORMWATER MANAGEMENT MEASURES SHALL BE DESIGNED TO MINIMIZE MAINTENANCE, FACILITATE MAINTENANCE AND REPAIRS, AND ENSURE PROPER FUNCTIONING.

3. STRUCTURAL STORMWATER MANAGEMENT MEASURES SHALL BE DESIGNED, CONSTRUCTED, AND INSTALLED TO BE STRONG, DURABLE, AND CORROSION RESISTANT. MEASURES THAT ARE CONSISTENT WITH THE RELEVANT PORTIONS OF THE RESIDENTIAL SITE IMPROVEMENT STANDARDS AT N.J.A.C. 5:21-7.3, 7.4, AND 7.5 SHALL BE DEEMED TO MEET THIS REQUIREMENT.

B. STORMWATER MANAGEMENT MEASURE GUIDELINES ARE AVAILABLE IN THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL. OTHER STORMWATER MANAGEMENT MEASURES MAY BE UTILIZED PROVIDED THE DESIGN ENGINEER DEMONSTRATES THAT THE PROPOSED MEASURE AND ITS DESIGN WILL ACCOMPLISH THE REQUIRED WATER QUANTITY, GROUNDWATER RECHARGE, AND WATER QUALITY DESIGN AND PERFORMANCE STANDARDS ESTABLISHED BY THIS SECTION 3.

C. MANUFACTURED TREATMENT DEVICES MAY BE USED TO MEET THE REQUIREMENTS OF SECTION 3 OF THIS ORDINANCE, PROVIDED THE POLLUTANT REMOVAL RATES ARE VERIFIED BY THE NEW JERSEY CORPORATION FOR ADVANCED TECHNOLOGY AND CERTIFIED BY THE DEPARTMENT.

SECTION 6 - SOURCES FOR TECHNICAL GUIDANCE

A. TECHNICAL GUIDANCE FOR STORMWATER MANAGEMENT MEASURES CAN BE FOUND IN THE DOCUMENTS LISTED AT 1 AND 2 BELOW, WHICH ARE AVAILABLE FROM MAPS AND PUBLICATIONS, NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, 428 EAST STATE STREET, P.O. BOX 420, TRENTON, NEW JERSEY, 08625; TELEPHONE (609) 777-1038.

1. GUIDELINES FOR STORMWATER MANAGEMENT MEASURES ARE CONTAINED IN THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL, AS AMENDED. INFORMATION IS PROVIDED ON STORMWATER MANAGEMENT MEASURES SUCH AS: BIORETENTION SYSTEMS, CONSTRUCTED STORMWATER WETLANDS, DRY WELLS, EXTENDED DETENTION BASINS, INFILTRATION STRUCTURES, MANUFACTURED TREATMENT DEVICES, PERVIOUS PAVING, SAND FILTERS, VEGETATIVE FILTER STRIPS, AND WET PONDS.

2. THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION STORMWATER MANAGEMENT FACILITIES MAINTENANCE MANUAL, AS AMENDED.

B. ADDITIONAL TECHNICAL GUIDANCE FOR STORMWATER MANAGEMENT MEASURES CAN BE OBTAINED FROM THE FOLLOWING:

1. THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" PROMULGATED BY THE STATE SOIL CONSERVATION COMMITTEE AND INCORPORATED INTO N.J.A.C. 2:90. COPIES OF THESE STANDARDS MAY BE OBTAINED BY CONTACTING THE STATE SOIL CONSERVATION COMMITTEE OR ANY OF THE SOIL CONSERVATION DISTRICTS LISTED IN N.J.A.C. 2:90-1.3(A)4. THE LOCATION, ADDRESS, AND TELEPHONE NUMBER OF EACH SOIL CONSERVATION DISTRICT MAY BE OBTAINED FROM THE STATE SOIL CONSERVATION COMMITTEE, P.O. BOX 330, TRENTON, NEW JERSEY 08625; (609) 292-5540;

2. THE RUTGERS COOPERATIVE EXTENSION SERVICE, 732-932-9306; AND

3. THE SOIL CONSERVATION DISTRICTS LISTED IN N.J.A.C. 2:90-1.3(A)4. THE LOCATION, ADDRESS, AND TELEPHONE NUMBER OF EACH SOIL CONSERVATION DISTRICT MAY BE OBTAINED FROM THE STATE SOIL CONSERVATION COMMITTEE, P.O. BOX 330, TRENTON, NEW JERSEY, 08625, (609) 292-5540.

SECTION 7 - REQUIREMENTS FOR A SITE DEVELOPMENT STORMWATER PLAN

A. SUBMISSION OF SITE DEVELOPMENT STORMWATER PLAN

1. WHENEVER AN APPLICANT SEEKS MUNICIPAL APPROVAL OF A DEVELOPMENT SUBJECT TO THIS ORDINANCE, THE APPLICANT SHALL SUBMIT ALL OF THE REQUIRED COMPONENTS OF THE CHECKLIST FOR THE SITE DEVELOPMENT STORMWATER PLAN AT SECTION 7.C BELOW AS PART OF THE SUBMISSION OF THE APPLICANT'S APPLICATION FOR SUBDIVISION OR SITE PLAN APPROVAL.

2. THE APPLICANT SHALL DEMONSTRATE THAT THE PROJECT MEETS THE STANDARDS SET FORTH IN THIS ORDINANCE.

3. THE APPLICANT SHALL SUBMIT EIGHTEEN (18) COPIES OF THE MATERIALS LISTED IN THE CHECKLIST FOR SITE DEVELOPMENT STORMWATER PLANS IN ACCORDANCE WITH SECTION 8.C OF THIS ORDINANCE.

B. SITE DEVELOPMENT STORMWATER PLAN APPROVAL

THE APPLICANT'S SITE DEVELOPMENT PROJECT SHALL BE REVIEWED AS A PART OF THE SUBDIVISION OR SITE PLAN REVIEW PROCESS BY THE MUNICIPAL BOARD OR OFFICIAL FROM WHICH MUNICIPAL APPROVAL IS SOUGHT. THAT MUNICIPAL BOARD OR OFFICIAL SHALL CONSULT THE ENGINEER RETAINED BY THE PLANNING AND/OR ZONING BOARD (AS APPROPRIATE) TO DETERMINE IF ALL OF THE CHECKLIST REQUIREMENTS HAVE BEEN SATISFIED AND TO DETERMINE IF THE PROJECT MEETS THE STANDARDS SET FORTH IN THIS ORDINANCE.

C. CHECKLIST REQUIREMENTS

THE FOLLOWING INFORMATION SHALL BE REQUIRED:

1. TOPOGRAPHIC BASE MAP

   THE REVIEWING ENGINEER MAY REQUIRE UPSTREAM TRIBUTARY DRAINAGE SYSTEM INFORMATION AS NECESSARY. IT IS RECOMMENDED THAT THE TOPOGRAPHIC BASE MAP OF THE SITE BE SUBMITTED WHICH EXTENDS A MINIMUM OF 200 FEET BEYOND THE LIMITS OF THE PROPOSED DEVELOPMENT, AT A SCALE OF 1"=200' OR GREATER, SHOWING 2- FOOT CONTOUR INTERVALS. THE MAP AS APPROPRIATE MAY INDICATE THE FOLLOWING: EXISTING SURFACE WATER DRAINAGE, SHORELINES, STEEP SLOPES, SOILS, ERODIBLE SOILS, PERENNIAL OR INTERMITTENT STREAMS THAT DRAIN INTO OR UPSTREAM OF THE CATEGORY ONE WATERS, WETLANDS AND FLOOD PLAINS ALONG WITH THEIR APPROPRIATE BUFFER STRIPS, MARSHLANDS AND OTHER WETLANDS, PERVIOUS OR VEGETATIVE SURFACES, EXISTING MAN-MADE STRUCTURES, ROADS, BEARING AND DISTANCES OF PROPERTY LINES, AND SIGNIFICANT NATURAL AND MANMADE FEATURES NOT OTHERWISE SHOWN.

2. ENVIRONMENTAL SITE ANALYSIS

   A WRITTEN AND GRAPHIC DESCRIPTION OF THE NATURAL AND MAN-MADE FEATURES OF THE SITE AND ITS ENVIRONS. THIS DESCRIPTION SHOULD INCLUDE A DISCUSSION OF SOIL CONDITIONS, SLOPES, WETLANDS, WATERWAYS AND VEGETATION ON THE SITE. PARTICULAR ATTENTION SHOULD BE GIVEN TO UNIQUE, UNUSUAL, OR ENVIRONMENTALLY SENSITIVE FEATURES AND TO THOSE THAT PROVIDE PARTICULAR OPPORTUNITIES OR CONSTRAINTS FOR DEVELOPMENT.

3. PROJECT DESCRIPTION AND SITE PLAN(S)

A MAP (OR MAPS) AT THE SCALE OF THE TOPOGRAPHICAL BASE MAP INDICATING THE LOCATION OF EXISTING AND PROPOSED BUILDINGS, ROADS, PARKING AREAS, UTILITIES, STRUCTURAL FACILITIES FOR STORMWATER MANAGEMENT AND SEDIMENT CONTROL, AND OTHER PERMANENT STRUCTURES. THE MAP(S) SHALL ALSO CLEARLY SHOW AREAS WHERE ALTERATIONS OCCUR IN THE NATURAL TERRAIN AND COVER, INCLUDING LAWNS AND OTHER LANDSCAPING, AND SEASONAL HIGH GROUND WATER ELEVATIONS. A WRITTEN DESCRIPTION OF THE SITE PLAN AND JUSTIFICATION OF PROPOSED CHANGES IN NATURAL CONDITIONS MAY ALSO BE PROVIDED.

4. LAND USE PLANNING AND SOURCE CONTROL PLAN

THIS PLAN SHALL PROVIDE A DEMONSTRATION OF HOW THE GOALS AND STANDARDS OF SECTIONS 3 THROUGH 6 ARE BEING MET. THE FOCUS OF THIS PLAN SHALL BE TO DESCRIBE HOW THE SITE IS BEING DEVELOPED TO MEET THE OBJECTIVE OF CONTROLLING GROUNDWATER RECHARGE, STORMWATER QUALITY AND STORMWATER QUANTITY PROBLEMS AT THE SOURCE BY LAND MANAGEMENT AND SOURCE CONTROLS WHENEVER POSSIBLE.

5. STORMWATER MANAGEMENT FACILITIES MAP

THE FOLLOWING INFORMATION, ILLUSTRATED ON A MAP OF THE SAME SCALE AS THE TOPOGRAPHIC BASE MAP, SHALL BE INCLUDED:

a. TOTAL AREA TO BE PAVED OR BUILT UPON, PROPOSED SURFACE CONTOURS, LAND AREA TO BE OCCUPIED BY THE STORMWATER MANAGEMENT FACILITIES AND THE TYPE OF VEGETATION THEREON, AND DETAILS OF THE PROPOSED PLAN TO CONTROL AND DISPOSE OF STORMWATER.

b. DETAILS OF ALL STORMWATER MANAGEMENT FACILITY DESIGNS, DURING AND AFTER CONSTRUCTION, INCLUDING DISCHARGE PROVISIONS, DISCHARGE CAPACITY FOR EACH OUTLET AT DIFFERENT LEVELS OF DETENTION AND EMERGENCY SPILLWAY PROVISIONS WITH MAXIMUM DISCHARGE CAPACITY OF EACH SPILLWAY.

6. CALCULATIONS

a. COMPREHENSIVE HYDROLOGIC AND HYDRAULIC DESIGN CALCULATIONS FOR THE PRE-DEVELOPMENT AND POST DEVELOPMENT CONDITIONS FOR THE DESIGN STORMS SPECIFIED IN SECTION 3 OF THIS ORDINANCE.

b. WHEN THE PROPOSED STORMWATER MANAGEMENT CONTROL MEASURES (E.G., INFILTRATION BASINS) DEPENDS ON THE HYDROLOGIC PROPERTIES OF SOILS, THEN A SOILS REPORT SHALL BE SUBMITTED. THE SOILS REPORT SHALL BE BASED ON ONSITE BORING LOGS OR SOIL PIT PROFILES. THE NUMBER AND LOCATION OF REQUIRED SOIL BORINGS OR SOIL PITS SHALL BE DETERMINED BASED ON WHAT IS NEEDED TO DETERMINE THE SUITABILITY AND DISTRIBUTION OF SOILS PRESENT AT THE LOCATION OF THE CONTROL MEASURE.

7. MAINTENANCE AND REPAIR PLAN

THE DESIGN AND PLANNING OF THE STORMWATER MANAGEMENT FACILITY SHALL MEET THE MAINTENANCE REQUIREMENTS OF SECTION 8.

8. WAIVER FROM SUBMISSION REQUIREMENTS

THE MUNICIPAL OFFICIAL OR BOARD REVIEWING AN APPLICATION UNDER THIS ORDINANCE MAY, IN CONSULTATION WITH THE MUNICIPAL ENGINEER, WAIVE SUBMISSION OF ANY OF THE REQUIREMENTS IN SECTIONS 7.C.1 THROUGH 7.C.6 OF THIS ORDINANCE WHEN IT CAN BE DEMONSTRATED THAT THE INFORMATION REQUESTED IS IMPOSSIBLE TO OBTAIN OR IT WOULD CREATE A HARDSHIP ON THE APPLICANT TO OBTAIN AND ITS ABSENCE WILL NOT MATERIALLY AFFECT THE REVIEW PROCESS.

SECTION 8 - MAINTENANCE AND REPAIR

A. APPLICABILITY

1. PROJECTS SUBJECT TO REVIEW AS IN SECTION 1.C OF THIS ORDINANCE SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 8.B AND 8.C.

B. GENERAL MAINTENANCE

1. THE DESIGN ENGINEER SHALL PREPARE A MAINTENANCE PLAN FOR THE STORMWATER MANAGEMENT MEASURES INCORPORATED INTO THE DESIGN OF A MAJOR DEVELOPMENT.

2. THE MAINTENANCE PLAN SHALL CONTAIN SPECIFIC PREVENTATIVE MAINTENANCE TASKS AND SCHEDULES; COST ESTIMATES, INCLUDING ESTIMATED COST OF SEDIMENT, DEBRIS, OR TRASH REMOVAL; AND THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PERSON OR PERSONS RESPONSIBLE FOR PREVENTATIVE AND CORRECTIVE MAINTENANCE (INCLUDING REPLACEMENT). MAINTENANCE GUIDELINES FOR STORMWATER MANAGEMENT MEASURES ARE AVAILABLE IN THE NEW

JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL. IF THE MAINTENANCE PLAN IDENTIFIES A PERSON OTHER THAN THE DEVELOPER (FOR EXAMPLE, A PUBLIC AGENCY OR HOMEOWNERS' ASSOCIATION) AS HAVING THE RESPONSIBILITY FOR MAINTENANCE, THE PLAN SHALL INCLUDE DOCUMENTATION OF SUCH PERSON'S AGREEMENT TO ASSUME THIS RESPONSIBILITY, OR OF THE DEVELOPER'S OBLIGATION TO DEDICATE A STORMWATER MANAGEMENT FACILITY TO SUCH PERSON UNDER AN APPLICABLE ORDINANCE OR REGULATION.

3. RESPONSIBILITY FOR MAINTENANCE SHALL NOT BE ASSIGNED OR TRANSFERRED TO THE OWNER OR TENANT OF AN INDIVIDUAL PROPERTY IN A RESIDENTIAL DEVELOPMENT OR PROJECT, UNLESS SUCH OWNER OR TENANT OWNS OR LEASES THE ENTIRE RESIDENTIAL DEVELOPMENT OR PROJECT.

4. IF THE PERSON RESPONSIBLE FOR MAINTENANCE IDENTIFIED UNDER SECTION 8.B.2 ABOVE IS NOT A PUBLIC AGENCY, THE MAINTENANCE PLAN AND ANY FUTURE REVISIONS BASED ON SECTION 8.B.7 BELOW SHALL BE RECORDED UPON THE DEED OF RECORD FOR EACH PROPERTY ON WHICH THE MAINTENANCE DESCRIBED IN THE MAINTENANCE PLAN MUST BE UNDERTAKEN.

5. PREVENTATIVE AND CORRECTIVE MAINTENANCE SHALL BE PERFORMED TO MAINTAIN THE FUNCTION OF THE STORMWATER MANAGEMENT MEASURE, INCLUDING REPAIRS OR REPLACEMENT TO THE STRUCTURE; REMOVAL OF SEDIMENT, DEBRIS, OR TRASH; RESTORATION OF ERODED AREAS; SNOW AND ICE REMOVAL; FENCE REPAIR OR REPLACEMENT; RESTORATION OF VEGETATION; AND REPAIR OR REPLACEMENT OF NON VEGETATED LININGS.

6. THE PERSON RESPONSIBLE FOR MAINTENANCE IDENTIFIED UNDER SECTION 8.B.2 ABOVE SHALL MAINTAIN A DETAILED LOG OF ALL PREVENTATIVE AND CORRECTIVE MAINTENANCE FOR THE STRUCTURAL STORMWATER MANAGEMENT MEASURES INCORPORATED INTO THE DESIGN OF THE DEVELOPMENT, INCLUDING A RECORD OF ALL INSPECTIONS AND COPIES OF ALL MAINTENANCE-RELATED WORK ORDERS.

7. THE PERSON RESPONSIBLE FOR MAINTENANCE IDENTIFIED UNDER SECTION 8.B.2 ABOVE SHALL EVALUATE THE EFFECTIVENESS OF THE MAINTENANCE PLAN AT LEAST ONCE PER YEAR AND ADJUST THE PLAN AND THE DEED AS NEEDED.

8. THE PERSON RESPONSIBLE FOR MAINTENANCE IDENTIFIED UNDER SECTION 8.B.2 ABOVE SHALL RETAIN AND MAKE AVAILABLE, UPON REQUEST BY ANY PUBLIC ENTITY WITH ADMINISTRATIVE, HEALTH, ENVIRONMENTAL, OR SAFETY AUTHORITY OVER THE SITE, THE

MAINTENANCE PLAN AND THE DOCUMENTATION REQUIRED BY SECTIONS 8.B.6 AND 8.B.7 ABOVE.

9. THE REQUIREMENTS OF SECTIONS 8.B.3 AND 8.B.4 DO NOT APPLY TO STORMWATER MANAGEMENT FACILITIES THAT ARE DEDICATED TO AND ACCEPTED BY THE MUNICIPALITY OR ANOTHER GOVERNMENTAL AGENCY.

10. IN THE EVENT THAT THE STORMWATER MANAGEMENT FACILITY BECOMES A DANGER TO PUBLIC SAFETY OR PUBLIC HEALTH, OR IF IT IS IN NEED OF MAINTENANCE OR REPAIR, THE MUNICIPALITY SHALL SO NOTIFY THE RESPONSIBLE PERSON IN WRITING. UPON RECEIPT OF THAT NOTICE, THE RESPONSIBLE PERSON SHALL HAVE FOURTEEN (14) DAYS TO EFFECT MAINTENANCE AND REPAIR OF THE FACILITY IN A MANNER THAT IS APPROVED BY THE MUNICIPAL ENGINEER OR HIS DESIGNEE. IF THE RESPONSIBLE PERSON FAILS OR REFUSES TO PERFORM SUCH MAINTENANCE AND REPAIR, THE MUNICIPALITY OR COUNTY MAY IMMEDIATELY PROCEED TO DO SO AND SHALL BILL THE COST THEREOF TO THE RESPONSIBLE PERSON.

C. NOTHING IN THIS SECTION SHALL PRECLUDE THE MUNICIPALITY FROM REQUIRING THE POSTING OF A PERFORMANCE OR MAINTENANCE GUARANTEE IN ACCORDANCE WITH N.J.S.A. 40:55D-53.

SECTION 9 - PENALTIES

ANY RESPONSIBLE PERSON WHO VIOLATES ANY PORTION OR SECTION OF THIS ORDINANCE SHALL BE SUBJECT TO THE FOLLOWING PENALTIES:

Upon conviction, a fine of not less than $500.00 or more than $2,000.00 shall be imposed for each day of violation following expiration of the Notice provided pursuant to Section 8.B.10.

SECTION 10 - EFFECTIVE DATE

THIS ORDINANCE SHALL TAKE EFFECT IMMEDIATELY UPON THE APPROVAL BY THE COUNTY REVIEW AGENCY, OR SIXTY (60) DAYS AFTER SUBMISSION TO THE COUNTY REVIEW AGENCY IF THEY FAIL TO ACT.

SECTION 11 - SEVERABILITY

IF THE PROVISIONS OF ANY SECTION, SUBSECTION, PARAGRAPH, SUBDIVISION, OR CLAUSE OF THIS ORDINANCE SHALL BE JUDGED INVALID BY A COURT OF COMPETENT JURISDICTION, SUCH ORDER OF JUDGMENT SHALL NOT AFFECT OR INVALIDATE THE REMAINDER OF ANY SECTION, SUBSECTION, PARAGRAPH, SUBDIVISION, OR CLAUSE OF THIS ORDINANCE.

SECTION 12 - DEFINITIONS

UNLESS SPECIFICALLY DEFINED BELOW, WORDS OR PHRASES USED IN THIS ORDINANCE SHALL BE INTERPRETED SO AS TO GIVE THEM THE MEANING THEY HAVE IN COMMON USAGE AND TO GIVE THIS ORDINANCE ITS MOST REASONABLE APPLICATION. **THE DEFINITIONS BELOW ARE THE SAME AS OR BASED ON THE CORRESPONDING DEFINITIONS IN THE STORMWATER MANAGEMENT RULES AT N.J.A.C. 7:8-1.2.**

"CAFRA PLANNING MAP" MEANS THE GEOGRAPHIC DEPICTION OF THE BOUNDARIES FOR COASTAL PLANNING AREAS, CAFRA CENTERS, CAFRA CORES AND CAFRA NODES PURSUANT TO N.J.A.C. 7:7E-5B.3.

"CAFRA CENTERS, CORES OR NODES" MEANS THOSE AREAS WITHIN BOUNDARIES ACCEPTED BY THE DEPARTMENT PURSUANT TO N.J.A.C. 7:8E-5B.

"COMPACTION" MEANS THE INCREASE IN SOIL BULK DENSITY.

"CORE" MEANS A PEDESTRIAN-ORIENTED AREA OF COMMERCIAL AND CIVIC USES SERVING THE SURROUNDING MUNICIPALITY, GENERALLY INCLUDING HOUSING AND ACCESS TO PUBLIC TRANSPORTATION.

"COUNTY REVIEW AGENCY" MEANS AN AGENCY DESIGNATED BY THE COUNTY BOARD OF CHOSEN FREEHOLDERS TO REVIEW MUNICIPAL STORMWATER MANAGEMENT PLANS AND IMPLEMENTING ORDINANCE(S). THE COUNTY REVIEW AGENCY MAY EITHER BE:

A COUNTY PLANNING AGENCY; OR

A COUNTY WATER RESOURCE ASSOCIATION CREATED UNDER N.J.S.A 58:16A-55.5, IF THE ORDINANCE OR RESOLUTION DELEGATES AUTHORITY TO APPROVE, CONDITIONALLY APPROVE, OR DISAPPROVE MUNICIPAL STORMWATER MANAGEMENT PLANS AND IMPLEMENTING ORDINANCES.

"DEPARTMENT" MEANS THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.

"DESIGNATED CENTER" MEANS A STATE DEVELOPMENT AND REDEVELOPMENT PLAN CENTER AS DESIGNATED BY THE STATE PLANNING COMMISSION SUCH AS URBAN, REGIONAL, TOWN, VILLAGE, OR HAMLET.

"DESIGN ENGINEER" MEANS A PERSON PROFESSIONALLY QUALIFIED AND DULY LICENSED IN NEW JERSEY TO PERFORM ENGINEERING SERVICES THAT MAY INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, DEVELOPMENT OF PROJECT REQUIREMENTS, CREATION AND DEVELOPMENT OF PROJECT DESIGN AND PREPARATION OF DRAWINGS AND SPECIFICATIONS.

"DEVELOPMENT" MEANS THE DIVISION OF A PARCEL OF LAND INTO TWO OR MORE PARCELS, THE CONSTRUCTION, RECONSTRUCTION, CONVERSION, STRUCTURAL ALTERATION, RELOCATION OR ENLARGEMENT OF ANY BUILDING OR STRUCTURE, ANY MINING EXCAVATION OR LANDFILL, AND ANY USE OR CHANGE IN THE USE OF ANY BUILDING OR OTHER STRUCTURE, OR LAND OR EXTENSION OF USE OF LAND, BY ANY PERSON, FOR WHICH PERMISSION IS REQUIRED UNDER THE MUNICIPAL LAND USE LAW , N.J.S.A. 40:55D-1 ET SEQ. IN THE CASE OF DEVELOPMENT OF AGRICULTURAL LANDS, DEVELOPMENT MEANS: ANY ACTIVITY THAT REQUIRES A STATE PERMIT; ANY ACTIVITY REVIEWED BY THE COUNTY AGRICULTURAL BOARD (CAB) AND THE STATE AGRICULTURAL DEVELOPMENT COMMITTEE (SADC), AND MUNICIPAL REVIEW OF ANY ACTIVITY NOT EXEMPTED BY THE RIGHT TO FARM ACT , N.J.S.A 4:1C-1 ET SEQ.

"DRAINAGE AREA" MEANS A GEOGRAPHIC AREA WITHIN WHICH STORMWATER, SEDIMENTS, OR DISSOLVED MATERIALS DRAIN TO A PARTICULAR RECEIVING WATERBODY OR TO A PARTICULAR POINT ALONG A RECEIVING WATERBODY.

"ENVIRONMENTALLY CONSTRAINED AREA" MEANS THE FOLLOWING AREAS WHERE THE PHYSICAL ALTERATION OF THE LAND IS IN SOME WAY RESTRICTED, WITHER THROUGH REGULATION, EASEMENT, DEED RESTRICTION, OR OWNERSHIP SUCH AS: WETLANDS, FLOODPLAINS, THREATENED AND ENDANGERED SPECIES SITES OR DESIGNATED HABITATS, AND PARKS AND PRESERVES. HABITATS OF ENDANGERED OR THREATENED SPECIES ARE IDENTIFIED USING THE DEPARTMENT'S LANDSCAPE PROJECT AS APPROVED BY THE DEPARTMENT'S ENDANGERED AND NON GAME SPECIES PROGRAM.

"ENVIRONMENTALLY CRITICAL AREAS" MEANS AN AREA OR FEATURE WHICH IS OF SIGNIFICANT ENVIRONMENTAL VALUE, INCLUDING BUT NOT LIMITED TO: STREAM CORRIDORS; NATURAL HERITAGE PRIORITY SITES; HABITAT OF ENDANGERED OR THREATENED SPECIES; LARGE AREAS OF CONTIGUOUS OPEN SPACE OR UPLAND FOREST; STEEP SLOPES; AND WELL HEAD PROTECTION AND GROUNDWATER RECHARGE AREAS. HABITATS OF ENDANGERED OR THREATENED SPECIES ARE IDENTIFIED USING THE DEPARTMENT'S LANDSCAPE PROJECT AS APPROVED BY THE DEPARTMENT'S ENDANGERED AND NON GAME SPECIES PROGRAM.

"EMPOWERMENT NEIGHBORHOOD" MEANS A NEIGHBORHOOD DESIGNATED BY THE URBAN COORDINATING COUNCIL "IN CONSULTATION AND CONJUNCTION WITH" THE NEW JERSEY REDEVELOPMENT AUTHORITY PURSUANT TO N.J.S.A 55:19-69.

"EROSION" MEANS THE DETACHMENT AND MOVEMENT OF SOIL OR ROCK FRAGMENTS BY WATER, WIND, ICE OR GRAVITY.

"IMPERVIOUS SURFACE" MEANS A SURFACE THAT HAS BEEN COVERED WITH A LAYER OF MATERIAL SO THAT IT IS HIGHLY RESISTANT TO INFILTRATION BY WATER.

"INFILTRATION" IS THE PROCESS BY WHICH WATER SEEPS INTO THE SOIL FROM PRECIPITATION.

"MAJOR DEVELOPMENT" MEANS ANY "DEVELOPMENT" THAT PROVIDES FOR ULTIMATELY DISTURBING ONE OR MORE ACRES OF LAND OR INCREASING IMPERVIOUS SURFACE BY ONE-QUARTER ACRE OR MORE. DISTURBANCE FOR THE PURPOSE OF THIS RULE IS THE PLACEMENT OF IMPERVIOUS SURFACE OR EXPOSURE AND/OR MOVEMENT OF SOIL OR BEDROCK OR CLEARING, CUTTING, OR REMOVING OF VEGETATION. PROJECTS UNDERTAKEN BY ANY GOVERNMENT AGENCY WHICH OTHERWISE MEET THE DEFINITION OF "MAJOR DEVELOPMENT" BUT WHICH DO NOT REQUIRE APPROVAL UNDER THE MUNICIPAL LAND USE LAW, NJSA 40:55D-1 ET SEQ. ARE ALSO CONSIDERED "MAJOR DEVELOPMENT".

"MUNICIPALITY" MEANS ANY CITY, BOROUGH, TOWN, TOWNSHIP, OR VILLAGE.

"NODE" MEANS AN AREA DESIGNATED BY THE STATE PLANNING COMMISSION CONCENTRATING FACILITIES AND ACTIVITIES WHICH ARE NOT ORGANIZED IN A COMPACT FORM.

"NUTRIENT" MEANS A CHEMICAL ELEMENT OR COMPOUND, SUCH AS NITROGEN OR PHOSPHORUS, WHICH IS ESSENTIAL TO AND PROMOTES THE DEVELOPMENT OF ORGANISMS.

"PERSON" MEANS ANY INDIVIDUAL, CORPORATION, COMPANY, PARTNERSHIP, FIRM, ASSOCIATION, OR POLITICAL SUBDIVISION OF THIS STATE SUBJECT TO MUNICIPAL JURISDICTION PURSUANT TO THE MUNICIPAL LAND USE LAW , N.J.S.A. 40:55D-1 ET SEQ.

"POLLUTANT" MEANS ANY DREDGED SPOIL, SOLID WASTE, INCINERATOR RESIDUE, FILTER BACKWASH, SEWAGE, GARBAGE, REFUSE, OIL, GREASE, SEWAGE SLUDGE, MUNITIONS, CHEMICAL WASTES, BIOLOGICAL MATERIALS, MEDICAL WASTES, RADIOACTIVE SUBSTANCE (EXCEPT THOSE REGULATED UNDER THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 U.S.C. 2011 ET SEQ.), THERMAL WASTE, WRECKED OR DISCARDED EQUIPMENT, ROCK, SAND, CELLAR DIRT, INDUSTRIAL, MUNICIPAL, AGRICULTURAL, AND CONSTRUCTION WASTE OR RUNOFF, OR OTHER RESIDUE DISCHARGED DIRECTLY OR INDIRECTLY TO THE LAND, GROUND WATERS OR SURFACE WATERS OF THE STATE, OR TO A DOMESTIC TREATMENT WORKS.

"POLLUTANT" INCLUDES BOTH HAZARDOUS AND NONHAZARDOUS POLLUTANTS.

"RECHARGE" MEANS THE AMOUNT OF WATER FROM PRECIPITATION THAT INFILTRATES INTO THE GROUND AND IS NOT EVAPO TRANSPIRED.

"SEDIMENT" MEANS SOLID MATERIAL, MINERAL OR ORGANIC, THAT IS IN SUSPENSION, IS BEING TRANSPORTED, OR HAS BEEN MOVED FROM ITS SITE OF ORIGIN BY AIR, WATER OR GRAVITY AS A PRODUCT OF EROSION.

"SITE" MEANS THE LOT OR LOTS UPON WHICH A MAJOR DEVELOPMENT IS TO OCCUR OR HAS OCCURRED.

"SOIL" MEANS ALL UNCONSOLIDATED MINERAL AND ORGANIC MATERIAL OF ANY ORIGIN.

"STATE DEVELOPMENT AND REDEVELOPMENT PLAN METROPOLITAN PLANNING AREA (PA1)" MEANS AN AREA DELINEATED ON THE STATE PLAN POLICY MAP AND ADOPTED BY THE STATE PLANNING COMMISSION THAT IS INTENDED TO BE THE FOCUS FOR MUCH OF THE STATE'S FUTURE REDEVELOPMENT AND REVITALIZATION EFFORTS.

"STATE PLAN POLICY MAP" IS DEFINED AS THE GEOGRAPHIC APPLICATION OF THE STATE DEVELOPMENT AND REDEVELOPMENT PLAN'S GOALS AND STATEWIDE POLICIES, AND THE OFFICIAL MAP OF THESE GOALS AND POLICIES.

"STORMWATER" MEANS WATER RESULTING FROM PRECIPITATION (INCLUDING RAIN AND SNOW) THAT RUNS OFF THE LAND'S SURFACE, IS TRANSMITTED TO THE SUBSURFACE, OR IS CAPTURED BY SEPARATE STORM SEWERS OR OTHER SEWAGE OR DRAINAGE FACILITIES, OR CONVEYED BY SNOW REMOVAL EQUIPMENT.

"STORMWATER RUNOFF" MEANS WATER FLOW ON THE SURFACE OF THE GROUND OR IN STORM SEWERS, RESULTING FROM PRECIPITATION.

"STORMWATER MANAGEMENT BASIN" MEANS AN EXCAVATION OR EMBANKMENT AND RELATED AREAS DESIGNED TO RETAIN STORMWATER RUNOFF. A STORMWATER MANAGEMENT BASIN MAY EITHER BE NORMALLY DRY (THAT IS, A DETENTION BASIN OR INFILTRATION BASIN), RETAIN WATER IN A PERMANENT POOL (A RETENTION BASIN), OR BE PLANTED MAINLY WITH WETLAND VEGETATION (MOST CONSTRUCTED STORMWATER WETLANDS).

"STORMWATER MANAGEMENT MEASURE" MEANS ANY STRUCTURAL OR NONSTRUCTURAL STRATEGY, PRACTICE, TECHNOLOGY, PROCESS, PROGRAM, OR OTHER METHOD INTENDED TO CONTROL OR REDUCE STORMWATER RUNOFF AND ASSOCIATED POLLUTANTS, OR TO INDUCE OR CONTROL THE INFILTRATION OR GROUNDWATER RECHARGE OF STORMWATER OR TO ELIMINATE ILLICIT OR ILLEGAL NON-STORMWATER DISCHARGES INTO STORMWATER CONVEYANCES.

"TIDAL FLOOD HAZARD AREA" MEANS A FLOOD HAZARD AREA, WHICH MAY BE INFLUENCED BY STORMWATER RUNOFF FROM INLAND AREAS, BUT WHICH IS PRIMARILY CAUSED BY THE ATLANTIC OCEAN.

"URBAN COORDINATING COUNCIL EMPOWERMENT NEIGHBORHOOD" MEANS A NEIGHBORHOOD GIVEN PRIORITY ACCESS TO STATE RESOURCES THROUGH THE NEW JERSEY REDEVELOPMENT AUTHORITY.

"URBAN ENTERPRISE ZONES" MEANS A ZONE DESIGNATED BY THE NEW JERSEY ENTERPRISE ZONE AUTHORITY PURSUANT TO THE NEW JERSEY URBAN ENTERPRISE ZONES ACT, N.J.S.A. 52:27H-60 ET. SEQ.

"URBAN REDEVELOPMENT AREA" IS DEFINED AS PREVIOUSLY DEVELOPED PORTIONS OF AREAS:

(1) DELINEATED ON THE STATE PLAN POLICY MAP (SPPM) AS THE METROPOLITAN PLANNING AREA (PA1), DESIGNATED CENTERS, CORES OR NODES;

(2) DESIGNATED AS CAFRA CENTERS, CORES OR NODES;

(3) DESIGNATED AS URBAN ENTERPRISE ZONES; AND

(4) DESIGNATED AS URBAN COORDINATING COUNCIL EMPOWERMENT NEIGHBORHOODS.

"WATERS OF THE STATE" MEANS THE OCEAN AND ITS ESTUARIES, ALL SPRINGS, STREAMS, WETLANDS, AND BODIES OF SURFACE OR GROUND WATER, WHETHER NATURAL OR ARTIFICIAL, WITHIN THE BOUNDARIES OF THE STATE OF NEW JERSEY OR SUBJECT TO ITS JURISDICTION.

"WETLANDS" OR "WETLAND" MEANS AN AREA THAT IS INUNDATED OR SATURATED BY SURFACE WATER OR GROUND WATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT, AND THAT UNDER NORMAL CIRCUMSTANCES DOES SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR LIFE IN SATURATED SOIL CONDITIONS, COMMONLY KNOWN AS HYDROPHYTIC VEGETATION.

CERTIFICATION

I, Irene H. Ryan, Municipal Clerk of the Borough of Mantoloking, County of Ocean, New Jersey, hereby certify the following attachment to be a true copy of Ordinance No. 543 adopted by the Borough Council of the Borough of Mantoloking, New Jersey, at a Regular Meeting held in the Borough Hall on the 16th day of July 2007 at which time a quorum was present.

Irene H. Ryan, R.M.C.
Municipal Clerk, Borough of Mantoloking

SPPP Form 4 – Local Public Education Program

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Beverley Konopada, RMC, Borough Clerk
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

Local Public Education Program

In accordance with the NJDEP Tier A Municipal Stormwater General Permit, the Borough of Mantoloking is required to annually conduct educational activities that total a minimum of twelve (12) points, from three of the five categories found in the Tier A permit. A copy of Appendix E of the Tier A Permit has been attached, which provides a list of approved local public education activities with the assigned point value for each approved activity.

The Borough of Mantoloking performs public education through the annual distribution of a NJDEP brochure to all residents. Pet waste brochures are also distributed with pet licenses.

The official Borough website contains a link to the Clean Water NJ (NJDEP) web address. The Clean Water NJ (NJDEP) website is an educational webpage and valuable tool for gaining an understanding and knowledge for non-point source pollution, impacts from stormwater runoff on the environment, and potential actions which can be taken to reduce the impacts on the environment and control non-point source pollution. The official Borough website also contains links to other related sites including Barnegat Bay National Estuary Program and Barnegat Bay environmental groups.

Educational stormwater displays are in the Borough Hall, including posters and brochures from the NJDEP related to stormwater pollution control. The Borough Hall also contains flyers and educational information from environmental groups on the current condition of the Barnegat Bay and actions to be taken to preserve the Barnegat Bay. Educational information related to the impacts from stormwater non-point source pollution on the Barnegat Bay is contained within free handouts and literature available at Borough Hall.

The Mantoloking Environmental Commission (MEC) also provides an educational newsletter to the residents of Mantoloking. The MEC Newsletter contains information related to the preservation of the Barnegat Bay thru guidelines for fertilizer use and the impacts of improper fertilization conveyed downstream by stormwater runoff into Barnegat Bay. The MEC also has a sub-committee for the Barnegat Bay Estuary.

Beginning in 2010, the Mayor sends an annual letter to all residents and businesses in the Borough of Mantoloking with information for the history of Phase II of the Clean Water Act and the Tier A Permit, non-point source pollution, and a reference to all municipal codes related to stormwater pollution prevention. The annual stormwater letter from the Mayor also includes a reference to the NJDEP website for stormwater pollution prevention information and a reference to the Mantoloking Borough official website.

SPPP Form 5 – Storm Drain Inlet Labeling

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Scott Hulse, Superintendent of Public Works
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

Storm Drain Inlet Labeling

For our storm drain inlet labeling program, the Mantoloking Department of Public Works (DPW) have completed the retrofitting of all type "B" inlets with Phase II compliance castings, including the permanently cast educational message of "Dump No Waste Drains to Waterway" with a fish logo on the top surface of the curb piece. In addition to type "B" inlets, all other storm drain inlets that are along municipal streets with sidewalks and all storm drain inlets within plazas, parking areas, or maintenance yards that are operated by the Borough of Mantoloking have been labeled. The DPW, with assistance from the Mantoloking Environmental Commission (MEC), will monitor the existing storm drain inlet labels for legibility and clarity. If any maintenance is required for the existing inlet label stenciling or medallions, the DPW or the MEC will ensure the re-application of paint for the stenciled labels or re-installation of new medallions for the storm drain inlets delineated by educational markers.

The labeling and maintenance of the labeling for all applicable storm inlets shall be performed by volunteer labor, such as the Mantoloking Environmental Commission, if possible. Otherwise, the Department of Public Works will be responsible for inlet labeling and maintenance of the labeling.

The inlet labeling program is also beneficial for local public education on stormwater pollution prevention.

All new construction projects, including roadway reconstruction, resurfacing, and top coating or chip sealing with emulsion or a thin base of hot bitumen, are required to provide storm inlet grates and curb pieces (if applicable) with educational messages cast permanently into the structure describing the stormwater discharge into downstream receiving waterways. The goal is for all municipally owned and operated storm drain inlets to have grates and/or curb pieces with the educational message, "Dump No Waste Drains To Waterways", permanently cast into the surface with a logo of a fish to inform the general public on the impacts of pollution to the downstream waterways.

SPPP Form 6 – MS4 Outfall Pipe Mapping

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Lawrence Plevier, PE, CME, Borough Engineer
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

All municipal separate storm sewer system (MS4) outfalls are to Barnegat Bay and are currently mapped on Sewer Infrastructure Improvement Act maps at a scale of one inch equals fifty feet. An additional set of plans at a scale of one inch equals one hundred feet was prepared to depict the MS4 outfalls and the entire MS4 network on four (4) sheets. No further action is required for MS4 outfall mapping at this time, unless a new MS4 outfall is installed or an existing MS4 outfall is relocated. A copy of the maps at a scale of one inch equals one hundred feet depicting the locations of all MS4 outfalls is attached.

SPPP Form 7 – Illicit Connection Elimination Program

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Lawrence Plevier, PE, CME, Borough Engineer
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

The MS4 outfalls are perpetually submerged in Barnegat Bay. The inspections for illicit connections are difficult to determine based on the dry weather flow approach. The outfalls have been inspected in the past, and at that time, there was no visual or olfactory evidence of an illicit connection. However, the Borough had completed closed-circuit television (CCTV) internal video inspection on the majority of the municipal storm sewer system, including the storm sewer outfalls. Based on the CCTV video inspection results, the MS4 systems do not appear to have any illicit connections. However, the Borough will continue to monitor the MS4 system for potential illicit connections. Copies of the Video Inspection Reports are included in Appendix B of the SPPP. If we are able to locate any illicit connection (and the connection is within Mantoloking Borough) we will cite the responsible party for being in violation of our Illicit Connection Ordinance, and we will have the connection eliminated immediately. If, after the appropriate amount of investigation, we are unable to locate the source of the illicit connection, we will submit the Closeout Investigation Form with our Annual Inspection and Recertification. If an illicit connection is found to originate from another public entity, Mantoloking Borough will report the illicit connection to the New Jersey Department of Environmental Protection. However, no illicit connections were identified during any physical inspections performed by the office of the Borough Engineer or during the CCTV internal pipe video inspection.

SPPP Form 8 – Illicit Connection Records

Municipality Information

Municipality: Borough of Mantoloking County: Ocean

NJPDES # NJG0153281 PI ID #: 203290

Team Member/Title: Lawrence Plevier, PE, CME, Borough Engineer

Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018

Date of Completion: 1-27-05 Date of most recent update: 5-2-18

Prior to May 2, 2006

Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*

Total number of inspections performed this year? 0

Number of outfalls found to have a dry weather flow? _____

Number of outfalls found to have an illicit connection? _____

How many illicit connections were eliminated? _____

Of the illicit connections found, how many remain? _____

May 2, 2006 – May 1, 2007

Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*

Total number of inspections performed this year? 0

Number of outfalls found to have a dry weather flow? _____

Number of outfalls found to have an illicit connection? _____

How many illicit connections were eliminated? _____

Of the illicit connections found, how many remain? _____

May 2, 2007 – May 1, 2008

Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*

Total number of inspections performed this year? 0

Number of outfalls found to have a dry weather flow? _____

Number of outfalls found to have an illicit connection? _____

How many illicit connections were eliminated? _____

Of the illicit connections found, how many remain? _____

May 2, 2008 – May 1, 2009

Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*

Total number of inspections performed this year? _____

Number of outfalls found to have a dry weather flow? _____

Number of outfalls found to have an illicit connection? _____

How many illicit connections were eliminated? _____

Of the illicit connections found, how many remain? _____

May 2, 2009- May 1, 2010 ***Note:*** *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? _____
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? _____
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2010 – May 1, 2011 ***Note:*** *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? _____
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? _____
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2011 – May 1, 2012 ***Note:*** *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 5
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2012 – May 1, 2013 ***Note:*** *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 3
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____

May 2, 2013- May1, 2014
Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 6
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2014 – May 1, 2015
Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 6
Number of outfalls found to have a dry weather flow?
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2015 – May 1, 2016
Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 4
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____
May 2, 2016 – May 1, 2017
Note: *Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.*
Total number of inspections performed this year? 1
Number of outfalls found to have a dry weather flow? _____
Number of outfalls found to have an illicit connection? 0
How many illicit connections were eliminated? _____
Of the illicit connections found, how many remain? _____

SPPP Form 9 – Yard Waste Ordinance/Collection Program

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Scott Hulse, Superintendent of Public Works
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

The Borough has adopted and is enforcing an ordinance that prohibits placing non-containerized yard wastes in the street (Ordinance No. 505). The adopted yard waste ordinance indicates that the owner or occupant of any property, or any employee or contractor of such owner or occupant engaged to provide a lawn care or landscaping services, shall not sweep, rake, blow or otherwise place yard waste, unless the yard waste is containerized, in the street. If the yard waste that is not containerized is placed in the street, the party responsible for placement of yard waste must remove the yard waste from the street or said party shall be deemed in violation of Ordinance No. 505.

Also, Ordinance No. 263 indicates that all persons within the Borough shall, for the period from September 1st through December 31st of each year, separate leaves from other solid waste generated at their premises and, unless the leaves are stored or recycled for composting or mulching on the premises, place the leaves at the curb or other designated area for collection at such times and dates and in the manner established by the Borough's recycling regulations.

SPPP Form 10 - Ordinances

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Jean Cipriani, Esq., Borough Attorney
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

For each ordinance, give the date of adoption. If not yet adopted, explain the development status:

Pet Waste: Ordinance No. 503 (2-21-06) – Code Section 5-11

Are information sheets regarding pet waste distributed with pet licenses? Y (X) N ( )

Litter: Ordinance No. 207 – Code Section 3-2.2; Ordinance No. 504 (2-21-06) – Code Section 3-5

Improper Waste Disposal: Ordinance No. 506 (2-21-06) – Code Section 18-2

Wildlife Feeding: Ordinance No. 507 (2-21-06) – Code Section 5-12

Yard Waste: Ordinance No. 505 (2-21-06) – Code Section 19-2

Illicit Connections: Ordinance No. 508 (2-21-06) – Code Section 18-3

Refuse Container / Dumpster: Ordinance No. 588 (7-19-10)

Private Storm Drain Inlet Retrofitting: Ordinance No. 589 (7-19-10)

Our code enforcement officer and local police officers will enforce these ordinances. If someone is found to be in violation of an ordinance, they will be issued a written warning for first time offenses, and penalties will be issued for subsequent offenses.

SPPP Form 11 – Storm Drain Inlet Retrofitting

Municipality Information

Municipality: Borough of Mantoloking County: Ocean

NJPDES # NJG0153281 PI ID #: 203290

Team Member/Title: Scott Hulse, Superintendent of Public Works

Lawrence Plevier, PE, CME, Borough Engineer

Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018

Date of Completion: 1-27-05 Date of most recent update: 5-2-18

What type of storm drain inlet design will generally be used for retrofitting?
For municipal projects, Mantoloking Borough will utilize the NJDOT bicycle safe grates for all inlets, and the Borough will utilize debris retention curb pieces with a clear space no bigger than two inches across the smallest dimension and bicycle safe grates for curb inlets. All grates and curb pieces will have a permanent educational message cast into the surface with a fish logo.

Repaving, repairing, reconstruction or alteration project name	Projected start date	Start date	Date of completion	# of storm drain inlets	# of storm drains w/ hydraulic exemptions
Barnegat Lane (North of Bergen Avenue)	---	10-03	11-03	4	0
Barnegat Lane (Between Bergen Avenue and Lyman Street)	---	10-04	11-04	4	0
Barnegat Lane (South of Lyman Street)	---	9-05	3-06	28	0
Runyon Lane	---	9-06	12-06	6	0
Barnegat Lane (Between Bergen Avenue and Herbert Street)	---	4-06		6	0
Downer Avenue (Partial) and Lyman Street Roadway Improvements	---	9-12-08	10-1-08	4	0
East Avenue Roadway Improvements	---	10-20-09	11-17-09	4	0
Bay Avenue (Between Princeton Ave & Arnold St)		7-11-17	8-31-17	2	0

Are you claiming any alternative device exemptions or historic place exemptions for any of the above projects? Please explain:

The Borough of Mantoloking does not operate any alternative devices within the municipality. At this time we do not plan on installing any such devices for repaving, repairing, reconstruction or alteration projects. We also do not plan on claiming any historic place exemptions.

SPPP Form 12 – Street Sweeping and Road Erosion Control Maintenance

Municipality Information	
Municipality: Borough of Mantoloking	County: Ocean
NJPDES # NJG0153281	PI ID #: 203290
Team Member/Title: Scott Hulse, Superintendent of Public Works	
Original EDPA: 4-1-2004	Permit Renewal EDPA: 1-1-2018
Date of Completion: 1-27-05	Date of most recent update: 5-2-18

Street Sweeping

The Tier A NJDPES Municipal Stormwater General Permit requires that in predominantly commercial areas, all curbed streets, roads and highways (with a speed limit ≤35 mph) shall be swept, weather and street surface conditions permitting. In accordance with the Tier A permit requirements, no municipal roadways require sweeping, and, therefore, the Borough of Mantoloking is not required to perform street sweeping activities.

However, the Mantoloking Department of Public Works sweeps all municipal streets approximately four (4) times annually with a municipal street sweeper truck.

Road Erosion Control Maintenance

The Borough of Mantoloking will utilize the Public Works Department to monitor all their roads for erosion problems during normal patrols. All identified road erosion problems will be reported to the Superintendent of Public Works. Identified areas of erosion will be discussed and repairs prioritized. All maintenance personnel will then be assigned to the areas of concern, and the areas identified to have road erosion problems will be repaired in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey. All maintenance personnel will maintain an inspection log, and the Superintendent will maintain a list of all repairs and the dates completed. However, the Road Erosion Control Maintenance program is no longer required by the latest revised Tier A Municipal Stormwater General Permit. The Tier A permit re-issued on 2-27-09 revised the Road Erosion Control Maintenance BMP program to an Optional Measure (OM).

SPPP Form 13 – Stormwater Facility Maintenance

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Scott Hulse, Superintendent of Public Works
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

The Borough of Mantoloking has an annual catch basin and inlet cleaning program to maintain catch basin and inlet functions and efficiency. All catch basins and inlets will be inspected once each year. If, at the time of inspection, no sediment, trash or debris is observed in the catch basin or inlet, then that catch basin or inlet will not be cleaned. All catch basins and inlets will be inspected yearly, even if they were found to be "clean" the previous year. At the time of cleaning, the catch basins and inlets will also be inspected for proper function. Maintenance will be scheduled for those catch basins and inlets that are in disrepair. Mantoloking Public Works manually inspects, cleans, and removes sediment/debris from catch basins and inlets.

The Borough of Mantoloking implements a stormwater facility maintenance program to ensure that all stormwater facilities operated by the Borough function properly. The Borough of Mantoloking operates the following:

- catch basins/inlets
- storm sewer piping
- outfall check valves

These stormwater facilities will be inspected annually to ensure that they are functioning properly. In high risk areas, preventative maintenance will be performed on all stormwater facilities to ensure that they do not begin to fail.

SPPP Form 14 – Outfall Pipe Stream Scouring Remediation

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Scott Hulse, Superintendent of Public Works Lawrence Plevier, PE, CME, Borough Engineer
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

No streams are located within the Borough of Mantoloking. The MS4 outfalls are located within Barnegat Bay, and the outfalls are submerged. The opposite situation is typical at the MS4 outfall locations were sedimentation occurs at the pipe end and within the outfall discharge pipe. Existing check valves located on the ends of several outfall pipes need to be monitored for proper operation due to the potential for silt and sedimentation occurring around the check valve at the end of said outfalls.

The Borough Engineer's office inspected all municipal outfall pipes for evidence of scouring. No substantial pipe scouring was identified at municipal outfalls during the initial inspection. However, all future sites with scouring will be placed on a prioritized list and repairs will be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey and the NJDEP.

We will follow each repair up with an annual inspection of the site to ensure that scouring has not resumed.

A list will be attached of all sites with outfall pipe stream scouring, the date we plan on repairing the scouring, and the method of repair we will use. When repairs are completed we will note the date of that repair on the form.

SPPP Form 15 – De-icing Material Storage

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # NJG0153281 PI ID #: 203290
	Team Member/Title: Scott Hulse, Superintendent of Public Works
	Original EDPA: 4-1-2004 Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-05 Date of most recent update: 5-2-18

De-icing Material Storage

The Borough's solid de-icing materials are stored in the Borough of Bay Head at the DPW yard on Park Avenue (Block 5, Lot 13). The de-icing material is located at the Bay Head DPW yard within a permanent storage shed. The Borough of Mantoloking also stores Ice Ban® liquid de-icing material, which is kept in a 250 gallon storage tank on the DPW yard on Bay Avenue (Block 34, Lot 4) in the Borough of Mantoloking.

SPPP Form 16 – Standard Operating Procedures

Municipality Information	
Municipality: Borough of Mantoloking	County: Ocean
NJPDES # NJG0153281	PI ID #: 203290
Team Member/Title: Scott Hulse, Superintendent of Public Works	
Original EDPA: 4-1-2004	Permit Renewal EDPA: 1-1-2018
Date of Completion: 1-27-05	Date of most recent update: 5-2-18

BMP	Date SOP went into effect	Describe your inspection schedule
Fueling Operations (including the required practices listed in Attachment D of the permit)	April 1, 2005	There are no fueling operations located within the Borough of Mantoloking.
Vehicle Maintenance (including the required practices listed in Attachment D of the permit)	April 1, 2005	Monthly inspections will be held to ensure that the SOP is being met.
Good Housekeeping Practices (including the required practices listed in Attachment D of the permit) **Attach inventory list required by Attachment D of the permit.**	April 1, 2005	Monthly inspections of municipal maintenance yard and ancillary operations will be held.

SPPP Form 17 – Employee Training

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # : NJG0153281 PI ID #: 203290
	Team Member/Title: Lawrence Plevier, PE, CME, Borough Engineer Scott Hulse, Superintendent of Public Works
	Original EDPA: 4-1-2004; Permit Renewal EDPA: 1-1-2018
	Date of Completion: 1-27-2005 Date of most recent update: 5-2-18

The Employee Training Program topics are available from the New Jersey Department of Environmental Protection (NJDEP) on-line webpage for Stormwater Training at www.njstormwater.org/training.htm. The following topics are covered by a video training program:

Course:	Who Will Attend
Waste Disposal Education -	Environmental Commission members
Municipal Ordinances-	Code Enforcement Officer, Police Department, & Public Works employees
Yard Waste Collection Program-	Public Works employees
Street Sweeping-	Public Works employees
Stormwater Facility Maintenance-	Public Works employees
Road Erosion Control-	Public Works employees
Outfall Pipe Stream Scouring Remediation-	Public Works employees
Construction Activity/Post Construction Management in New Development & Redevelopment (for municipally owned projects)-	Public Works employees

The annual employee training date is scheduled every year based on staff availability, work load, and any unforeseen conflicts.

SPPP Signature Page

Municipality Information

Municipality: Borough of Mantoloking County: Ocean

NJPDES # : NJG 0153281 PI ID #: 203290

Team Member/Title: Lawrence Plevier, PE, CME Borough Engineer

Effective Date of Permit Authorization (EDPA): 01/01/2018

Date of Completion: 01/27/2005 Date of most recent update: 05/02/2018

"I certify that this SPPP includes all of the information and items identified in Attachment A of the Tier A Municipal Stormwater General Permit. 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 purposely, knowingly, recklessly, or negligently submitting false information."

(Signature) 05/02/2018 (Date)

Lawrence Plevier, PE, CME (Print Name) Borough Engineer (Title)

(NOTE: A new SPPP signature page should be attached each time the SPPP is updated or modified, excluding data entries. Previous SPPP signature pages shall be retained as part of the SPPP.)

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

APPENDICES

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

APPENDIX A – ANNUAL REPORT AND CERTIFICATION (LAST FIVE YEARS OF REPORTING TO NJDEP)

MSRP ANNUAL REPORT - Tier A

You have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	810181
Facility Name:	MANTOLOKING BORO
Reporting Period:	January 1, 2017 through December 31, 2017
NJPDES Permit #:	NJG0153281
Activity ID:	DST170001

Contacts

Name:	Larry Plevier
Title:	Principal Engineer
Contact Type:	Stormwater Coordinator
Organization Name:	MOTT MACDONALD
Organization Type:	Private
E-Mail:	larry.plevier@mottmac.com
Phone:	(732) 780-6565 (Work Phone Number)
Contact Address:	3 PARAGON WAY East Freehold, New Jersey 07728

Uploaded Attachments

Attachment Name	Attachment Description	File Name
Supplemental Questionnaire		Tier_A_MS4_Annual_Supplemental_Questionnaire.pdf

Annual Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Larry Plevier
Team member email address:	larry.plevier@mottmac.com

Stormwater Pollution Prevention Plan

1. Has the municipality revised its Stormwater Pollution Prevention Plan during the last calendar year?	No
2. Date of the last revised SPPP:	

Public Notice

1. Is the municipality complying with applicable State and local public notice requirements when providing for public participation in	Yes

the ongoing development and implementation of the stormwater program?	

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Is the municipality reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards (RSIS)?	Yes
2. Did the municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date of adopted municipal stormwater management plan:	06/18/2007
4. Status of this plan (if not adopted):	
5. Did the municipality adopt the municipal stormwater control ordinance provided by NJDEP without change?	Yes
6. Most recent date the municipality adopted a municipal stormwater control ordinance:	07/16/2007
7. What is the current status of the ordinance?	
Did the municipality submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	06/05/2007
10. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	06/05/2007
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/16/2007
16. Ordinance Number(s):	543
17. What is the current status of the adopted plan and ordinance?	
18. Are you reviewing projects as part of your site plan and subdivision approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	Yes
19. How many projects that were subject to either the municipal stormwater control ordinance or the stormwater provisions of RSIS did the municipality review?	58

20. Does the municipal stormwater management plan contain a mitigation plan?	Yes
21. Has the municipality granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in the approved municipal stormwater management plan and stormwater control ordinance(s)?	No
22. If yes, how many variances or exemptions from the design and performance standards has the municipality granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Does the municipality's plan review evaluate storm drain inlet protection for solids and floatables in accordance with Attachment C of the permit?	Yes
25. Does the municipality require plans for long-term operation and maintenance for stormwater BMPs?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	Ordinance requiring operation and maintenance by private entity.
28. Is the municipality's stormwater management plan re-examined at each re-examination of the master plan in accordance with N.J.A.C. 7:8-4?	Yes
29. Date re-examination report was last adopted:	11/09/2017

Report Details - Part C

Local Public Education Program

1. Have you developed a Local Public Education Program?	Yes
2. Have you conducted educational activities that total a minimum of 10 points (between January 1, 2017 and December 31, 2017)?	Yes
3. School Presentations (1 point per visit / maximum of 5 points per year):	0
4. Website (1 point):	1
5. Stormwater Display (2 points):	2
Giveaway (2 points):	2
7. Citizen Stormwater Advisory Committee (2 points):	0
8. Utilize Department Materials (2 points each / maximum of 4 points per year):	0

9. Poster Contest (2 points):	0
). Stormwater Training for Elected Municipal Officials (3 points):	0
11. Mural (3 points):	0
12. Mailing (3 points):	0
13. Partnership Agreement / Local Event (3 points):	0
14. Ordinance Education (5 points):	5

Storm Drain Inlet Labeling

1. Have you established a storm drain inlet labeling program?	Yes
2. Indicate the percentage or number of sectors labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or repainting)?	Yes

Improper Disposal of Waste

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	02/21/2006
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	02/21/2006
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	02/21/2006
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	02/21/2006
9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance
10. Date adopted:	02/21/2006
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	02/21/2006
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	07/19/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	07/19/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	Warnings & Summons
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

`eport Details - Part D

MS4 Outfall Pipe Mapping

1. Has the municipality completed the mapping of the MS4 outfall pipes?	Yes
2. Date completed:	04/01/1994
3. Number of outfall pipes that you operate in the municipality:	30
4. How many MS4 outfall pipes are mapped?	30

Illicit Connection Elimination Program

1. Does the municipality have an ongoing program to detect and eliminate illicit connections to municipally owned or operated outfall pipes?	Yes
2. How many outfall pipes were inspected during the past calendar year?	2
3. Number of illicit connections detected during the past calendar year:	0
Number of illicit connections eliminated during the past calendar year: **Please attach, in a format provided by the Department, a list of all outfalls found to have an illicit connection since the inception of the program. The list must include the outfall location, receiving water body, source of illicit connection and the date the illicit connection was eliminated.**	0

Street Sweeping Program

1. In the past calendar year, were all required streets swept?	N/A - no streets required to be swept
2. What was the total number of miles swept?	

List the total amount of materials collected for each month since January 1, 2017, in tons.

3. Units:	
4. January:	
5 February:	
6. March:	
7. April:	
8. May:	

9. June:	
10. July:	
11. August:	
12. September:	
13. October:	
14. November:	
15. December:	
16. Total (Note: 1.053 cubic yards = 1 ton):	
17. Explain the reason if reporting zero (0) for a month above:	

Storm Drain Inlet Retrofitting

1. Has the municipality completed repaving, repairing, reconstruction, or alterations on any road surfaces in direct contact with municipally owned or operated storm drain inlets?	Yes
2. Approximately what percentage of storm drains within the municipality currently meet the standard?	100

Stormwater Facility Maintenance

rmwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment devices, pervious paving buffers, infiltration basins/trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf.

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. During the past calendar year, were any stormwater facilities (excluding catch basins) cleaned?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	Replace existing block inlets with precast structures. CIPP lined existing outfall 22. Replace drain.

Catch Basins

1. Total number of catch basins that the municipality operates:	121
2. Total number of catch basins inspected:	121
3. Total number of catch basins cleaned:	121
4. Amount of materials removed from catch basins, in tons, during the past calendar year:	8
5. Units:	Cubic yards

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through a scour remediation program, attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date, and the repair completion date.

1. Has the municipality developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Does the municipality have a permanent structure for all de-icing material storage?	N/A - share services with another entity
2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	N/A - no sand stored outdoors

Fueling Operations

1. Is the municipality implementing Standard Operating Procedures for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations?	N/A - no fueling

Vehicle Maintenance

1. Is the municipality implementing Standard Operating Procedures for vehicle maintenance and repair activities at maintenance yard operations?	N/A - no maintenance or repairs

Good Housekeeping Practices

1. Is the municipality implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations)?	Yes

Equipment and Vehicle Washing

1. Has the municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from municipal maintenance yard operations?	Yes
2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	01/01/2006
4. What is the NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Is the municipality maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did the municipality conduct training for employees on stormwater related topics as required under the MS4 permit (e.g., police officers trained on ordinances)?	Yes
2. List date(s) of employee training:	Friday, 09/15/2017

Report Details - Part F

Sharing of Responsibilities

Does the municipality share services with another entity to satisfy a permit requirement?	Yes

For each of the following, indicate if you are relying on another entity to satisfy all or part of any permit requirements. Please provide additional information for any "Yes" answers in the provided Comments field.

1. Public notice:	No
2. Comments:	
3. Ensure compliance with RSIS for stormwater management:	No
4. Comments:	
5. Municipal stormwater management plan:	No
6. Comments:	

7. Municipal stormwater control ordinance:	No
. Comments:	
9. Long term operation and maintenance of BMPs (post-construction):	No
10. Comments:	
11. Storm drain inlet design standard (post-construction):	No
12. Comments:	
13. Local public education program:	No
14. Comments:	
15. Storm Drain Inlet Labeling Program:	No
16. Comments:	
17. Illicit connection elimination program:	No
18. Comments:	
19. Street sweeping:	No
20. Comments:	
21. Storm drain inlet retrofitting:	No
22. Comments:	
23. Maintenance of municipally operated stormwater facilities:	No
. Comments:	
25. Outfall pipe stream scouring:	No
26. Comments:	
27. De-icing and sand storage:	Yes
28. Comments:	Utilization of Storage Facility at the Bay Head Borough DPW Yard.
29. Fueling operations:	Yes
30. Comments:	Utilization of pumps at the Point Pleasant Beach Borough DPW Yard.
31. Vehicle maintenance:	Yes
32. Comments:	Work completed at privately owned garages.
33. Good Housekeeping:	No
34. Comments:	
35. Vehicle and Equipment Washing:	Yes
36. Comments:	Utilization of the Ocean County Facilities.
37. Employee Training:	No
38. Comments:	

ıcidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not revised your Stormwater Pollution Prevention Plan to incorporate changes required by the renewal permit.

1. Did your Public Complex have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)**	The effective permit for this reporting period had an expiration date of 2-28-14 with extensions granted. With the issuance of the new effective Tier A Permit, the SPPP will be updated in 2018 to comply with the new Tier A Stormwater Permit issued in January 2018 by the NJDEP.

Certification

Certifier:	Larry Plevier
Certifier ID:	PLEVIER1
Challenge/Response Question:	What is your favorite pet?
Challenge/Response Answer:	******
Certification PIN:	******
Date/Time of Certification:	04/30/2018 14:56

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0153281 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the n compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Larry Plevier	04/30/2018
General	**Date**

Instructions for Saving and Submitting the

2017 MS4 Tier A Permit Annual Report - Supplemental Questionnaire

1. Once opened, please save the Questionnaire to your computer, using the "Save As" function. This can be done by going to FILE > then Save As... or Shift + Ctrl + S.
2. Complete the Questionnaire.
3. Once you have completed the Questionnaire, use the "Save" function to save your answers to the Questionnaire to your computer. This can be done by going to FILE > then Save or Ctrl + S.
4. The completed and saved Questionnaire must then be uploaded as an attachment, in Part 7, to your Annual Report before the Annual Report is submitted to the Department.
5. To access the Annual Report, open the link to "NJDEP Online Portal" at http://www.nj.gov/dep/dwq/tier_a.htm. In Part 7, you will be asked to complete information regarding the file(s) to be uploaded. Navigate to your saved Questionnaire and then hit the "Upload" button in the lower right section of Part 7. The Annual Report will indicate if the Questionnaire was successfully uploaded. Then click on the "Continue" button and proceed with finalizing your Annual Report.

Your Annual Report will be considered incomplete if the Supplemental Questionnaire is not attached. If you experience any difficulty in this process, please contact your municipal case manager at 609-633-7021.

Please note that use of Adobe Reader XI is recommended. This free software is available for download at http://get.adobe.com/reader/ . If you have an earlier version of Adobe Reader, please go to the Adobe website at http://tv.adobe.com/watch/acrobat-x-tips-tricks/quick-tip-how-to-save-form-data-in-adobe-reader/ for detailed instructions on how to save your completed Questionnaire.

2017 MS4 Tier A Permit Annual Report - Supplemental Questionnaire

General Information

A. Municipal Information

Municipality: Mantoloking	County: Ocean

1. Has the municipality identified the stormwater team in the SPPP? (●) Yes ( ) No

2. Municipal Population: 300	3. Municipal Area (acres/sqm.): 412/0.643

B. Sharing of Responsibilities – Permit Section D1

1. If the municipality shares services, what requirement do the shared services satisfy?

- [ ] Public Notice
- [ ] Post-Construction Stormwater Management in New Development and Redevelopment
- [ ] Local Public Education
- [ ] Improper Disposal of Waste
- [ ] Illicit Connection Elimination and MS4 Outfall Pipe Mapping
- [ ] Solids and Floatable Controls
- [x] Maintenance Yard Operations
- [ ] Employee Training
- [ ] N/A, there are no shared services

Permit Implementation - Ordinances

A. Ordinances - Permit Sections F5 and F6

1. *Pet Waste Ordinance*
Entity responsible for enforcement: Police

2. *Litter Ordinance/State Litter Statute*
Entity responsible for enforcement: Police

3. *Improper Disposal of Waste Ordinance*
Entity responsible for enforcement: DPW Superintendent, Health Officer, and/or Recycling Coordinator

4. *Wildlife Feeding Ordinance*
Entity responsible for enforcement: Police

5. *Containerized Yard Waste Ordinance/Collection Program*
Entity responsible for enforcement: Police

6. *Illicit Connection Ordinance*
Entity responsible for enforcement: Municipal Engineer

7. *Refuse Container/Dumpster Ordinance*
Entity responsible for enforcement: DPW Superintendent

8. *Private Storm Drain Inlet Retrofitting Ordinance:*
Entity responsible for enforcement: Municipal Engineer and/or Land Use Officer

9a. How many violations of these ordinances were enforced?

N/A

9b. Which of the above ordinances had the most violations?

N/A

B. Illicit Connection Elimination Program – Permit Section F6

1. During the past calendar year, has the municipality identified any pipes or discharges with unknown owners entering the MS4? ○ Yes ◉ No
2. If yes, how many?

C. Storm Drain Inlet Retrofitting – Permit Section F7b

Existing storm drain inlets are required to be retrofitted to meet the design standard (contained in Attachment C of the permit) when such inlets are owned or operated by the Tier A Municipality and are in direct contact with repaving, repairing (excluding repair of individual potholes), reconstruction, resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen), or alterations of facilities owned or operated by the Tier A Municipality. For exemptions to this standard, refer to "Exemptions" in Attachment C.

1. At the completion of the above projects, did all of the storm drain inlets meet this standard? ◉ Yes ○ No

Permit Implementation - Inventory

A. MS4 Outfall Pipe Mapping – Permit Section F6

1. Which map format is used:

○ Tax Map ○ SIIA ◉ Electronic (e.g. AutoCAD, Micro Station, GIS) ○ USGS Quadrangle ○ Other

1a. If other, what is the format that the municipality uses?

2. Date of last revision: 7/31/2006

3. Is the map updated annually? ○ Yes ◉ No

4. Has the municipality investigated its MS4 for previously unmapped outfalls? ◉ Yes ○ No

4a. How many outfalls were found? 0

5. What percentage of mapped outfalls in the municipality have been visually inspected during the last calendar year?

7%

6. Are the municipality's outfall pipes labelled in the field? ○ Yes ◉ No

6a. If yes, do the labels match the alphanumeric code in the municipality's map? ○ Yes ○ No

7. Does the municipality's map identify outfalls that do not discharge to surface waters? ◉ Yes ○ No
8. Does the municipality's map identify surface water body names? ◉ Yes ○ No
9. Does the municipality's map identify streets? ◉ Yes ○ No
10. Does the municipality's map identify blocks and lots? ○ Yes ◉ No
11. Does the municipality's map identify MS4 conveyance systems (pipes, swales, ditches)? ○ Yes ◉ No
12. Does the municipality's map identify other stormwater facilities? ○ Yes ◉ No

12a. Please identify other stormwater facilities noted on the map (select as many as apply):

- ☐ Bioretention Systems
- ☐ Dry Wells
- ☐ Grass Swales
- ☐ Manufactured Treatment Devices (MTDs)
- ☐ Rooftop Vegetated Cover
- ☐ Vegetative Filters
- ☐ Retrofitted Storm Drain Inlets
- ☐ Constructed Stormwater Wetlands
- ☐ Extended Detention Basins
- ☐ Infiltration Basins
- ☐ Pervious Paving Systems
- ☐ Sand Filters
- ☐ Wet Ponds

13. Does the municipality's map identify areas with scour, erosion, and/or flooding and drainage control issues?

○ Yes ◉ No

B. Storm Drain Inlet Labeling – Permit Section F4b

1. How many labels have been replaced or repainted during the past calendar year to ensure legibility?
N/A- All castings have permanent cast-in-place labelling and logos for public notification.

Permit Implementation - Inventory

A. Stormwater Facility Inspection and Maintenance – Permit Section F7c

Stormwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment devices, pervious paving, riparian buffers, infiltration basins/ trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf

1. Does the municipality's stormwater maintenance program include the following:
1a. An inventory of facilities? (•) Yes ( ) No
1b. An inspection schedule? ( ) Yes (•) No
1c. A maintenance schedule? ( ) Yes (•) No
1d. An inspection log noting when inspections were conducted? (•) Yes ( ) No
1e. A maintenance log noting any maintenance performed on individual facilities? (•) Yes ( ) No

2. Does the municipality inspect stormwater facilities that are not owned by the municipality? ( ) Yes (•) No
2a. Does the municipality review maintenance logs for stormwater facilities that are not owned by the municipality?
( ) Yes (•) No

3. During the past calendar year, how many stormwater facilities (excluding catch basins) were repaired?
N/A- Only Public Collection and Conveyance BMPS are located with in the Borough and are the responsibility of the Borough.

4. During the past calendar year, how many stormwater facilities (excluding catch basins) were cleaned?
N/A- Only Public Collection and Conveyance BMPS are located with in the Borough and are the responsibility of the Borough.

B. Stormwater Facility Inspection and Maintenance – Permit Section F7c

1. Does the municipality have a stormwater outfall pipe scouring detection, remediation, and maintenance program?
(•) Yes ( ) No
2. How many instances of scour has the municipality found during the past calendar year?
zero (0)

Permit Implementation - Inventory

A. De-icing Material and Sand Storage – Permit Section F8a

1. What type of de-icing material does the municipality use (select as many as appropriate)?

- [x] Sodium Chloride
- [ ] Calcium Chloride
- [ ] Potassium Acetate
- [x] Brine Solution
- [ ] Unknown
- [ ] Other (if other, please specify):

B. Equipment and Vehicle Washing – Permit Section F8b

1. Does the municipality utilize an underground storage tank for managing vehicle wash wastewater? ( ) Yes (•) No

2. Which of the following options does the municipality use to manage vehicle wash wastewater? (select all that apply)

- [ ] Vehicle wash reclaim system
- [ ] Capture and haul system
- [ ] Discharge to sanitary sewer
- [ ] Discharge to groundwater
- [ ] Washed off site
- [x] Do not wash vehicles

Permit Implementation – Stormwater Management – Permit Section F3

Note: This portion of the annual report should be completed by a person knowledgeable in post-construction stormwater management project review and approvals.

1. Name of person completing this section: Larry Plevier
2. Title of person completing this section: Borough Engineer

A. Municipal Stormwater Management Plan (Plan)

1. Most recent date of re-examination of municipal master plan: 2017
2. Does the plan identify and address water bodies of concern (listed on Impaired Water Bodies List, TMDL, high quality water, existing erosion)? (•) Yes ( ) No
3. Does the plan identify and address areas of inadequate drainage? (•) Yes ( ) No
4. Does the plan include programs or BMPs and associated timeframes specifically addressing these impairments or pollutants? (•) Yes ( ) No
5. Does the plan identify how to incorporate future development pressures on the existing stormwater management infrastructure? (•) Yes ( ) No
6. Are mitigation projects listed in the municipality's mitigation plan? (•) Yes ( ) No ( ) No mitigation plan

B. Stormwater Control Ordinance

1. What is the ordinance's definition of major development?

   Per Section 18-1.12 of the Code: Major Development shall mean any "development" that provides for ultimately disturbing one (1) or more acres of land or increasing impervious surface by one-quarter (1/4) acre or more. Disturbance for the purpose of this rule is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. are also considered "major development".
2. Has the municipality adopted a new stormwater control ordinance during the past year? ( ) Yes (•) No
3. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval? ( ) Yes ( ) No

C. Review of Major Development for Stormwater Management

1. Did the municipality have any agricultural development projects that were granted exemptions under the Right to Farm Act? ( ) Yes (•) No
2. Do any municipal ordinances promote the use of nonstructural strategies? (•) Yes ( ) No ( ) Unknown
3. Does the municipality hold pre-application meetings to discuss incorporation of nonstructural strategies for individual projects? (•) Yes ( ) No
4. Does the municipality allow infiltration BMPs to infiltrate during the 2, 10, or 100 year storm events for quantity control? (•) Yes ( ) No
5. Does the municipality conduct municipal inspections of sites both during and after the construction is completed to ensure that BMPs function as designed? ( ) Yes (•) No

D. Inventory and Maintenance

Starmwater facility inventories that indicate the type, functian, and lacation af the facility must be kept ansite and available far inspection or upan request in a format provided by the Department. The farmat is available as SPPP Farm 13 at: http://www.nj.gav/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf.

1. Did the municipality update its map and inventory to include newly approved projects constructed within the last calendar year? ◯ Yes ◉ No

2. How many infiltration BMPs were approved during the past calendar year? 20 +/- private BMPs

3. How many subsurface infiltration basins have been constructed during the past calendar year? 10 +/- Private BMPs

3a. How many of these subsurface infiltration basins were inspected during construction in the past calendar year?
10 +/- Private BMPs

3b. Did the final inspection include the following? Mark all that apply:

- ☐ Permeability test
- ☑ Visual inspection
- ☐ Check for drain down time
- ☐ Unknown

4. Select the methods the municipality uses to ensure that stormwater facilities that are **not owned** by the municipality will be properly maintained:

- ☐ Maintained by municipality
- ☑ Inspections
- ☐ Homeowners associations
- ☐ Shared services
- ☐ Fees
- ☐ Surety bonds
- ☑ Other

4a. If other, what are the methods for ensuring stormwater facilities are maintained? ** No Major Development

5. In the past calendar year, has the municipality reviewed and approved any major residential developments that place an individual property owner as the responsible entity for the maintenance of any stormwater management facility(ies) that receive drainage from multiple parcels? ◯ Yes ◉ No

E. Stormwater Management Training

1. Have any of the current members of the planning or zoning board taken any NJDEP provided training for board members on the Stormwater Management rules? ◯ Yes ◯ No ◉ Unknown

2. Have the municipality's inspector(s) for stormwater management taken any of the following classes:

2a. Stormwater Management and BMPs for Engineers through Rutgers University or NJDEP : ◯ Yes ◉ No ◯ Unknown

2b. Municipal Engineering Construction Inspection Program, Part 1 through Rutgers University: ◯ Yes ◉ No ◯ Unknown

2c. Municipal Engineering Construction Inspection Program, Part 2 through Rutgers University: ◯ Yes ◉ No ◯ Unknown

2d. Soils & Site Evaluation for Septic Disposal Systems & Stormwater BMPs through Rutgers University:
◯ Yes ◉ No ◯ Unknown

2e. Other stormwater training classes:

3. How many construction inspectors for stormwater management does the municipality have? 0- Engineer's Task

4.	How many operation and maintenance inspectors for stormwater management does the municipality have? Zero (0)
5.	How many plan reviewers for stormwater management does the municipality have? 1- Borough Engineer
6.	How many municipal engineers/stormwater plan reviewers have taken the NJDEP Stormwater Management and BMP Manual course offered through Rutgers University or NJDEP? Zero (0)

Education

A. Annual Employee Training – Permit Section F9

1. Is the municipality maintaining a record of the dates on which employees have received training? ◉ Yes ○ No
2. Type of training media on those dates: ☑ Video ☐ Mentoring ☐ Vendor Training

This Supplemental Questionnaire must be attached to your Annual Report to be considered complete. If you experience any difficulty in this process, please contact your municipal case manager at 609-633-7021.

1. Once you have completed the Questionnaire, use the "Save" function to save your answers to the Questionnaire to your computer. This can be done by going to FILE > then Save or Ctrl + S.
2. The completed and saved Questionnaire must then be uploaded as an attachment, in Part 7, to your Annual Report before the Annual Report is submitted to the Department.
3. To access the Annual Report, open the link to "NJDEP Online Portal" at http://www.nj.gov/dep/dwq/tier_a.htm. In Part 7, you will be asked to complete information regarding the file(s) to be uploaded. Navigate to your saved Questionnaire and then hit the "Upload" button in the lower right section of Part 7. The Annual Report will indicate if the Questionnaire was successfully uploaded. Then click on the "Continue" button and proceed with finalizing your Annual Report.

MSRP ANNUAL REPORT - Tier A

ɔu have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	710667
Facility Name:	MANTOLOKING BORO
Reporting Period:	January 1, 2016 through December 31, 2016
NJPDES Permit #:	NJG0153281
Activity ID:	DST090001

Contacts

Name:	Larry Plevier
Title:	Principal Engineer
Contact Type:	Stormwater Coordinator
Organization Name:	Mott MacDonald
Organization Type:	Private
E-Mail:	larry.plevier@mottmac.com
Phone:	(732) 780-6565 (Work Phone Number) - Office number for Hatch Mott MacDonald
Contact Address:	3 Paragon Way East Freehold, New Jersey 07728

Uploaded Attachments

Attachment Name	Attachment Description	File Name
Supplemental Questionnaire	Supplemental Questionnaire	Tier A Report 2016 - Completed Supplemental Questionnaire - Mantoloking Boro.pdf

Annual Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Larry Plevier
Team member email address:	larry.plevier@mottmac.com

Stormwater Pollution Prevention Plan

1. Has the municipality revised its Stormwater Pollution Prevention Plan during the last calendar year?	No
2. Date of the last revised SPPP:	

ıblic Notice

1. Is the municipality complying with applicable State and local public notice requirements when providing for public participation in	Yes

the ongoing development and implementation of the stormwater program?	

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Is the municipality reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards (RSIS)?	Yes
2. Did the municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date of adopted municipal stormwater management plan:	06/18/2007
4. Status of this plan (if not adopted):	
5. Did the municipality adopt the municipal stormwater control ordinance provided by NJDEP without change?	Yes
6. Most recent date the municipality adopted a municipal stormwater control ordinance:	07/16/2007
7. What is the current status of the ordinance?	
8. Did the municipality submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	06/05/2007
10. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	06/05/2007
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/16/2007
16. Ordinance Number(s):	543
17. What is the current status of the adopted plan and ordinance?	
18. Are you reviewing projects as part of your site plan and sub-division approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	Yes
19. How many projects that were subject to either the municipal stormwater control ordinance or the stormwater provisions of RSIS did the municipality review?	99
20. Does the municipal stormwater management plan contain a mitigation plan?	Yes

21. Has the municipality granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in the approved municipal stormwater management plan and stormwater control ordinance(s)?	No
22. If yes, how many variances or exemptions from the design and performance standards has the municipality granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Does the municipality's plan review evaluate storm drain inlet protection for solids and floatables in accordance with Attachment C of the permit?	Yes
25. Does the municipality require plans for long-term operation and maintenance for stormwater BMPs?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
27. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	Ordinance requiring operation and maintenance by private entity.
28. Is the municipality's stormwater management plan re-examined at each re-examination of the master plan in accordance with N.J.A.C. 7:8-4?	N/A - we did not re-examine our master plan this year
29. Date re-examination report was last adopted:	

Report Details - Part C

Local Public Education Program

1. Have you developed a Local Public Education Program?	Yes
2. Have you conducted educational activities that total a minimum of 10 points (between January 1, 2016 and December 31, 2016)?	Yes
3. School Presentations (1 point per visit / maximum of 5 points per year):	0
4. Website (1 point):	1
5. Stormwater Display (2 points):	2
6. Giveaway (2 points):	2
7. Citizen Stormwater Advisory Committee (2 points):	0
8. Utilize Department Materials (2 points each / maximum of 4 points per year):	0
9. Poster Contest (2 points):	0
10. Stormwater Training for Elected Municipal Officials (3 points):	0
11. Mural (3 points):	0

12. Mailing (3 points):	0
13. Partnership Agreement / Local Event (3 points):	0
14. Ordinance Education (5 points):	5

Storm Drain Inlet Labeling

1. Have you established a storm drain inlet labeling program?	Yes
2. Indicate the percentage or number of sectors labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or repainting)?	Yes

Improper Disposal of Waste

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	02/21/2006
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	02/21/2006
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	02/21/2006
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	02/21/2006
9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance
10. Date adopted:	02/21/2006
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	02/21/2006
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	07/19/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	07/19/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	Warnings and Summons
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

Report Details - Part D

MS4 Outfall Pipe Mapping

1. Has the municipality completed the mapping of the MS4 outfall pipes?	Yes
2. Date completed:	04/01/1994
3. Number of outfall pipes that you operate in the municipality:	30
4. How many MS4 outfall pipes are mapped?	30

Illicit Connection Elimination Program

1. Does the municipality have an ongoing program to detect and eliminate illicit connections to municipally owned or operated outfall pipes?	Yes
2. How many outfall pipes were inspected during the past calendar year?	3
3. Number of illicit connections detected during the past calendar year:	0
4. Number of illicit connections eliminated during the past calendar year: **Please attach, in a format provided by the Department, a list of all outfalls found to have an illicit connection since the inception of the program. The list must include the outfall location, receiving water body, source of illicit connection and the date the illicit connection was eliminated.**	0

Street Sweeping Program

1. In the past calendar year, were all required streets swept?	N/A - no streets required to be swept
2. What was the total number of miles swept?	

List the total amount of materials collected for each month since January 1, 2016, in tons.

3. Units:	
4. January:	
5. February:	
6. March:	
7. April:	
8. May:	
9. June:	
10. July:	
11. August:	
12. September:	
13. October:	

14. November:	
15. December:	
16. Total (Note: 1.053 cubic yards = 1 ton):	
17. Explain the reason if reporting zero (0) for a month above:	

Storm Drain Inlet Retrofitting

1. Has the municipality completed repaving, repairing, reconstruction, or alterations on any road surfaces in direct contact with municipally owned or operated storm drain inlets?	Yes
2. Approximately what percentage of storm drains within the municipality currently meet the standard?	100

Stormwater Facility Maintenance

Stormwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment devices, pervious paving buffers, infiltration basins/trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf**.**

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. During the past calendar year, were any stormwater facilities (excluding catch basins) cleaned?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	Reparged interior walls of inlets with mortar.

Catch Basins

1. Total number of catch basins that the municipality operates:	121
2. Total number of catch basins inspected:	121
3. Total number of catch basins cleaned:	121
4. Amount of materials removed from catch basins, in tons, during the past calendar year:	8
5. Units:	Cubic yards

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through a scour remediation program, attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date, and the repair completion date.

1. Has the municipality developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Does the municipality have a permanent structure for all de-icing material storage?	N/A - share services with another entity
2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	N/A - no sand stored outdoors

Fueling Operations

1. Is the municipality implementing Standard Operating Procedures for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations?	N/A - no fueling

Vehicle Maintenance

1. Is the municipality implementing Standard Operating Procedures for vehicle maintenance and repair activities at maintenance yard operations?	N/A - no maintenance or repairs

Good Housekeeping Practices

1. Is the municipality implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations)?	Yes

Equipment and Vehicle Washing

1. Has the municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from municipal maintenance yard operations?	Yes

2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	01/01/2006
4. What is the NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Is the municipality maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did the municipality conduct training for employees on stormwater related topics as required under the MS4 permit (e.g., police officers trained on ordinances)?	Yes
2. List date(s) of employee training:	8-1-16

Report Details - Part F

Sharing of Responsibilities

Does the municipality share services with another entity to satisfy a permit requirement?	Yes

For each of the following, indicate if you are relying on another entity to satisfy all or part of any permit requirements. Please provide additional information for any "Yes" answers in the provided Comments field.

1. Public notice:	No
2. Comments:	
3. Ensure compliance with RSIS for stormwater management:	No
4. Comments:	
5. Municipal stormwater management plan:	No
6. Comments:	
7. Municipal stormwater control ordinance:	No
8. Comments:	
9. Long term operation and maintenance of BMPs (post-construction):	No
10. Comments:	
11. Storm drain inlet design standard (post-construction):	No
12. Comments:	
13. Local public education program:	No
14. Comments:	
15. Storm Drain Inlet Labeling Program:	No

16. Comments:	
17. Illicit connection elimination program:	No
18. Comments:	
19. Street sweeping:	No
20. Comments:	
21. Storm drain inlet retrofitting:	No
22. Comments:	
23. Maintenance of municipally operated stormwater facilities:	No
24. Comments:	
25. Outfall pipe stream scouring:	No
26. Comments:	
27. De-icing and sand storage:	Yes
28. Comments:	Utilization of Storage Facility at the Bay Head Borough DPW Yard.
29. Fueling operations:	Yes
30. Comments:	Utilization of pumps at the Point Pleasant Beach Borough DPW Yard.
31. Vehicle maintenance:	Yes
32. Comments:	Work completed at privately owned garages.
33. Good Housekeeping:	No
34. Comments:	
35. Vehicle and Equipment Washing:	Yes
36. Comments:	Utilization of the Ocean County Facilities.
37. Employee Training:	No
38. Comments:	

Incidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not revised your Stormwater Pollution Prevention Plan to incorporate changes required by the renewal permit.

1. Did your Public Complex have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your**	Per the NJDEP website, the Tier A Permit has an expiration date of

report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)	2-28-14. However, this permit will remain in full force and effect until a renewal permit is issued. The Renewal Permit has not yet been issued or received by the Borough. Upon issuance and receipt of the Renewal Permit, the SPPP will be revised accordingly.

Certification

Certifier:	Larry Plevier
Certifier ID:	PLEVIER1
Challenge/Response Question:	What is your favorite color?
Challenge/Response Answer:	******
Certification PIN:	******
Date/Time of Certification:	05/01/2017 20:30

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0153281 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the non-compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Larry Plevier	05/01/2017
General	**Date**

MSRP ANNUAL REPORT - Tier A

You have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	589034
Facility Name:	MANTOLOKING BORO
Reporting Period:	January 1, 2015 through December 31, 2015
NJPDES Permit #:	NJG0153281
Activity ID:	DST090001

Contacts

Name:	Larry Plevier
Title:	Borough Engineer
Contact Type:	Stormwater Coordinator
Organization Name:	MANTOLOKING BORO
Organization Type:	Municipal
E-Mail:	larry.plevier@hatchmott.com
Phone:	(732) 475-6983 (Work Phone Number)
Contact Address:	PO BOX 4391 - 340 DRUM POINT RD Brick Twp, New Jersey 08723

Uploaded Attachments

Attachment Name	Attachment Description	File Name
Supplemental Questionnaire		Tier A Report 2015 - Supplemental Questionnaire - Mantoloking Boro.pdf

Annual Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Larry Plevier
Team member email address:	larry.plevier@hatchmott.com

Stormwater Pollution Prevention Plan

1. Has the municipality revised its Stormwater Pollution Prevention Plan during the last calendar year?	No
2. Date of the last revised SPPP:	

Public Notice

1. Is the municipality complying with applicable State and local public notice requirements when providing for public participation in the ongoing development and implementation of the stormwater program?	Yes

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Is the municipality reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards (RSIS)?	Yes
2. Did the municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date of adopted municipal stormwater management plan:	06/18/2007
4. Status of this plan (if not adopted):	
5. Did the municipality adopt the municipal stormwater control ordinance provided by NJDEP without change?	Yes
6. Most recent date the municipality adopted a municipal stormwater control ordinance:	07/16/2007
7. What is the current status of the ordinance?	
8. Did the municipality submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	06/05/2007
10. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	06/05/2007
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/16/2007
16. Ordinance Number(s):	543

17. What is the current status of the adopted plan and ordinance?	
18. Are you reviewing projects as part of your site plan and sub-division approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	Yes
19. How many projects that were subject to either the municipal stormwater control ordinance or the stormwater provisions of RSIS did the municipality review?	89
20. Does the municipal stormwater management plan contain a mitigation plan?	Yes
21. Has the municipality granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in the approved municipal stormwater management plan and stormwater control ordinance(s)?	No
22. If yes, how many variances or exemptions from the design and performance standards has the municipality granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Does the municipality's plan review evaluate storm drain inlet protection for solids and floatables in accordance with Attachment C of the permit?	Yes
25. Does the municipality require plans for long-term operation and maintenance for stormwater BMPs?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
27. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	Ordinance requiring operation and maintenance by private entity
28. Is the municipality's stormwater management plan re-examined at each re-examination of the master plan in accordance with N.J.A.C. 7:8-4?	N/A - we did not re-examine our master plan this year
29. Date re-examination report was last adopted:	

Report Details - Part C

Local Public Education Program

1. Have you developed a Local Public Education Program?	Yes
	Yes

2. Have you conducted educational activities that total a minimum of 10 points (between January 1, 2015 and December 31, 2015)?	
3. School Presentations (1 point per visit / maximum of 5 points per year):	0
4. Website (1 point):	1
5. Stormwater Display (2 points):	2
6. Giveaway (2 points):	2
7. Citizen Stormwater Advisory Committee (2 points):	0
8. Utilize Department Materials (2 points each / maximum of 4 points per year):	0
9. Poster Contest (2 points):	0
10. Stormwater Training for Elected Municipal Officials (3 points):	0
11. Mural (3 points):	0
12. Mailing (3 points):	0
13. Partnership Agreement / Local Event (3 points):	0
14. Ordinance Education (5 points):	5

Storm Drain Inlet Labeling

1. Have you established a storm drain inlet labeling program?	Yes
2. Indicate the percentage or number of sectors labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or repainting)?	Yes

Improper Disposal of Waste

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	02/21/2006
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	02/21/2006
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	02/21/2006
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	02/21/2006
9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance

10. Date adopted:	02/21/2006
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	02/21/2006
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	07/19/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	07/19/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	Warnings and Summons
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

Report Details - Part D

MS4 Outfall Pipe Mapping

1. Has the municipality completed the mapping of the MS4 outfall pipes?	Yes
2. Date completed:	04/01/1994
3. Number of outfall pipes that you operate in the municipality:	30
4. How many MS4 outfall pipes are mapped?	30

Illicit Connection Elimination Program

1. Does the municipality have an ongoing program to detect and eliminate illicit connections to municipally owned or operated outfall pipes?	Yes
2. How many outfall pipes were inspected during the past calendar year?	4
3. Number of illicit connections detected during the past calendar year:	0
4. Number of illicit connections eliminated during the past calendar year: **Please attach, in a format provided by the Department, a list of all outfalls found to have an illicit connection since the inception of the program. The list must include the outfall location, receiving water body, source of illicit connection and the date the illicit connection was eliminated.**	0

Street Sweeping Program

1. In the past calendar year, were all required streets swept?	N/A - no streets required to be swept
2. What was the total number of miles swept?	

List the total amount of materials collected for each month since January 1, 2015, in tons.

3. Units:	
4. January:	
5. February:	
6. March:	
7. April:	
8. May:	
9. June:	
10. July:	
11. August:	
12. September:	
13. October:	
14. November:	
15. December:	
16. Total (Note: 1.053 cubic yards = 1 ton):	
17. Explain the reason if reporting zero (0) for a month above:	

Storm Drain Inlet Retrofitting

1. Has the municipality completed repaving, repairing, reconstruction, or alterations on any road surfaces in direct contact with municipally owned or operated storm drain inlets?	N/A - no paving that required storm drain inlet retrofitting
2. Approximately what percentage of storm drains within the municipality currently meet the standard?	

Stormwater Facility Maintenance

Stormwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment devices, pervious paving buffers, infiltration basins/trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and

available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf**.**

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. During the past calendar year, were any stormwater facilities (excluding catch basins) cleaned?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	Reset casting and repair top course with brick/mortar for inlet at Arnold Street and Bay Ave.

Catch Basins

1. Total number of catch basins that the municipality operates:	121
2. Total number of catch basins inspected:	121
3. Total number of catch basins cleaned:	90
4. Amount of materials removed from catch basins, in tons, during the past calendar year:	6
5. Units:	Cubic yards

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through a scour remediation program, attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date, and the repair completion date.

1. Has the municipality developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Does the municipality have a permanent structure for all de-icing material storage?	N/A - share services with another entity
2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	N/A - no sand stored outdoors

Fueling Operations

1. Is the municipality implementing Standard Operating Procedures for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations?	N/A - no fueling

Vehicle Maintenance

1. Is the municipality implementing Standard Operating Procedures for vehicle maintenance and repair activities at maintenance yard operations?	N/A - no maintenance or repairs

Good Housekeeping Practices

1. Is the municipality implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations)?	Yes

Equipment and Vehicle Washing

1. Has the municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from municipal maintenance yard operations?	Yes
2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	01/01/2006
4. What is the NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Is the municipality maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did the municipality conduct training for employees on stormwater related topics as required under the MS4 permit (e.g., police officers trained on ordinances)?	Yes
2. List date(s) of employee training:	9-22-15

Report Details - Part F

Sharing of Responsibilities

Does the municipality share services with another entity to satisfy a permit requirement?	Yes

For each of the following, indicate if you are relying on another entity to satisfy all or part of any permit requirements. Please provide additional information for any "Yes" answers in the provided Comments field.

1. Public notice:	No
2. Comments:	
3. Ensure compliance with RSIS for stormwater management:	No
4. Comments:	
5. Municipal stormwater management plan:	No
6. Comments:	
7. Municipal stormwater control ordinance:	No
8. Comments:	
9. Long term operation and maintenance of BMPs (post-construction):	No
10. Comments:	
11. Storm drain inlet design standard (post-construction):	No
12. Comments:	
13. Local public education program:	No
14. Comments:	
15. Storm Drain Inlet Labeling Program:	No
16. Comments:	
17. Illicit connection elimination program:	No
18. Comments:	
19. Street sweeping:	No

20. Comments:	
21. Storm drain inlet retrofitting:	No
22. Comments:	
23. Maintenance of municipally operated stormwater facilities:	No
24. Comments:	
25. Outfall pipe stream scouring:	No
26. Comments:	
27. De-icing and sand storage:	Yes
28. Comments:	Utilization of Storage Facility at the Bay Head Borough DPW Yard.
29. Fueling operations:	Yes
30. Comments:	Utilization of pumps at the Point Pleasant Beach Borough DPW Yard.
31. Vehicle maintenance:	Yes
32. Comments:	Work completed at privately owned garages.
33. Good Housekeeping:	No
34. Comments:	
35. Vehicle and Equipment Washing:	Yes
36. Comments:	Utilization of the Ocean County Facilities.
37. Employee Training:	No
38. Comments:	

Incidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not revised your Stormwater Pollution Prevention Plan to incorporate changes required by the renewal permit.

1. Did your Public Complex have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your**	Per the NJDEP website, the Tier A Permit has an expiration date of 2-28-14. However, this

report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)	permit will remain in full force and effect until a renewal permit is issued. The Renewal Permit has not yet been issued or received by the Borough. Upon issuance and receipt of the Renewal Permit, the SPPP will be revised accordingly.

Certification

Certifier:	Larry Plevier
Certifier ID:	PLEVIER1
Challenge/Response Question:	What is your favorite sport?
Challenge/Response Answer:	******
Certification PIN:	******
Date/Time of Certification:	05/02/2016 15:40

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0153281 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the non-compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Larry Plevier	05/02/2016
General	**Date**

MSRP ANNUAL REPORT - Tier A

You have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	487938
Facility Name:	MANTOLOKING BORO
Reporting Period:	January 1, 2014 through December 31, 2014
NJPDES Permit #:	NJG0153281
Activity ID:	DST090001

Contacts

Name:	Larry Plevier
Title:	Borough Engineer
Contact Type:	Stormwater Coordinator
Organization Name:	MANTOLOKING BORO
Organization Type:	Municipal
E-Mail:	larry.plevier@hatchmott.com
Phone:	(732) 475-6983 (Work Phone Number)
Contact Address:	PO BOX 4391 - 340 DRUM POINT RD Brick Twp, New Jersey 08723

Uploaded Attachments

Attachment Name	Attachment Description	File Name
Tier A Report - Supplemental Q		Tier A Report - Supplemental Questionnaire - Mantoloking Boro.pdf

Annual Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Larry Plevier
Team member email address:	larry.plevier@hatchmott.com

Stormwater Pollution Prevention Plan

1. Has the municipality revised its Stormwater Pollution Prevention Plan during the last calendar year?	No
2. Date of the last revised SPPP:	

Public Notice

1. Is the municipality complying with applicable State and local public notice requirements when providing for public participation in the ongoing development and implementation of the stormwater program?	Yes

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Is the municipality reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards (RSIS)?	Yes
2. Did the municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date of adopted municipal stormwater management plan:	06/18/2007
4. Status of this plan (if not adopted):	
5. Did the municipality adopt the municipal stormwater control ordinance provided by NJDEP without change?	Yes
6. Most recent date the municipality adopted a municipal stormwater control ordinance:	07/16/2007
7. What is the current status of the ordinance?	
8. Did the municipality submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	06/05/2007
10. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	06/05/2007
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/16/2007
16. Ordinance Number(s):	543

17. What is the current status of the adopted plan and ordinance?	
18. Are you reviewing projects as part of your site plan and sub-division approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	Yes
19. How many projects that were subject to either the municipal stormwater control ordinance or the stormwater provisions of RSIS did the municipality review?	26
20. Does the municipal stormwater management plan contain a mitigation plan?	Yes
21. Has the municipality granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in the approved municipal stormwater management plan and stormwater control ordinance(s)?	No
22. If yes, how many variances or exemptions from the design and performance standards has the municipality granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Does the municipality's plan review evaluate storm drain inlet protection for solids and floatables in accordance with Attachment C of the permit?	Yes
25. Does the municipality require plans for long-term operation and maintenance for stormwater BMPs?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
27. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	Ordinance requiring operation and maintenance by private entity.
28. Is the municipality's stormwater management plan re-examined at each re-examination of the master plan in accordance with N.J.A.C. 7:8-4?	N/A - we did not re-examine our master plan this year
29. Date re-examination report was last adopted:	

Report Details - Part C

Local Public Education Program

1. Have you developed a Local Public Education Program?	Yes

2. Have you conducted educational activities that total a minimum of 10 points (between January 1, 2014 and December 31, 2014)?	Yes
3. School Presentations (1 point per visit / maximum of 5 points per year):	0
4. Website (1 point):	1
5. Stormwater Display (2 points):	2
6. Giveaway (2 points):	2
7. Citizen Stormwater Advisory Committee (2 points):	0
8. Utilize Department Materials (2 points each / maximum of 4 points per year):	0
9. Poster Contest (2 points):	0
10. Stormwater Training for Elected Municipal Officials (3 points):	0
11. Mural (3 points):	0
12. Mailing (3 points):	0
13. Partnership Agreement / Local Event (3 points):	0
14. Ordinance Education (5 points):	5

Storm Drain Inlet Labeling

1. Have you established a storm drain inlet labeling program?	Yes
2. Indicate the percentage or number of sectors labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or repainting)?	Yes

Improper Disposal of Waste

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	02/21/2006
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	02/21/2006
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	02/21/2006
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	02/21/2006

9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance
10. Date adopted:	02/21/2006
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	02/21/2006
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	07/19/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	07/19/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	Warnings and Summons
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

Report Details - Part D

MS4 Outfall Pipe Mapping

1. Has the municipality completed the mapping of the MS4 outfall pipes?	Yes
2. Date completed:	04/01/1994
3. Number of outfall pipes that you operate in the municipality:	30
4. How many MS4 outfall pipes are mapped?	30

Illicit Connection Elimination Program

1. Does the municipality have an ongoing program to detect and eliminate illicit connections to municipally owned or operated outfall pipes?	Yes
2. How many outfall pipes were inspected during the past calendar year?	6
3. Number of illicit connections detected during the past calendar year:	0
4. Number of illicit connections eliminated during the past calendar year: **Please attach, in a format provided by the Department, a list of all outfalls found to have an illicit connection since the inception of the program. The list must include the outfall**	0

location, receiving water body, source of illicit connection and the date the illicit connection was eliminated.	

Street Sweeping Program

1. In the past calendar year, were all required streets swept?	N/A - no streets required to be swept
2. What was the total number of miles swept?	

List the total amount of materials collected for each month since January 1, 2014, in tons.

3. Units:	
4. January:	
5. February:	
6. March:	
7. April:	
8. May:	
9. June:	
10. July:	
11. August:	
12. September:	
13. October:	
14. November:	
15. December:	
16. Total (Note: 1.053 cubic yards = 1 ton):	
17. Explain the reason if reporting zero (0) for a month above:	

Storm Drain Inlet Retrofitting

1. Has the municipality completed repaving, repairing, reconstruction, or alterations on any road surfaces in direct contact with municipally owned or operated storm drain inlets?	N/A - no paving that required storm drain inlet retrofitting
2. Approximately what percentage of storm drains within the municipality currently meet the standard?	

Stormwater Facility Maintenance

Stormwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment

devices, pervious paving buffers, infiltration basins/trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf**.**

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. During the past calendar year, were any stormwater facilities (excluding catch basins) cleaned?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	Repairs and reconstruction with brick, block, and mortar for existing storm inlets.

Catch Basins

1. Total number of catch basins that the municipality operates:	121
2. Total number of catch basins inspected:	121
3. Total number of catch basins cleaned:	121
4. Amount of materials removed from catch basins, in tons, during the past calendar year:	7
5. Units:	Cubic yards

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through a scour remediation program, attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date, and the repair completion date.

1. Has the municipality developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	

	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Does the municipality have a permanent structure for all de-icing material storage?	N/A - share services with another entity
2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	N/A - no sand stored outdoors

Fueling Operations

1. Is the municipality implementing Standard Operating Procedures for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations?	N/A - no fueling

Vehicle Maintenance

1. Is the municipality implementing Standard Operating Procedures for vehicle maintenance and repair activities at maintenance yard operations?	N/A - no maintenance or repairs

Good Housekeeping Practices

1. Is the municipality implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations)?	Yes

Equipment and Vehicle Washing

1. Has the municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from municipal maintenance yard operations?	Yes
2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	01/01/2006

4. What is the NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Is the municipality maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did the municipality conduct training for employees on stormwater related topics as required under the MS4 permit (e.g., police officers trained on ordinances)?	Yes
2. List date(s) of employee training:	10-15-14

Report Details - Part F

Sharing of Responsibilities

Does the municipality share services with another entity to satisfy a permit requirement?	Yes

For each of the following, indicate if you are relying on another entity to satisfy all or part of any permit requirements. Please provide additional information for any "Yes" answers in the provided Comments field.

1. Public notice:	No
2. Comments:	
3. Ensure compliance with RSIS for stormwater management:	No
4. Comments:	
5. Municipal stormwater management plan:	No
6. Comments:	
7. Municipal stormwater control ordinance:	No
8. Comments:	
9. Long term operation and maintenance of BMPs (post-construction):	No
10. Comments:	
11. Storm drain inlet design standard (post-construction):	No
12. Comments:	
13. Local public education program:	No
14. Comments:	

15. Storm Drain Inlet Labeling Program:	No
16. Comments:	
17. Illicit connection elimination program:	No
18. Comments:	
19. Street sweeping:	No
20. Comments:	
21. Storm drain inlet retrofitting:	No
22. Comments:	
23. Maintenance of municipally operated stormwater facilities:	No
24. Comments:	
25. Outfall pipe stream scouring:	No
26. Comments:	
27. De-icing and sand storage:	Yes
28. Comments:	Utilization of Storage Facility at the Bay Head Borough DPW Yard.
29. Fueling operations:	Yes
30. Comments:	Utilization of pumps at the Point Pleasant Beach Borough DPW Yard.
31. Vehicle maintenance:	Yes
32. Comments:	Work completed at privately owned garages.
33. Good Housekeeping:	No
34. Comments:	
35. Vehicle and Equipment Washing:	Yes
36. Comments:	Utilization of the Ocean County Facilities.
37. Employee Training:	No
38. Comments:	

Incidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not revised your Stormwater Pollution Prevention Plan to incorporate changes required by the renewal permit.

1. Did your Public Complex have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)**	Per NJDEP website,the Tier A Permit has an expiration date of 2-28 -14. However, this permit will remain in full force and effect until a renewal permit is issued. The Renewal Permit has not yet been issued or received by the Borough. However, the SPPP will be updated in 2015 to include all the necessary changes including new Team Members.

Certification

Certifier:	Larry Plevier
Certifier ID:	PLEVIER1
Challenge/Response Question:	What is your all-time favorite sports team?
Challenge/Response Answer:	******
Certification PIN:	******
Date/Time of Certification:	04/23/2015 19:18

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0153281 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the non-compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Larry Plevier	04/23/2015
General	**Date**

MSRP ANNUAL REPORT - Tier A

You have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	393645
Facility Name:	MANTOLOKING BORO
Reporting Period:	January 1, 2013 through December 31, 2013
NJPDES Permit #:	NJG0153281
Activity ID:	DST090001

Contacts

Name:	Larry Plevier
Title:	Borough Engineer
Contact Type:	Stormwater Coordinator
Organization Name:	MANTOLOKING BORO
Organization Type:	Municipal
E-Mail:	larry.plevier@hatchmott.com
Phone:	(732) 475-6983 (Work Phone Number)
Contact Address:	PO BOX 4391 - 340 Drum Point Rd Brick Twp, New Jersey 08723

Uploaded Attachments

No attachments have been uploaded for this submittal.

Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Larry Plevier
Team member email address:	larry.plevier@hatchmott.com

Stormwater Pollution Prevention Plan

1. Have you revised your Stormwater Pollution Prevention Plan to incorporate changes required by the renewal permit?	Yes
2. Date SPPP was revised:	09/09/2010

Public Notice

1. Are you complying with applicable State and local public notice requirements when providing for public participation in the development and implementation of your stormwater program?	Yes

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Are you ensuring that any residential development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management comply with the design standards in the Stormwater Management Rules at N.J.A.C. 7:8-5?	Yes
2. Did your municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date your municipality adopted a Municipal Stormwater Management Plan:	06/18/2007
4. Status of this plan (if not adopted):	
5. Did your municipality adopt a municipal stormwater control ordinance?	Yes
6. Most recent date your municipality adopted a Municipal Stormwater Control Ordinance:	07/16/2007
7. Status of this ordinance:	
8. Did you submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	06/05/2007
10. Did you submit the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	06/05/2007
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/16/2007
16. Ordinance Number(s):	543
17. What is the current status of the adopted plan and ordinance?	
	Yes

18. Are you reviewing projects as part of your site plan and sub-division approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	
19. How many projects that were subject to either your municipal stormwater control ordinance or the stormwater provisions of RSIS did you review?	18
20. Does your approved municipal stormwater management plan contain a mitigation plan as described in N.J.A.C. 7:8-4.2(c)11?	Yes
21. Have you granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in your approved municipal stormwater management plan and stormwater control ordinance(s)?	No
22. How many variances or exemptions from the design and performance standards have you granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Are you ensuring that storm drain inlets installed within your municipality (either by you or another entity) comply with the standards set forth in Attachment C?	Yes
25. Are you ensuring adequate long-term operation and maintenance of stormwater BMPs installed on property that your municipality owns or operates after the Effective Date of Permit Authorization (EDPA)?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
27. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	Ordinance requiring operation and maintenance by private entity.
28. Have you reexamined your approved municipal stormwater management plan at each re-examination of your master plan in accordance with N.J.A.C. 7:8-4?	N/A - we did not re-examine our master plan this year
29. Date re-examination report was last adopted:	

Report Details - Part C

Local Public Education Program

1. Have you developed a Local Public Education Program?	Yes

2. Have you conducted educational activities that total a minimum of 10 points (between January 1, 2013 and December 31, 2013)?	No
3. School Presentations (1 point per visit / maximum of 5 points per year):	0
4. Website (1 point):	1
5. Stormwater Display (2 points):	0
6. Giveaway (2 points):	0
7. Citizen Stormwater Advisory Committee (2 points):	0
8. Utilize Department Materials (2 points each / maximum of 4 points per year):	2
9. Poster Contest (2 points):	0
10. Stormwater Training for Elected Municipal Officials (3 points):	0
11. Mural (3 points):	0
12. Mailing (3 points):	3
13. Partnership Agreement / Local Event (3 points):	0
14. Ordinance Education (5 points):	0

Storm Drain Inlet Labeling

1. Have you established a storm drain inlet labeling program?	Yes
2. Indicate the percentage or number of sectors labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or repainting)?	Yes

Improper Disposal of Waste

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	02/21/2006
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	02/21/2006
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	02/21/2006
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	02/21/2006

9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance
10. Date adopted:	02/21/2006
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	02/21/2006
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	07/19/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	07/19/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	Warnings and Summons.
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

Report Details - Part D

MS4 Outfall Pipe Mapping

1. Have you completed the MS4 outfall pipes mapping?	Yes
2. Date completed:	04/01/1994
3. Number of outfall pipes that you operate in the municipality:	30
4. Number of mapped outfall pipes that you operate:	30

Illicit Connection Elimination Program

1. Have you completed an illicit connection inspection for all outfall pipes that you operate?	Yes
2. Total number of outfall pipes physically inspected:	15
3. Number of outfall pipes to have an illicit connection:	0
4. Number of illicit connections eliminated during this reporting period: **Please attach, in a format provided by the Department, a list of all outfalls found to have an illicit connection since the inception of the program. The list must include the outfall location, receiving water body, source of illicit connection and the date the illicit connection was eliminated.**	0

Street Sweeping Program

1. Were all required streets swept?	N/A - no streets required to be swept
2. What was the total number of miles swept?	

Please list the total amount of materials collected for each month since January 1, 2013, and indicate the unit of measurement used to report these materials.

3. Units:	
4. January:	
5. February:	
6. March:	
7. April:	
8. May:	
9. June:	
10. July:	
11. August:	
12. September:	
13. October:	
14. November:	
15. December:	
16. Total (*The Total will be displayed in ton units. If you have selected cubic yards as your reporting unit of measurement, be aware that the total will be converted to tons, 1.053 cubic yards = 1 ton*):	
17. If reporting zero (0) for a month above, please explain:	

Storm Drain Inlet Retrofitting

1. Were all storm drain inlets that you operate in direct contact with repaving, repairing, reconstruction or alterations retrofitted or replaced to meet the standard?	Yes
2. How many storm drain inlets were retrofitted?	3

Stormwater Facility Maintenance

Stormwater facilities include, but are not limited to, catch basins, detention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses and stormwater conveyances. Please keep an inventory of stormwater facilities indicating type, function and

location in a format provided by the Department onsite and available for inspection or upon request.

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. Was the cleaning performed?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	Repairs and reconstruction with brick, block, and mortar for existing storm inlets.

Catch Basins

1. Total number of catch basins that you operate:	121
2. Total number of catch basins inspected:	121
3. Total number of catch basins cleaned:	121
4. Amount of materials removed from catch basins:	215
5. Units:	Cubic yards

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through this program, please attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date and the repair complete date.

1. Have you developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Do you have a permanent structure for de-icing material storage?	N/A - share services with another entity

2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	N/A - no sand stored outdoors

Fueling Operations

1. Are you implementing Standard Operating Procedures for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations?	N/A - no fueling

Vehicle Maintenance

1. Are you implementing Standard Operating Procedures for vehicle maintenance and repair activities at maintenance yard operations?	N/A - no maintenance or repairs

Good Housekeeping Practices

1. Are you implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations)?	N/A - no materials or machinery

Equipment and Vehicle Washing

1. Has your Municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from your municipal maintenance yard operations?	Yes
2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	01/01/2006
4. What is your NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Are you maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did you conduct an annual employee training program for appropriate employees on appropriate topics (e.g., police officers trained on ordinances)?	Yes

2. List date(s) of employee training:	10-22-13

Report Details - Part F

Sharing of Responsibilities

Do you share services with another entity to satisfy a permit requirement?	Yes

For each of the following, indicate if you are relying on another entity to satisfy all or part of any permit requirements. Please provide additional information for any "Yes" answers in the provided Comments field.

1. Public notice:	No
2. Comments:	
3. Ensure compliance with RSIS for stormwater management:	No
4. Comments:	
5. Municipal stormwater management plan:	No
6. Comments:	
7. Municipal stormwater control ordinance:	No
8. Comments:	
9. Long term operation and maintenance of BMPs (post-construction):	No
10. Comments:	
11. Storm drain inlet design standard (post-construction):	No
12. Comments:	
13. Local public education program:	No
14. Comments:	
15. Storm Drain Inlet Labeling Program:	No
16. Comments:	
17. Illicit connection elimination program:	No
18. Comments:	
19. Street sweeping:	No
20. Comments:	
21. Storm drain inlet retrofitting:	No
22. Comments:	

23. Maintenance of municipally operated stormwater facilities:	No
24. Comments:	
25. Outfall pipe stream scouring:	No
26. Comments:	
27. De-icing and sand storage:	Yes
28. Comments:	Utilization of Storage Facility at the Bay Head Borough DPW Yard.
29. Fueling operations:	Yes
30. Comments:	Utilization of Pumps at the Point Pleasant Beach Borough DPW Yard.
31. Vehicle maintenance:	Yes
32. Comments:	Work completed at privately owned garages.
33. Good Housekeeping:	No
34. Comments:	
35. Vehicle and Equipment Washing:	Yes
36. Comments:	Utilization of the Ocean County Facilities.
37. Employee Training:	No
38. Comments:	

Incidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not conducted educational activities that total a minimum of 10 points (between January 1, 2013 and December 31, 2013).

1. Did your Public Complex have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)**	The Borough Hall on Downer Avenue was damaged during Superstorm Sandy including the building contents. The public education posters and

	info were destroyed during Superstorm Sandy. During reconstruction the Mayor's letter for stormwater did not get distributed. New posters will be hung at the temporary Boro Hall and the Mayor's letter will be mailed in 2014

Certification

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0153281 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the non-compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Certifier: Larry Plevier (General) **Certifier ID:** PLEVIER1 **Date:** 05/22/2014

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

APPENDIX B – VIDEO INSPECTION REPORTS

AMERICAN PIPE CLEANING, LLC

Pipe Jetting & Vacuum Services • Digital TV Inspection
Manhole & Catch Basin Cleaning • Hydro Excavation

Borough of Mantoloking

DVD/Video Report

May 11, 2010

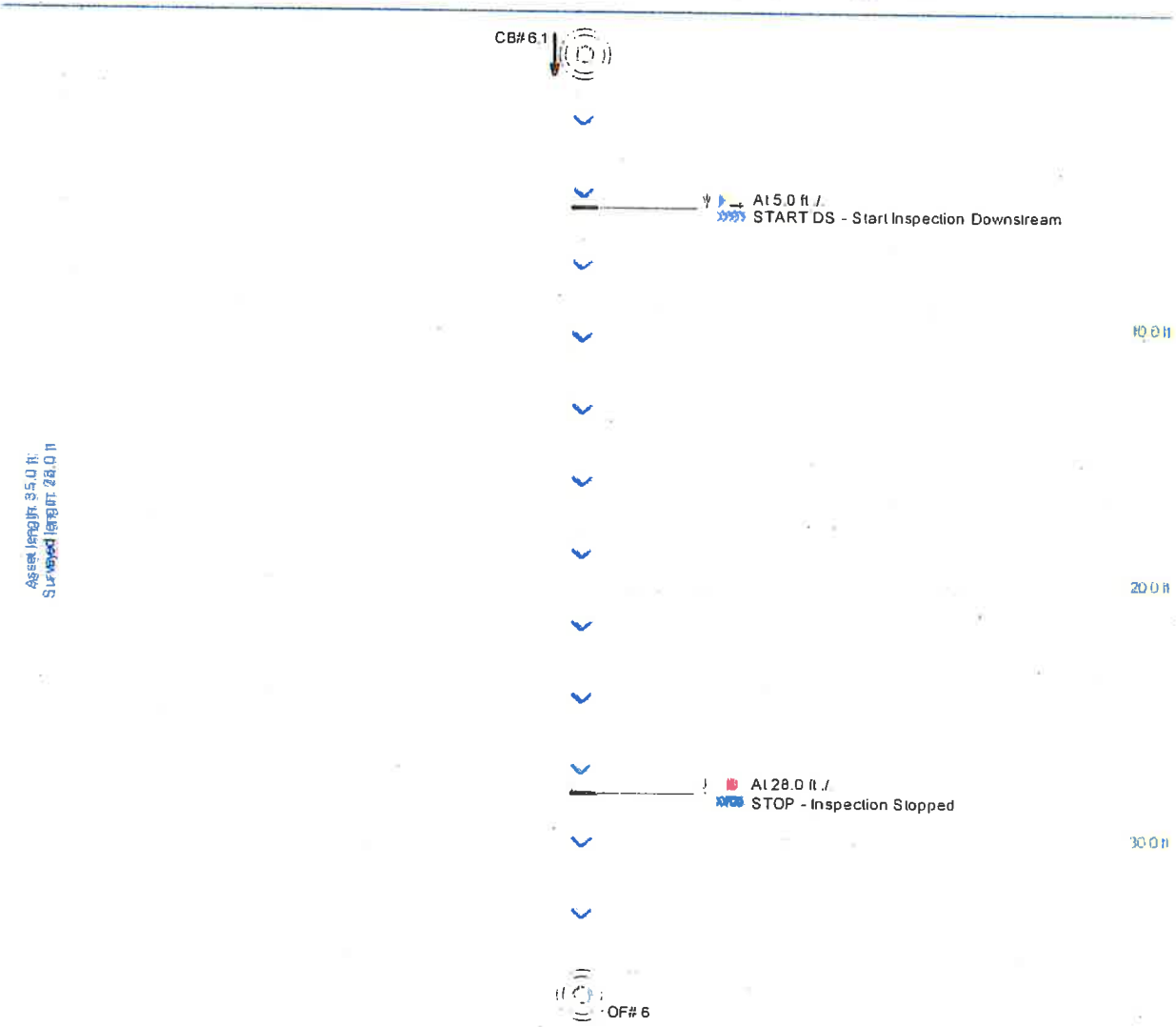
American Pipe Cleaning,LLC
P. O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-OF 6	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	28.0	Sunny	Disc # 1 0:00



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-OF 6	Borough of Mantoloking-A	4/21/2010 2:24:59 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.1	OF# 6	35.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
5.0		START DS	No	/		
28.0		STOP	No	/		Camera could not pass debris

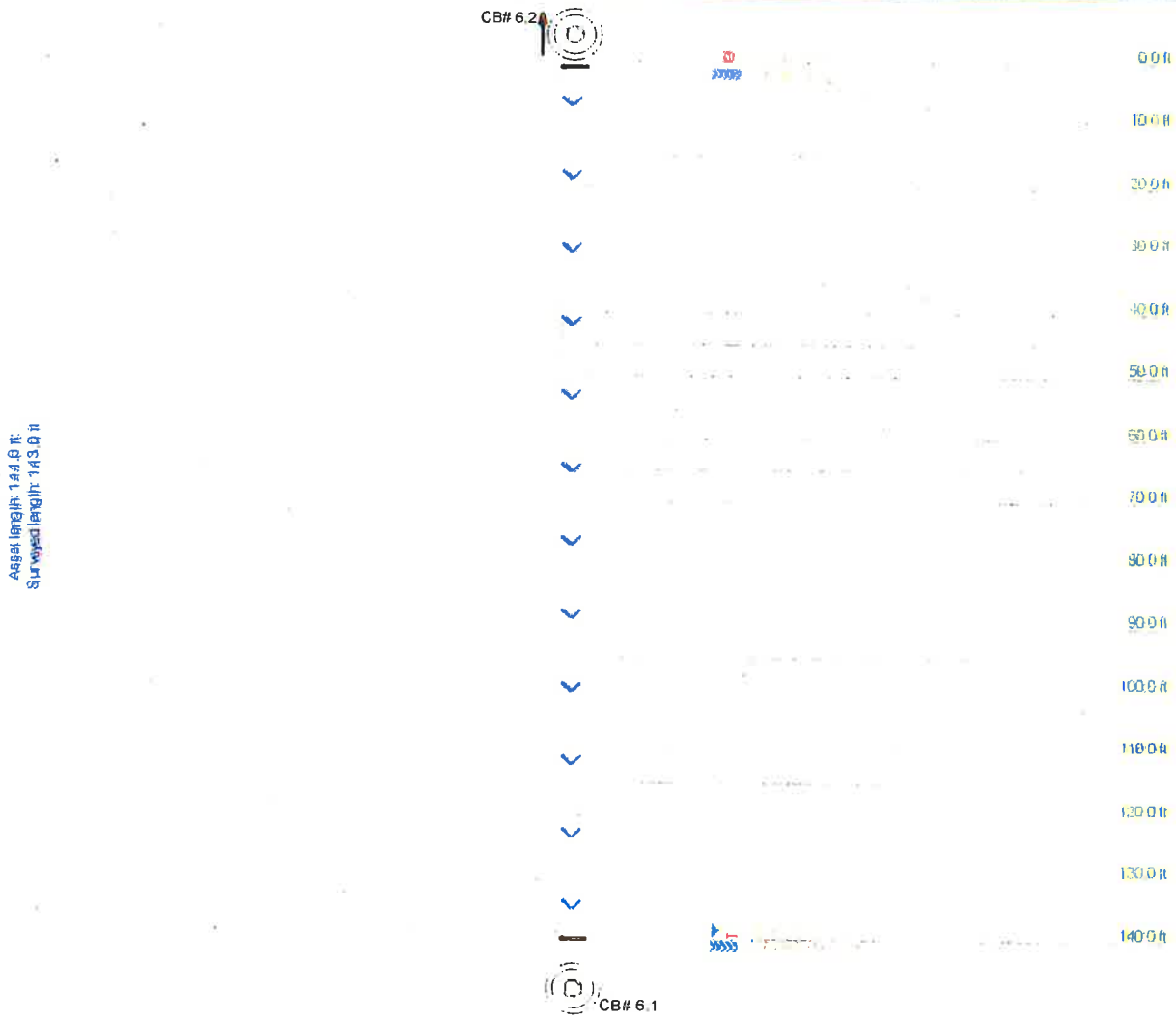
American Pipe Cleaning,LLC
P.O. Box 2043
an, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	143.0	Sunny	Disc #1 6:49



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-6.2	Borough of Mantoloking-A	4/21/2010 2:41:08 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2	CB# 6.1	144.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
143.0		STOP	Yes	/		Camera could not pass debris

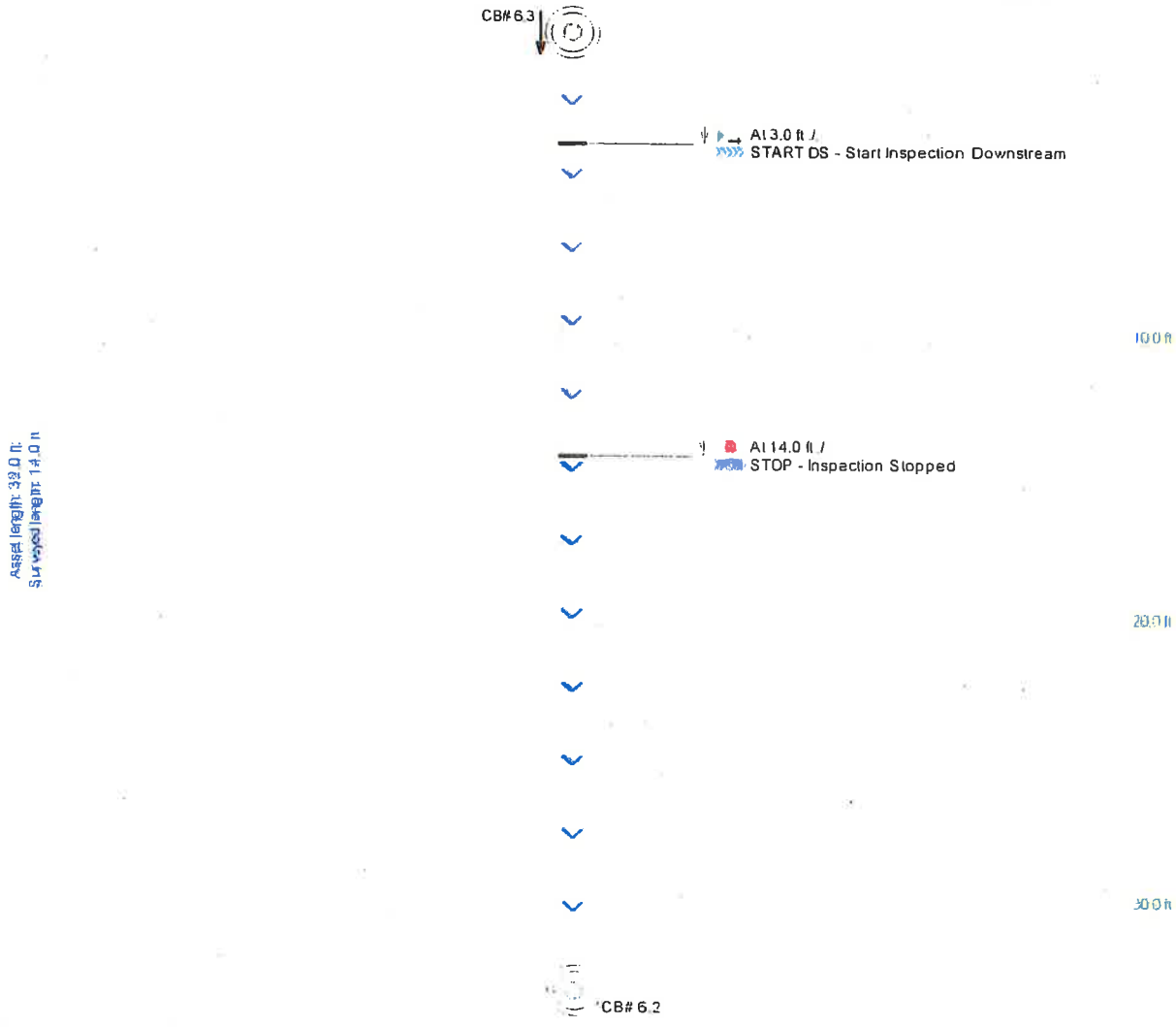
American Pipe Cleaning,LLC
P O. Box 2043
ean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010	0	12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	14.0	Showers	Disc # 1 14:43



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P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.2	Borough of Mantoloking-A	4/21/2010 3:20:57 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.3	CB# 6.2	32.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
14.0		STOP	No	/		Camera could not pass debris

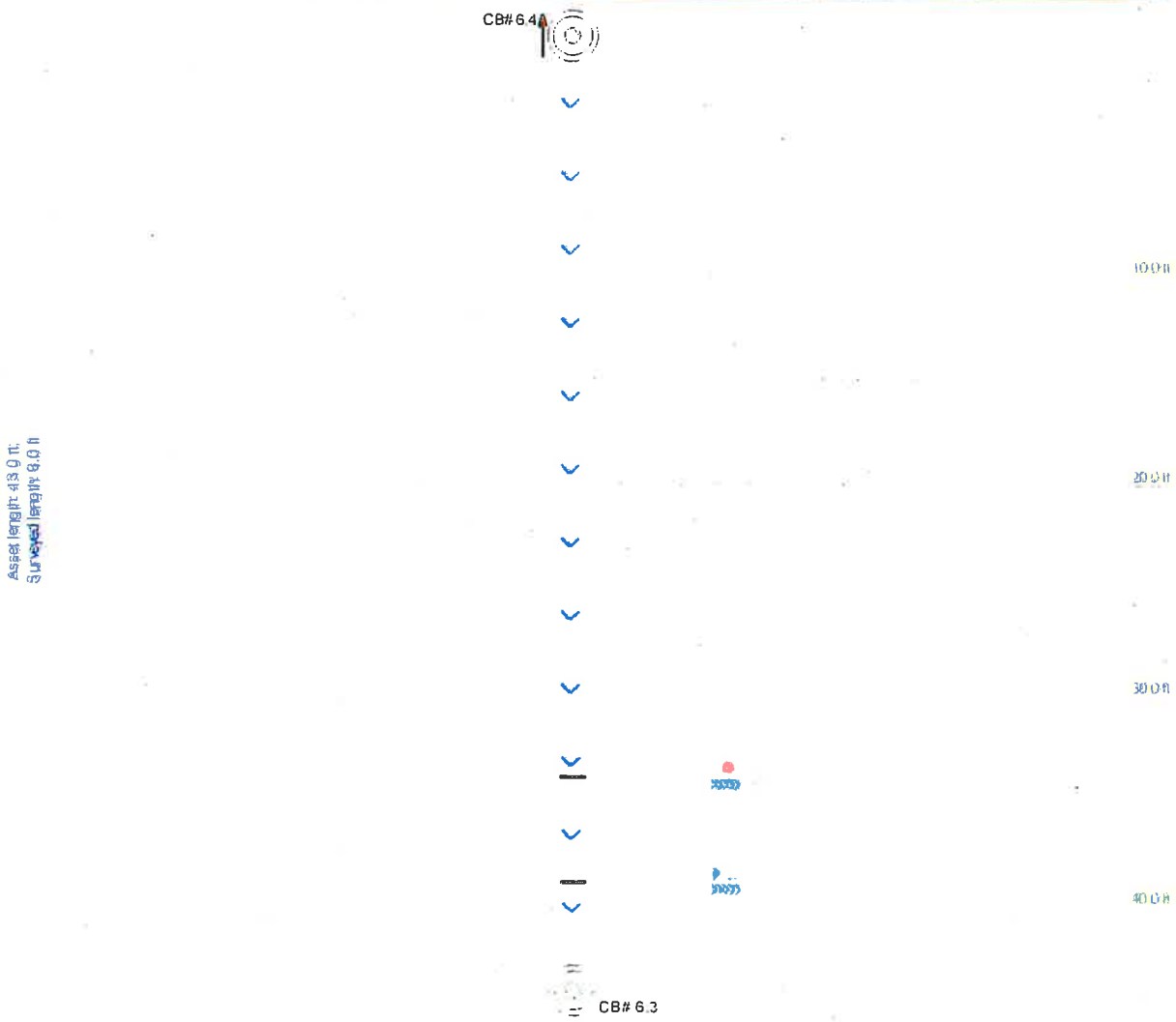
American Pipe Cleaning,LLC
[illegible]. Box 2043
[illegible]an, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.4	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	9.0	Showers	Disc #1 17:43



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.4	Borough of Mantoloking-A	4/21/2010 3:31:17 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.4	CB# 6.3	43.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
9.0		STOP	Yes	/		Camera could not pass debris

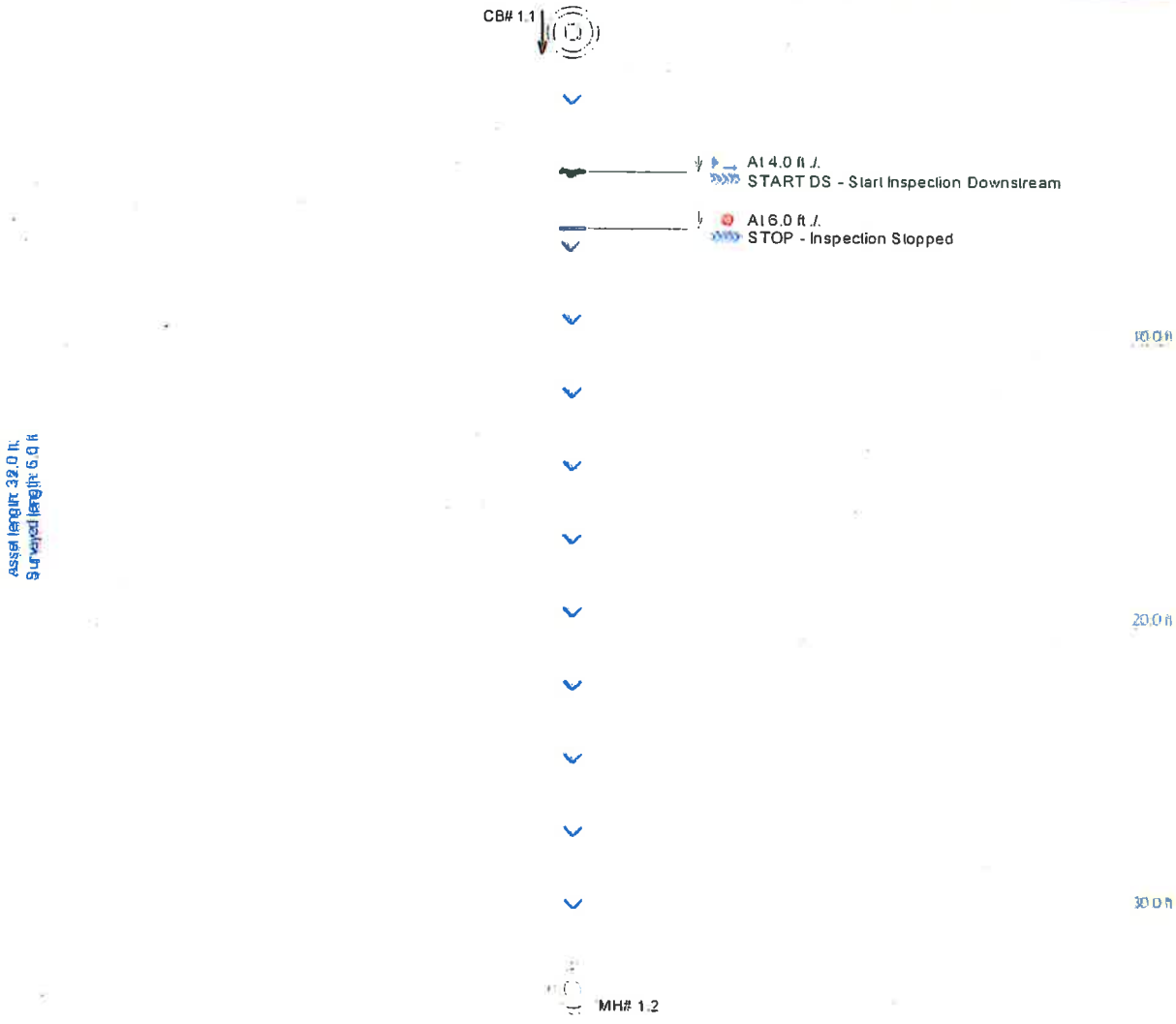
American Pipe Cleaning,LLC
P. O. Box 2043
Manalapan, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.1- MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		16	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	6.0	Showers	Disc #2 19:56



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.1- MH 1.2	Borough of Mantoloking-A	4/21/2010 5:25:24 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.1	MH# 1.2	32.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
6.0		STOP	No	/		Camera could not pass debris

American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.3 - MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		8	Clay Tile	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	42.0	Showers	Disc #1

American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.3 - MH 1.2	Borough of Mantoloking-A	4/21/2010 5:30:04 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.3	MH# 1.2	42.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START DS	No	/		
42.0		STOP	No	/		

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an, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.3 - MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		8	Clay Tile	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	42.0	Light Rain	Disc #1 26.16

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732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.3 - MH 1.2	Borough of Mantoloking-A	4/21/2010 5:48:28 PM	Light Rain	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.3	MH# 1.2	42.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START DS	No	/		
42.0		STOP	No	/		

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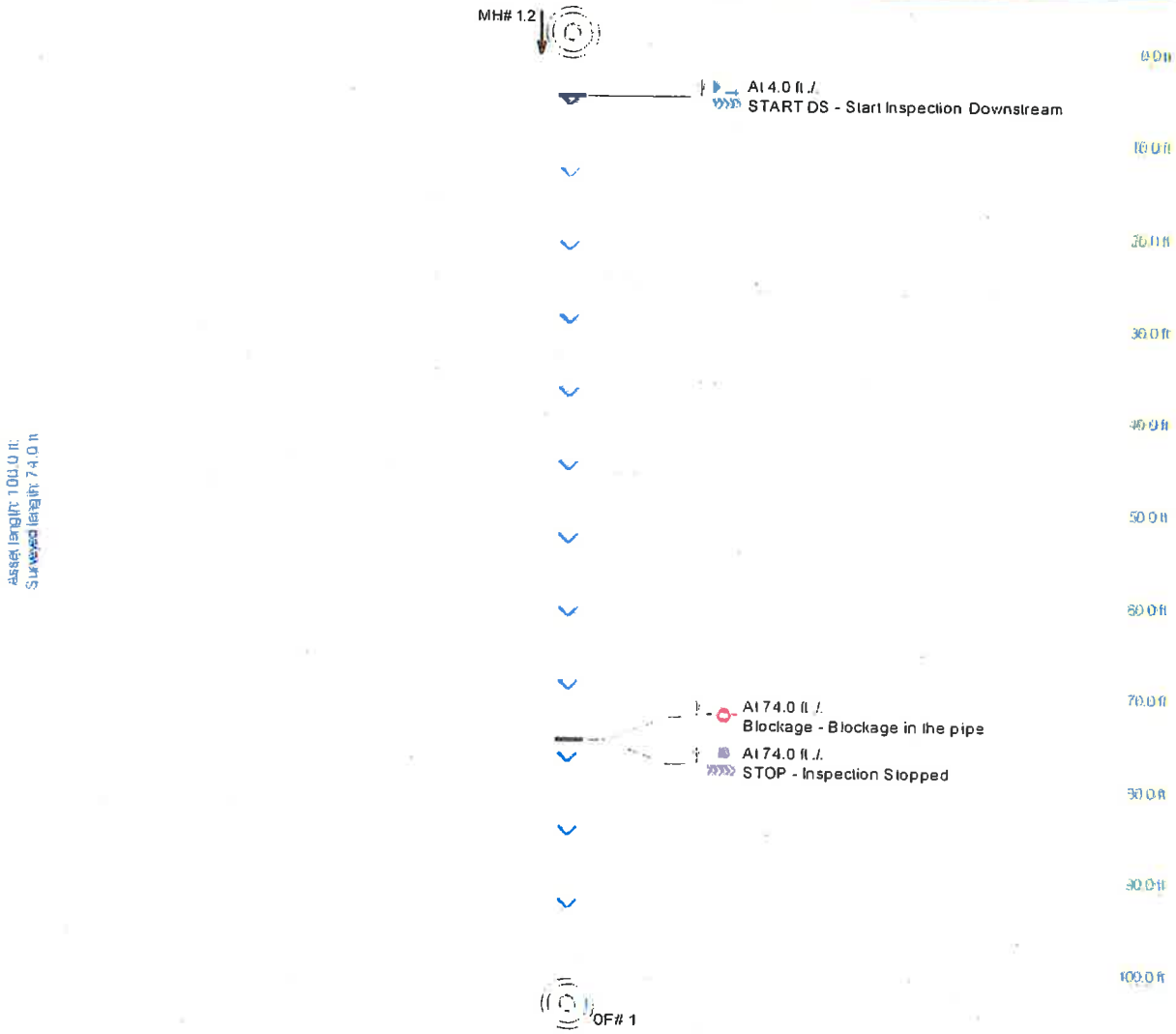
:an, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	MH 1.2-OF 1	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		18	HDPE	Garden

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	74.0	Showers	Disc # 2 29:16



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732-751-0006
732-751-0236 Fax

Observation Report with Still Images

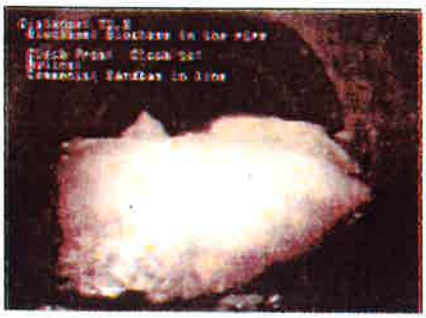
Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 1.2-OF 1	Borough of Mantoloking-A	4/21/2010 6:14:04 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
MH# 1.2	OF# 1	100.0

Comments:
Pre-cleaining inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
74.0		Blockage	No	/		Sandbag in line



74.0		STOP	No	/		Camera cannot pass Sand Bag

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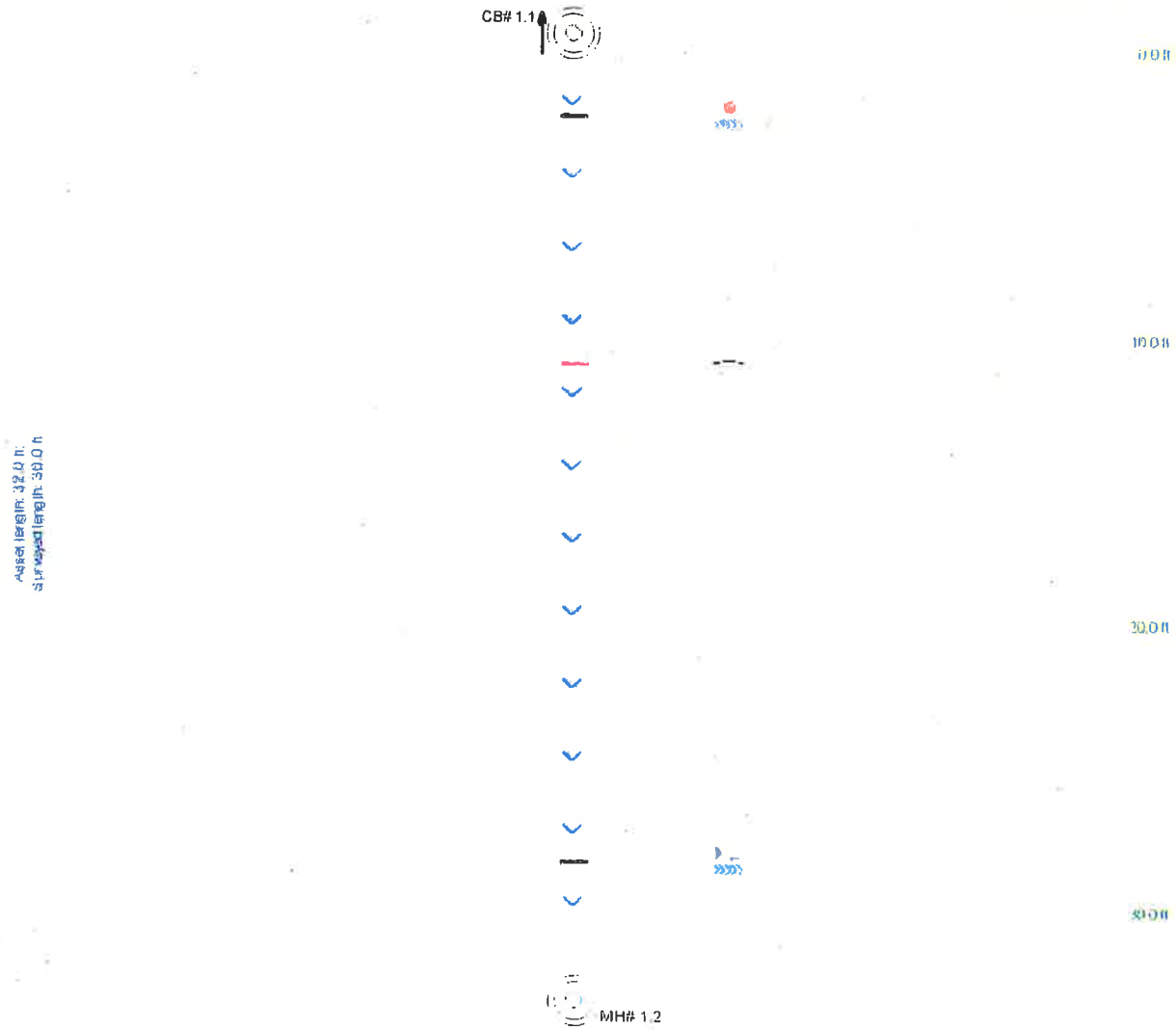
an, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	MH 1.2-CB 1.1	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		16	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	30.0	Showers	Disc #1



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 1.2-CB 1.1	Borough of Mantoloking-A	4/21/2010 6:22:12 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.1	MH# 1.2	32.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START US	Yes	/		
21.4		Joint - Separated	Yes	/		Exposed gasket
30.0		STOP	Yes	/		

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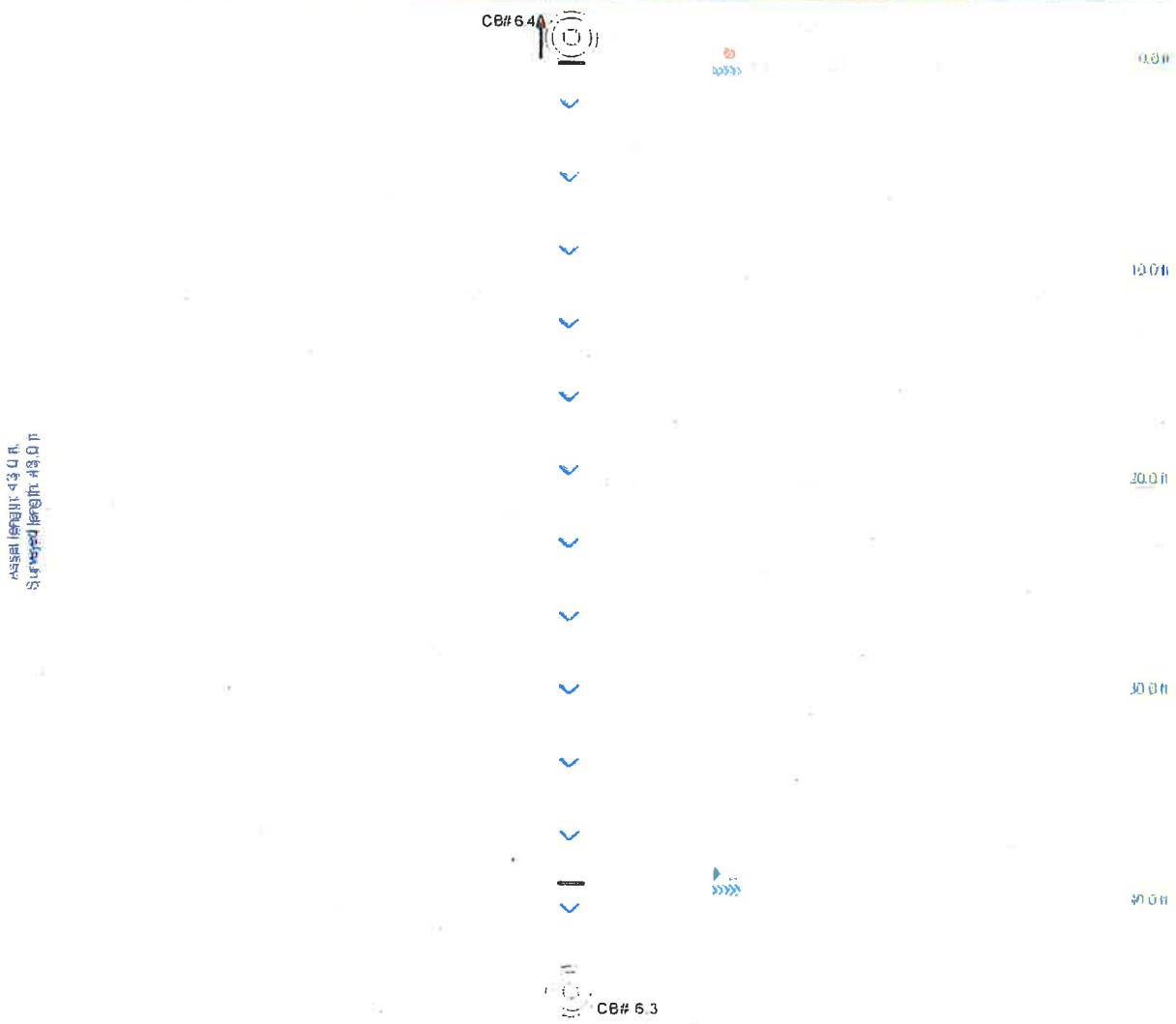
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.4	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	43.0	Sunny	Disc #2 0:00



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P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.4	Borough of Mantoloking-A	4/22/2010 10:32:31 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.4	CB# 6.3	43.0

Comments:
After cleaning - pipe has scaling throughout the entire run

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
43.0		STOP	Yes	/		

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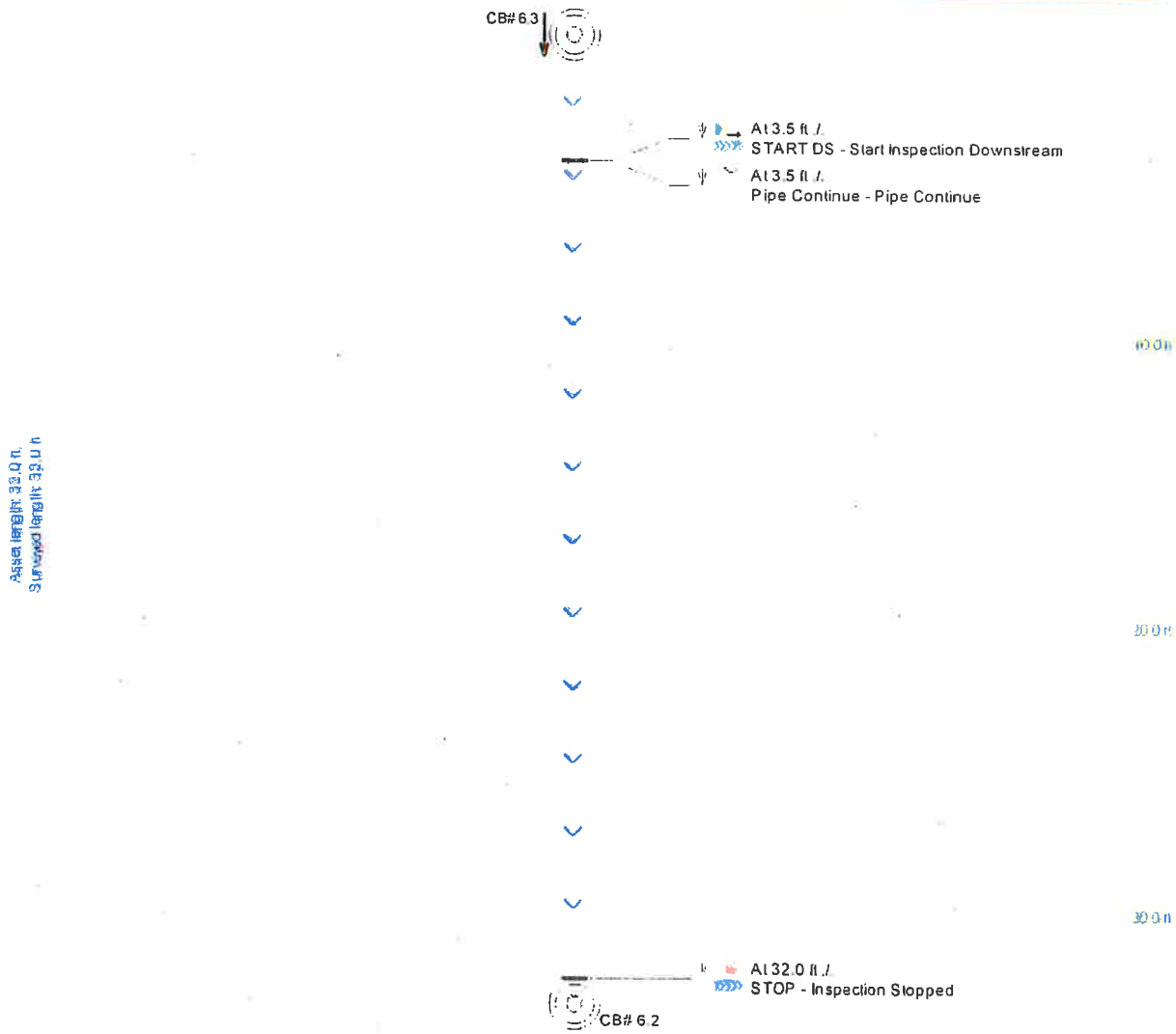
...un, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010	0	12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	32.0	Sunny	Disc #2 5:00



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Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.2	Borough of Mantoloking-A	4/22/2010 10:43:04 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.3	CB# 6.2	32.0

Comments:
After cleaning - pipe has scaling throughout the entire run

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
3.5		START DS	No	/		
3.5		Pipe Continue	No	/		pipe has scaling throughout the entire run
32.0		STOP	No	/		

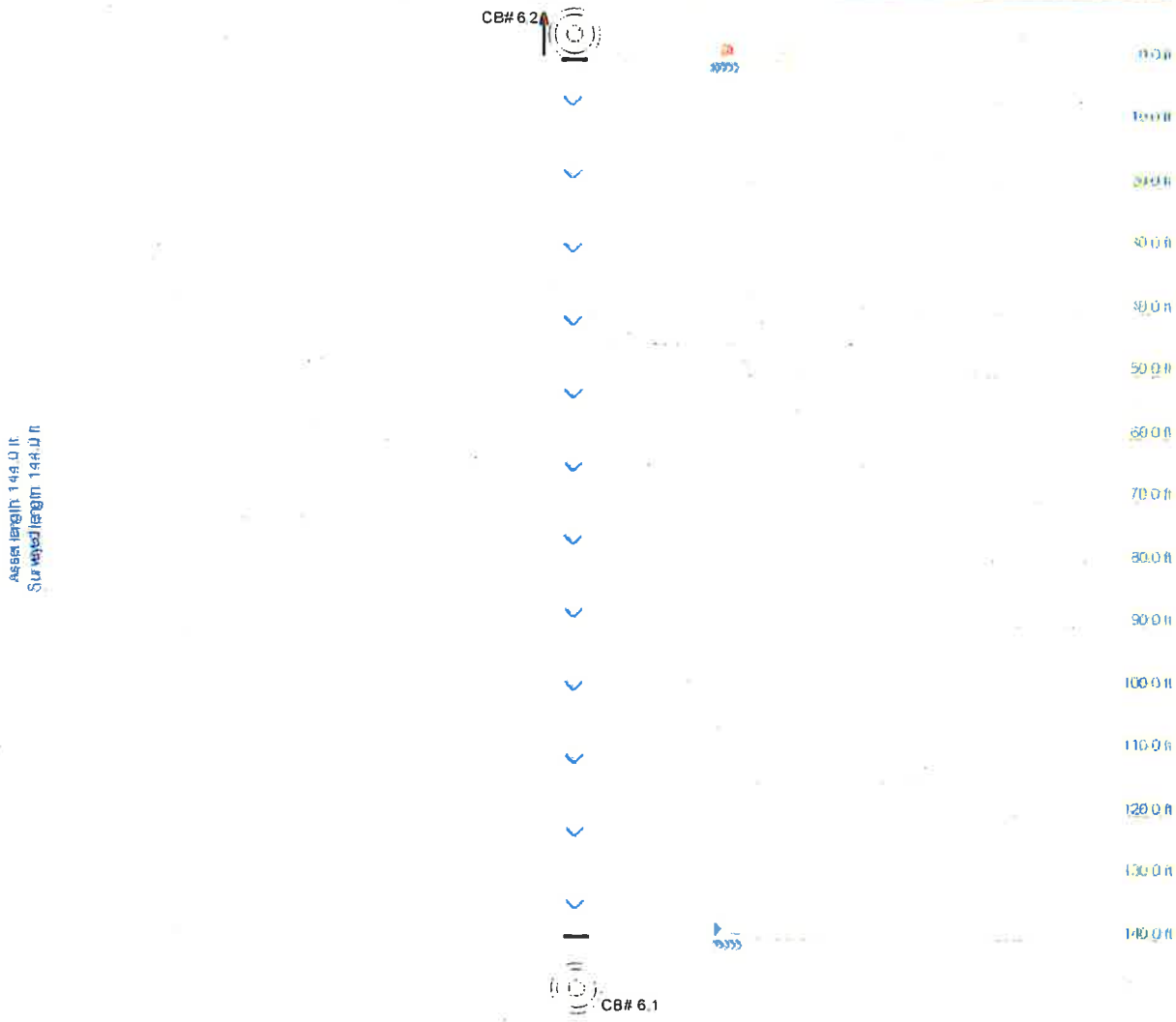
American Pipe Cleaning,LLC
P. O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	144.0	Sunny	Disc #2 8:15



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-6.2	Borough of Mantoloking-A	4/22/2010 11:09:45 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2	CB# 6.1	144.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.2		START US	Yes	/		
144.0		STOP	Yes	/		

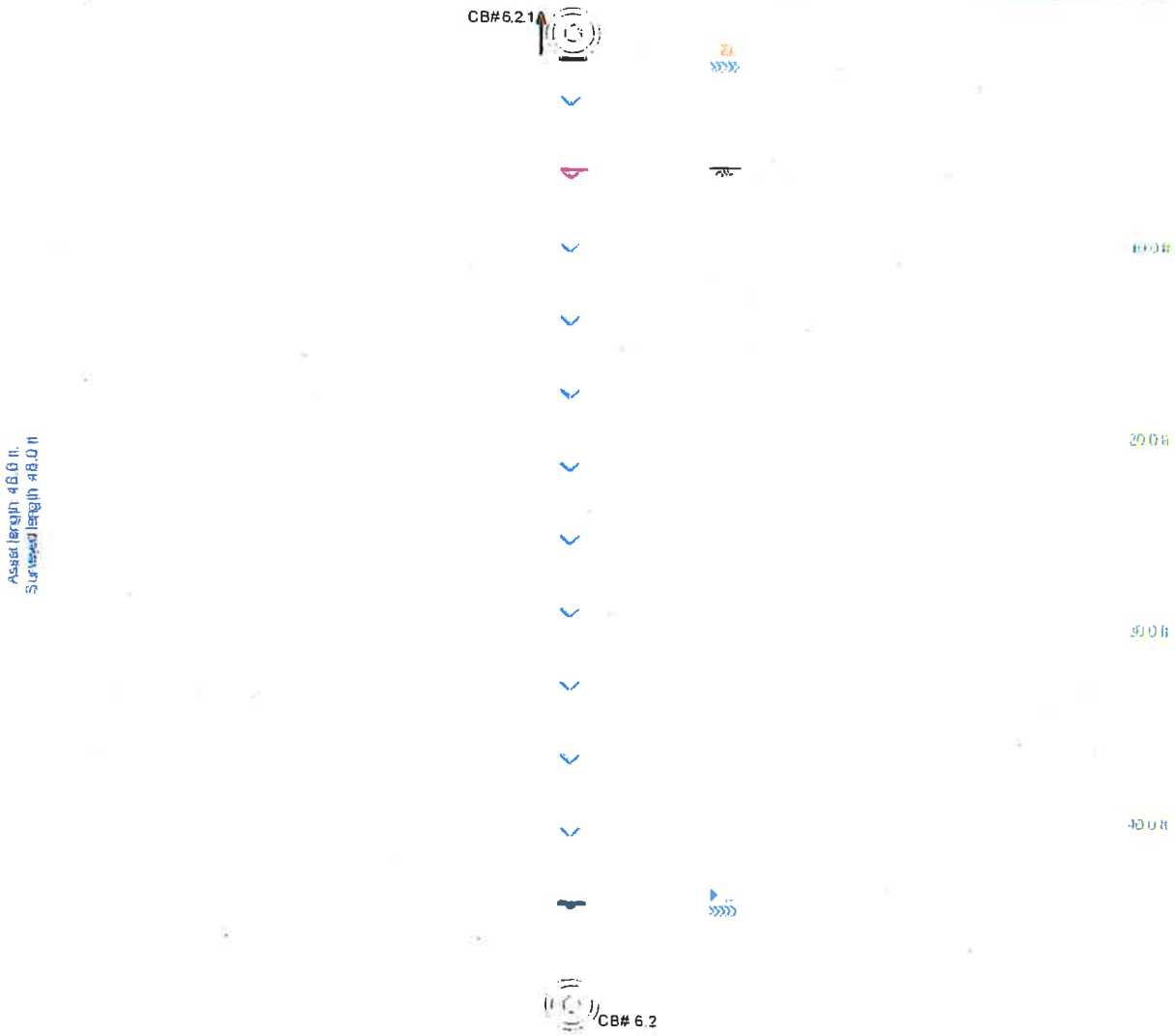
American Pipe Cleaning,LLC
P. O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.2-6.2.1	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	48.0	Sunny	Disc #2 20:42



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.2-6.2.1	Borough of Mantoloking-A	4/22/2010 11:29:43 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2.1	CB# 6.2	48.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START US	Yes	/		
42.3		Deposits	Yes	/		Concrete build up
48.0		STOP	Yes	/		

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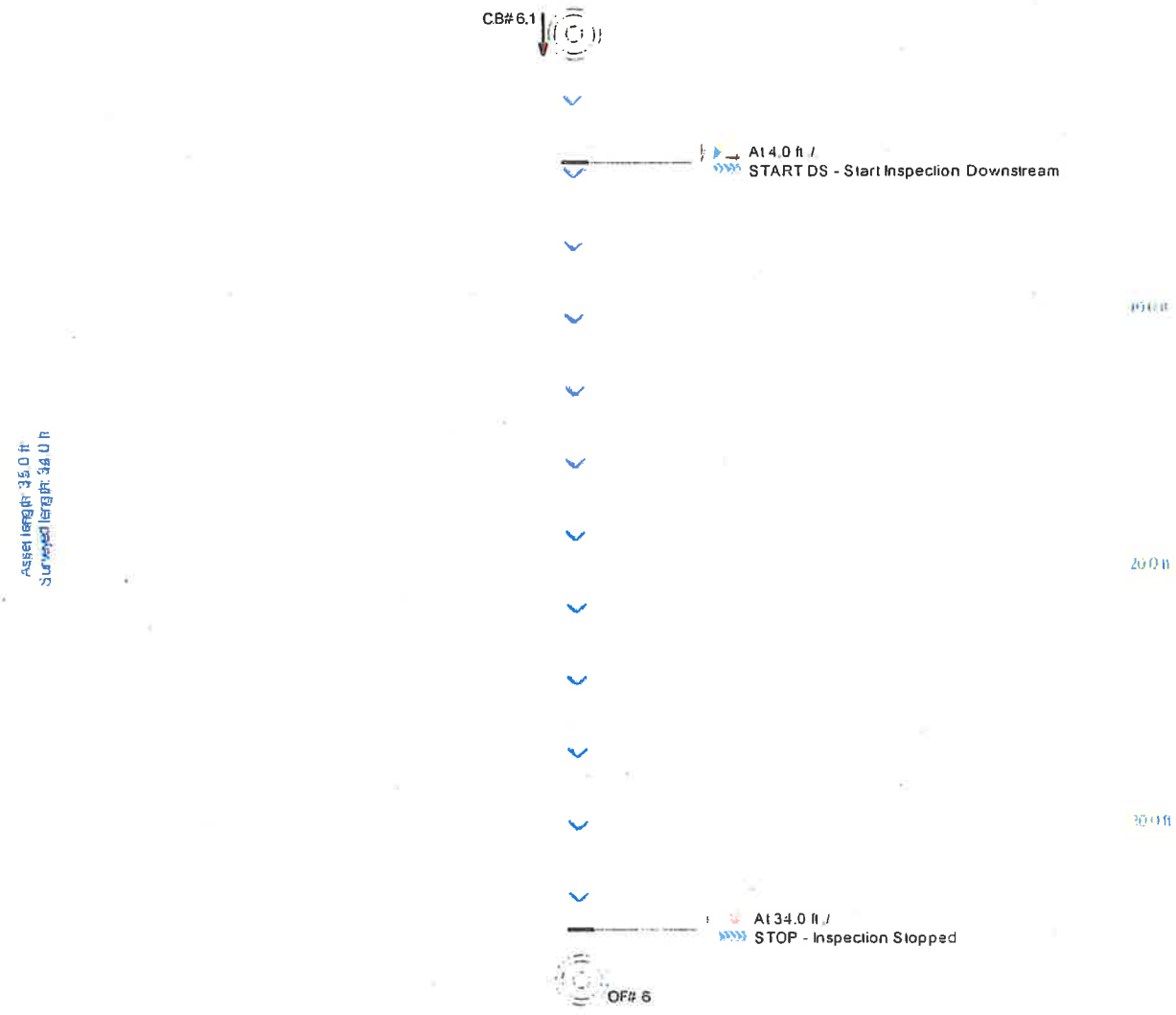
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-OF 6	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	34.0	Sunny	Disc # 2 28:55



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-OF 6	Borough of Mantoloking-A	4/22/2010 11:58:18 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.1	OF# 6	35.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
34.0		STOP	No	/		

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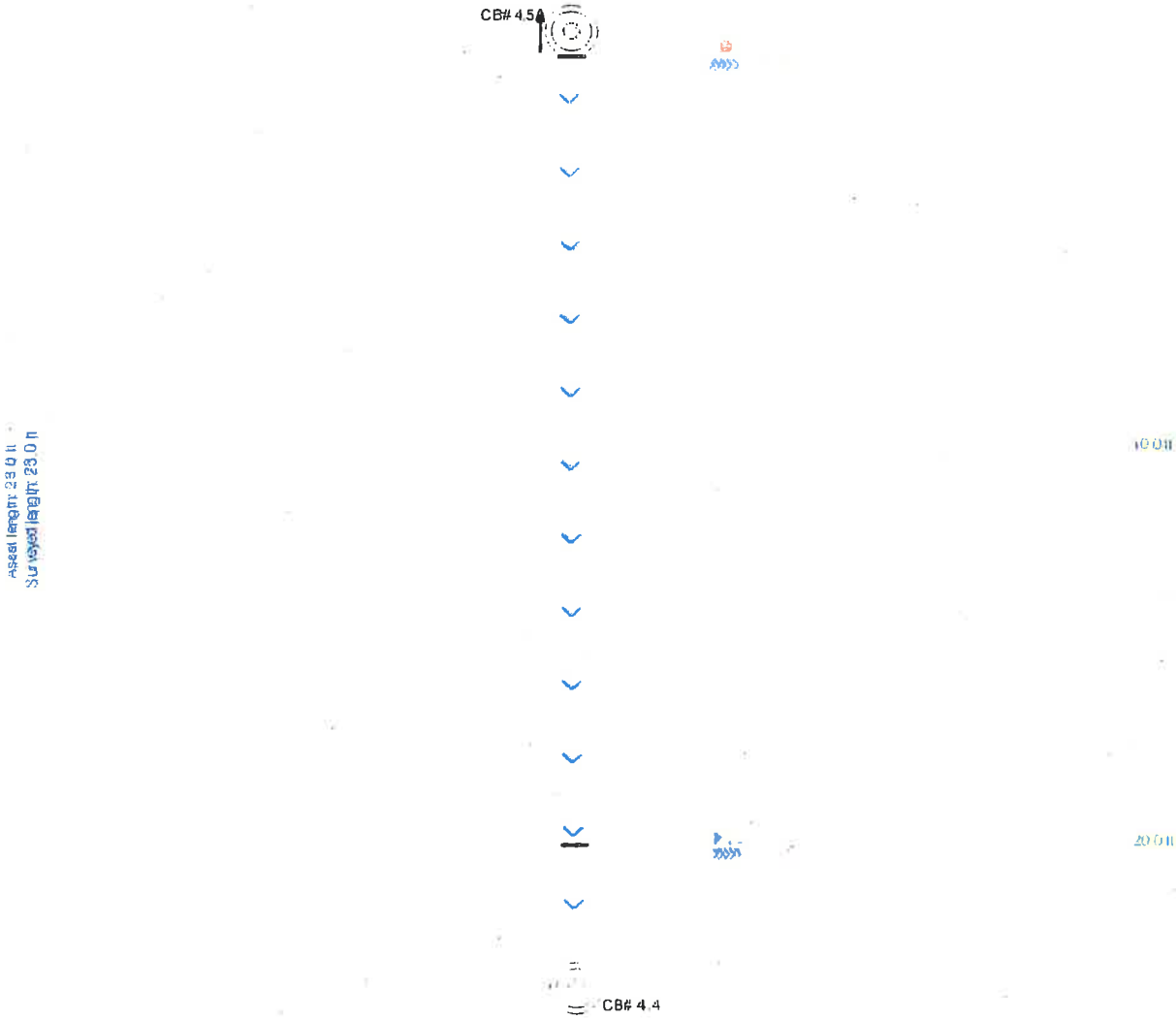
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.5	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc #2 35:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.5	Borough of Mantoloking-A	4/22/2010 1:20:56 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.5	CB# 4.4	23.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reverse Set	Clock Pos	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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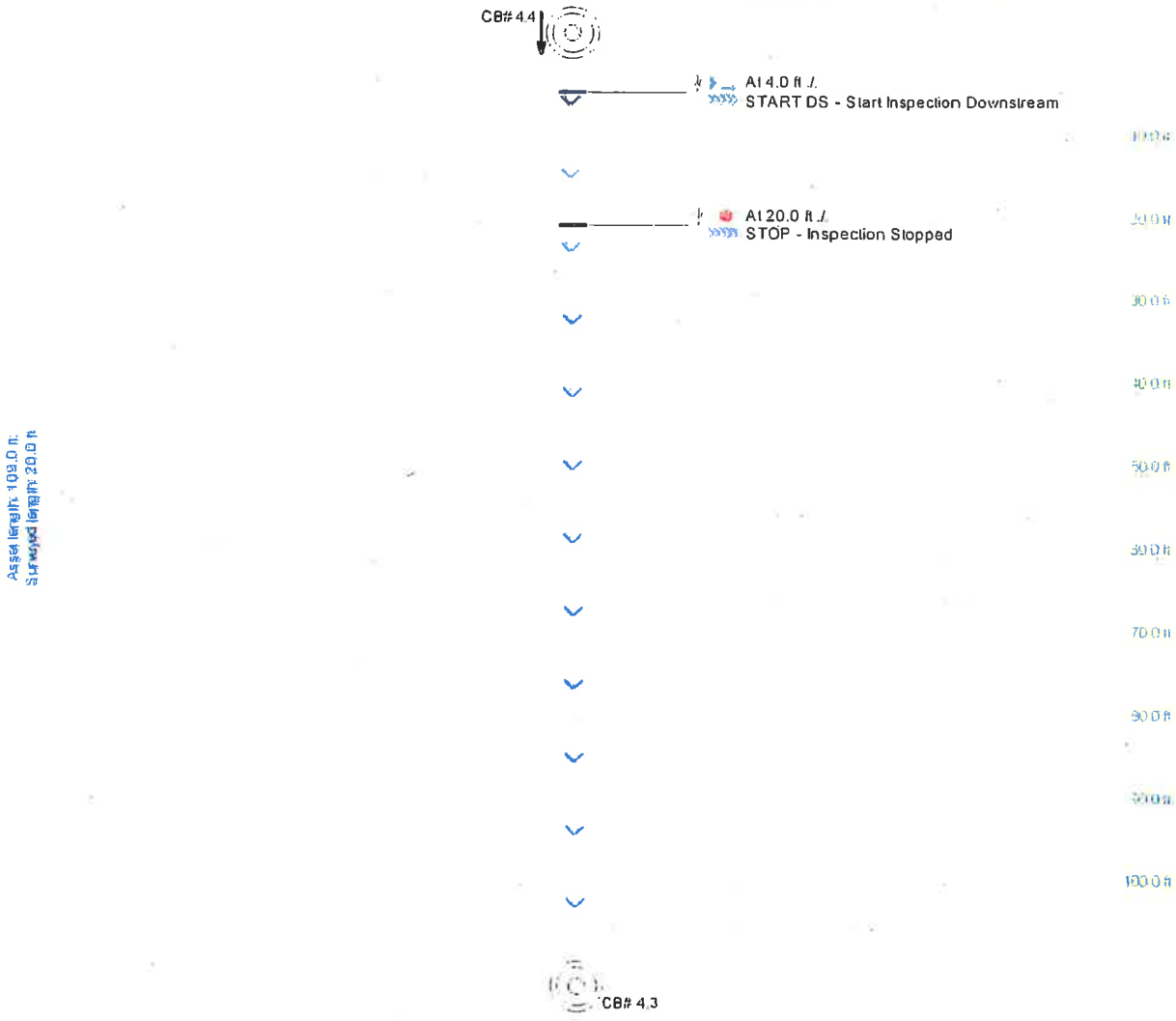
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	20.0	Sunny	Disc #2 42:49



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.3	Borough of Mantoloking-A	4/22/2010 1:38:07 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.4	CB# 4.3	109.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
20.0		STOP	No	/		Camera could not pass debris

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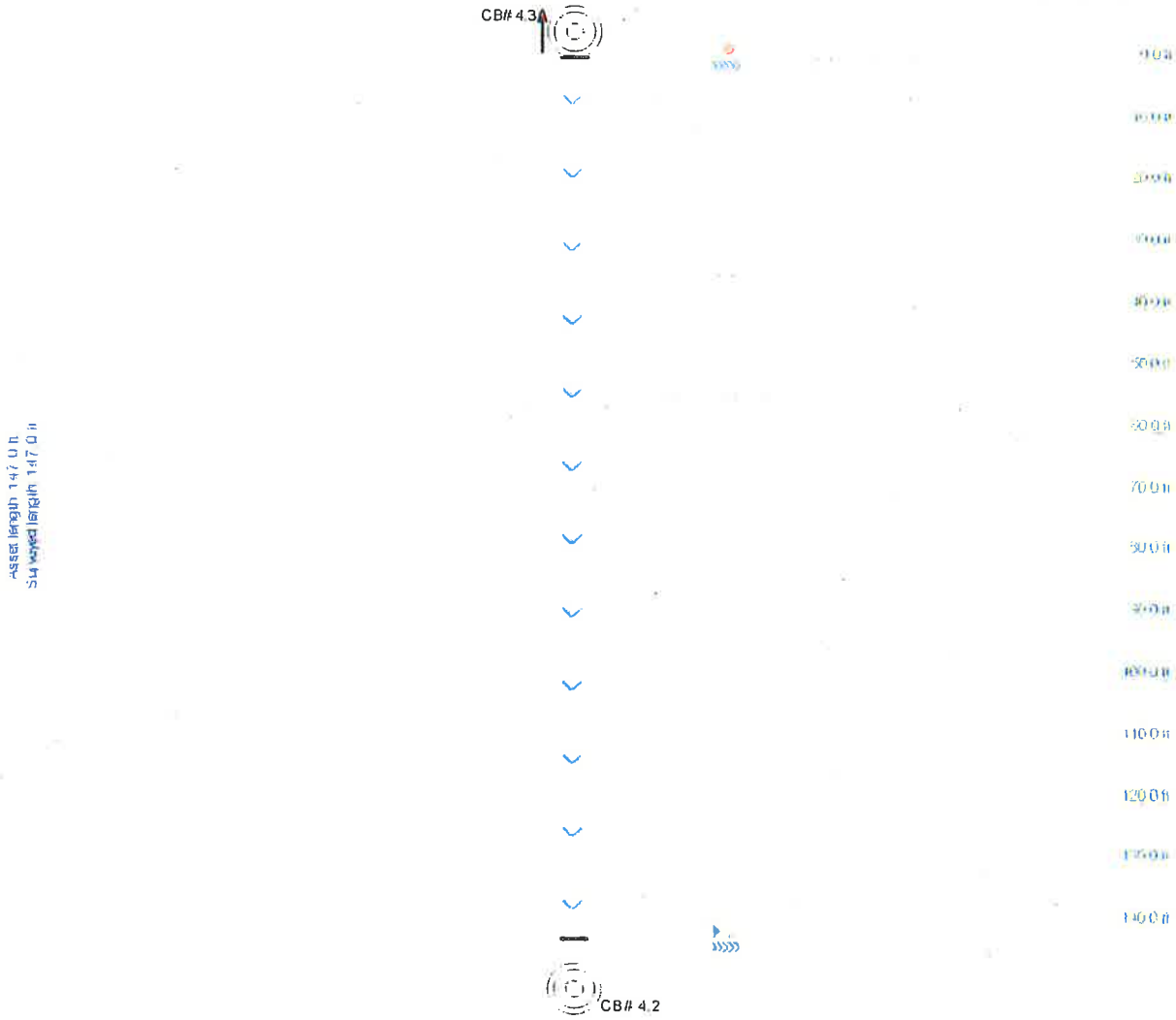
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	147.0	Sunny	Disc #2 57.24



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.3	Borough of Mantoloking-A	4/22/2010 1:59:41 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.2	147.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
147.0		STOP	Yes	/		

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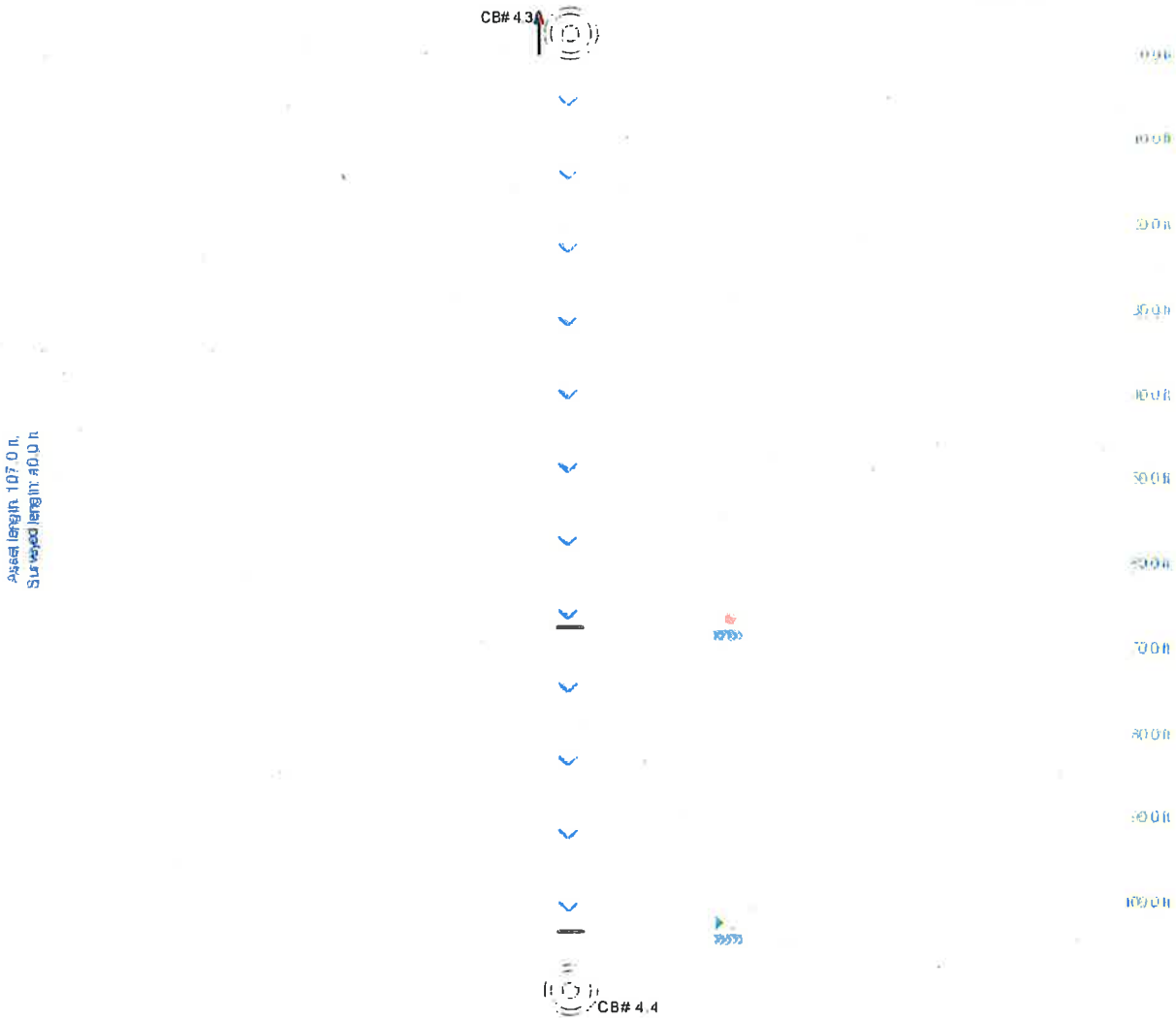
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.3-4.4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	40.0	Sunny	Disc #2



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.3-4.4	Borough of Mantoloking-A	4/22/2010 2:16:14 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.4	107.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START US	Yes	/		
40.0		STOP	Yes	/		Camera cannot pass debris

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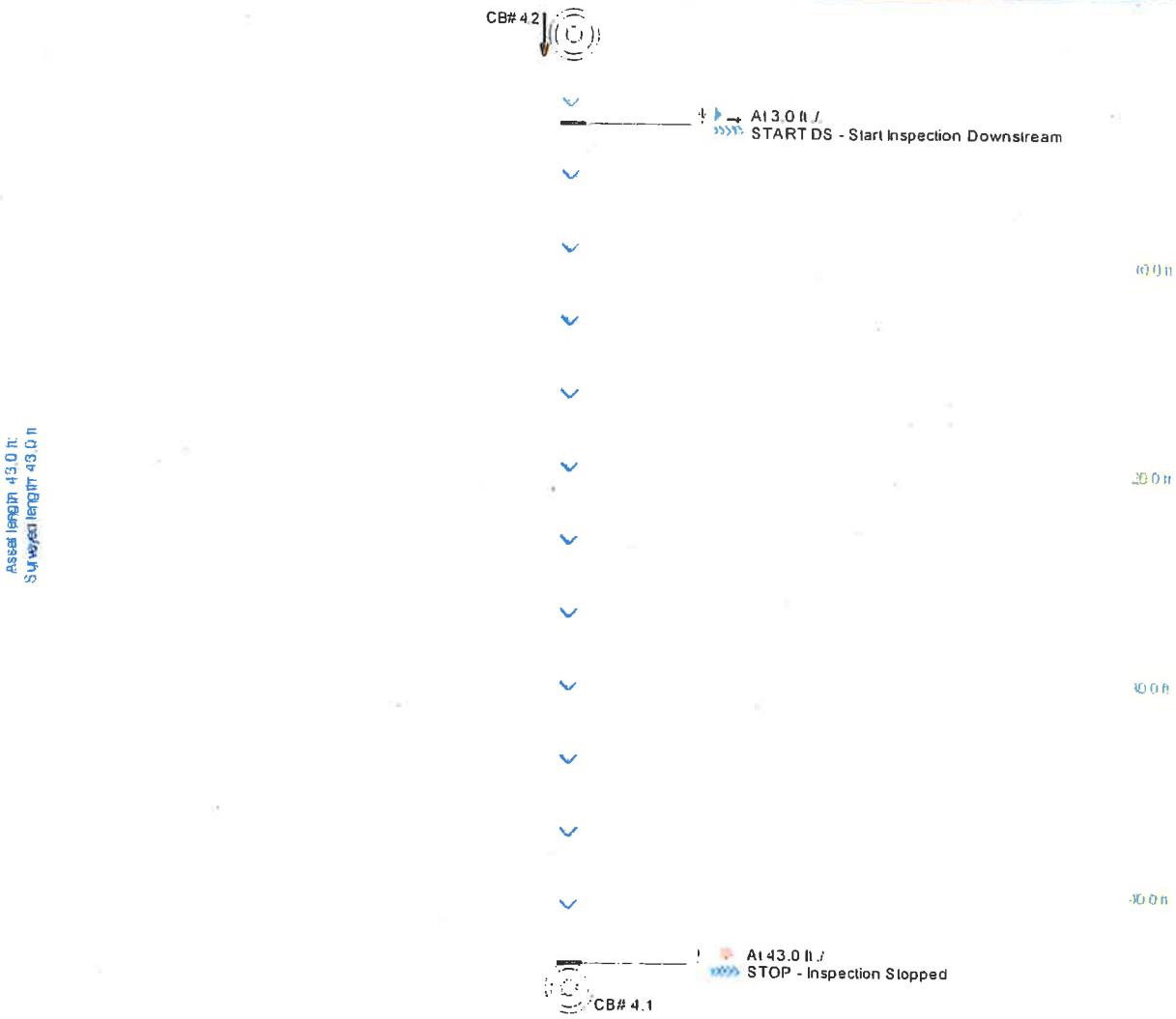
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	43.0	Sunny	Disc #2 1:01:49



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.1	Borough of Mantoloking-A	4/22/2010 2:32:42 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.2	CB# 4.1	43.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
43.0		STOP	No	/		

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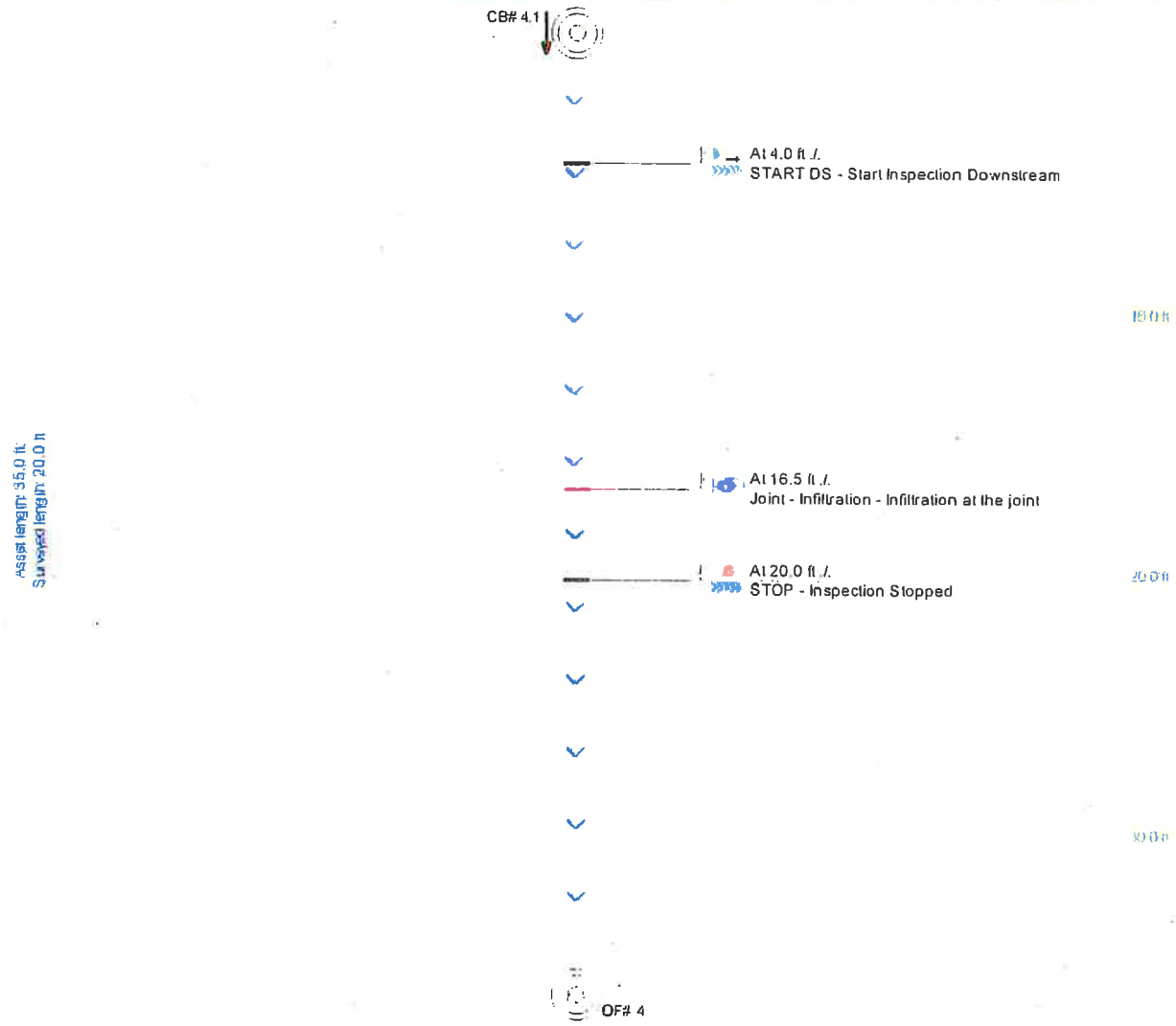
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.1-OF 4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	20.0	Sunny	Disc #2 1:09:23



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Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.1-OF 4	Borough of Mantoloking-A	4/22/2010 2:58:26 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.1	OF# 4	35.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
16.5		Joint - Infiltration	No	/		
20.0		STOP	No	/		Camera cannot pass debris

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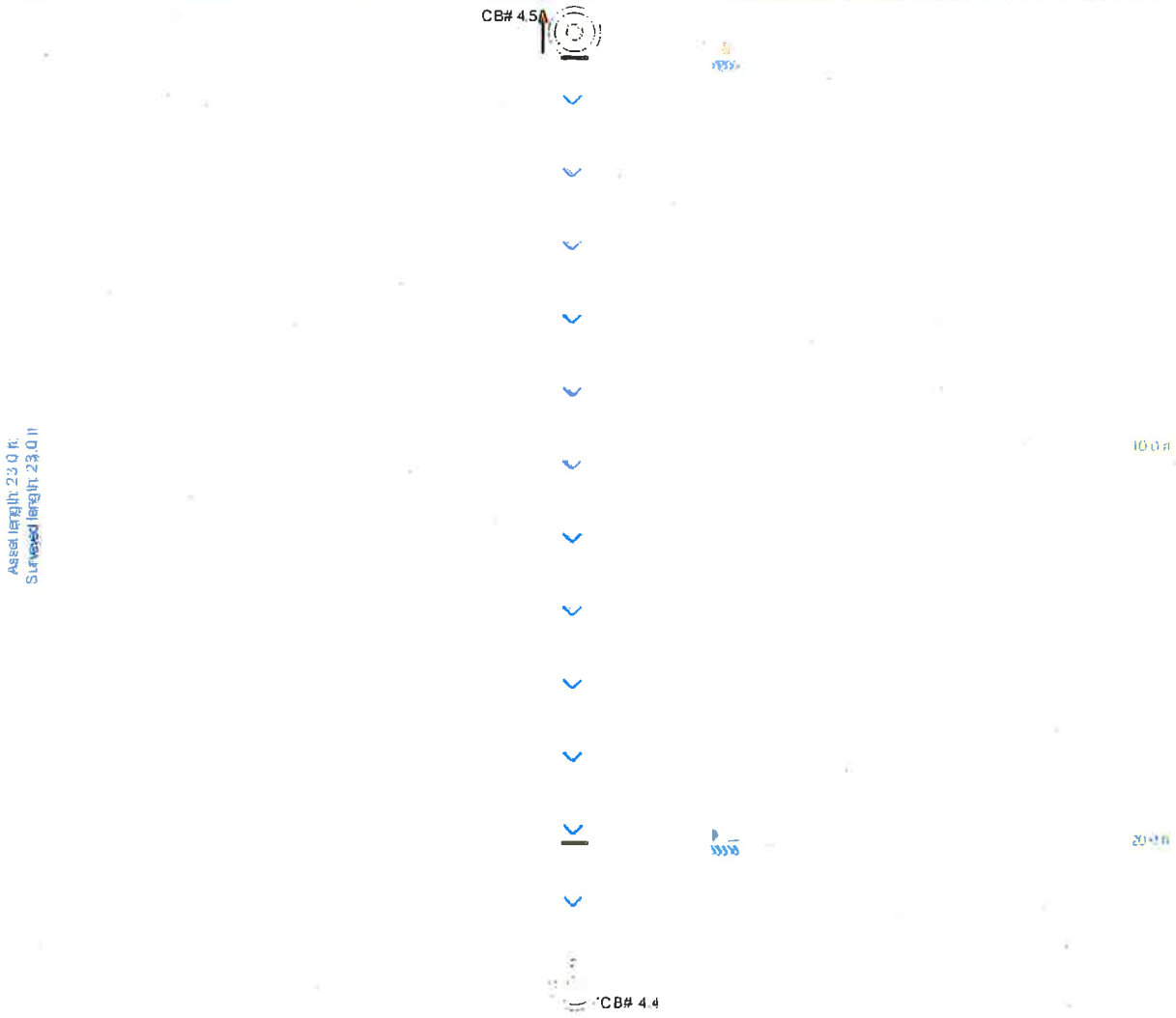
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.5	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc #2 1:12:43



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.5	Borough of Mantoloking-A	4/22/2010 3:22:39 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.5	CB# 4.4	23.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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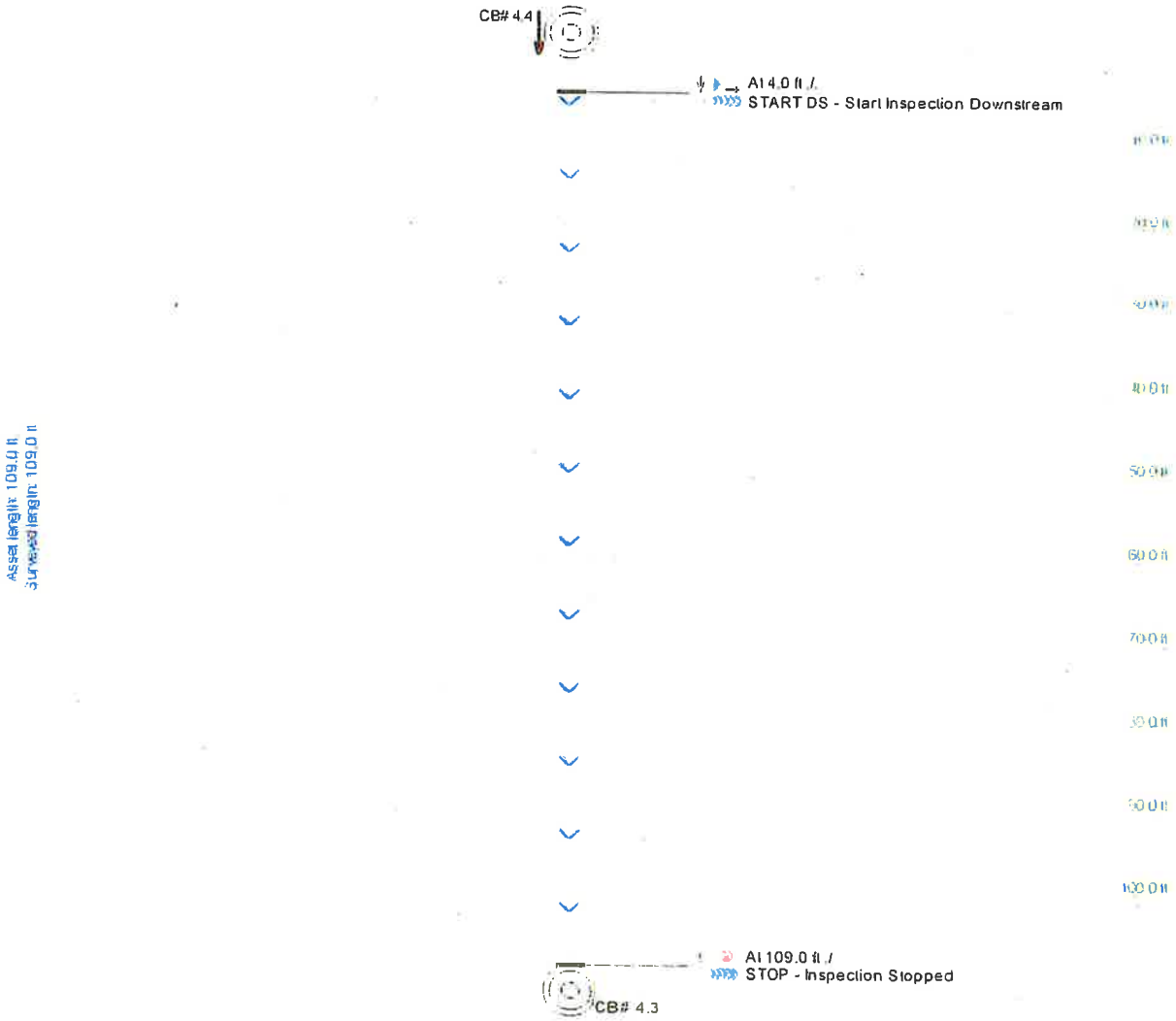
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	109.0	Sunny	Disc #2 1:18:42



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.3	Borough of Mantoloking-A	4/22/2010 3:34:48 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.4	CB# 4.3	109.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
109.0		STOP	No	/		

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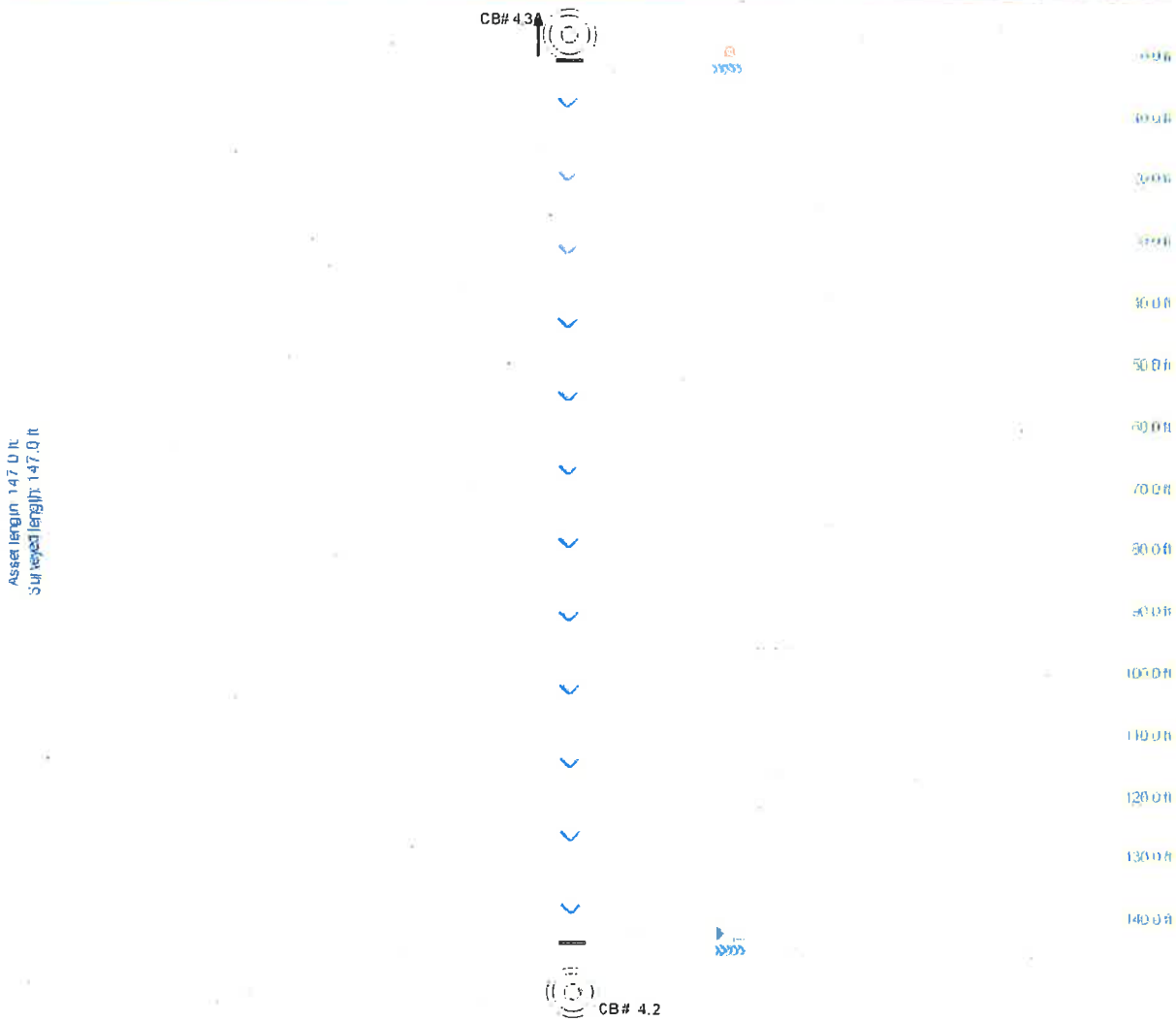
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	147.0	Sunny	Disc #2 1:27:52



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.3	Borough of Mantoloking-A	4/22/2010 4:04:43 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.2	147.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START US	Yes	/		
147.0		STOP	Yes	/		

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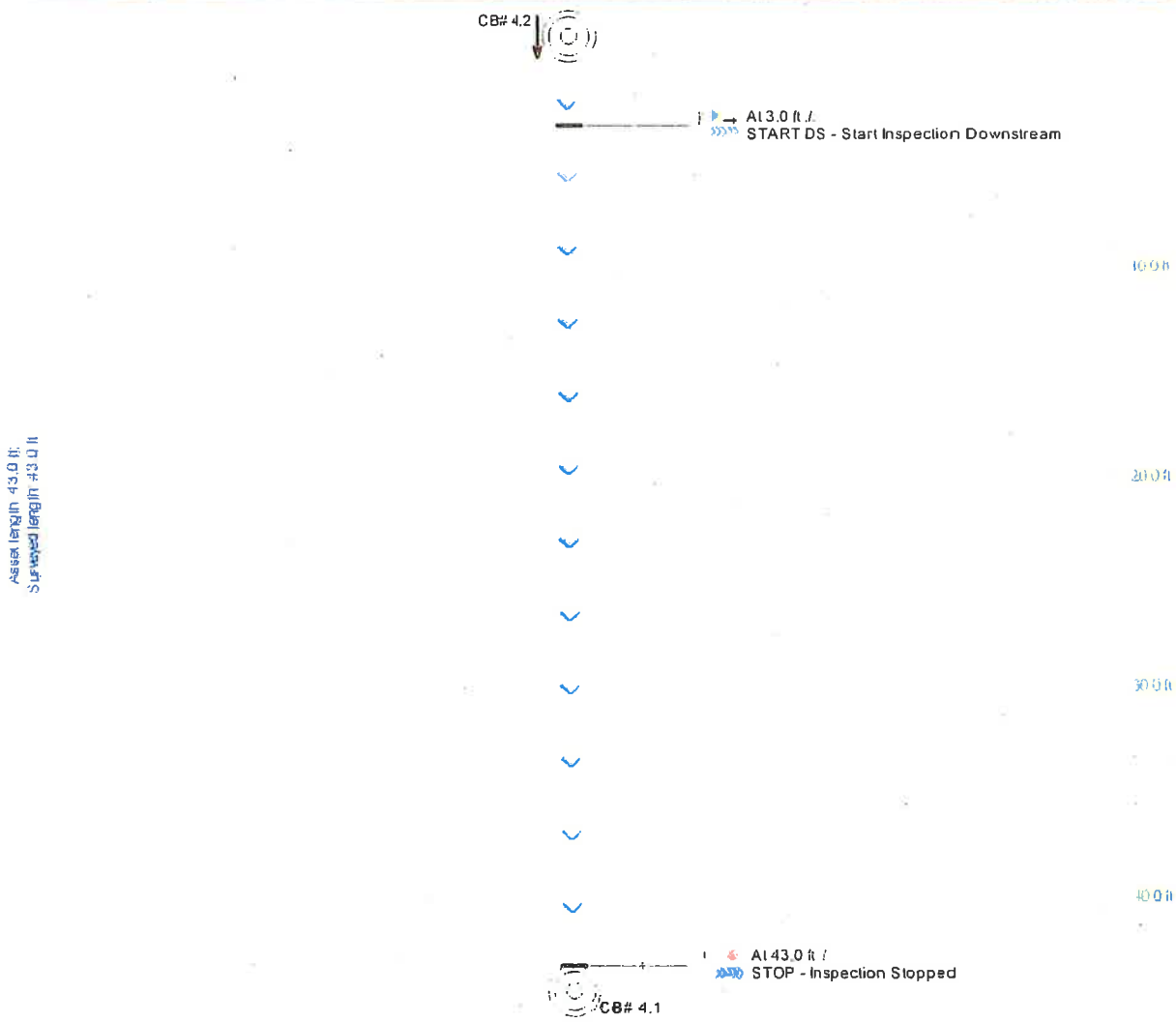
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	43.0	Sunny	Disc#2 1:36:14



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.1	Borough of Mantoloking-A	4/22/2010 4:19:02 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.2	CB# 4.1	43.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
3.0		START DS	No	/		
43.0		STOP	No	/		

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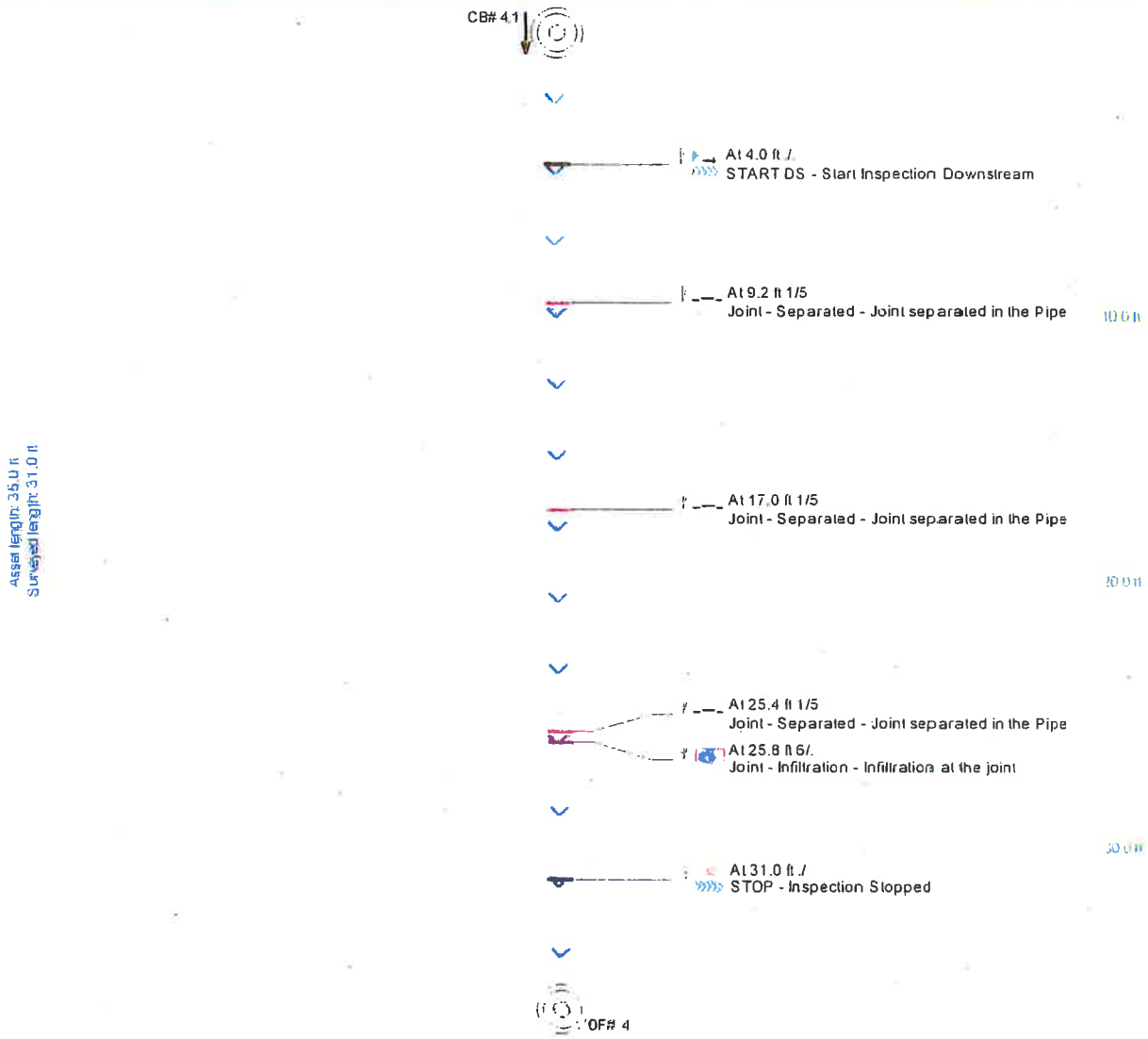
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.1-OF 4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	31.0	Sunny	Disc #2 1:41:35



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.1-OF 4	Borough of Mantoloking-A	4/22/2010 4:26:51 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.1	OF# 4	35.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Cont. Pos.	Severity	Comment	Ex.
4.0		START DS	No	/			
9.2		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint	
17.0		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint - infiltration seen on pre-cleaning inspection	
25.4		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint	
25.8		Joint - Infiltration	No	6 /			
31.0		STOP	No	/			

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Project Summary

Borough of Mantoloking-A

Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
6.1-OF 6	4/21/2010	Bergen Ave.- Location 12	CB# 6.1	OF# 6	RCP	35.0	28.0
6.1-6.2	4/21/2010	Bergen Ave.- Location 12	CB# 6.1	CB# 6.2	DIP	144.0	143.0
6.3-6.2	4/21/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.2	DIP	32.0	14.0
6.3-6.4	4/21/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.4	DIP	43.0	9.0
1.1- MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.1	MH# 1.2	DIP	32.0	6.0
1.3 - MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.3	MH# 1.2	Clay Tile	42.0	42.0
1.3 - MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.3	MH# 1.2	Clay Tile	42.0	42.0
1.2-OF 1	4/21/2010	Channel Lane - Location 14	MH# 1.2	OF# 1	HDPE	100.0	74.0
1.2-CB 1.1	4/21/2010	Channel Lane - Location 14	MH# 1.2	CB# 1.1	DIP	32.0	30.0
5.3-6.4	4/22/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.4	DIP	43.0	43.0

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Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
6.3-6.2	4/22/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.2	DIP	32.0	32.0
6.1-6.2	4/22/2010	Bergen Ave.- Location 12	CB# 6.1	CB# 6.2	DIP	144.0	144.0
6.2-6.2.1	4/22/2010	Bergen Ave.- Location 12	CB# 6.2	CB# 6.2.1	DIP	48.0	48.0
6.1-OF 6	4/22/2010	Bergen Ave.- Location 12	CB# 6.1	OF# 6	RCP	35.0	34.0
4.4-4.5	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.5	DIP	23.0	23.0
4.4-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	109.0	20.0
4.2-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.3	DIP	147.0	147.0
4.3-4.4	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	107.0	40.0
4.2-4.1	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.1	DIP	43.0	43.0
4.1-OF 4	4/22/2010	Lagoon Lane - Location 10	CB# 4.1	OF# 4	RCP	35.0	20.0
4.4-4.5	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.5	DIP	23.0	23.0
4.4-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	109.0	109.0

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Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
4.2-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.3	DIP	147.0	147.0
4.2-4.1	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.1	DIP	43.0	43.0
4.1-OF 4	4/22/2010	Lagoon Lane - Location 10	CB# 4.1	OF# 4	RCP	35.0	31.0
umber of inspections:	25				**Subtotal**	**1,625.0 ft**	**1,335.0 ft**
					Total	**1,625.0 ft**	**1,335.0 ft**

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Borough of Mantoloking

DVD/Video Report

May 11, 2010

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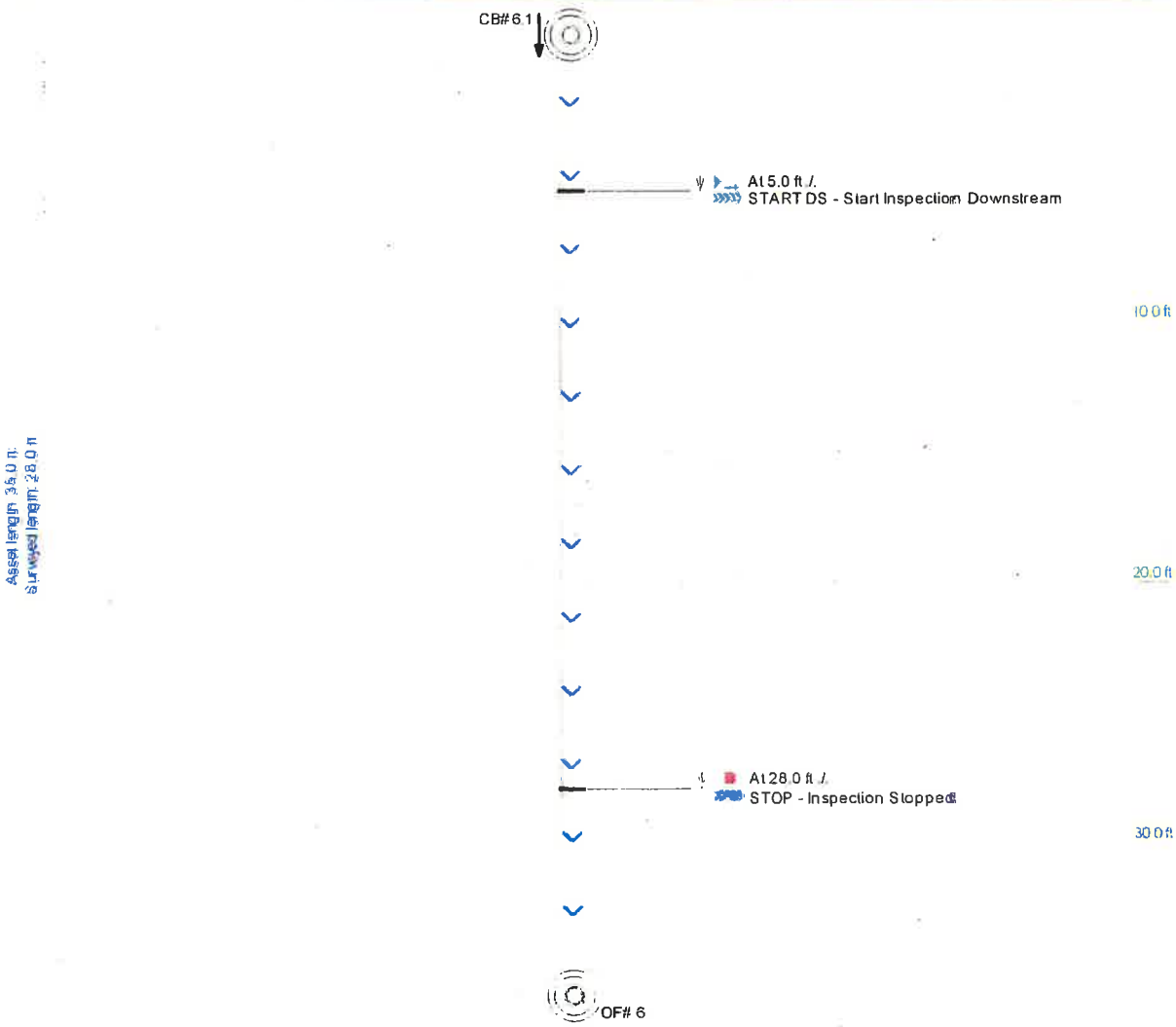
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-OF 6	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	28.0	Sunny	Disc #1 0:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-OF 6	Borough of Mantoloking-A	4/21/2010 2:24:59 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.1	OF# 6	35.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
5.0		START DS	No	/		
28.0		STOP	No	/		Camera could not pass debris

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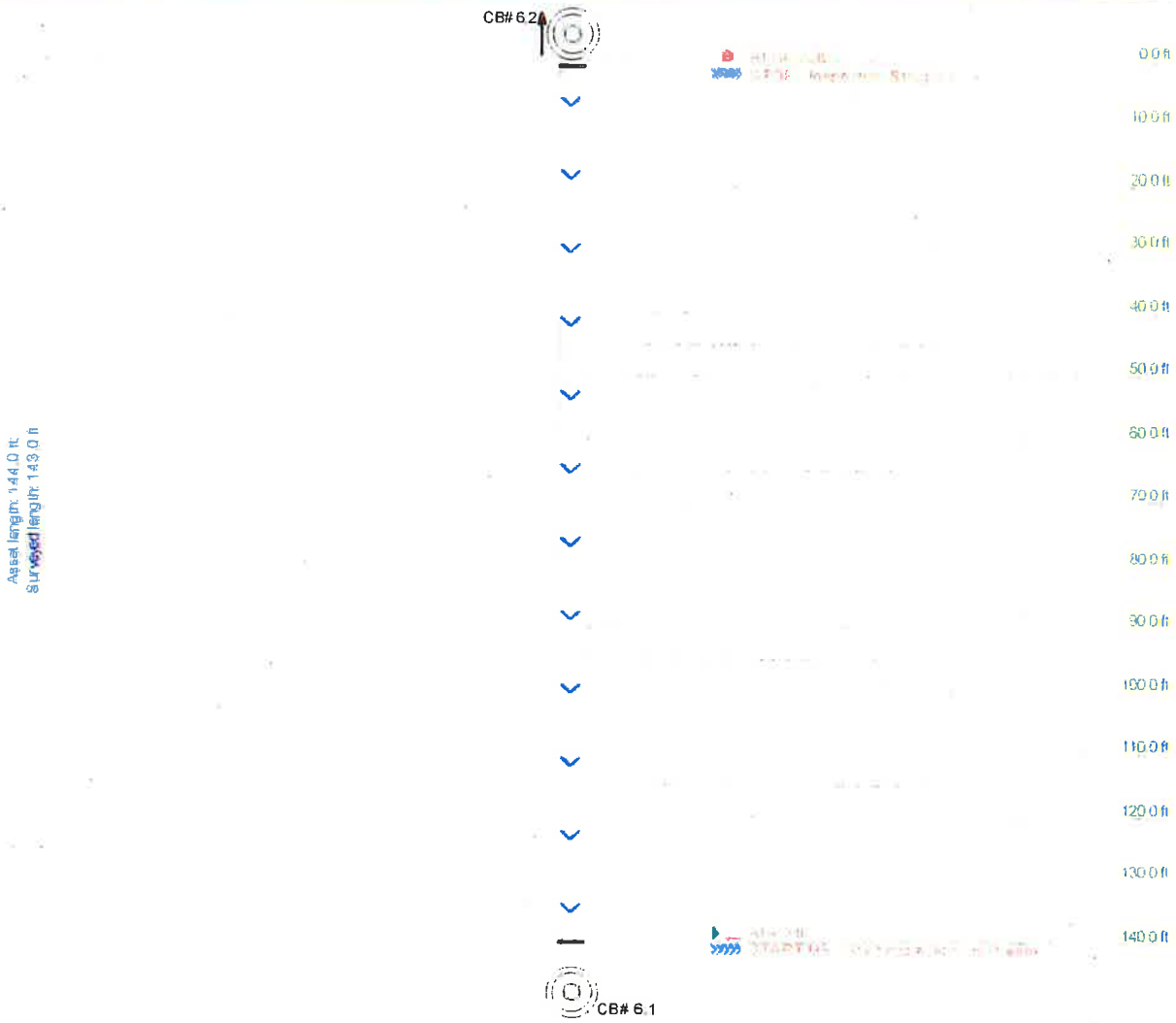
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	143.0	Sunny	Disc #1 6:49



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-6.2	Borough of Mantoloking-A	4/21/2010 2:41:08 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2	CB# 6.1	144.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
143.0		STOP	Yes	/		Camera could not pass debris

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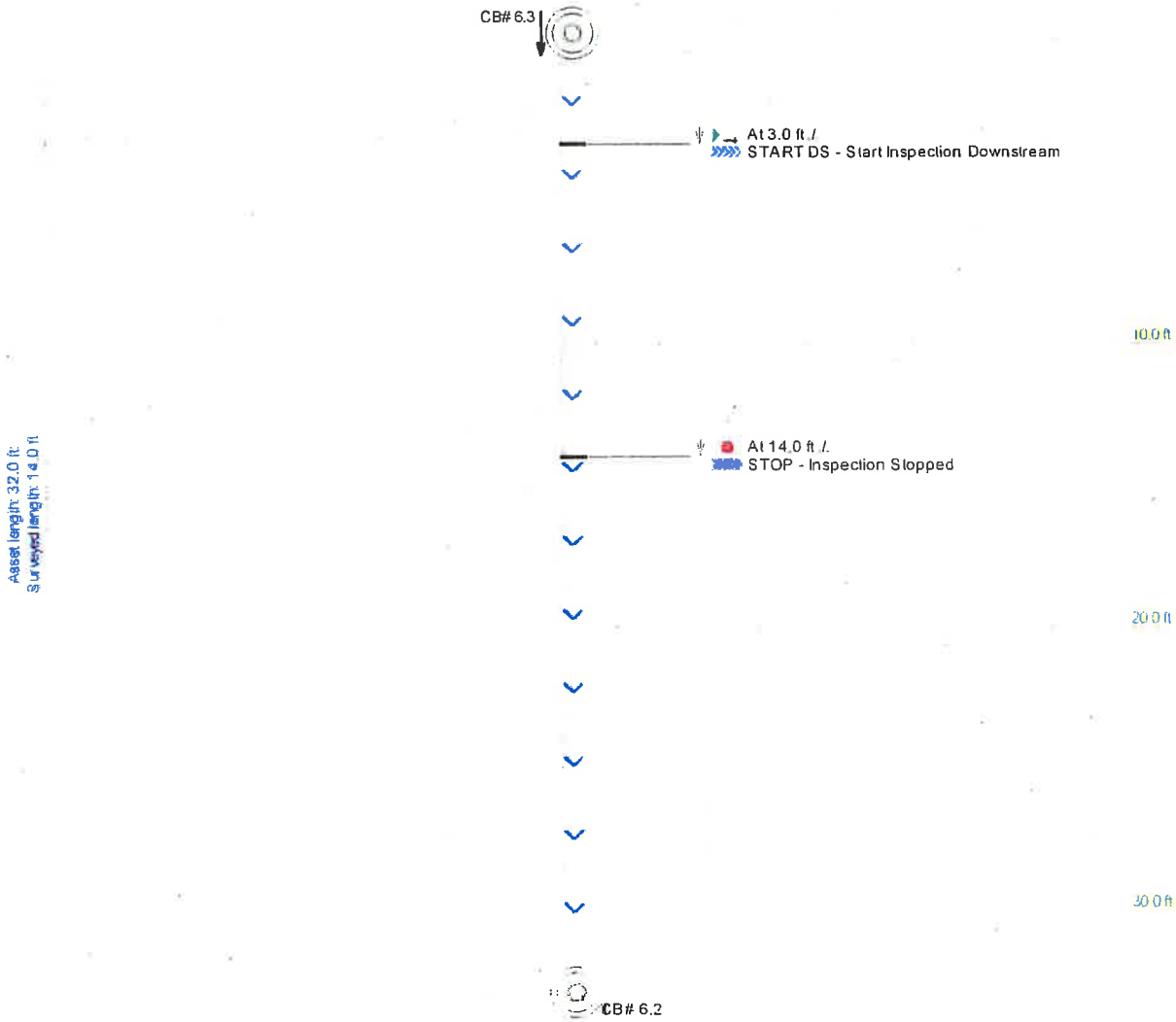
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010	0	12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	14.0	Showers	Disc # 1 14:43



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.2	Borough of Mantoloking-A	4/21/2010 3:20:57 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.3	CB# 6.2	32.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
14.0		STOP	No	/		Camera could not pass debris

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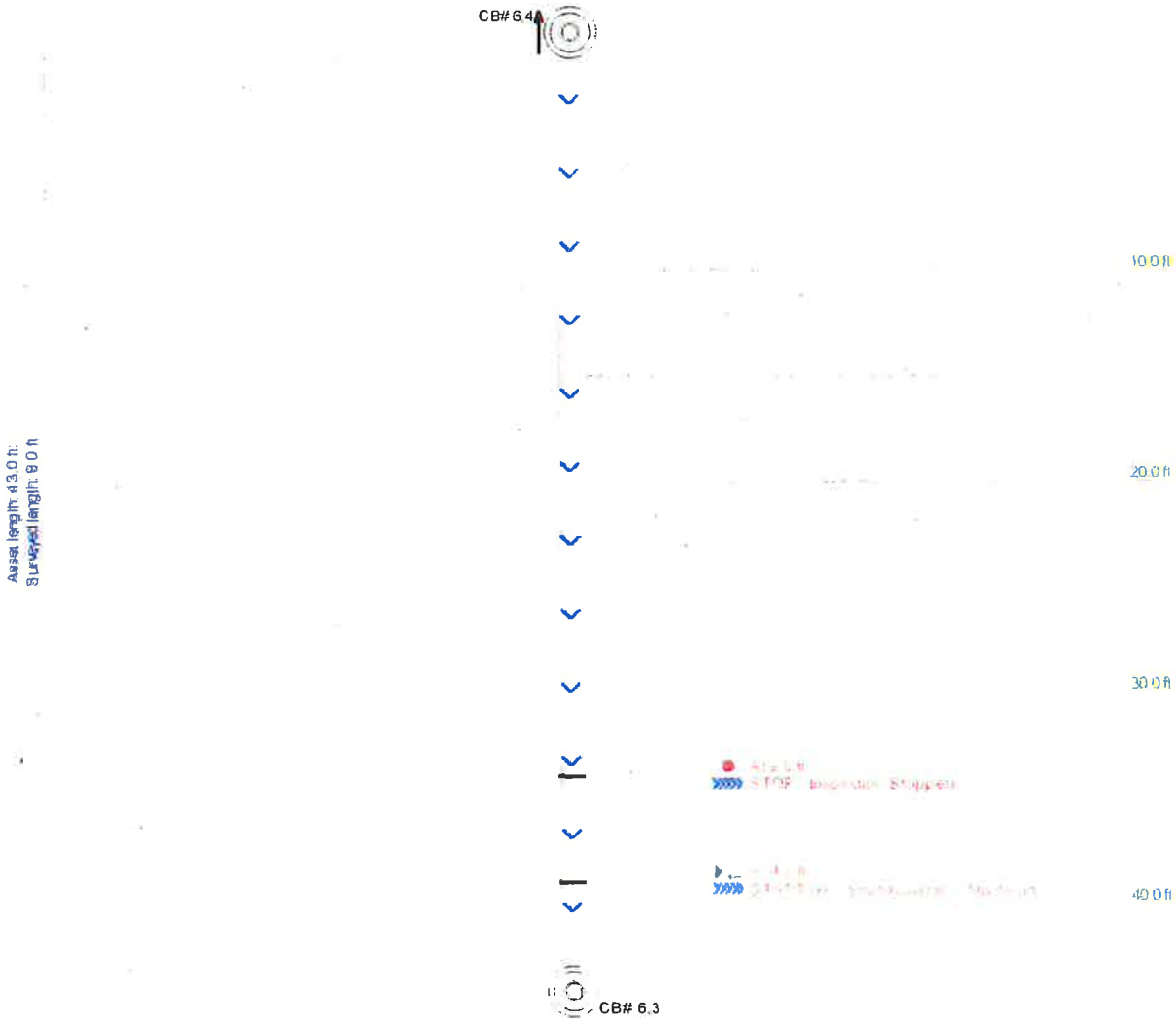
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.4	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	9.0	Showers	Disc #1 17:43



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.4	Borough of Mantoloking-A	4/21/2010 3:31:17 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.4	CB# 6.3	43.0

Comments:
Pre-cleaning Inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
9.0		STOP	Yes	/		Camera could not pass debris

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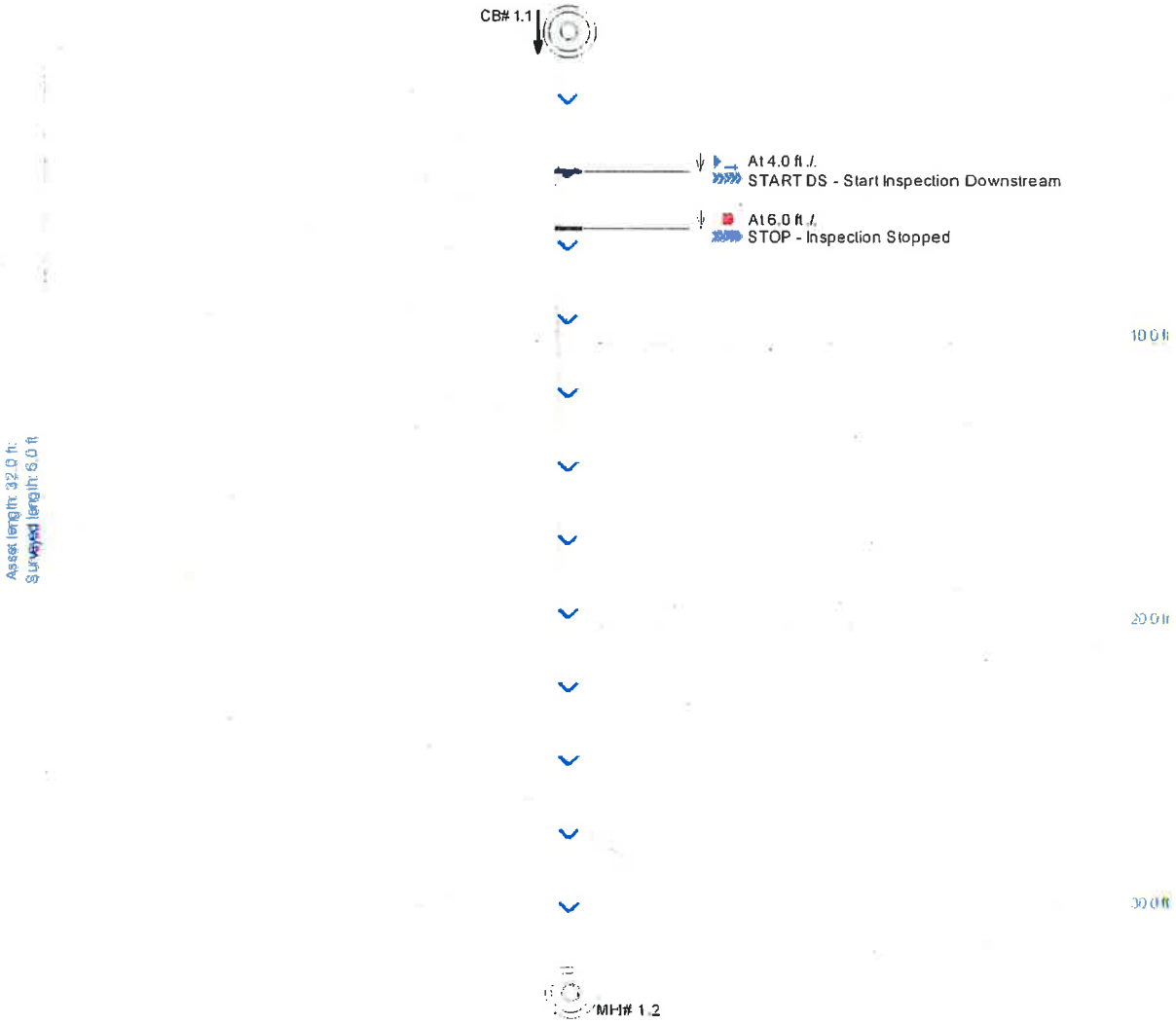
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.1- MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		16	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	6.0	Showers	Disc #2 19:56



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.1- MH 1.2	Borough of Mantoloking-A	4/21/2010 5:25:24 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.1	MH# 1.2	32.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
6.0		STOP	No	/		Camera could not pass debris

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TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.3 - MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		8	Clay Tile	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	42.0	Showers	Disc #1

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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.3 - MH 1.2	Borough of Mantoloking-A	4/21/2010 5:30:04 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.3	MH# 1.2	42.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
42.0		STOP	No	/		

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TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 1.3 - MH 1.2	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		8	Clay Tile	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	42.0	Light Rain	Disc #1 26:16

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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 1.3 - MH 1.2	Borough of Mantoloking-A	4/21/2010 5:48:28 PM	Light Rain	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.3	MH# 1.2	42.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
42.0		STOP	No	/		

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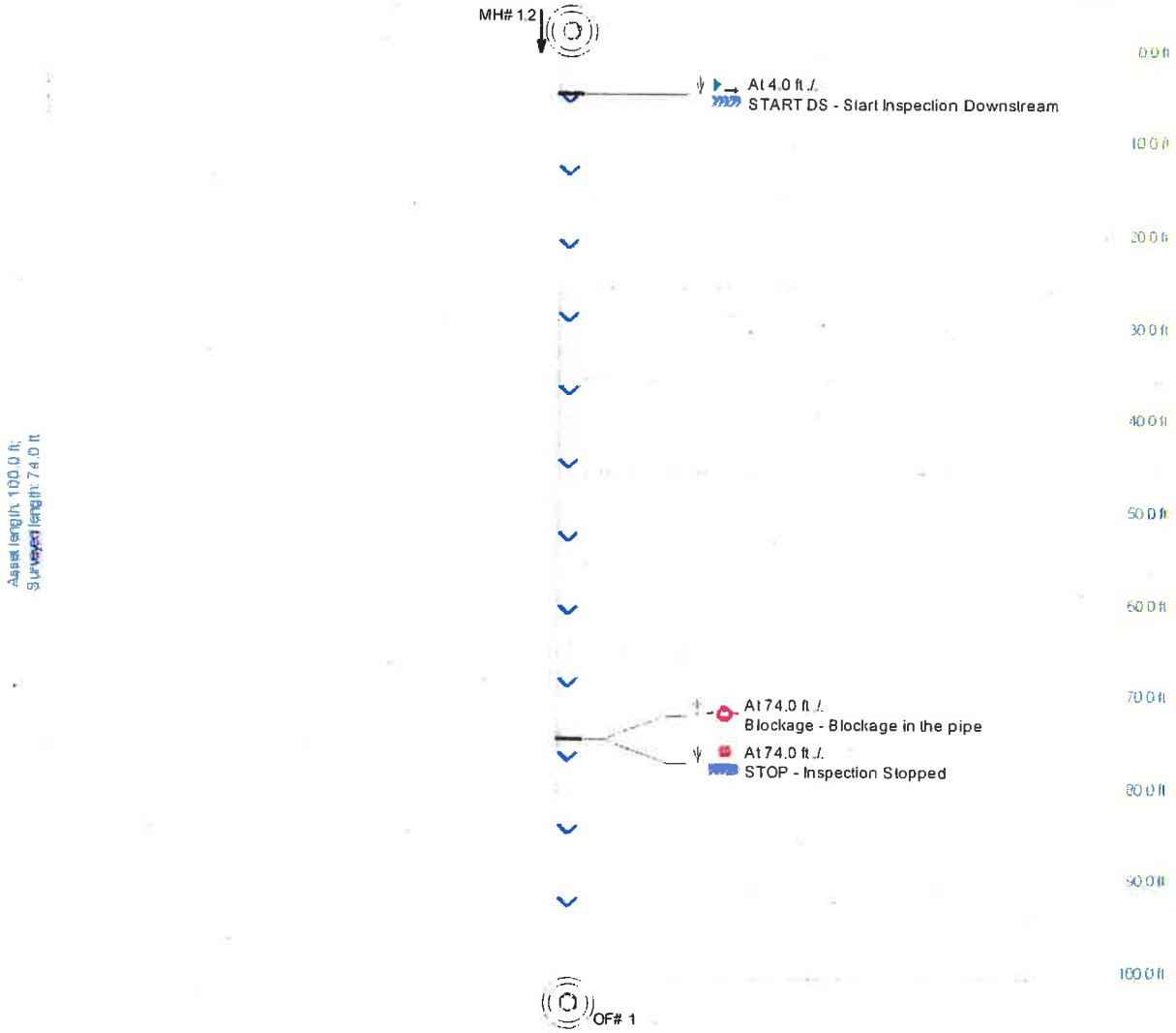
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	MH 1.2-OF 1	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		18	HDPE	Garden

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	74.0	Showers	Disc # 2 29:16



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 1.2-OF 1	Borough of Mantoloking-A	4/21/2010 6:14:04 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
MH# 1.2	OF# 1	100.0

Comments:
Pre-cleaining inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
74.0		Blockage	No	/		Sandbag in line

74.0		STOP	No	/		Camera cannot pass Sand Bag

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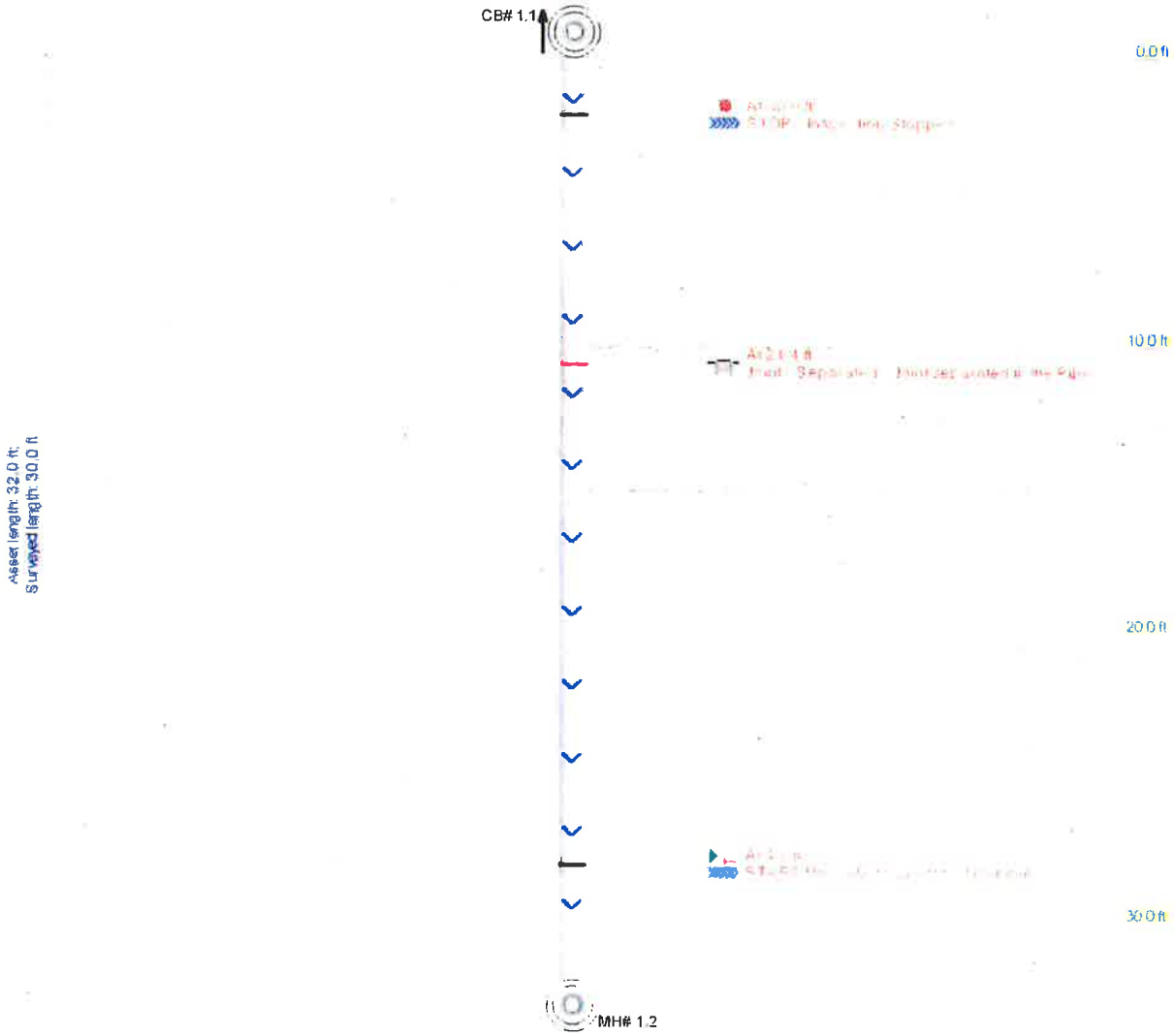
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	MH 1.2-CB 1.1	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/21/2010		16	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	30.0	Showers	Disc #1



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 1.2-CB 1.1	Borough of Mantoloking-A	4/21/2010 6:22:12 PM	Showers	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 1.1	MH# 1.2	32.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
21.4		Joint - Separated	Yes	/		Exposed gasket
30.0		STOP	Yes	/		

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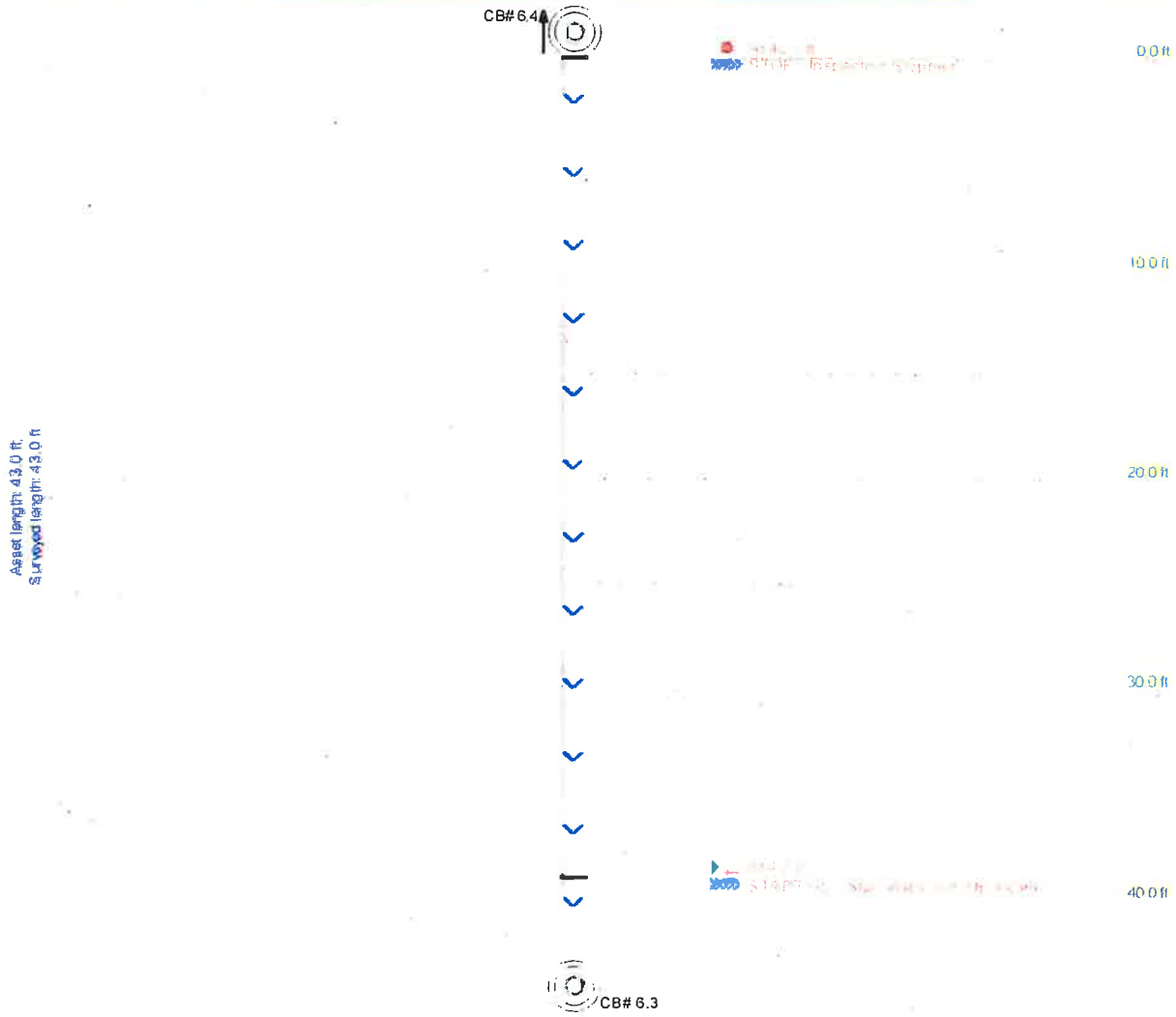
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.4	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	43.0	Sunny	Disc #2 0:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.4	Borough of Mantoloking-A	4/22/2010 10:32:31 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.4	CB# 6.3	43.0

Comments:
After cleaning - pipe has scaling throughout the entire run

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
43.0		STOP	Yes	/		

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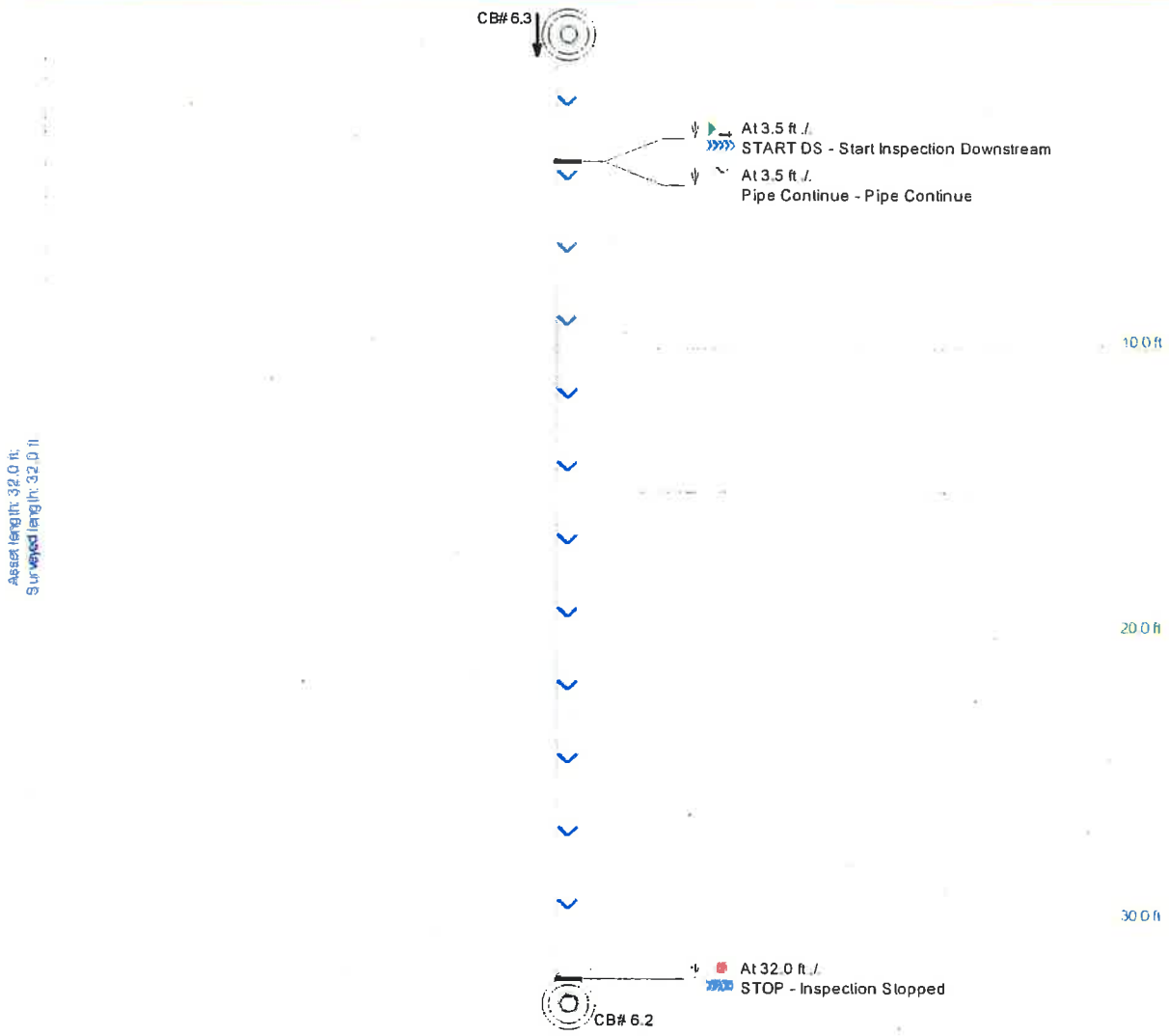
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.3-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010	0	12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	32.0	Sunny	Disc #2 5:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.3-6.2	Borough of Mantoloking-A	4/22/2010 10:43:04 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.3	CB# 6.2	32.0

Comments:
After cleaning - pipe has scaling throughout the entire run

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.5		START DS	No	/		
3.5		Pipe Continue	No	/		pipe has scaling throughout the entire run
32.0		STOP	No	/		

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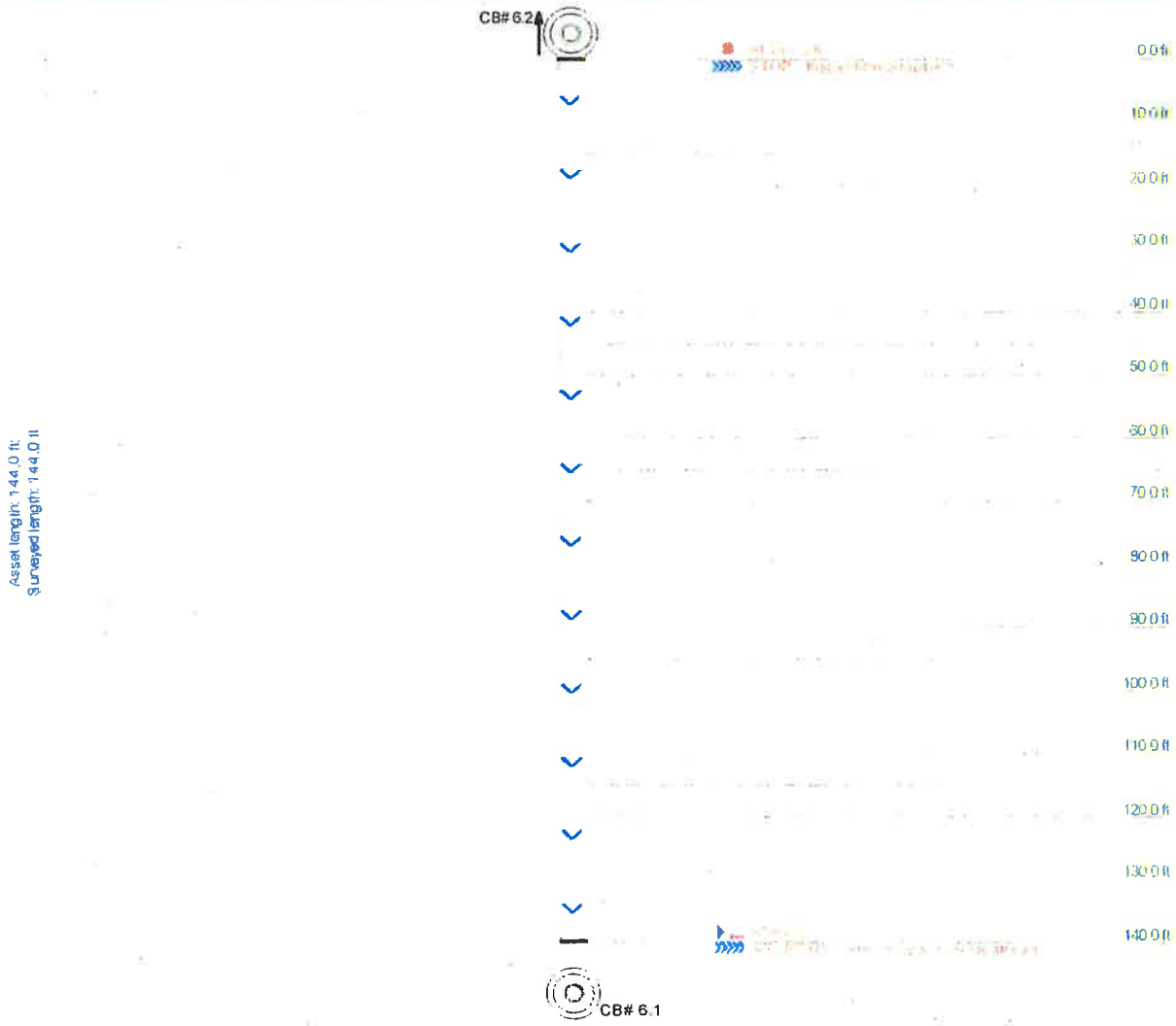
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-6.2	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	144.0	Sunny	Disc #2 8:15



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-6.2	Borough of Mantoloking-A	4/22/2010 11:09:45 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2	CB# 6.1	144.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.2		START US	Yes	/		
144.0		STOP	Yes	/		

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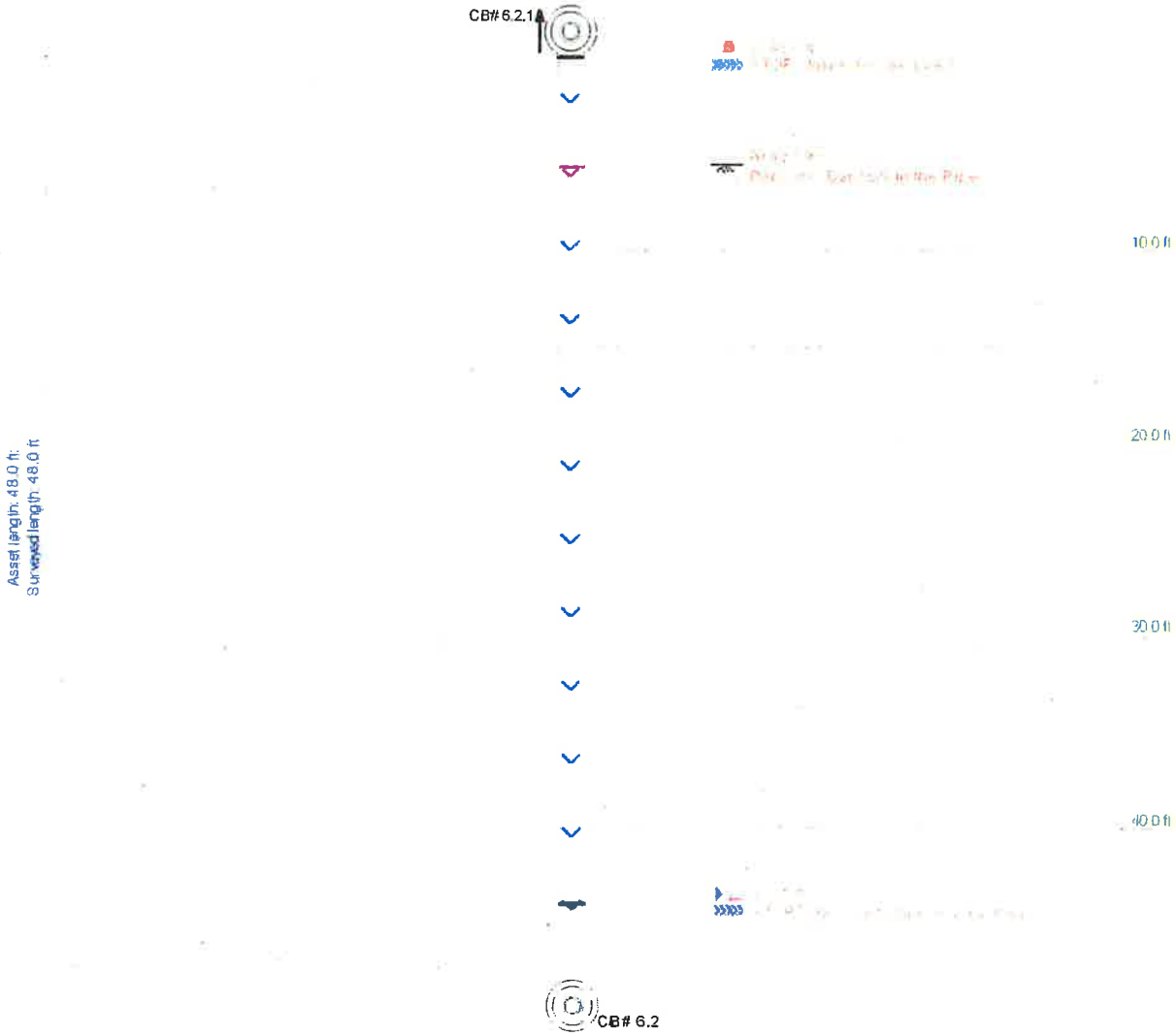
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.2-6.2.1	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	48.0	Sunny	Disc #2 20:42



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.2-6.2.1	Borough of Mantoloking-A	4/22/2010 11:29:43 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.2.1	CB# 6.2	48.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
42.3		Deposits	Yes	/		Concrete build up
48.0		STOP	Yes	/		

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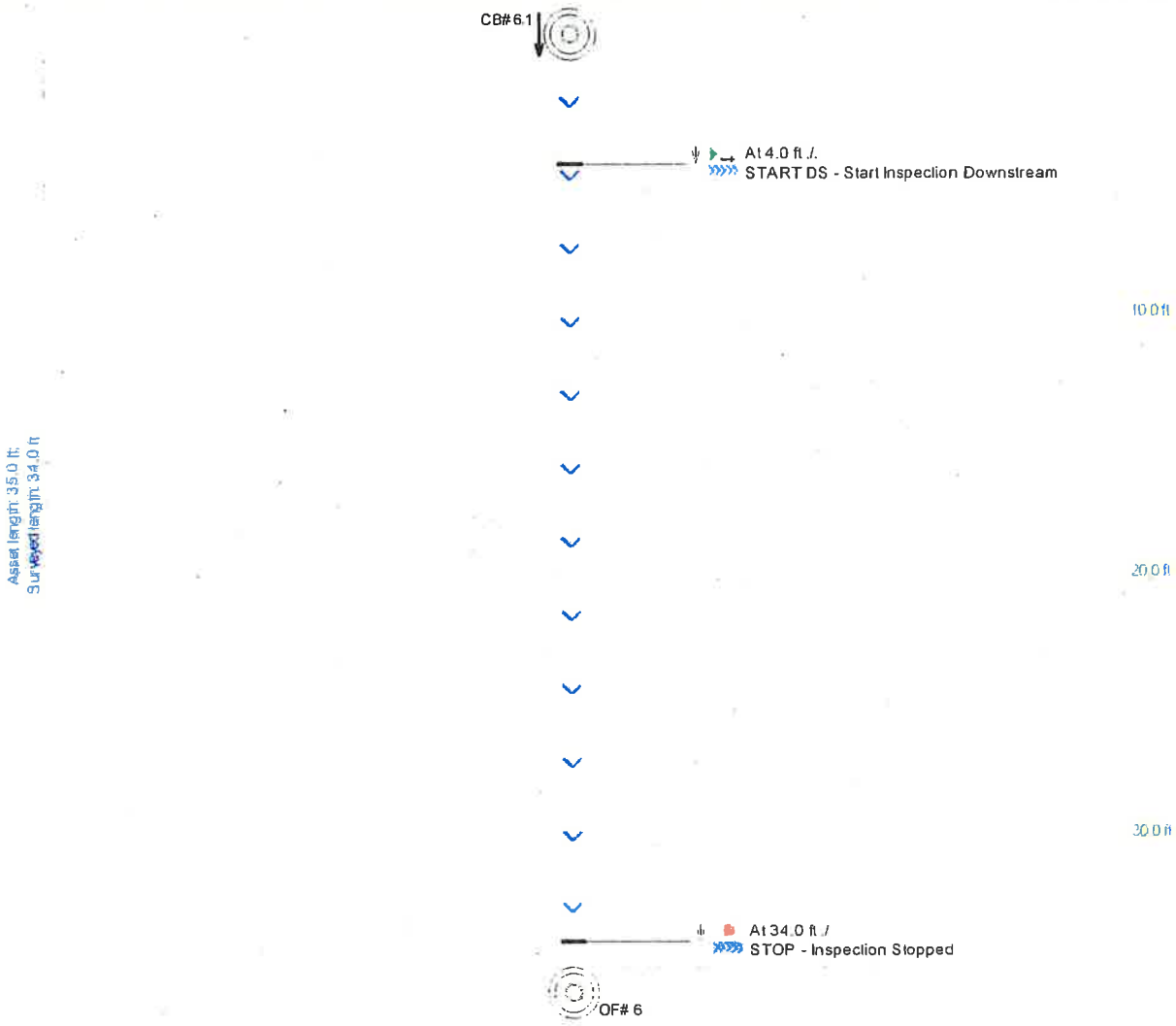
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 6.1-OF 6	Boro of Mantoloking,NJ	Bergen Ave.- Location 12

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	34.0	Sunny	Disc # 2 28.55



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 6.1-OF 6	Borough of Mantoloking-A	4/22/2010 11:58:18 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 6.1	OF# 6	35.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
34.0		STOP	No	/		

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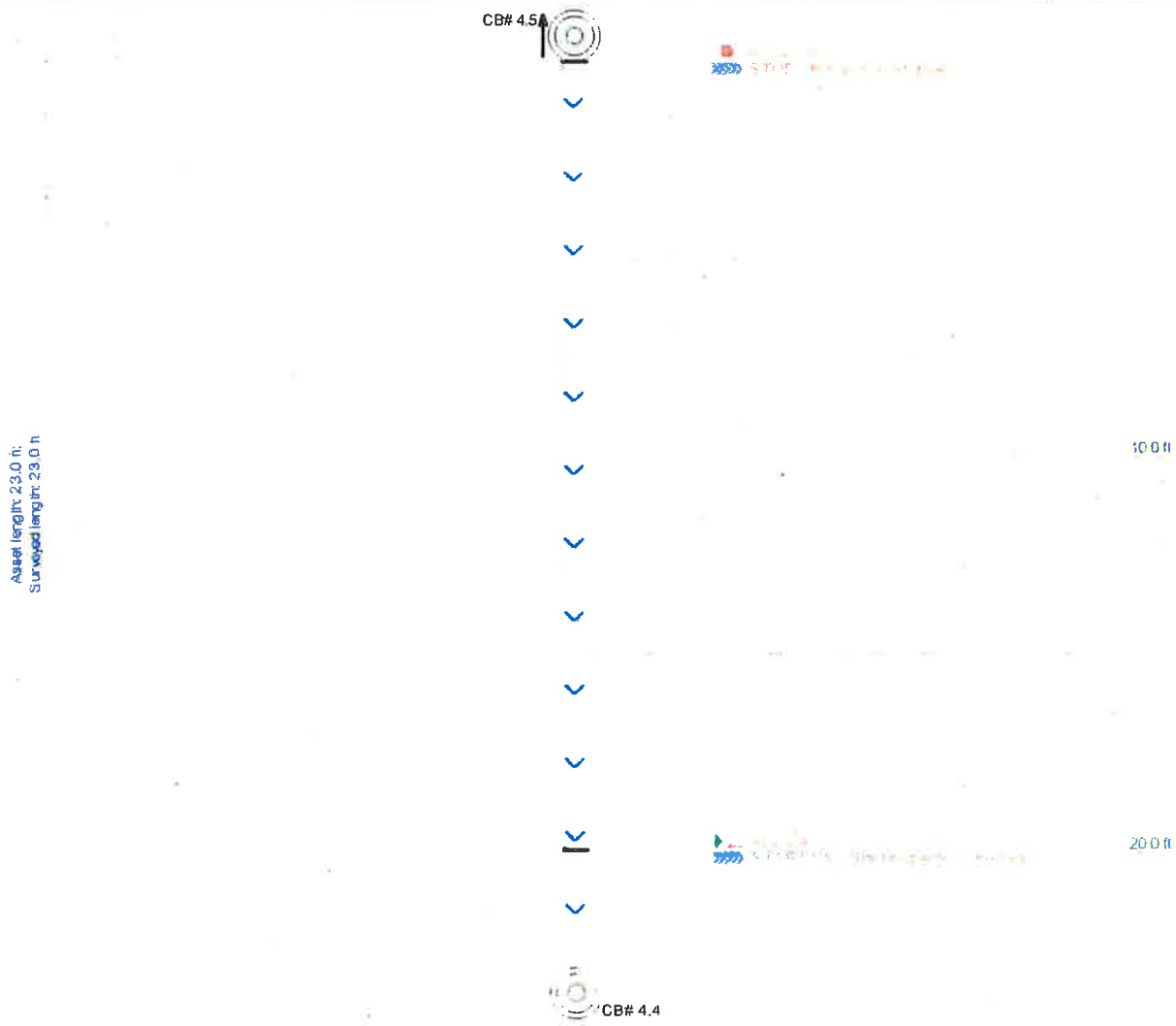
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.5	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc #2 35:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.5	Borough of Mantoloking-A	4/22/2010 1:20:56 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.5	CB# 4.4	23.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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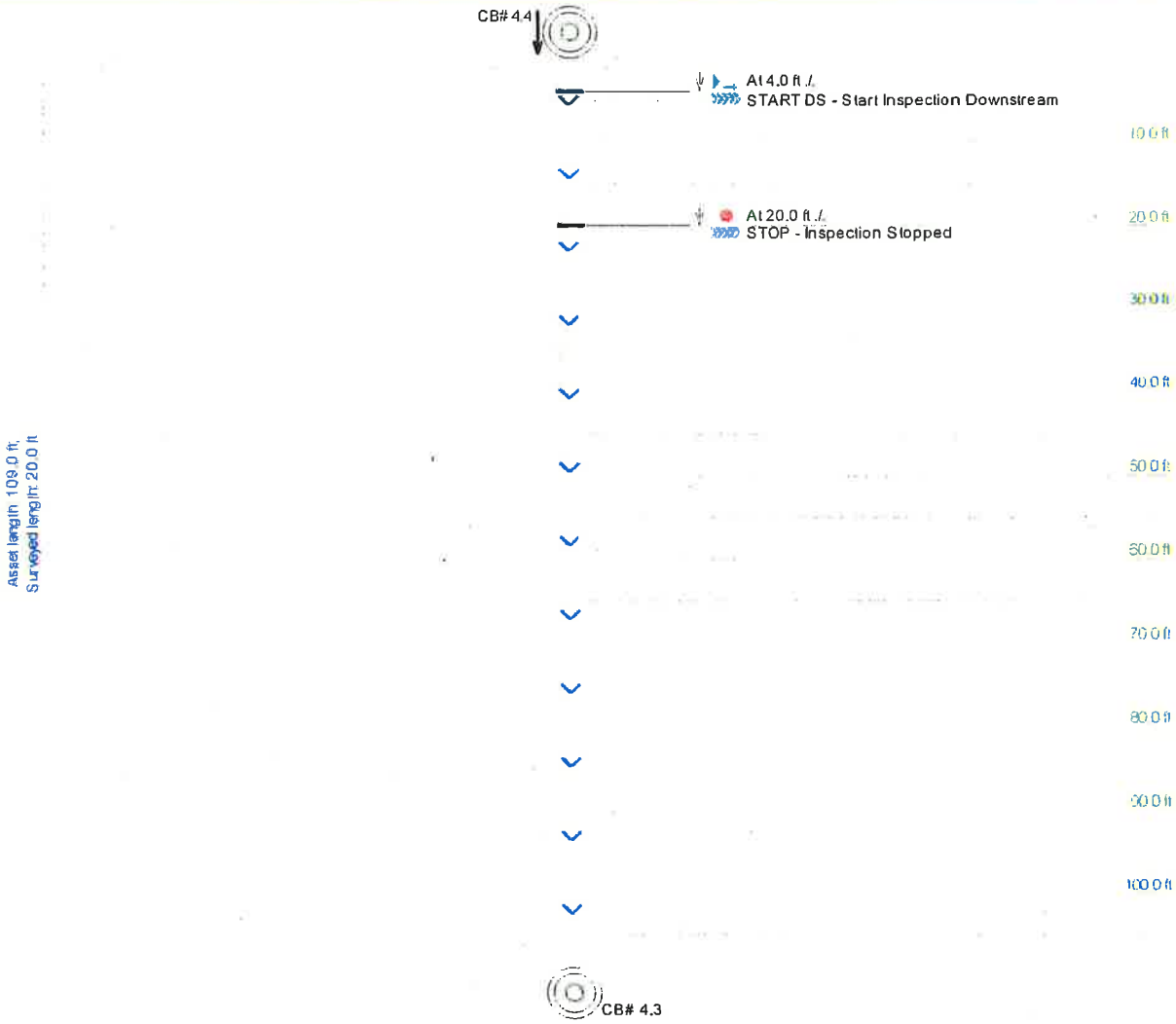
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	20.0	Sunny	Disc #2 42:49



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.3	Borough of Mantoloking-A	4/22/2010 1:38:07 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.4	CB# 4.3	109.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
20.0		STOP	No	/		Camera could not pass debris

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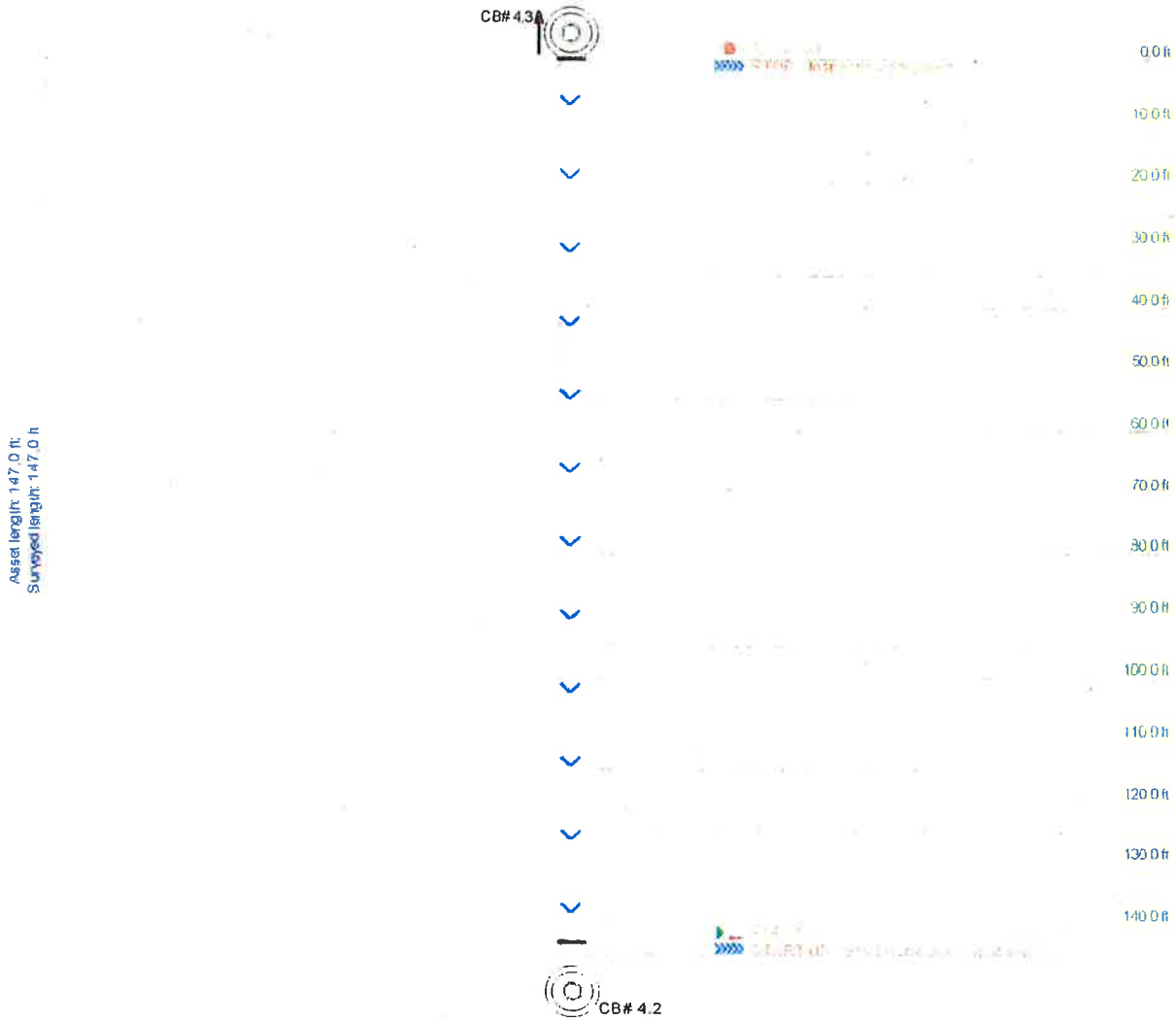
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	147.0	Sunny	Disc #2 51:24



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.3	Borough of Mantoloking-A	4/22/2010 1:59:41 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.2	147.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
147.0		STOP	Yes	/		

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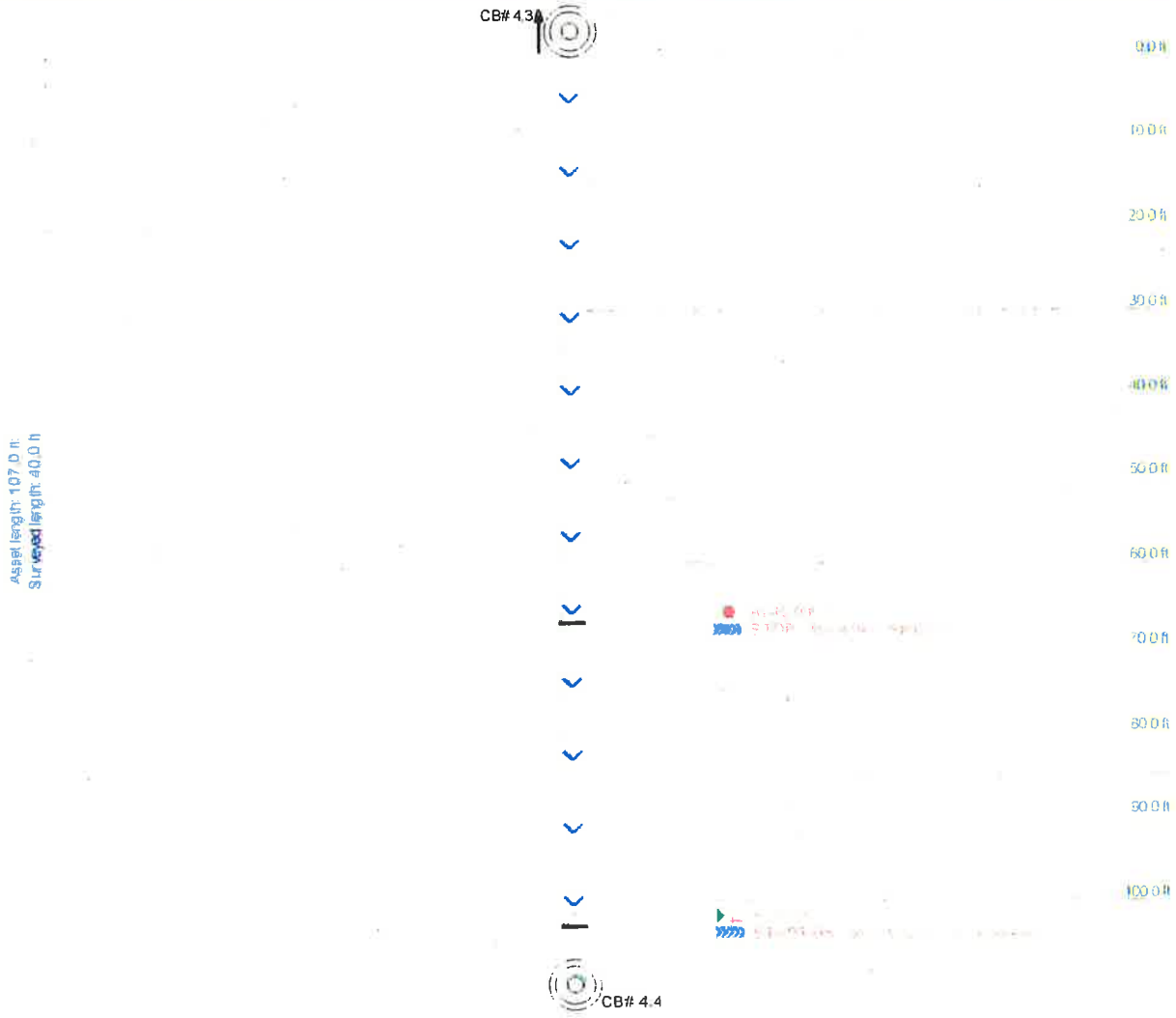
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.3-4.4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	40.0	Sunny	Disc #2



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.3-4.4	Borough of Mantoloking-A	4/22/2010 2:16:14 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.4	107.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
40.0		STOP	Yes	/		Camera cannot pass debris

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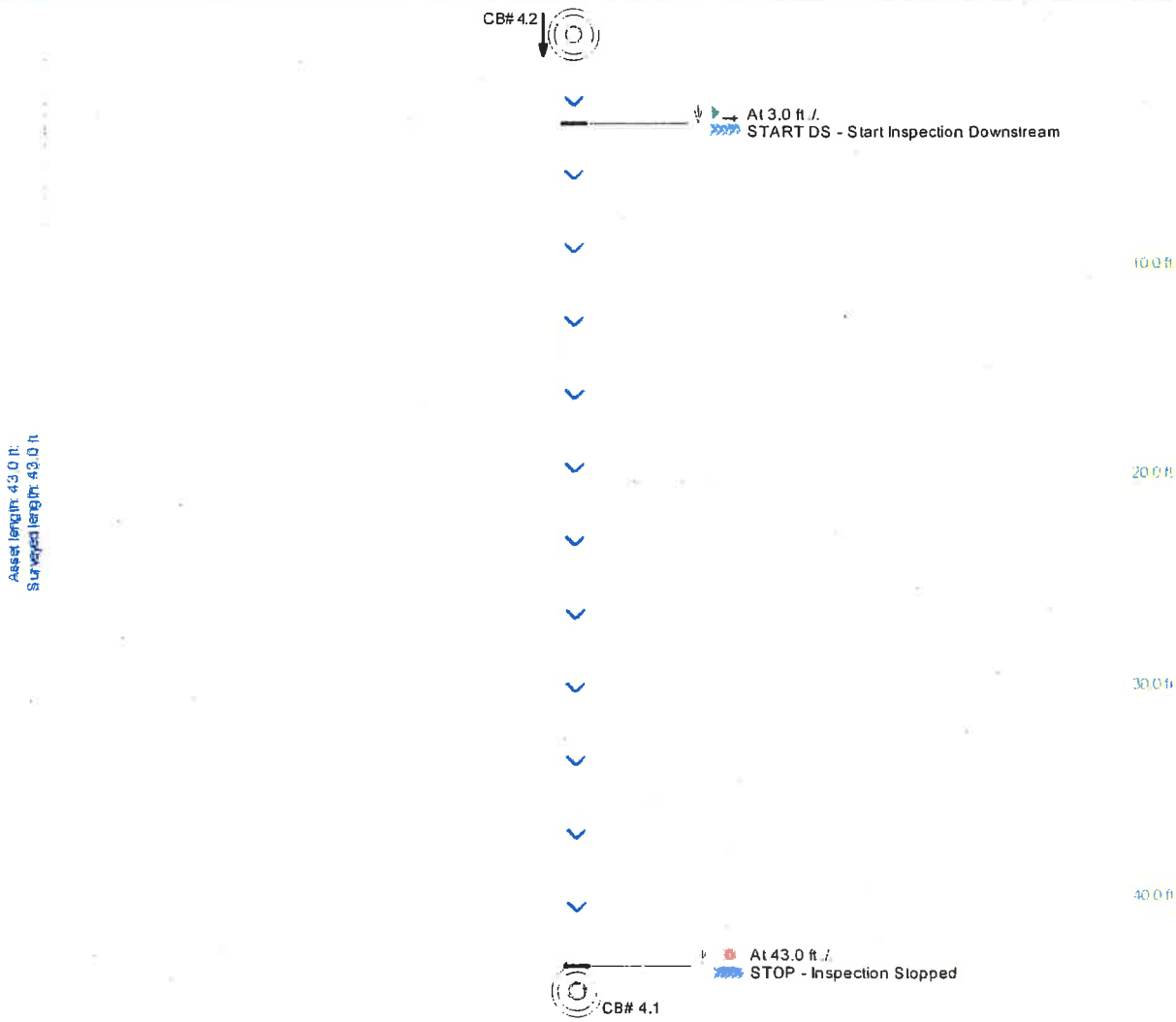
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	43.0	Sunny	Disc #2 1:01:49



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.1	Borough of Mantoloking-A	4/22/2010 2:32:42 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.2	CB# 4.1	43.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
43.0		STOP	No	/		

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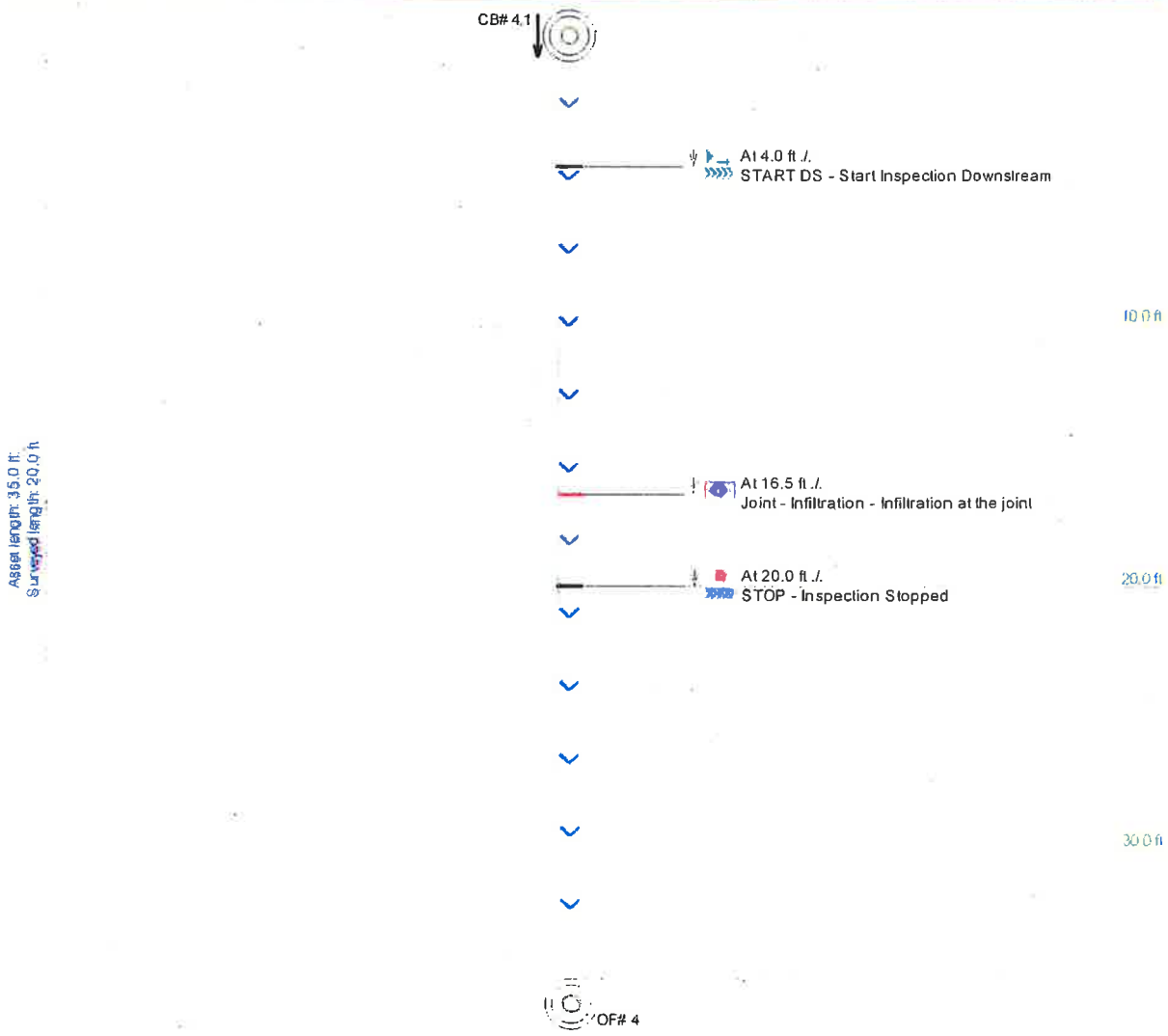
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.1-OF 4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	20.0	Sunny	Disc #2 1:04:23



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.1-OF 4	Borough of Mantoloking-A	4/22/2010 2:58:26 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.1	OF# 4	35.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
16.5		Joint - Infiltration	No	/		
20.0		STOP	No	/		Camera cannot pass debris

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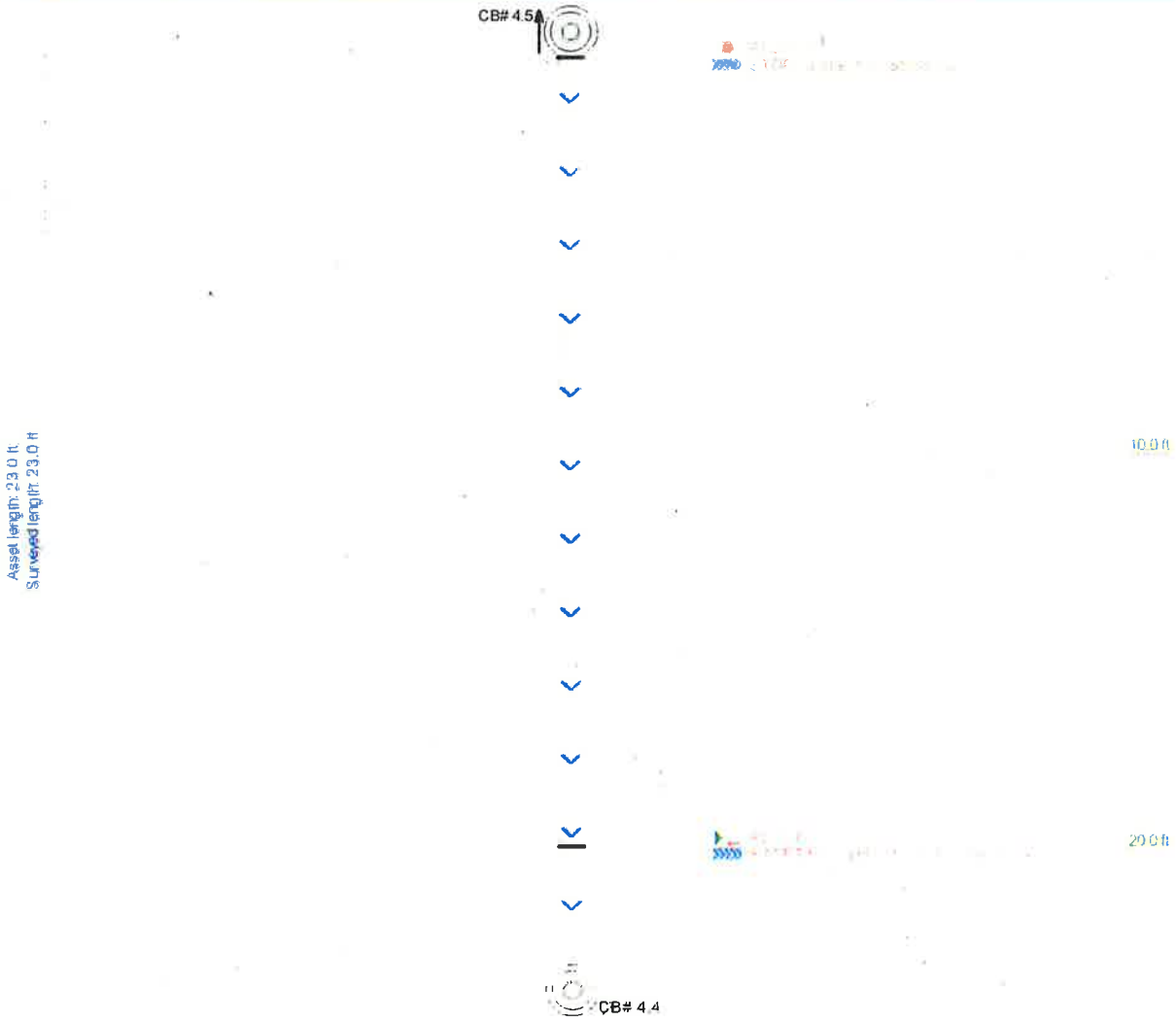
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.5	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc #2 1:12:43



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.5	Borough of Mantoloking-A	4/22/2010 3:22:39 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.5	CB# 4.4	23.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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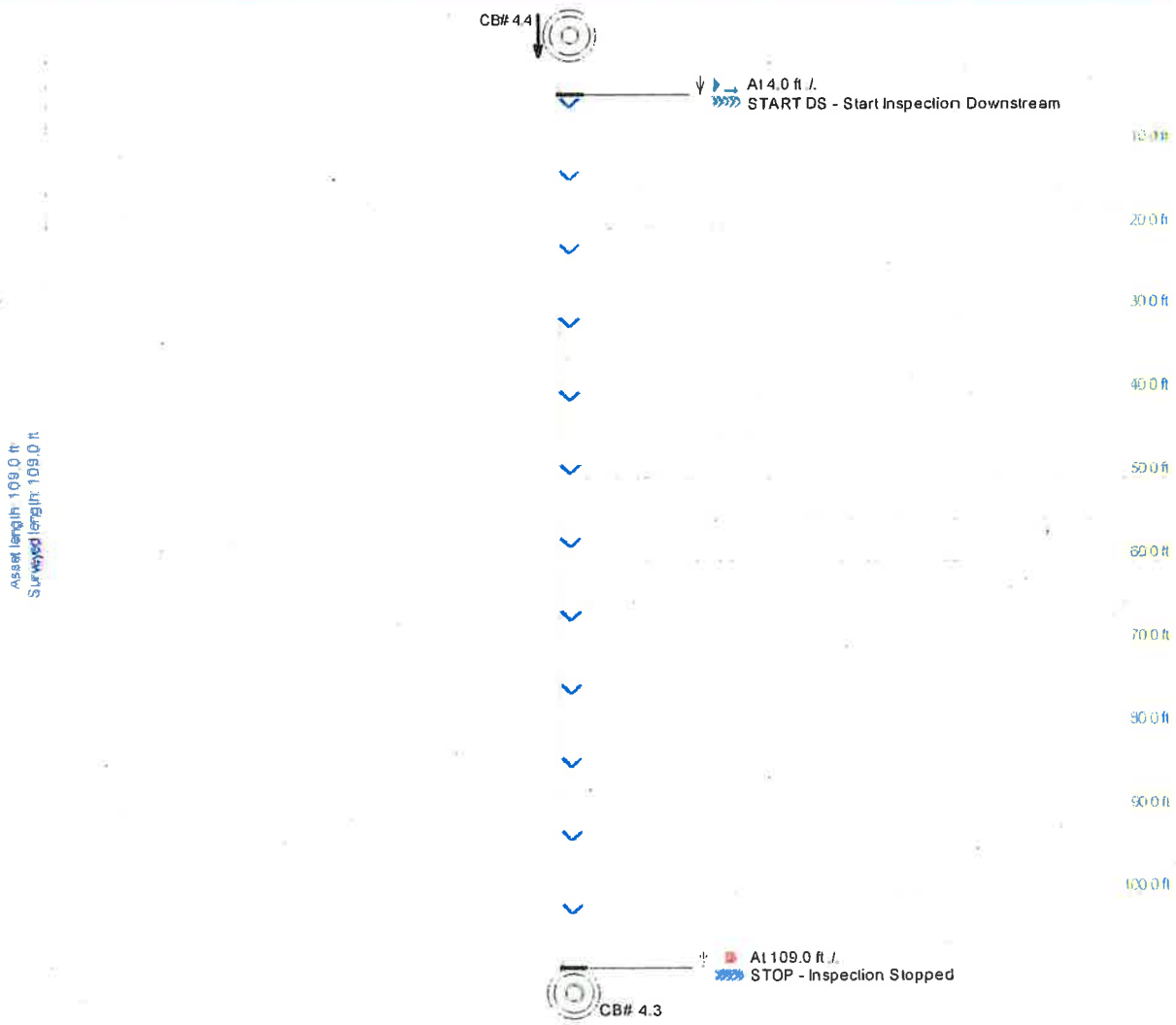
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.4-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	109.0	Sunny	Disc #2 1:18:42



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.4-4.3	Borough of Mantoloking-A	4/22/2010 3:34:48 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.4	CB# 4.3	109.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
109.0		STOP	No	/		

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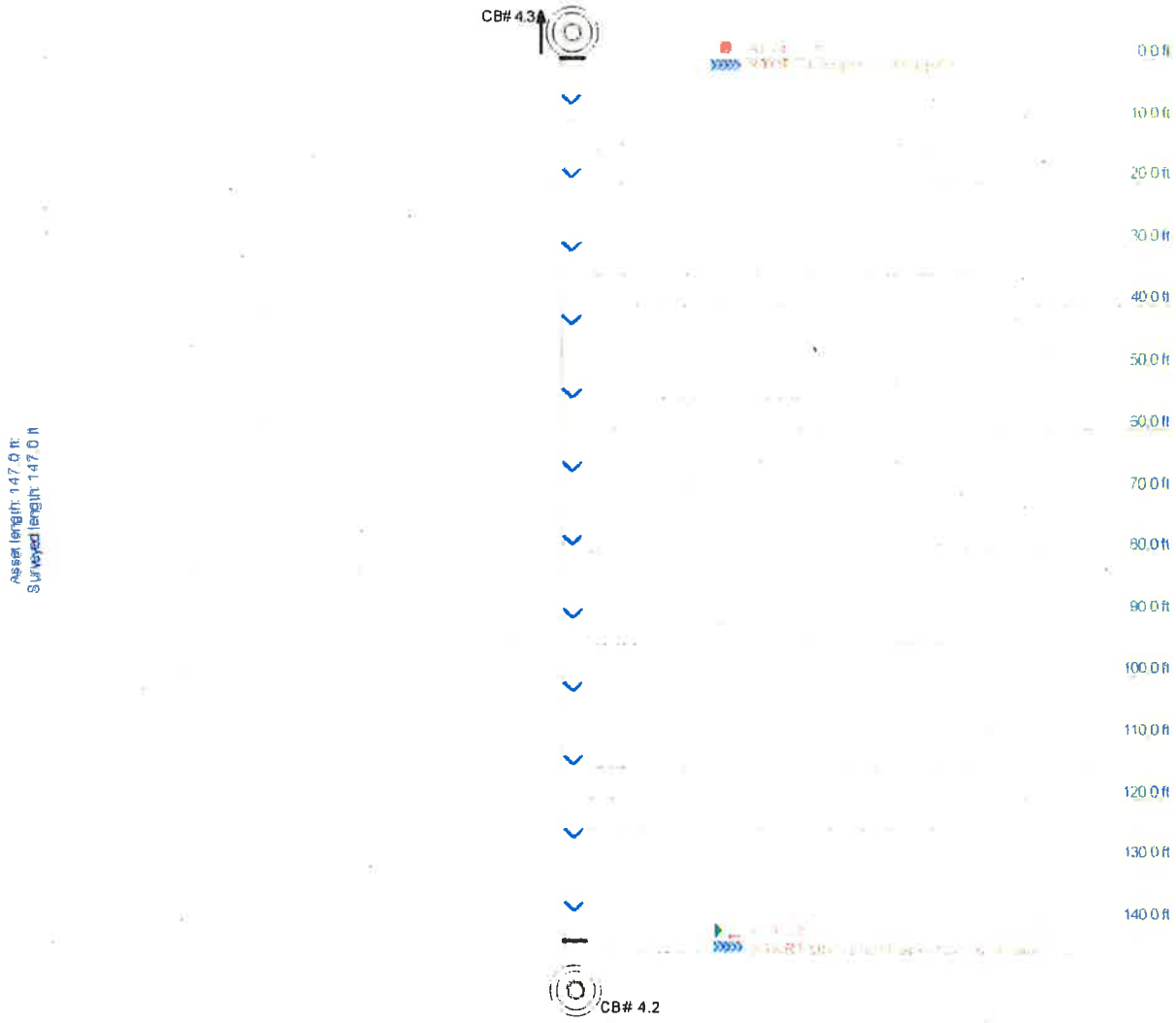
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	147.0	Sunny	Disc #2 1:27:52



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.3	Borough of Mantoloking-A	4/22/2010 4:04:43 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.3	CB# 4.2	147.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START US	Yes	/		
147.0		STOP	Yes	/		

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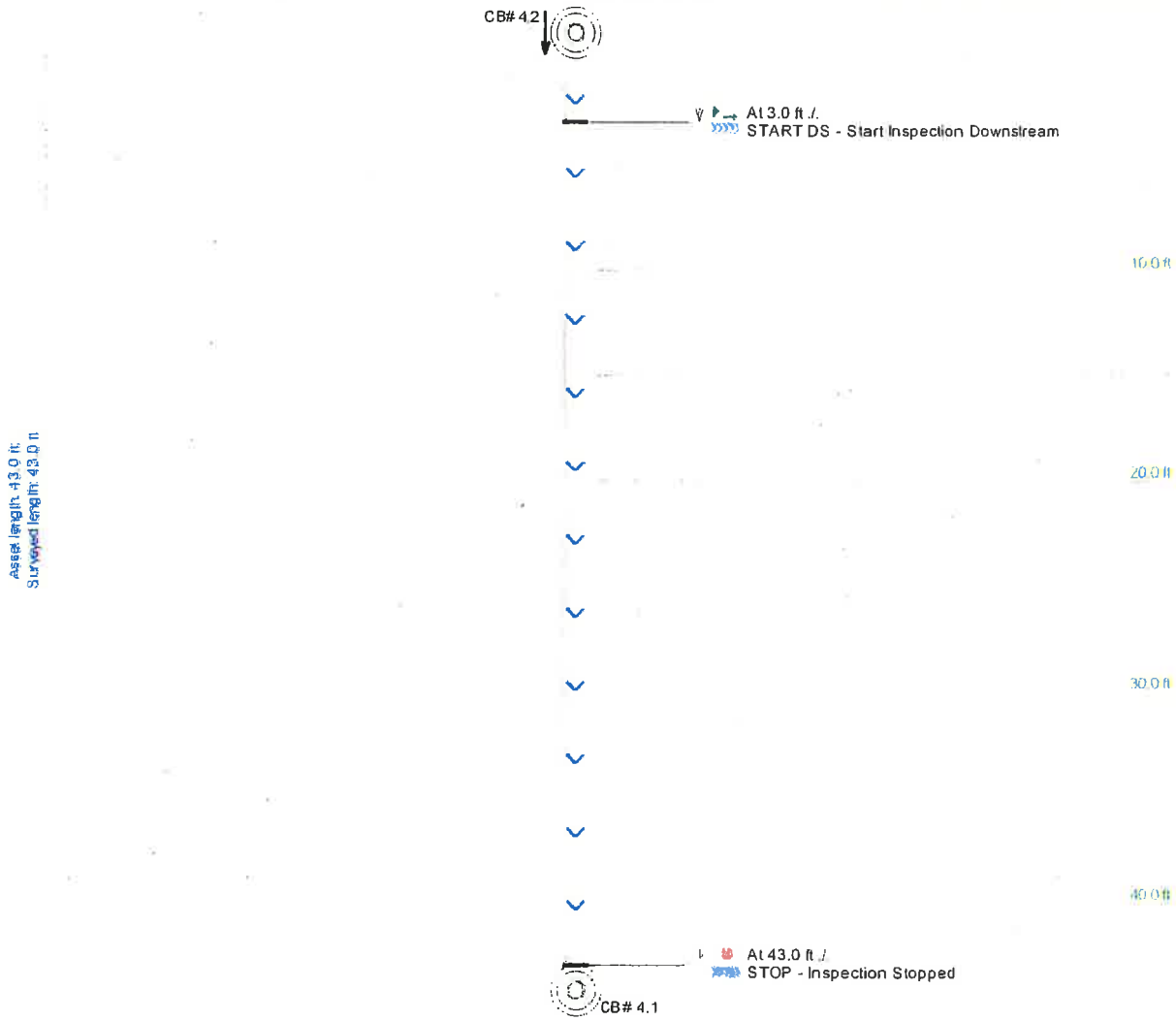
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.2-4.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	43.0	Sunny	Disc#2 1:36:14



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.2-4.1	Borough of Mantoloking-A	4/22/2010 4:19:02 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.2	CB# 4.1	43.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
43.0		STOP	No	/		

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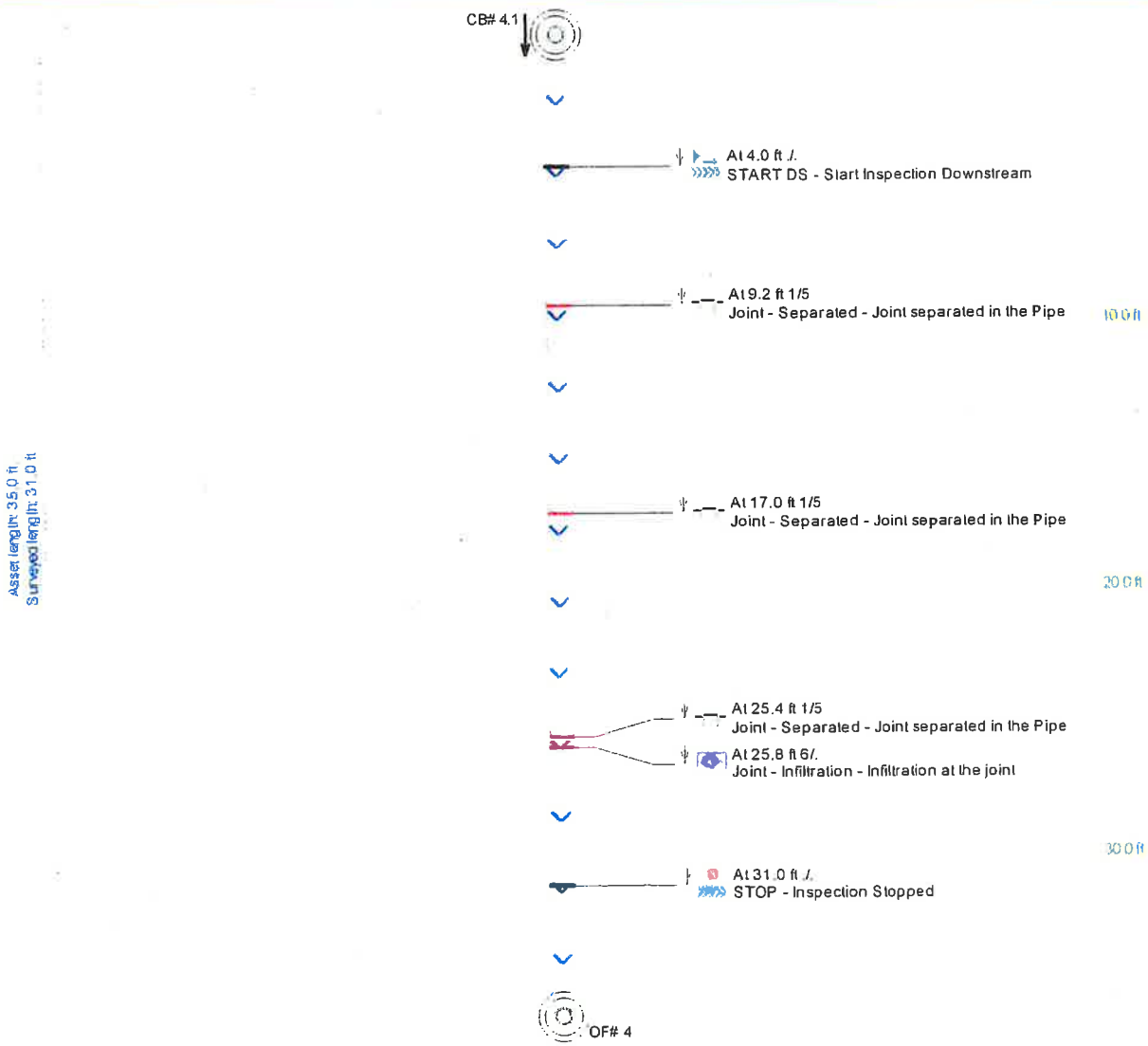
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-A	CB 4.1-OF 4	Boro of Mantoloking,NJ	Lagoon Lane - Location 10

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
4/22/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	31.0	Sunny	Disc #2 1:41:35



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 4.1-OF 4	Borough of Mantoloking-A	4/22/2010 4:26:51 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 4.1	OF# 4	35.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
9.2		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint
17.0		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint - infiltration seen on pre-cleaning inspection
25.4		Joint - Separated	No	1 / 5		Pipe bends to the left slightly at the joint
25.8		Joint - Infiltration	No	6 /		
31.0		STOP	No	/		

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Project Summary

Borough of Mantoloking-A

Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
CB 6.1-OF 6	4/21/2010	Bergen Ave.- Location 12	CB# 6.1	OF# 6	RCP	35.0	28.0
CB 6.1-6.2	4/21/2010	Bergen Ave.- Location 12	CB# 6.1	CB# 6.2	DIP	144.0	143.0
CB 6.3-6.2	4/21/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.2	DIP	32.0	14.0
CB 6.3-6.4	4/21/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.4	DIP	43.0	9.0
CB 1.1- MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.1	MH# 1.2	DIP	32.0	6.0
CB 1.3 - MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.3	MH# 1.2	Clay Tile	42.0	42.0
CB 1.3 - MH 1.2	4/21/2010	Channel Lane - Location 14	CB# 1.3	MH# 1.2	Clay Tile	42.0	42.0
MH 1.2-OF 1	4/21/2010	Channel Lane - Location 14	MH# 1.2	OF# 1	HDPE	100.0	74.0
MH 1.2-CB 1.1	4/21/2010	Channel Lane - Location 14	MH# 1.2	CB# 1.1	DIP	32.0	30.0
CB 6.3-6.4	4/22/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.4	DIP	43.0	43.0

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Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
CB 6.3-6.2	4/22/2010	Bergen Ave.- Location 12	CB# 6.3	CB# 6.2	DIP	32.0	32.0
CB 6.1-6.2	4/22/2010	Bergen Ave.- Location 12	CB# 6.1	CB# 6.2	DIP	144.0	144.0
CB 6.2-6.2.1	4/22/2010	Bergen Ave.- Location 12	CB# 6.2	CB# 6.2.1	DIP	48.0	48.0
CB 6.1-OF 6	4/22/2010	Bergen Ave.- Location 12	CB# 6.1	OF# 6	RCP	35.0	34.0
CB 4.4-4.5	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.5	DIP	23.0	23.0
CB 4.4-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	109.0	20.0
CB 4.2-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.3	DIP	147.0	147.0
CB 4.3-4.4	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	107.0	40.0
CB 4.2-4.1	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.1	DIP	43.0	43.0
CB 4.1-OF 4	4/22/2010	Lagoon Lane - Location 10	CB# 4.1	OF# 4	RCP	35.0	20.0
CB 4.4-4.5	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.5	DIP	23.0	23.0
CB 4.4-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.4	CB# 4.3	DIP	109.0	109.0

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Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
CB 4.2-4.3	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.3	DIP	147.0	147.0
CB 4.2-4.1	4/22/2010	Lagoon Lane - Location 10	CB# 4.2	CB# 4.1	DIP	43.0	43.0
CB 4.1-OF 4	4/22/2010	Lagoon Lane - Location 10	CB# 4.1	OF# 4	RCP	35.0	31.0
					Subtotal	**1,625.0 ft**	**1,335.0 ft**
					Total	**1,625.0 ft**	**1,335.0 ft**

Number of inspections: 25

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Manhole & Catch Basin Cleaning • Hydro Excavation

Borough of Mantoloking

DVD/Video Report

May 11, 2010

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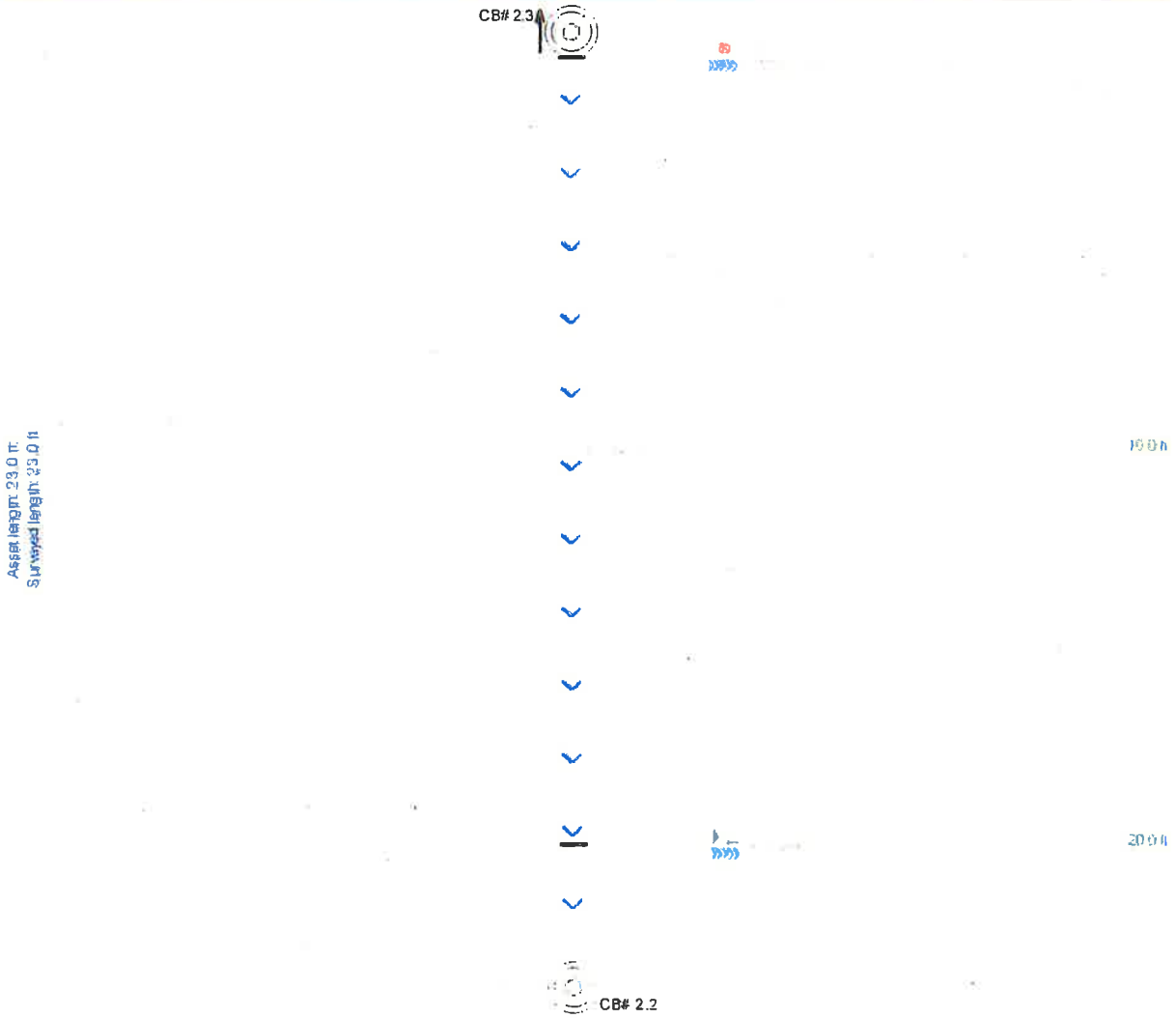
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.2-2.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		10	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc #3 0:00



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.2-2.3	Borough of Mantoloking-B	5/6/2010 11:01:22 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.3	CB# 2.2	23.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.2-2.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		12	ACP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	195.0	Sunny	Disc #3 4:00

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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.2-2.1	Borough of Mantoloking-B	5/6/2010 11:28:55 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.2	CB# 2.1	202.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
3.5		START DS	No	/		
195.0		STOP	No	/		

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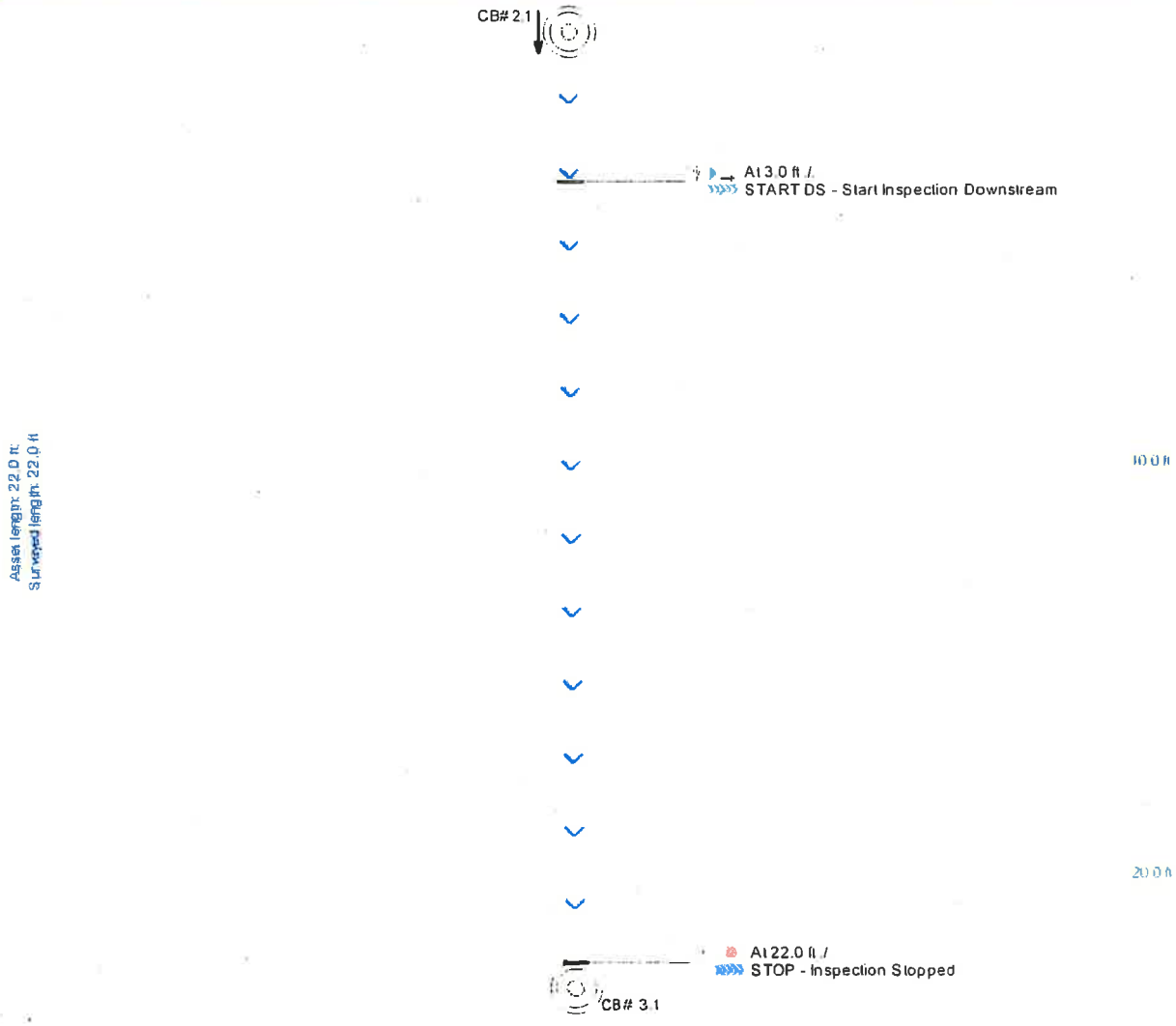
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.1-3.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	22.0	Sunny	Disc #3 17:38



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Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.1-3.1	Borough of Mantoloking-B	5/6/2010 11:57:13 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.1	CB# 3.1	22.0

Comments:
Pre-cleaning inspection

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
3.0		START DS	No	/		
22.0		STOP	No	/		

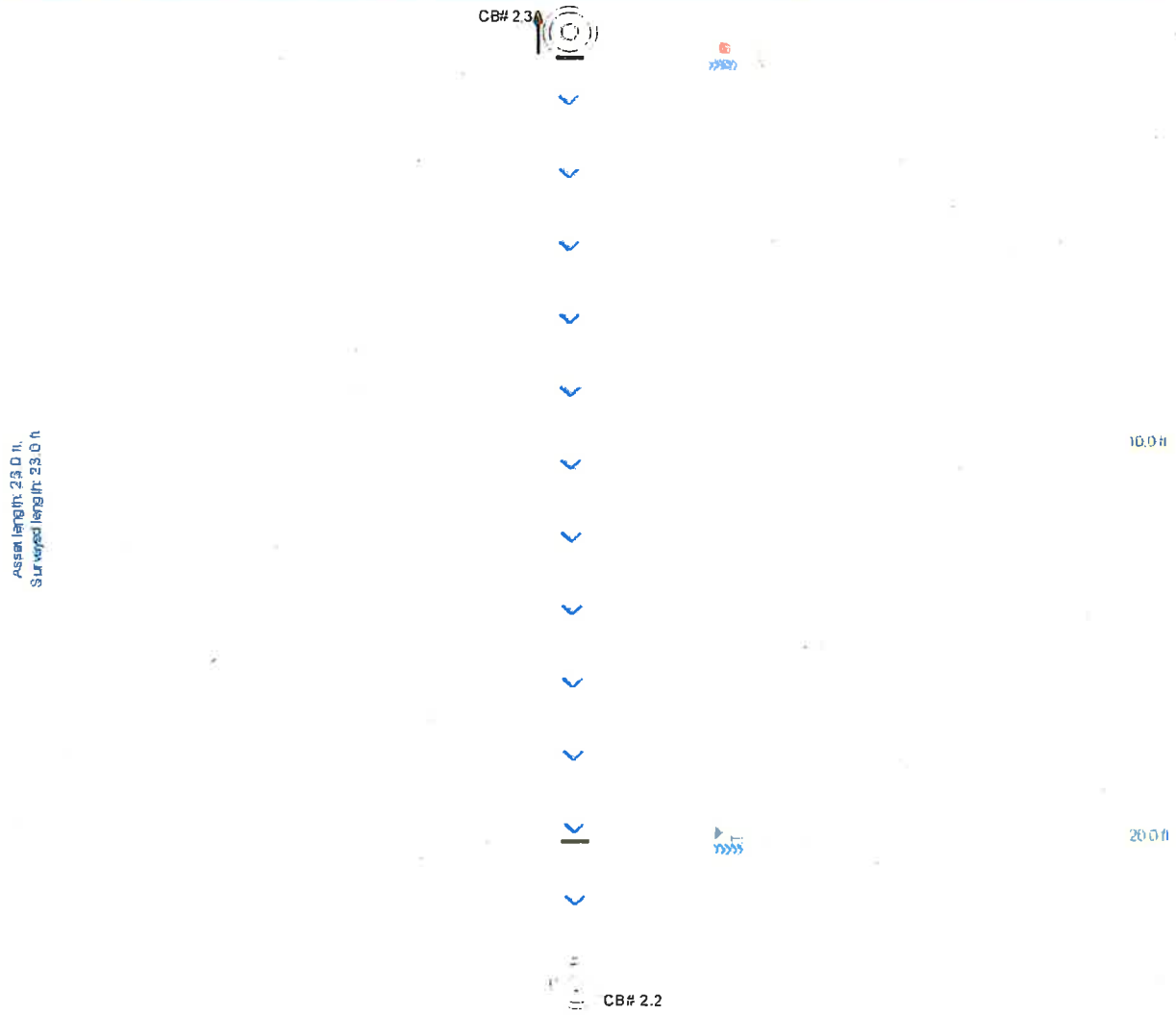
American Pipe Cleaning,LLC
P O. Box 2043
ın, New Jersey 07712
/32-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.2-2.3	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		10	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	23.0	Sunny	Disc# 3 21115



merican Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.2-2.3	Borough of Mantoloking-B	5/6/2010 12:47:51 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.3	CB# 2.2	23.0

Comments:
After cleaning

Observations

Distance	Length	Code	Revisit	Clock Pos.	Severity	Comment
3.0		START US	Yes	/		
23.0		STOP	Yes	/		

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ɜn, New Jersey 07712
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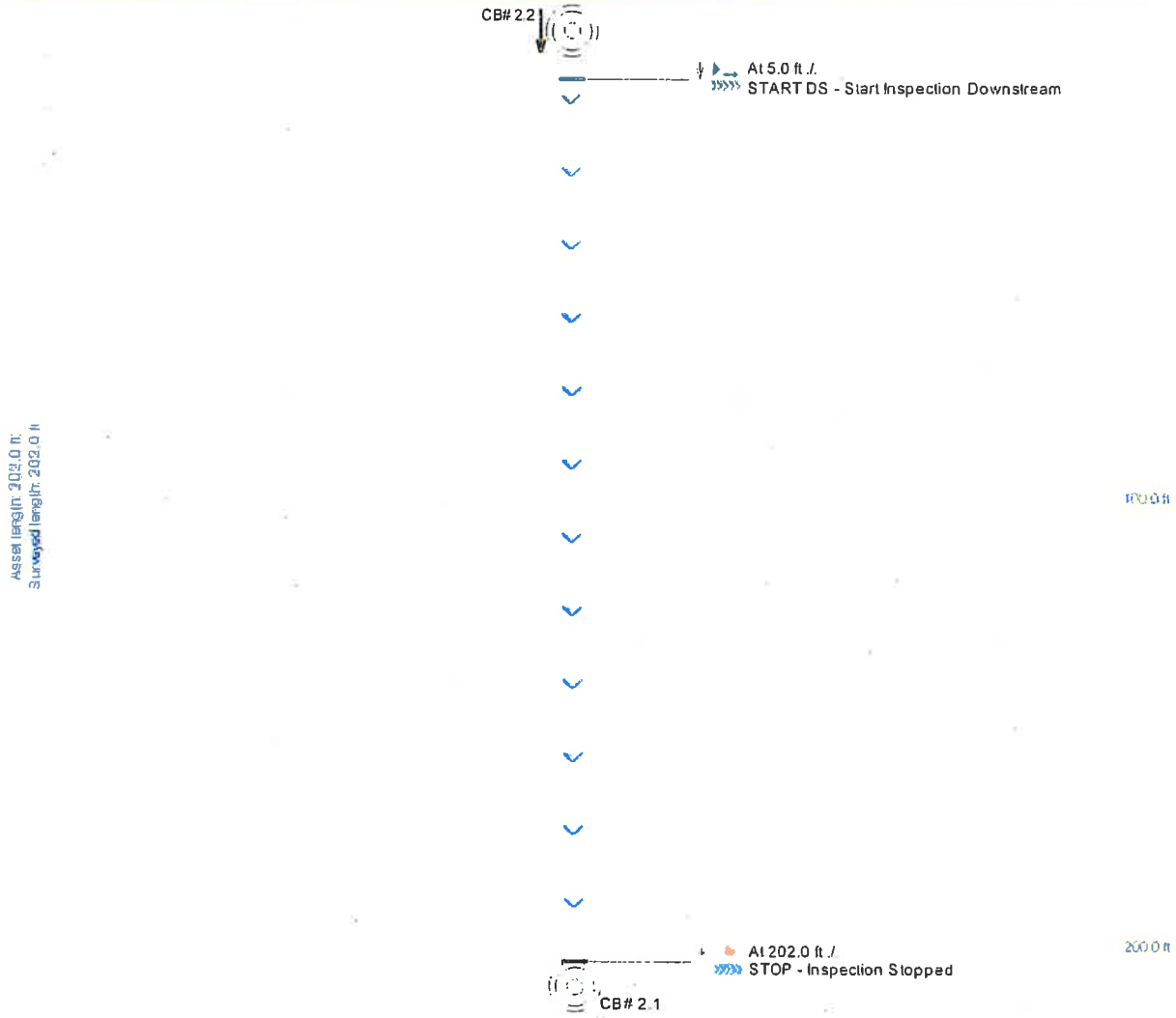
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.2-2.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		12	ACP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	202.0	Sunny	Disc #3 23:20



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732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.2-2.1	Borough of Mantoloking-B	5/6/2010 1:03:11 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.2	CB# 2.1	202.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment	[illegible]	[illegible]
5.0		START DS	No	/				
202.0		STOP	No	/				

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an, New Jersey 07712
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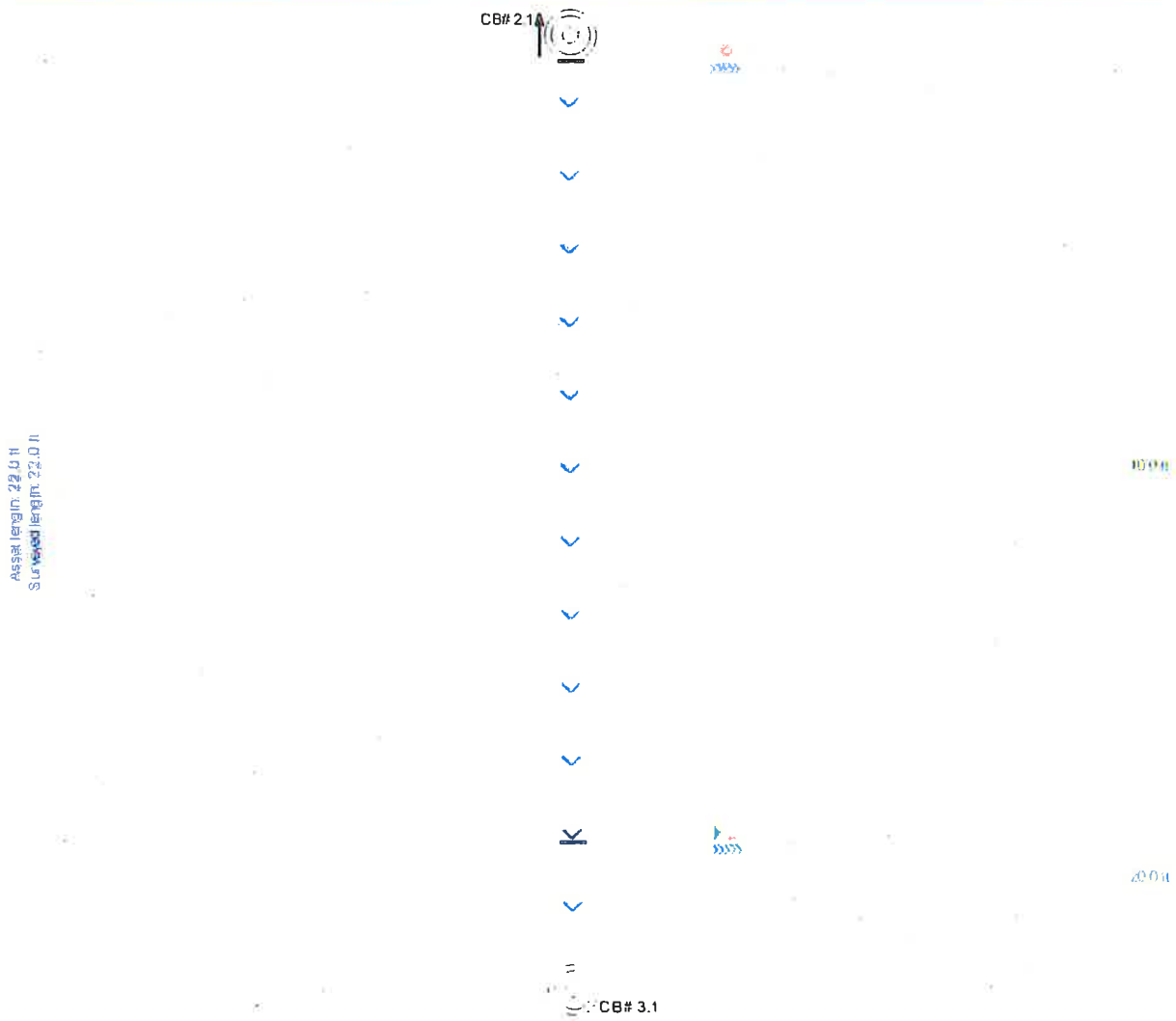
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 2.1-3.1	Boro of Mantoloking,NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		12	DIP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	22.0	Sunny	Disc # 3 36.00



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P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 2.1-3.1	Borough of Mantoloking-B	5/6/2010 2:31:35 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 2.1	CB# 3.1	22.0

Comments:
After cleaning

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
3.0		START US	Yes	/		
22.0		STOP	Yes	/		

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ean, New Jersey 07712
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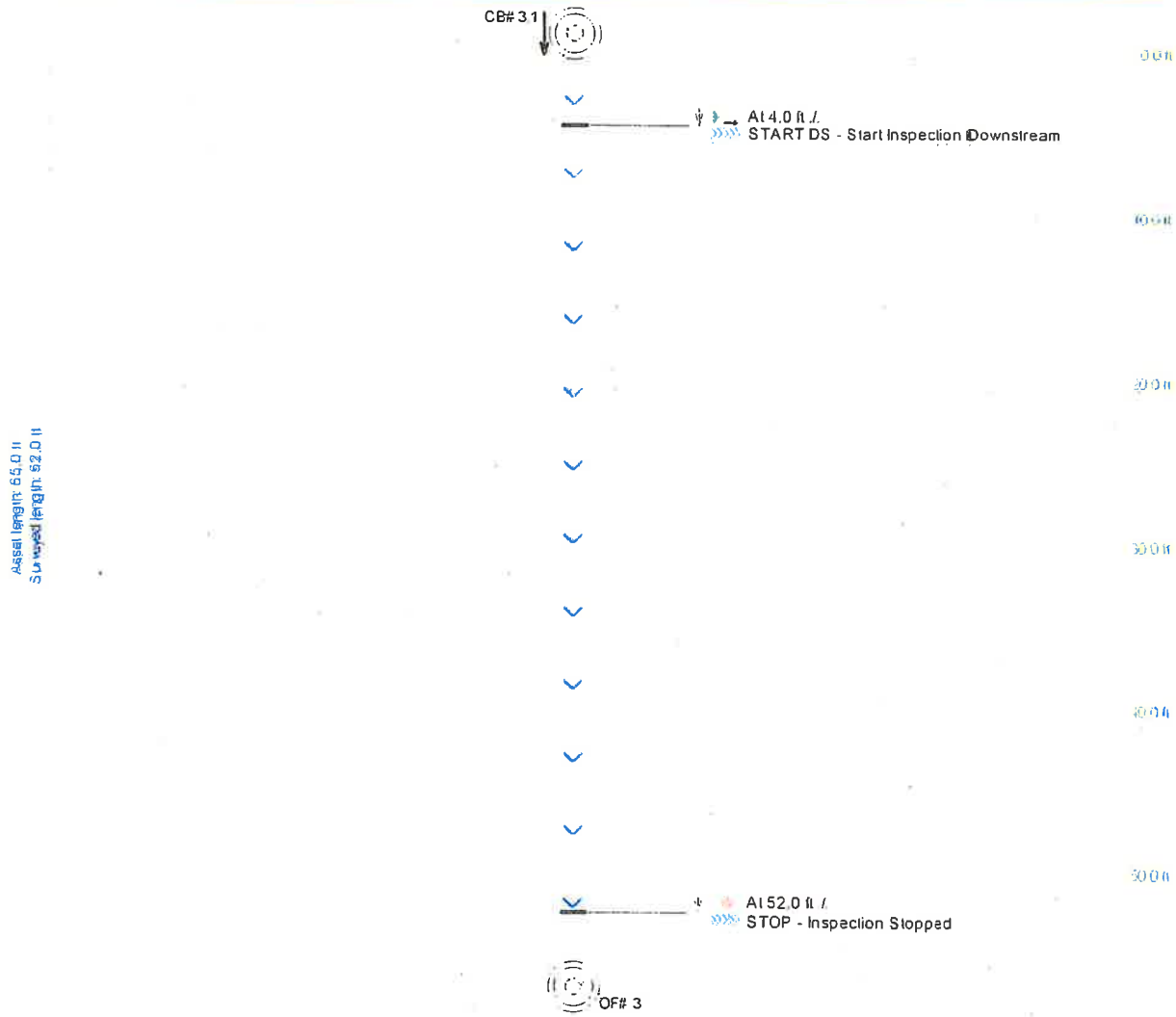
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-B	CB 3.1-OF 3	Boro of Mantoloking, NJ	Lagoon Lane - Location 13

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/6/2010		21	PVC	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	52.0	Sunny	Disc # 3 38:00



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P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 3.1-OF 3	Borough of Mantoloking-B	5/6/2010 2:38:11 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 3.1	OF# 3	55.0

Comments:

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
52.0		STOP	No	/		

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cean, New Jersey 07712
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Project Summary

Borough of Mantoloking-B

Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
2.2-2.3	5/6/2010	Lagoon Lane - Location 13	CB# 2.2	CB# 2.3	DIP	23.0	23.0
2.2-2.1	5/6/2010	Lagoon Lane - Location 13	CB# 2.2	CB# 2.1	ACP	202.0	195.0
2.1-3.1	5/6/2010	Lagoon Lane - Location 13	CB# 2.1	CB# 3.1	DIP	22.0	22.0
2.2-2.3	5/6/2010	Lagoon Lane - Location 13	CB# 2.2	CB# 2.3	DIP	23.0	23.0
2.2-2.1	5/6/2010	Lagoon Lane - Location 13	CB# 2.2	CB# 2.1	ACP	202.0	202.0
2.1-3.1	5/6/2010	Lagoon Lane - Location 13	CB# 3.1	CB# 2.1	DIP	22.0	22.0
3.1-OF 3	5/6/2010	Lagoon Lane - Location 13	CB# 3.1	OF# 3	PVC	55.0	52.0
Number of inspections:	7				**Subtotal**	**549.0 ft**	**539.0 ft**
					Total	**549.0 ft**	**539.0 ft**

AMERICAN PIPE CLEANING, LLC

Pipe Jetting & Vacuum Services • Digital TV Inspection
Manhole & Catch Basin Cleaning • Hydro Excavation

Borough of Mantoloking

DVD/Video Report

May 20th, 2010

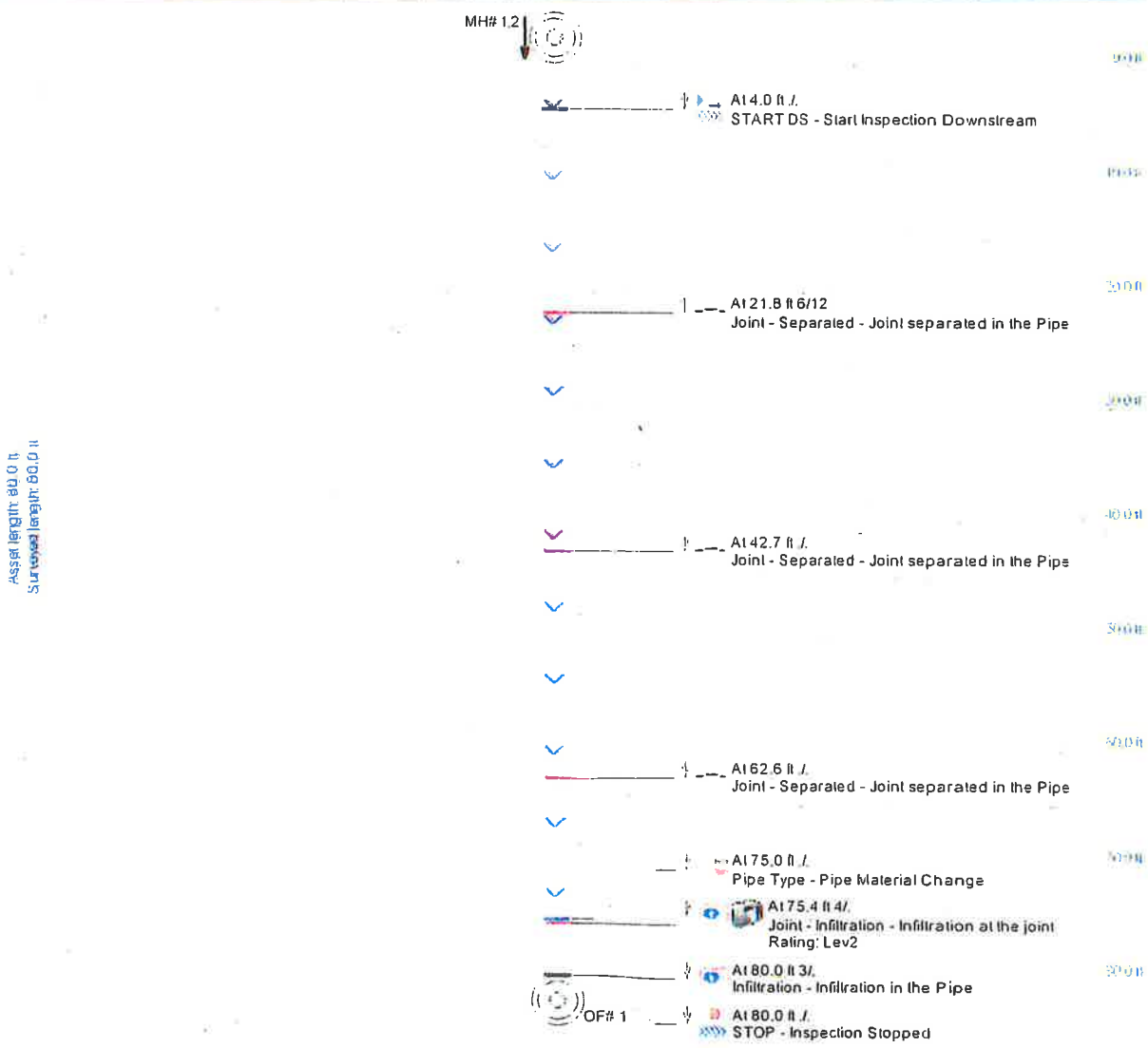
American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-C	MH 1.2-OF 1	Boro of Mantoloking,NJ	Channel Lane - Location 14

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/19/2010		16	HDPE	Garden

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	80.0	Cloudy	



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732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 1.2-OF 1	Borough of Mantoloking-C	5/19/2010 5:03:40 PM	Cloudy	Ray R.

Upstream Node:	Downstream Node:	Main Length:
MH# 1.2	OF# 1	80.0

Comments:
After cleaning and removal of sandbags. Previous inspection incorrectly noted pipe diameter at 18 "

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Comment
4.0		START DS	No	/		
21.8		Joint - Separated	No	6 / 12		Pipe run also bends slightly to the right
42.7		Joint - Separated	No	/		
62.6		Joint - Separated	No	/		
75.0		Pipe Type	No	/		Change to PVC
75.4		Joint - Infiltration	No	4 /	Light	Infiltrationn at the joint of the PVC and HDPE

80.0		Infiltration	No	3 /		At connection with "duckbill" / Tide-flex
80.0		STOP	No	/		

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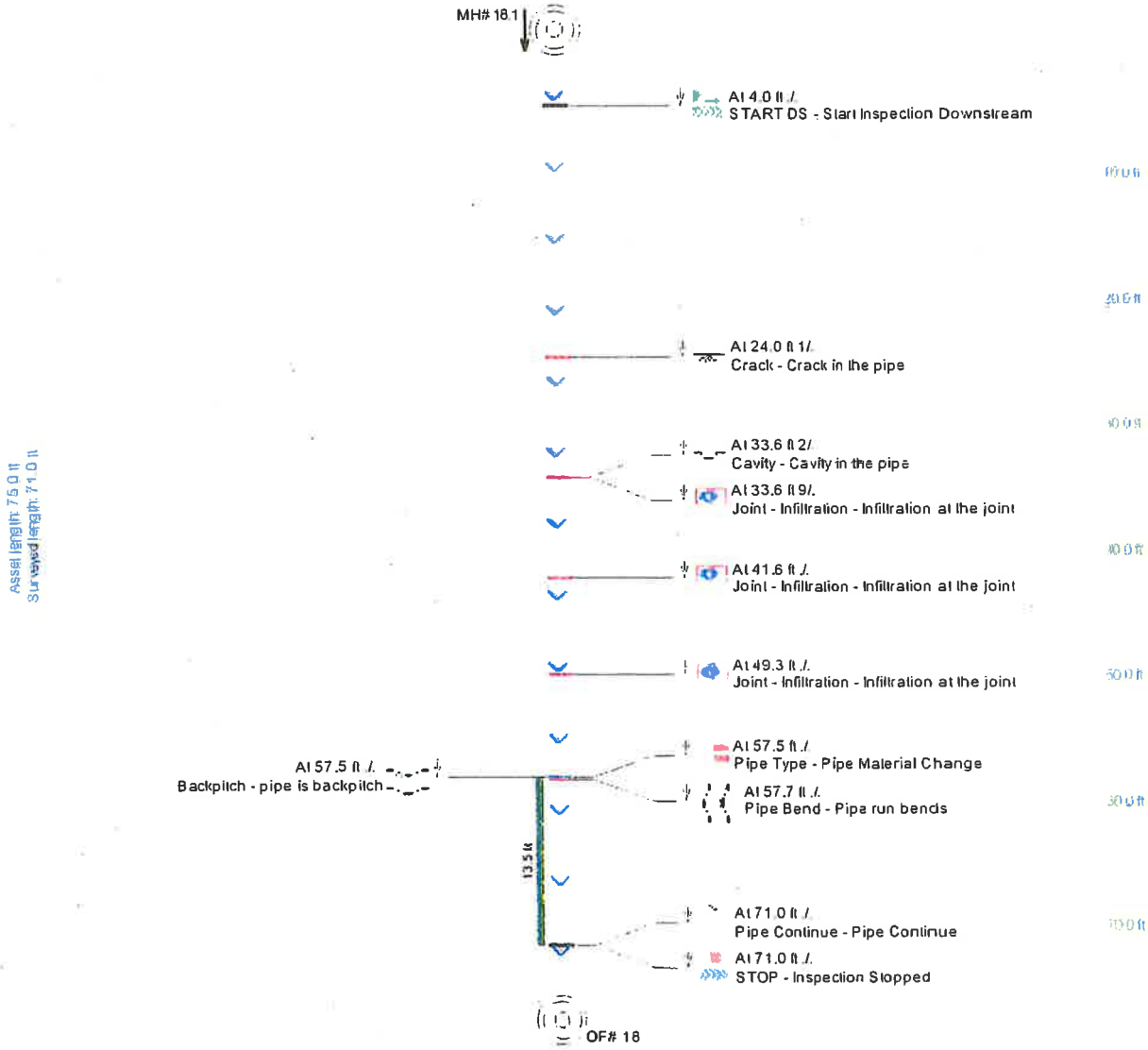
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-C	MH 18.1-OF 18	Boro of Mantoloking,NJ	Old Bridge St. - Location 1

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/19/2010		15	RCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	71.0	Sunny	Disc #6 0.00



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732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
MH 18.1-OF 18	Borough of Mantoloking-C	5/19/2010 2:55:16 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
MH# 18.1	OF# 18	75.0

Comments:
We reached the plug at 71' then recorded in reverse untill we reached 40' due to the "mist" in the line which made it hard to see

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START DS	No	/		
24.0		Crack	No	1 /	Longitudinal	
33.6		Cavity	No	2 /	Small	
33.6		Joint - Infiltration	No	9 /	Light	
41.6		Joint - Infiltration	No	/		
49.3		Joint - Infiltration	No	/		
57.5	13.5	Backpitch	No	/	Light	Pipe is backpitched
57.5		Pipe Type	No	/		Change to PVC- joint is separated
57.7		Pipe Bend	No	/		
71.0		Pipe Continue	No	/		Reached plug that was installed for inspection
71.0		STOP	No	/		Recorded in reverse untill 40'

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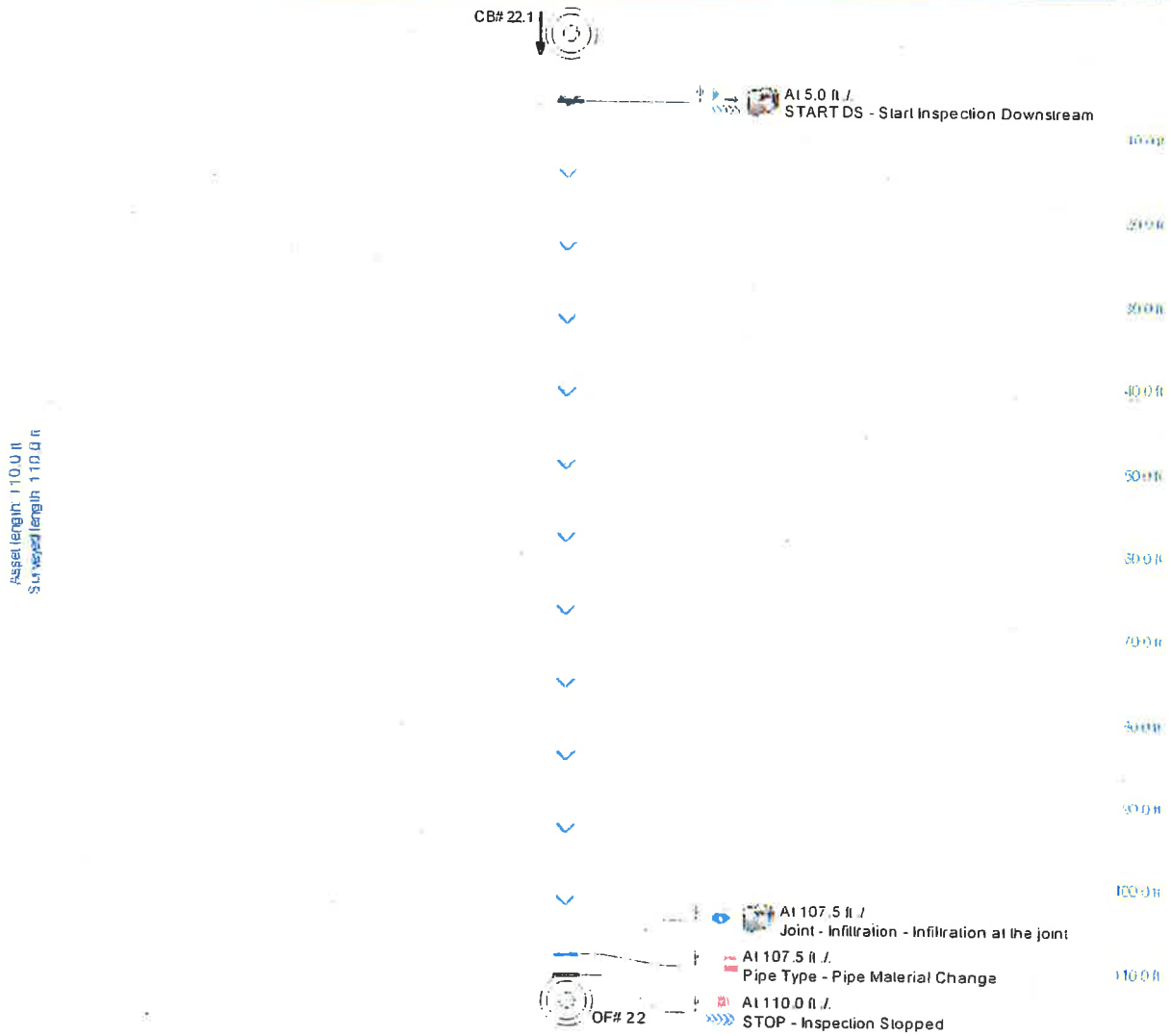
TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-C	CB 22.1-OF 22	Boro of Mantoloking,NJ	Bay Avenue - Location 4

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/17/2010	18	18	VCP	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Downstream	110.0	Sunny	Disc # 1



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P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 22.1-OF 22	Borough of Mantoloking-C	5/17/2010 11:05:33 AM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 22.1	OF# 22	110.0

Comments:
Camera goes under water at 50 lf approx and emerges at 93 lf

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
5.0		START DS	No	/		

107.5		Joint - Infiltration	No	/	Medium	Infiltration at joint with HDPE

107.5		Pipe Type	No	/		Changes to HDPE
110.0		STOP	No	/		

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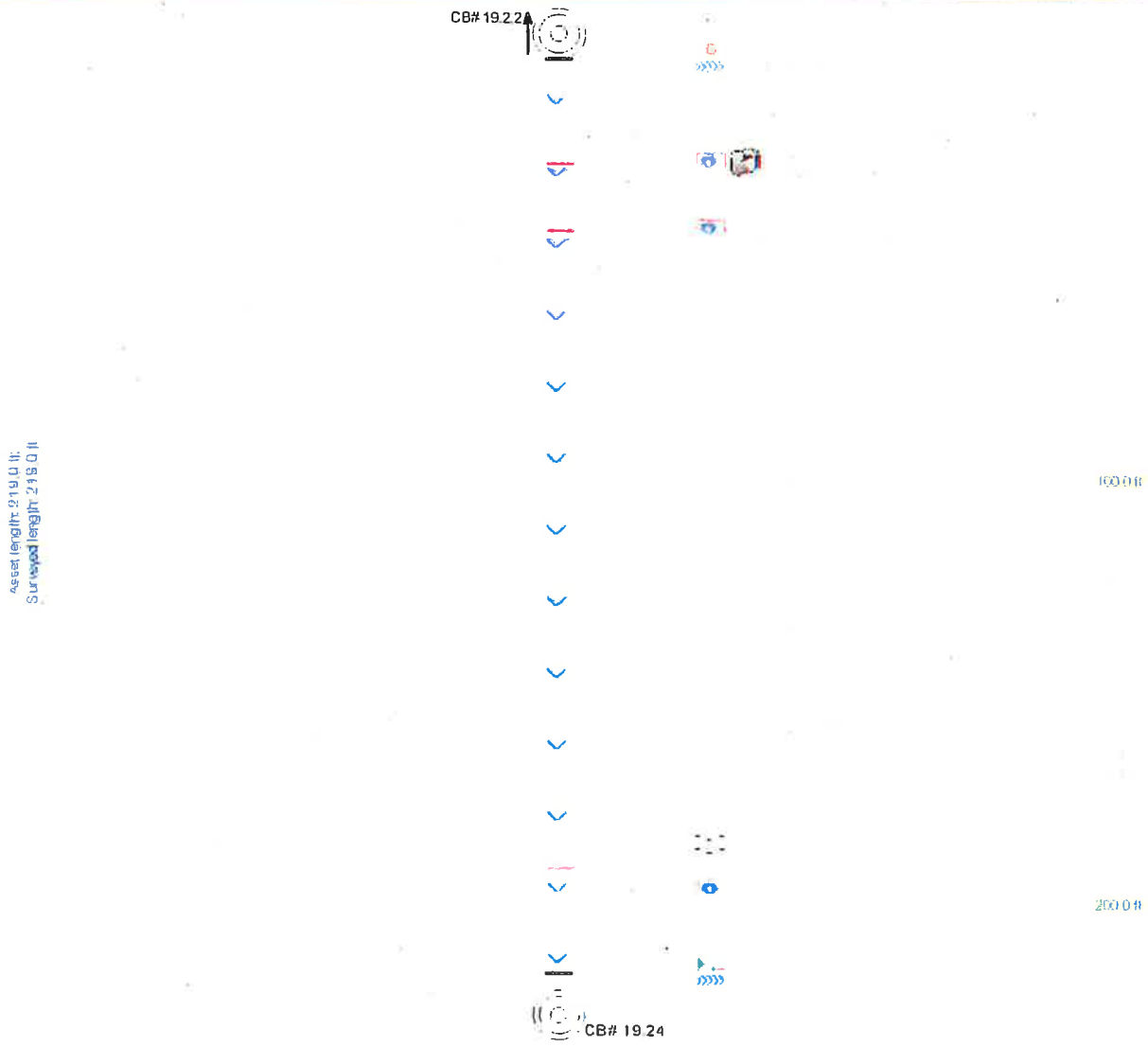
P.O. Box 2043
ean, New Jersey 07712
732-751-0006
732-751-0236 Fax

TV Inspection with Pipe-Run Graph

Project Name:	Asset ID:	City:	Address:
Borough of Mantoloking-C	CB 19.24-19.2.2	Boro of Mantoloking,NJ	Bay Ave. - Location 2

Date	Pipe Width:	Pipe Height:	Pipe Type:	Surface Condition:
5/7/2010		10	PVC	Asphalt

Direction:	Surveyed Footage:	Weather	Tape/Media #
Upstream	219.0	Sunny	Disc # 4



American Pipe Cleaning,LLC
P.O. Box 2043
Ocean, New Jersey 07712
732-751-0006
732-751-0236 Fax

Observation Report with Still Images

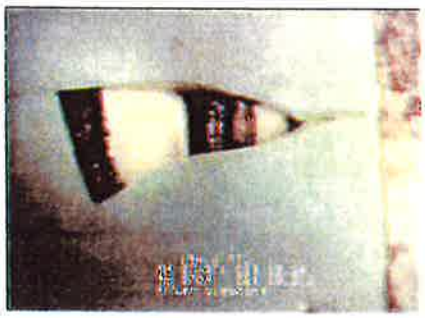
Main Asset ID:	Project Name:	Inspection Date:	Weather:	Operator:
CB 19.24-19.2.2	Borough of Mantoloking-C	5/7/2010 1:09:04 PM	Sunny	Ray R.

Upstream Node:	Downstream Node:	Main Length:
CB# 19.2.2	CB# 19.24	219.0

Comments:
After cleaning- the uptream basin has no bottom with groundwater coming in

Observations

Distance	Length	Code	Reversed	Clock Pos	Severity	Comment
4.0		START US	Yes	/		
28.8		Joint - Infiltration	Yes	/	Light	Crack at 9 o'clock
29.1		Sag	Yes	/		Also pipe run starts bend to the left at the joint
178.9		Joint - Infiltration	Yes	/		
194.6	0.0	Infiltration	Yes	1 /		Crack with inftration at the joint



219.0		STOP	Yes	/		

nerican Pipe Cleaning,LLC
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:ean, New Jersey 07712
32-751-0006
32-751-0236 Fax

Project Summary

Borough of Mantoloking-C

Main ID	Date	Address	Start MH	Finish MH	Pipe	Asset length	Surveyed Length
19.24-19.2.2	5/7/2010	Bay Ave. - Location 2	CB# 19.24	CB# 19.2.2	PVC	219.0	219.0
22.1-OF 22	5/17/2010	Bay Avenue - Location 4	CB# 22.1	OF# 22	VCP	110.0	110.0
18.1-OF 18	5/19/2010	Old Bridge St. - Location 1	MH# 18.1	OF# 18	RCP	75.0	71.0
1.2-OF 1	5/19/2010	Channel Lane - Location 14	MH# 1.2	OF# 1	HDPE	80.0	80.0
umber of inspections:	4			**Subtotal**		**484.0 ft**	**480.0 ft**
				Total		**484.0 ft**	**480.0 ft**

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

APPENDIX C – CLOSEOUT INVESTIGATION FORM

Closeout Investigation Form

Municipality Information	
	Municipality: Borough of Mantoloking County: Ocean
	NJPDES # : NJG0153281 PI ID #: 203290
	Team Member / Title: Lawrence Plevier, PE, CME, Borough Engineer

Outfall #: _____Location: _____

Receiving Waterbody: _____

Basis for Submittal:

(☐) A non-stormwater discharge was found, but no source was located within six months.

(☐) An intermittent non-stormwater discharge was observed, and three unsuccessful investigations were conducted to investigate the discharge while it was flowing.

Describe each phase of your investigation, including dates. Attach additional pages as necessary:

Inspector's Name: _____

Title: _____

Signature: _____

Date: _____

Complete and attach this form to the appropriate Illicit Connection Inspection Report Form and submit with the Annual Report and Certification.

BOROUGH OF MANTOLOKING

STORMWATER POLLUTION PREVENTION PLAN (SPPP)

APPENDIX D – PERMIT COPIES

RECEIVED
MANTOLOKING BOROUGH HALL
2009 MAR 16 A 10: 39
202 DOWNER AVE
MANTOLOKING, NJ 08738

JON S. CORZINE
Governor

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

MARK N. MAURIELLO
Acting Commissioner

Bureau of Nonpoint Pollution Control
Division of Water Quality
P.O. Box 029
Trenton, N.J. 08625-0029
Tel: 609-633-7021 / FAX: 609-984-2147
http://www.state.nj.us/dep/dwq/bnpc_home.htm

March 27, 2009

Douglas Popaca
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
Mantoloking, NJ 08738-0247

Re: Municipal Stormwater Regulation Program
NJPDES: NJG0153281 / PI ID #: 203290
Notice of Final Permit Decision
R9 -Tier A Municipal Stormwater General Permit

Dear Douglas Popaca:

This correspondence serves as notice pursuant to N.J.A.C. 7:14A-15.15 of the Department's decision to issue final a renewal of the Tier A Municipal Stormwater General Permit NJ0141852 (Tier A Permit) effective March 1, 2009. The Department has issued a Response to Comments document, which is available at http://www.state.nj.us/dep/dwq/msrp_home.htm.

Enclosed is the final New Jersey Pollutant Discharge Elimination System (NJPDES) General Permit, which has been issued in accordance with N.J.A.C. 7:14A, and your Authorization to Discharge page.

The Department is not requiring any new major capital projects or expenditures in the renewal permit due to current statewide economic concerns and has made a number of changes designed to give municipalities more flexibility in meeting permit requirements. Below is a brief summary of the changes to the Tier A Permit.

- establish a definition for "Permanent Structure" to clarify eligible structures for De-Icing Storage;
- establish a point system for the Local Public Education Program to give more flexibility in implementing the BMP;
- remove the 7 day requirement from the Yard Waste Collection Program and Ordinance;
- require the adoption and enforcement of a Refuse Container Ordinance;
- require the adoption and enforcement of a Private Catch Basin Retrofitting Ordinance;
- require the adoption and enforcement of a Fertilizer Management Ordinance (for those municipalities affected by the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments TMDL);

- clarify the Storm Drain Inlet Retrofitting BMP to specifically state that "resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen)" is repaving;
- revise the Stormwater Facility Maintenance BMP so that catch basin cleaning becomes a separate BMP and create a schedule for catch basin inspection and cleaning for those municipalities with 1,000 or more catch basins;
- change the Road Erosion Control BMP to an Optional Measure;
- require municipalities to record where and when vehicle and equipment washing activities occur;
- refine the language within the minimum standard of the Employee Training BMP;
- require the revision of the SPPP on or before June 1, 2009 to incorporate the changes required by the renewal of the Tier A Permit;
- create an Attachment E which lists the approved activities and point totals for the Local Public Education BMP; and
- create an Attachment F to list the municipalities/counties which are affected by the "Non-Tidal Passaic River Basin Addressing Phosphorus Impairments" TMDL.

The Department has made minor changes to correct typographical and grammatical errors. In addition, the Department has made the following substantive changes to the Tier A Permit upon adoption:

- established a definition for "Existing Permittee" and clarified the definition for "New Permittee";
- established a definition for "original EDPA" since some statewide basic requirement implementation schedules from the March 1, 2004 permits extend into the timeframe of the March 1, 2009 renewal permit; and
- changed the reporting period for the Annual Report and Certification to January 1st through December 31st each year.

The Bureau of Nonpoint Pollution Control has developed a model Refuse Container Ordinance and a model Private Catch Basin Retrofitting Ordinance which are available at http://www.state.nj.us/dep/dwq/tier_a.htm. A model Fertilizer Management Ordinance is available by contacting the Division of Watershed Management at (609) 984-0058.

Thank you for your continued support of the Department's Clean Water Initiative. If you have questions or comments regarding the renewal please contact your Case Manager at (609) 633–7021.

Sincerely,

Ed Frankel

Ed Frankel, P.P., Section Chief
Bureau of Nonpoint Pollution Control

C: Water Compliance and Enforcement Regional Office

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

AUTHORIZATION TO DISCHARGE
R9 -Tier A Municipal Stormwater General Permit

Facility Name:

MANTOLOKING BORO

PI ID #: 203290

Facility Address:
202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

NJPDES #: NJG0153281

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Operating Entity:
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Issuance Date:	Effective Date:	Expiration Date:
02/27/2009	03/01/2009	02/28/2014

Your Request for Authorization under NJPDES General Permit No. NJ0141852 has been approved by the New Jersey Department of Environmental Protection.

Ed Frankel

Date: 02/27/2009

Ed Frankel, P.P., Section Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

PART I

NARRATIVE REQUIREMENTS

Tier A Municipal Stormwater General Permit

A. Authorization Under this Permit

1. Permit Area

a. This permit applies to all areas of the State of New Jersey.

2. Eligibility

a. This permit may authorize all new and existing stormwater discharges to surface water and groundwater from small municipal separate storm sewer systems (MS4s) owned or operated by municipalities assigned to Tier A under N.J.A.C. 7:14A-25.3(a)1 (Tier A Municipalities), except as provided in A.5 below.

b. On a case-by-case basis, the Department may use this permit to authorize new and existing stormwater discharges to surface water and groundwater from small MS4s (or portions of small MS4s) owned or operated by Tier B Municipalities. As used in this permit, the term "Tier A Municipality" includes Tier B Municipalities that seek or obtain authorization pursuant to this provision of this permit.

c. After the Effective Date of Permit Authorization (EDPA), the permit authorizes the following new and existing non-stormwater discharges from small MS4s owned or operated by Tier A Municipalities:

i. Water line flushing and discharges from potable water sources

ii. Uncontaminated ground water (e.g., infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters)

iii. Air conditioning condensate (excluding contact and non-contact cooling water)

iv. Irrigation water (including landscape and lawn watering runoff)

v. Flows from springs, riparian habitats and wetlands, water reservoir discharges and diverted stream flows

vi. Residential car washing water, and residential swimming pool discharges

vii. Sidewalk, driveway and street wash water

viii. Flows from fire fighting activities including the washing of fire fighting vehicles

ix. Flows from rinsing of the following equipment with clean water:
- Beach maintenance equipment immediately following their use for their intended purposes; and
- Equipment used in the application of salt and de-icing materials immediately following salt and de-icing material applications. Prior to rinsing with clean water, all residual salt and de-icing materials must be removed from equipment and vehicles to the maximum extent practicable using dry cleaning methods (e.g., shoveling and sweeping). - Recovered materials are to be returned to storage for reuse or properly discarded.
- Rinsing of equipment in the above situations is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

d. If any of the discharges listed in 2.c above are identified by the municipality as a significant contributor of pollutants to or from the MS4, the Tier A Municipality must address the discharge as an illicit connection or as an improper disposal of waste as specified in Part I, Section F of this permit

3. **Authorization**

a. In order to obtain authorization under this permit (except for automatic renewal of authorization under A.4 below) a complete Request for Authorization (RFA) shall be submitted in accordance with the requirements of this permit. Upon review of the RFA, the Department may, in accordance with N.J.A.C. 7:14A-6.13, either:

i. Issue notification of authorization under this permit, in which case, authorization is deemed effective the first day of the following month of the date of the notification of authorization;

ii. Deny authorization under this permit and require submittal of an application for an individual permit; or

iii. Deny authorization under this permit and require submittal of an RFA for another general permit.

b. For discharges from a small MS4 authorized by this permit, the Tier A Municipality is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in the NJPDES permit or listed and quantified in the NJPDES application or RFA shall not constitute a violation of the permit.

c. Authorization under this permit shall cease to be effective under N.J.A.C. 7:14A-6.13(f), (h), (j) and (o), where applicable.

4. **Automatic Renewal of Authorization**

a. Authorization under this permit will be automatically renewed when this general permit is reissued as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 so long as the discharge authorized under the general permit continues to be eligible. The Department shall issue a notice of renewed authorization to the Tier A Municipality.

b. If the Tier A Municipality is aware of any information in the most recently submitted RFA that is no longer true, accurate, and/or complete, the Tier A Municipality shall provide the correct information to the Department within 90 days of the effective renewal authorization notice.

5. **Stormwater Discharges Not Authorized**

a. This permit does not authorize "stormwater discharge associated with industrial activity" as defined in N.J.A.C. 7:14A-1.2. Types of facilities that a Tier A Municipality may operate and that are considered to be engaging in "industrial activity" include but are not limited to certain landfills and recycling facilities, certain transportation facilities (including certain local passenger transit and air transportation facilities), certain facilities handling domestic sewage or sewage sludge, steam electric power generating facilities, and construction activity that disturbs five acres or more (see N.J.A.C. 7:14A-1.2 for the full definition of "stormwater discharge associated with industrial activity"). Any municipality that operates an industrial facility with such a discharge must submit a separate request for authorization (RFA) or individual permit application for that discharge. An RFA submitted for the Tier A Municipal Stormwater General Permit does not qualify as an RFA for such a discharge.

   i. Deadlines to apply for a NJPDES permit for "stormwater discharge associated with industrial activity" are set forth in N.J.A.C. 7:14A-24.4(a)1. If such a discharge is from a facility (other than an airport, powerplant, or uncontrolled sanitary landfill) that is owned or operated by a municipality with a population of less than 100,000, the municipality shall submit the RFA or individual permit application by March 3, 2004. If such a discharge is from any other industrial facility, N.J.A.C. 7:14A-24.4(a)1 specifies earlier deadlines to apply.

b. This permit does not authorize "stormwater discharge associated with small construction activity" as defined in N.J.A.C. 7:14A-1.2. In general, this is the discharge to surface water of stormwater from construction activity that disturbs at least one but less than five acres (see N.J.A.C. 7:14A-1.2 for the full definition). Any municipality that operates a construction site with such a discharge must submit a separate RFA or individual permit application for that discharge. An RFA submitted for the Tier A Municipal Stormwater General Permit does not qualify as an RFA for such a discharge.

c. This permit does not authorize any stormwater discharge that is authorized under another NJPDES permit. A municipality does not have to implement measures contained in this NJPDES permit for stormwater discharges at facilities owned or operated by that municipality that are regulated under a separate NJPDES stormwater permit authorizing those discharges.

d. This permit does not authorize stormwater discharges from projects or activities that conflict with an adopted areawide or Statewide WQM plan.

B. Requests for Authorization Requirements

1. Deadline for Requesting Authorization for an Existing Discharge

a. An RFA for the existing discharges from the small MS4 owned or operated by a Tier A Municipality must have been submitted to the Department on or before March 3, 2004, except as provided below.

   i. If a municipality receives notice from the Department that it has been reassigned from Tier B to Tier A, or that a special designation is made under N.J.A.C. 7:14A-25.2(a)4, the deadline to submit an RFA is 180 days after the receipt of that notice, unless the Department approves a later date.

   ii. The Department may, in its discretion, accept an RFA submitted after the foregoing deadline; however, the municipality may still be held liable for violating the deadline to apply in accordance with N.J.A.C. 7:14A-25.4 and for discharging pollutants without a valid NJPDES permit in accordance with N.J.A.C. 7:14A-2.1(d).

2. Deadline for Requesting Authorization for a New Discharge

a. An RFA for discharges from a new small MS4 owned or operated by a Tier A Municipality must be submitted to the Department at least ninety (90) days prior to the operation of the new MS4 system.

   i. A Tier A Municipality that already has authorization to discharge from a small MS4 under the Tier A Municipal Stormwater Permit does not need to submit an additional RFA for the expansion of an existing small MS4.

   ii. A new small MS4 is a small MS4 that did not exist on March 3, 2004 and results in a new discharge to surface or ground waters of the State.

3. Requesting Authorization

a. A separate RFA shall be submitted by each Tier A Municipality applying for authorization under this permit.

b. A single RFA is required for the entire stormwater discharge from the small MS4 owned or operated by and located within a single municipality. Multiple RFAs are not required for multiple municipal operations (e.g., municipally owned and operated maintenance facilities, garages, and/or offices).

4. Contents of the Request for Authorization

a. A completed RFA shall include all of the following information regarding the Tier A Municipality and shall be completed using the Department's RFA form:

   i. The name of the municipality that operates the small MS4, county it is located in, and the address of the main municipal office (e.g., city hall, town hall, or municipal building).

   ii. The name and mailing address of the Municipal Stormwater Program Coordinator who will submit any reports or certifications required by the permit and to whom the Department shall send all correspondence concerning the permit.

   iii. A certification acknowledging the best management practices and measurable goals specified in the permit.

   iv. Additional information may be required by the Department to be included as part of the RFA if the Department determines that such additional information (including other data, reports, specifications, plans, permits, or other information) is reasonably necessary to determine whether to authorize the discharge under this permit.

5. Where to Submit

a. A completed and signed RFA shall be submitted to the Department at the address specified on the Department's RFA form.

C. Definitions

1. The following definitions apply to this permit.

a. "Catch Basin" means a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants.

b. "EDPA" or "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under the Tier A Municipal Stormwater General Permit becomes effective. This date may be found on the permittee's Authorization to Discharge.

c. "Existing Permittee" means a municipality that was authorized to discharge under the Tier A Municipal Stormwater General Permit on February 28, 2009.

d. "Illicit connection" means any physical or non-physical connection that discharges the following to a municipal separate storm sewer system, unless that discharge is authorized under a NJPDES permit other than the NJPDES permit for discharges from that system (non-physical connections may include, but are not limited to, leaks, flows, or overflows into the municipal separate storm sewer system):

   i. Domestic sewage;

   ii. Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater); or

   iii. Any category of non-stormwater discharges that the Tier A Municipality identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).

e. "MS4" means a municipal separate storm sewer system.

f. "Municipality" means a "municipality" as defined in the Municipal Land Use Law at N.J.S.A. 40:55D-5, that is, any city, borough, town, township, or village.

g. "Municipal separate storm sewer" means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

   i. Owned or operated by the United States, an interstate agency, 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 a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface water or groundwater;

   ii. Designed and used for collecting or conveying stormwater;

   iii. Which is not a combined sewer;

   iv. Which is not part of a POTW; and

   v. Which is not either of the following:
   - A separate storm sewer(s) that is at an industrial facility, and that collects or conveys stormwater discharges associated with industrial activity that occurs at that facility; or
   - A separate storm sewer(s) that is at a construction site, and that collects or conveys stormwater discharges associated with small construction activity that occurs at that site.

h. "New Permittee" means a municipality that obtains its first authorization to discharge under the Tier A Municipal Stormwater General Permit after February 28, 2009.

i. "Original EDPA" means the initial date of the permittee's authorization to discharge under the Tier A (or, for purposes of F.4. below, Tier A or Tier B) Municipal Stormwater General Permit issued on February 2, 2004.

j. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (a door is recommended, but not required). A fabric frame structure is a permanent structure if it meets the following specifications:

   i. structure must be designed to withstand at least 110 mph winds;

   ii. structure must be covered by a PVC or other similar fire rated material with a minimum twenty (20) year warranty;

   iii. concrete blocks, jersey barriers or other similar material must be placed around the interior of the structure to protect the side walls during loading and unloading de-icing materials;

   iv. the design must prevent stormwater run-on and run through;

   v. structure must be erected on an impermeable slab;

   vi. structure cannot be open sided; and

   vii. must have a roll up door or other means of sealing the access way from wind driven rainfall.

k. "Small municipal separate storm sewer system" or "small MS4" means all municipal separate storm sewers (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:

   i. Owned or operated by municipalities described under N.J.A.C. 7:14A-25.1(b);

   ii. Owned or operated by county, State, interstate, or Federal agencies, and located at public complexes as described under N.J.A.C. 7:14A-25.2(a)2; or

   iii. Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or

   iv. Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.

l. "Solid and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids.

m. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, is captured by separate storm sewers or other sewerage or drainage facilities, or is conveyed by snow removal equipment.

n. "Stormwater facility" includes, but is not limited to: catch basins, detention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances.

o. "Yard waste" means loose leaves and grass clippings.

D. Special Conditions

1. Sharing of Responsibilities

a. A Tier A Municipality may rely on another governmental, private, or nonprofit entity (for example, a watershed association) to satisfy the municipality's NJPDES permit obligations to implement one or more control measures (or components (s) thereof) pursuant to N.J.A.C. 7:14A-25.7(a) if:

i. The other entity, in fact, implements the measure(s), or component(s) thereof;

ii. The particular measure(s), or component(s) thereof, is at least as stringent as the corresponding NJPDES permit requirement;

iii. The other entity agrees in writing (or is required by law) to implement the measure(s), or component(s) thereof, on the Tier A Municipality's behalf. The municipality is responsible for compliance with this permit if the other entity fails to implement the measure(s), or component(s) thereof. In the annual reports the municipality must submit under Part I, Section H.3, the municipality shall specify that it is relying on another entity to satisfy some of the Tier A Municipality's NJPDES permit obligations.

iv. If the municipality is relying on another entity regulated under the NJPDES permit program to satisfy all of that Tier A Municipality's NJPDES permit obligations, including that municipality's obligation to file these annual reports, the municipality shall notify the Department of this reliance in writing, and shall also note this reliance in the municipality's SPPP.

E. Stormwater Program and Stormwater Pollution Prevention Plan

1. Stormwater Program

a. Tier A Municipalities are required to develop, implement, and enforce a stormwater program. This program shall be designed to reduce the discharge of pollutants from the municipality's small MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Federal Act and the State Act by including the Statewide Basic Requirements (SBRs) set forth in Part I, Section F and any Additional Measures (AMs) required under Part I, Section G below. At the municipality's discretion, the stormwater program may also include Optional Measures (OMs) also in accordance with Part I, Section G below.

2. Stormwater Pollution Prevention Plan (SPPP)

a. Tier A Municipalities have prepared and implemented a written Stormwater Pollution Prevention Plan (SPPP) that describes the Tier A Municipality's stormwater program and serves as the mechanism for the implementation of the Statewide Basic Requirements. The SPPP must address stormwater quality issues related to new development, redevelopment and existing development. The SPPP shall include, at a minimum, all of the information and items identified in Attachment A.

i. Tier A Municipalities shall revise their SPPP on or before June 1, 2009 to incorporate additional Statewide Basic Requirements, best management practices and other changes required by the renewal of the Tier A Permit.

b. The SPPP shall be signed, dated and retained by the Municipal Stormwater Program Coordinator.

c. For any projects or activities which the municipality contracts out to private contractors after the EDPA, the awarded contract must contain conditions that the contractor must conduct such projects or activities in such a manner that is in compliance with the municipality's SPPP and this permit's conditions. The municipality is responsible for any violations of this permit resulting from a contractor's noncompliance.

d. SPPPs may be amended so long as they continue to meet the requirements of this permit. Any amended SPPPs shall be signed, dated, implemented, retained, and otherwise treated in the same manner as the original SPPP. The Tier A Municipality shall retain each previous SPPP for a period of at least five years from the date of that previous SPPP. This period may be extended by written request of the Department at any time.

F. Statewide Basic Requirements (SBRs)

1. **Stormwater quality issues related to new development, redevelopment and existing development are to be addressed through the implementation of the following Statewide Basic Requirements (SBRs). The permit specifies the BMPs that will be implemented for those SBRs. These SBRs and related BMPs are to be detailed in the municipality's SPPP.**

   a. Additional information is provided and each of the SBRs and related BMPs are described in more detail in the Department's Tier A Municipal Stormwater Permit Guidance Document.

2. **Public Notice**

   a. Minimum Standard - Tier A Municipalities shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of the Tier A Municipality's stormwater program.

   b. Measurable Goal - Tier A Municipalities shall certify annually that all applicable State and local public notice requirements were followed.

   c. Implementation - On March 1, 2009 and thereafter.

3. **Post-Construction Stormwater Management in New Development and Redevelopment**

   a. Minimum Standard - To prevent or minimize water quality impacts, the Tier A Municipality shall implement, and enforce a program to address stormwater runoff from new development and redevelopment projects (including projects operated by the municipality itself) that disturb one acre or more, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the municipality's small MS4. The municipality shall in its post-construction program:

      i. Adopt and reexamine a municipal stormwater management plan (or adopt amendments to an existing municipal stormwater management plan) in accordance with N.J.A.C. 7:8-4.

      ii. Adopt and implement a municipal stormwater control ordinance or ordinances in accordance with N.J.A.C. 7:8-4. The ordinance(s) will control stormwater from non-residential development and redevelopment projects.

      iii. Ensure that any residential development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7) comply with those standards (including any exception, waiver, or special area standard that was approved under N.J.A.C. 5:21-3).

      iv. Where necessary to implement the municipal stormwater management plan, the municipal stormwater control ordinance(s) will also:
      - Control aspects of residential development and redevelopment projects that are not pre-empted by the Residential Site Improvement Standards; and
      - Set forth special area standards approved by the Site Improvement Advisory Board for residential development or redevelopment projects under N.J.A.C. 5:21-3.5.

      v. Ensure adequate long-term operation and maintenance of BMPs.

      vi. Enforce, through the stormwater control ordinance(s) or a separate ordinance, compliance with standards set forth in Attachment C of the permit to control passage of solid and floatable materials through storm drain inlets.

vii. This post-construction program shall also require compliance with the applicable design and performance standards established under N.J.A.C. 7:8 for major development, unless:
- Those standards do not apply because of a variance or exemption granted under N.J.A.C. 7:8; or
- Alternative standards are applicable under an areawide or Statewide Water Quality Management Plan adopted in accordance with N.J.A.C. 7:15.

b. Measurable Goal - Tier A Municipalities shall certify annually that that they have developed, implemented, and are actively enforcing a program to address stormwater runoff from new development and redevelopment projects that discharge into the Tier A Municipality's small MS4 in accordance with the minimum standard.

c. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall:

i. Enforce stormwater control ordinance(s), prepared in accordance with N.J.A.C. 7:8-4, when approved by the county review agency (and, where N.J.A.C. 7:50-3 is applicable, certified by the Pinelands Commission) or shall enforce stormwater control ordinance(s) when conditionally approved by the county review agency upon adoption by the municipality of the amendments specified by the county review agency (and, where N.J.A.C. 7:50-3 is applicable, certified by the Pinelands Commission).

ii. Ensure that any residential new development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7) comply with those standards (including any exception, waiver, or special area standard that was approved under N.J.A.C. 5:21-3).

iii. Ensure adequate long-term operation and maintenance of BMPs on property owned or operated by the municipality.

iv. Ensure adequate long-term operation and maintenance of BMPs on property not owned or operated by the municipality

v. Enforce, through the stormwater control ordinance(s) or a separate ordinance compliance with the standards set forth in Attachment C of the permit to control passage of solid and floatable materials through storm drain inlets for storm drain inlets not installed by the Tier A Municipality.

vi. Comply with the standards set forth in Attachment C of the permit to control passage of solid and floatable materials through storm drain inlets for storm drain inlets the municipality installs within the Tier A Municipality's small MS4.

4. Local Public Education

a. Local Public Education Program - Tier A Municipalities shall implement a Local Public Education Program that focuses on providing the public with information on the impact of stormwater discharges to surface and ground waters of the State and steps that the public can take to reduce pollutants in stormwater runoff. Appropriate information to be covered during these educational activities shall include, but is not limited to, local stormwater related municipal ordinances [Pet Waste Ordinance, Litter Ordinance, Improper Disposal of Waste Ordinance, Wildlife Feeding Ordinance, Illicit Connection Ordinance, Refuse Container / Dumpster Ordinance, Private Storm Drain Inlet Retrofitting, and Fertilizer Management Ordinance (if applicable)]; proper application, storage and disposal of fertilizer and pesticides; home composting and yard waste recycling; use of native or well-adapted vegetation; local stream and/or shoreline restoration activities; watershed education; and general nonpoint source education.

i. Minimum Standard - Tier A Municipalities shall annually conduct educational activities that total a minimum of 10 points. Each approved activity is listed and has been assigned a point value in Attachment E of the permit.

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have accumulated the number of points required to meet the Local Public Education Program minimum standard. Exact dates (e.g., month, day, year) and details of each educational activity (e.g., photos of the mural) shall be reported to the Department in the Annual Report.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall develop and begin implementing the Local Public Education Program minimum standard.

b. Storm Drain Inlet Labeling and Maintenance

i. Minimum Standard - Tier A Municipalities shall label all storm drain inlets along municipal streets with sidewalks, and all storm drain inlets within plazas, parking areas, or maintenance yards that are operated by the municipality, and maintain the legibility of those labels.

ii. Measurable Goal - Tier A Municipalities shall certify annually that a storm drain inlet labeling program has been developed and is being implemented.

iii. Implementation - Within 60 months from the original EDPA and thereafter, Tier A Municipalities shall ensure, for the storm drains identified in the minimum standard, that all storm drain inlets have been labeled and that the labels are being maintained.

5. **Improper Disposal of Waste**

a. Pet Waste Ordinance

i. Minimum Standard -Tier A Municipalities shall have adopted and shall enforce an ordinance that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any property, public or private, not owned or possessed by that person. Information on the Pet Waste Ordinance and the benefits of proper disposal of pet solid waste shall be distributed with pet licenses.

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have met the Pet Waste Ordinance minimum standard.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the Pet Waste Ordinance minimum standard.

b. Litter Ordinance

i. Minimum Standard -Tier A Municipalities shall have adopted and shall enforce a litter ordinance or enforce the existing State litter statute (N.J.S.A 13:1E-99.3).

ii. Measurable Goal -Tier A Municipalities shall certify annually that they have met the Litter Ordinance minimum standard.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the Litter Ordinance minimum standard.

c. Improper Disposal of Waste Ordinance

i. Minimum Standard -Tier A Municipalities shall have adopted and shall enforce an ordinance prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the small MS4 (excluding those authorized in Part I, Section A.2.c).

ii. Measurable Goal -Tier A Municipalities shall certify annually that they have met the Improper Waste Disposal Ordinance minimum standard.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the Improper Disposal of Waste Ordinance minimum standard.

d. Wildlife Feeding Ordinance

i. Minimum Standard -Tier A Municipalities shall have adopted and shall enforce an ordinance that prohibits the feeding in any public park or on any other property owned or operated by the Tier A Municipality of any wildlife (excluding confined animals, for example, wildlife confined in zoos, parks, or rehabilitation centers or unconfined wildlife at environmental education centers, or feral cats as part of an approved Trap-Neuter-Release (TNR) program).

ii. Measurable Goal -Tier A Municipalities shall certify annually that they have met the Wildlife Feeding Ordinance minimum standard.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the Wildlife Feeding Ordinance minimum standard.

e. Yard Waste Ordinance / Collection Program

i. Minimum Standard -Tier A Municipalities shall have adopted and shall enforce an ordinance that prohibits placing non-containerized yard wastes in the cartway of the street or shall have developed and implemented a yard waste collection and disposal program. A yard waste collection program shall include the adoption and enforcement of an ordinance prohibiting the placing of yard waste closer than 10 feet from any storm sewer inlet along the street, unless they are bagged or otherwise containerized. The frequency of pickups shall be determined at the discretion of the Tier A Municipality but must be part of a set yard waste collection schedule which is noticed to all municipal residents and businesses. Any area, which the municipality determines to have no yard waste, will be exempt from the collections.

ii. Measurable Goal -Tier A Municipalities shall certify annually that they have met the Yard Waste minimum standard. Tier A Municipalities that have chosen to implement the yard waste collection program must include the collection schedule dates in the annual report.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the Yard Waste Ordinance / Collection Program minimum standard.

f. Refuse Container / Dumpster Ordinance

i. Minimum Standard - Tier A Municipalities shall adopt and enforce an ordinance requiring dumpsters and other refuse containers that are outdoors or exposed to stormwater to be covered at all times and which prohibits the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers [excluding permitted temporary demolition containers, refuse containers at industrial facilities authorized to discharge stormwater under a valid NJPDES permit, litter receptacles, individual homeowner trash and recycling containers, and containers that hold large bulky items (e.g., furniture, bound carpet and padding) only].

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have met the Refuse Container Ordinance minimum standard.

iii. Implementation - Tier A Municipalities shall have adopted and begin enforcing the Refuse Container / Dumpster Ordinance minimum standard on or before September 1, 2010.

g. Fertilizer Management Ordinance

i. Minimum Standard - Tier A Municipalities identified in the adopted Non-Tidal Passaic River Basin Addressing Phosphorus Impairments TMDL shall adopt and enforce a fertilizer management ordinance, consistent with the model ordinance provided by the Department's Division of Watershed Management. (The list of municipalities required to adopt the ordinance is found in the adopted Non-Tidal Passaic River Basin Addressing Phosphorus Impairments TMDL and in Attachment F of this permit).

ii. Measurable Goal - Tier A Municipalities, identified in the adopted Non-Tidal Passaic River Basin Addressing Phosphorus Impairments TMDL and Attachment F of this permit, shall certify annually that they have met the Fertilizer Management Ordinance minimum standard.

iii. Implementation - Tier A Municipalities, identified in the adopted Non-Tidal Passaic River Basin Addressing Phosphorus Impairments TMDL and Attachment F of this permit, shall have fully implemented the Fertilizer Management Ordinance minimum standard on or before September 1, 2009.

h. Private Storm Drain Inlet Retrofitting Ordinance

i. Minimum Standard - Tier A Municipalities shall adopt and enforce an ordinance requiring the retrofitting of existing storm drain inlets to meet the standard in Attachment C of the permit which are in direct contact with repaving, repairing (excluding repair of individual potholes), reconstruction, resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen), or alterations of facilities on property not owned or operated by the municipality (except individual single family homes).

ii. Measureable Goal - Tier A Municipalities shall certify annually that they have met the Private Storm Drain Inlet Retrofitting Ordinance minimum standard.

iii. Implementation - Tier A Municipalities shall have adopted and begun enforcing the Private Storm Drain Inlet Retrofitting Ordinance minimum standard by September 1, 2010.

6. Illicit Connection Elimination and MS4 Outfall Pipe Mapping

a. Minimum Standard

i. Storm Sewer Outfall Pipe Mapping - Tier A Municipalities shall complete and maintain an outfall pipe map showing the location of the end of all MS4 outfall pipes owned and operated by the Tier A Municipality which discharge to a surface water body (e.g., a lake, ocean, or stream including an intermittent stream).

ii. Ordinance Prohibiting Illicit Connections - Each Tier A Municipality shall have adopted and shall enforce through appropriate enforcement procedures and actions an ordinance prohibiting illicit connections to the Tier A Municipality's small MS4.

iii. Illicit Connection Elimination Program - Tier A Municipalities must complete an initial physical inspection of all its outfall pipes and maintain an ongoing program to detect and eliminate illicit connections in accordance with the procedures found in Attachment B of the permit. The ongoing program will respond to complaints and reports of illicit connections, including those from operating entities of interconnected small MS4s, and continue to investigate dry weather flows discovered during routine inspections and maintenance of the small MS4.

b. Measurable Goal

i. Storm Sewer Outfall Pipe Mapping - Tier A Municipalities shall certify annually that an outfall pipe map has been completed in accordance with permit conditions, report the number of outfall pipes mapped within the reporting year, and the total number of outfall pipes mapped to date.

ii. Tier A Municipalities shall certify in the annual report that an ordinance prohibiting illicit connections is in place and is being actively enforced.

iii. Tier A Municipalities shall certify annually that an illicit connection elimination program has been developed in accordance with permit conditions to detect and eliminate illicit connections into the Tier A Municipalities' small MS4. Annual certifications shall also include the number of outfalls physically inspected, the number of outfalls found to have dry weather flow, the number of illicit connections found and the number of illicit connections eliminated. Copies of inspection reports shall be submitted with the annual certification for those outfalls found to have dry weather flow.

c. Implementation

i. Storm Sewer Outfall Pipe Mapping - 60 months from the original EDPA, Tier A Municipalities shall have mapped the location of, and performed an initial physical inspection of, all outfall pipes subject to the minimum standard.

ii. Ordinance Prohibiting Illicit Connections - On March 1, 2009 and thereafter, Tier A Municipalities shall an ordinance prohibitng illicit connections to the Tier A Municipality's small MS4.

iii. Illicit Connection Elimination Program - 60 months from the original EDPA and thereafter, Tier A Municipalities shall continue to implement a program to detect and eliminate illicit connections into the Tier A Municipality's small MS4.

7. **Solids and Floatable Controls**

a. Monthly Sweeping of Certain Streets in Predominantly Commercial Areas

i. Minimum Standard - Tier A Municipalities shall sweep, at a minimum of once per month (weather and street surface conditions permitting) all streets (including roads or highways) that meet all of the following criteria:
- the street is owned or operated by the municipality;
- the street is curbed and has storm drains;
- the street has a posted speed limit of 35 mph or less;
- the street is not an entrance or exit ramp; and
- the street is in a predominantly commercial area.

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have met the Street Sweeping minimum standard. Tier A Municipalities must maintain records including the date and areas swept, number of miles of streets swept and the total amount of materials collected. Information shall be reported to the Department in the annual report and certification.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement a street sweeping program that meets the minimum standard above.

b. Storm Drain Inlet Retrofitting

i. Minimum Standard - Retrofitting of existing storm drain inlets to meet the standard contained in Attachment C of the permit is required when such inlets are owned or operated by the Tier A Municipality and are in direct contact with repaving, repairing (excluding repair of individual potholes), reconstruction, resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen), or alterations of facilities owned or operated by the Tier A Municipality.
For exemptions to this standard, refer to "Exemptions" in Attachment C.

ii. Measurable Goal - Tier A Municipalities shall certify annually that such storm drain inlets have been retrofitted to meet the minimum standard contained in Attachment C, unless otherwise exempted. Tier A Municipalities must maintain records including the number and location of storm drain inlets retrofitted and number and location of storm drain inlets exempted. Information shall be reported to the Department in the annual report and certification.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall retrofit all such storm drain inlets in accordance with the Storm Drain Inlet Retrofitting minimum standard.

c. Stormwater Facility Maintenance

i. Minimum Standard - Tier A Municipalities shall continue to implement a stormwater facility maintenance program for cleaning and maintenance of all municipally owned and operated stormwater facilities. Stormwater facilities include, but are not limited to: catch basins, detention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances. The stormwater facility maintenance must be performed as required to ensure the proper function and operation of the stormwater facility.

ii. Measurable Goal - Tier A Municipalities shall certify annually that all municipally owned and operated stormwater facilities are properly functioning in accordance with the minimum standard. If stormwater facilities were found not to be functioning properly and repairs were not made, a schedule for such repairs shall be included in the annual report and certification. Tier A Municipalities shall also maintain records including the date(s) of inspections, maintenance, and description of repairs that were performed. This information shall be included with the annual report and certification.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall continue to implement a stormwater facility maintenance program in accordance with the minimum standard.

d. Catch Basin Inspection and Cleaning

i. Minimum Standard - Tier A Municipalities shall inspect all municipally owned and operated catch basins for accumulated sediment, trash, and debris; and clean those basins to remove sediment, trash, or debris (if any observed during inspection). Tier A Municipalities with:
- less than 5,000 municipally owned and operated catch basins shall annually inspect and (to the extent noted above) clean at least 1,000 catch basins, or as many catch basins as the municipality owns and operates.
- 5,000 or more municipally owned and operated catch basins shall inspect and (to the extent noted above) clean all catch basins by February 28, 2014.

ii. Measurable Goal - Tier A Municipalities shall certify annually that all municipally owned and operated catch basins have been inspected and cleaned, as necessary. Tier A Municipalities shall maintain records including the number of municipally owned and operated catch basins within the municipality, the number of catch basins inspected, the number of catch basins cleaned, and the amount of materials collected during catch basin cleaning activities. This information shall be reported in the annual report and certification.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall inspect and clean all catch basins in accordance with the Catch Basin Inspection and Cleaning minimum standard.

e. Outfall Pipe Stream Scouring Remediation

i. Minimum Standard - Tier A Municipalities shall maintain a stormwater outfall pipe scouring detection, remediation and maintenance program to detect and control localized stream and stream bank scouring in the vicinity of outfall pipes operated by the municipality. This program shall identify all areas where localized stream and bank scouring occurs as a result of stormwater discharges from the Tier A Municipality's MS4. These areas shall then be prioritized and repairs shall be scheduled and completed. Repairs shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1).

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have met the Outfall Pipe Stream Scouring Remediation minimum standard. In addition, the Tier A Municipality shall list the location of outfall scouring identified, the dates control measures are to begin, and the dates any control measures were completed.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall continue to implement an outfall pipe stream scouring detection, remediation and maintenance program.

8. Maintenance Yard Operations (including maintenance activities at Ancillary Operations)

a. De-icing Material Storage

i. Minimum Standard - Tier A Municipalities shall store salt, and other de-icing materials in a permanent structure. Tier A Municipalities shall perform regular maintenance and inspections of both the permanent structure and the surrounding area (see Good Housekeeping in Appendix D). Sand may be stored outside and uncovered if a 50-foot setback is maintained from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies.

ii. Measurable Goal - Tier A Municipalities shall certify annually that they have met the De-icing Material Storage minimum standard.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall store salt, and other de-icing materials in accordance with the De-icing Material Storage minimum standard.

b. Equipment and Vehicle Washing

i. Minimum Standard - Tier A Municipalities shall manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to the surface or ground waters of the State.
Tier A Municipalities shall maintain a record of where and when equipment and vehicle washing occurs to document proper management of wash water discharge.

ii. Measurable Goal - Tier A Municipalities shall certify annually that there is no unpermitted discharge from vehicle and equipment washing activities and describe the BMP implemented at each of the locations where vehicle and equipment washing activities occur.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to the surface or ground waters of the State.

c. Standard Operating Procedures

i. Minimum Standard - Tier A Municipalities shall implement standard operating procedures, which include the required practices listed in Attachment D, for each of the following activities:
- Vehicle fueling and receiving of bulk fuel deliveries;
- Vehicle maintenance and repair activities; and
- Good housekeeping practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations prepared in accordance with Attachment D.

ii. Measurable Goal - Tier A Municipalities must certify annually that there are standard operating procedures in place for vehicle fueling, vehicle maintenance, and good housekeeping practices.

iii. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall implement the required standard operating procedures.

9. **Employee Training**

a. Minimum Standard - Tier A Municipalities shall conduct annual employee training to educate all municipal employees on those stormwater topics which are applicable to their job and title. At a minimum, annual employee training will include the following topics:

i. Waste Disposal Education -Training shall include how to respond to inquires regarding proper waste disposal.

ii. Municipal Ordinances - Training shall include an overview of the Pet Waste Ordinance, Litter Ordinance, Illicit Connection Ordinance, Improper Waste Disposal Ordinance, Wildlife Feeding Ordinance, Refuse Container Ordinance, Yard Waste Ordinance (if applicable), Fertilizer Management Ordinance (if applicable), and the Private Storm Drain Inlet Retrofitting Ordinance, their requirements, enforcement policy, and hazards associated with improper waste disposal.

iii. Yard Waste Collection Program (if applicable) - Training shall include frequency of yard waste pickups and schedule, policy for when yard waste can be placed curbside, and alternatives such as composting and recycling.

iv. Illicit Connection Elimination and Outfall Pipe Mapping - Training shall include information regarding the hazards associated with illicit connections and details of the program including investigation techniques, physical observations, field sampling, and mapping procedures.

v. Monthly Sweeping of Certain Streets in Predominantly Commercial Areas - Training shall include sweeping schedules and record keeping requirements.

vi. Stormwater Facility Maintenance - Training shall include catch basin cleaning schedules and record keeping requirements.

vii. Outfall Pipe Stream Scouring Remediation - Training shall include identifying outfall pipe scouring and repairs.

viii. Maintenance Yard Operations (including Ancillary Operations) - Training shall include de-icing material storage, fueling, vehicle maintenance, equipment/vehicle washing and good housekeeping SOPs.

ix. Construction Activity / Post-Construction Stormwater Management in New Development and Redevelopment - Training shall include information regarding the requirement to obtain a NJPDES construction activity stormwater permit (see Part I, Section A.5.a and A.5.b of this permit) and requirements for Post-Construction Stormwater Management in New Development and Redevelopment (See Part I, Section F.3 of this permit) for the permittee's own construction activities and projects that disturb one acre or more.

b. Measurable Goal - Tier A Municipalities must certify annually that employee training has been conducted and include the date(s) of the annual employee training(s) in the annual report and certification.

c. Implementation - On March 1, 2009 and thereafter, Tier A Municipalities shall conduct an annual employee training program in accordance with the minimum standard.

10. Construction Site Stormwater Runoff Control

a. Pursuant to N.J.A.C. 7:14A-25.6(b)2 and 25.7(b), the Department is responsible for developing, implementing, and enforcing a NJPDES permit program to reduce pollutants in stormwater runoff to small MS4s from construction activities. The Tier A Municipality is not required to include this SBR in its stormwater program or discuss this SBR in its SPPP.

G. Additional Measures and Optional Measures

1. Additional Measures

a. Additional Measures (AMs) are non-numeric or numeric effluent limitations that are expressly required to be included in the stormwater program by an adopted areawide or Statewide Water Quality Management Plan (WQM plan). AMs may modify or be in addition to SBRs. AMs may be required by a TMDL approved or established by USEPA, a regional stormwater management plan, or other elements of adopted areawide or Statewide WQM plans.

b. The Department will provide written notice of the adoption of an AM to each Tier A Municipality whose stormwater program will be affected, and will list each adopted AM in the permit by making a minor modification to the permit. The AMs, other than numeric effluent limitations, will specify the BMPs that must be implemented and the measurable goals for each BMP. The AMs will also specify time periods for implementation.

2. Optional Measures

a. At the Tier A Municipality's discretion, the stormwater program may also include Optional Measures (OMs), which are BMPs that are not implemented for SBRs or AMs but that prevent or reduce the pollution of the waters of the State.

H. Deadlines and Certifications

1. Stormwater Pollution Prevention Plan

a. On or before June 1, 2009, the Tier A Municipality shall revise their SPPP to incorporate changes required by the renewal of the Tier A Permit.

i. The SPPP shall include, at a minimum, all of the information and items identified in Attachment A. The SPPP shall be signed, dated and retained by the Tier A Municipality.

2. Statewide Basic Requirements

a. Each SBR contained in Part I, Section F of the permit has a specific implementation schedule. Each SBR shall be implemented in accordance with that schedule. Tier A Municipalities shall certify in the Annual Report and Certification the status of the implementation of each SBR and the date implementation was completed, as appropriate.

i. The Department may grant a six-month extension to the deadlines contained in an implementation schedule for any of the SBRs if the Tier A Municipality submits a written request for such extension, at least 30 days prior to the deadline, establishing to the Department's satisfaction that the Federal, State and local permits and approvals necessary for the construction of best management practices could not with due diligence be obtained within the time period set forth in Section F above. The written request shall be submitted to:
NJDEP
Division of Water Quality
Bureau of Nonpoint Pollution Control
Municipal Stormwater Regulation Program
P.O. Box 029
Trenton, NJ 08625-0029

3. **Annual Report and Certification**

a. Tier A Municipalities shall complete an Annual Report (on a form provided by the Department) summarizing the status of compliance with this permit including measurable goals and the status of the implementation of each SBR contained in Part I, Section F of the permit. This report shall include a certification that the municipality is in compliance with its stormwater program, SPPP and this permit, except for any incidents of noncompliance. Any incidents of noncompliance with permit conditions shall be identified in the Annual Report and Certification. A copy of each Annual Report and Certification shall be kept at a central location and shall be made available to the Department for inspection.

i. If there are incidents of noncompliance, the report shall identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring.

ii. The Annual Report and Certification shall be signed and dated by the Tier A Municipality, and shall be maintained for a period of at least five years. This period may be extended by written request of the Department at any time.

b. The Annual Report and Certification shall be submitted to the Department pursuant to the following submittal schedule:

i. Submit an Annual Report and Certification: on or before May 2nd annually.

ii. The Annual Report and Certification shall include information for activities and projects conducted by the municipality between January 1 and December 31 of each reporting year.

I. Standard Conditions

1. **General Conditions Incorporated by Reference.**

a. The following general conditions are incorporated by reference. The Tier A Municipality is required to comply with the regulations, which were in effect as of March 1, 2009.

i. General Permits N.J.A.C. 7:14A-6.13

ii. Penalties for Violations N.J.A.C. 7:14-8.1 et seq.

iii. Incorporation by Reference N.J.A.C. 7:14A-2.3

iv. Toxic Pollutants N.J.A.C. 7:14A-6.2(a)4i

v. Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4

vi. Duty to Mitigate N.J.A.C. 7:14A-6.2(a)5 & 11

vii. Inspection and Entry N.J.A.C. 7:14A-2.11(e)

viii. Enforcement Action N.J.A.C. 7:14A-2.9

ix. Duty to Reapply N.J.A.C. 7:14A-4.2(e)3

x. Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9

xi. Effect of Permit/Other Laws N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)

xii. Severability N.J.A.C. 7:14A-2.2

xiii. Administrative Continuation of Permits N.J.A.C. 7:14A-2.8

xiv. Permit Actions N.J.A.C. 7:14A-2.7(c)

xv. Reopener Clause N.J.A.C. 7:14A-6.2(a)10, 16.4(b) & 25.7(b)

xvi. Permit Duration and Renewal N.J.A.C. 7:14A-2.7(a) & (b)

xvii. Consolidation of Permit Process N.J.A.C. 7:14A-15.5

xviii. Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)

xix. Fee Schedule N.J.A.C. 7:14A-3.1

xx. UIC Corrective Action N.J.A.C. 7:14A-8.4

xxi. Additional Conditions Applicable to UIC Permits N.J.A.C. 7:14A-8.9

xxii. UIC Operating Criteria N.J.A.C. 7:14A-8.16

b. Operation and Maintenance

i. Need to Halt or Reduce not a Defense N.J.A.C. 7:14A-2.9(b)

ii. Proper Operation and Maintenance N.J.A.C. 7:14A-6.12

c. Monitoring and Records

i. Monitoring N.J.A.C. 7:14A-6.5

ii. Recordkeeping N.J.A.C. 7:14A-6.6

iii. Signatory Requirements for Monitoring Reports N.J.A.C. 7:14A-6.9

d. Reporting Requirements

i. Planned Changes N.J.A.C. 7:14A-6.7

ii. Reporting of Monitoring Results N.J.A.C. 7:14A-6.8

iii. Noncompliance Reporting N.J.A.C. 7:14A-6.10 & 6.8(h)

iv. Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10(c) & (d)

v. Written Reporting N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)

vi. Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1

vii. Compliance Schedules N.J.A.C. 7:14A-6.4

viii. Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

e. Copies of the NJPDES rules may be purchased by contacting Lexis Nexis - Customer Service at (800) 223-1940, or go to the Lexis Nexis bookstore on the internet at www.lexisnexis.com/bookstore.

J. Additional Conditions

1. Agency and Public Review

a. The Tier A Municipality shall make the SPPP available upon request to an authorized representative of the Department and to the owner of and operating entity for any municipal separate storm sewer system that receives discharges from the Tier A Municipality's small MS4.

b. Upon review by an authorized representative, the Department may notify the Tier A Municipality at any time that the SPPP does not meet one or more of the minimum requirements. Within 30 days after receiving such notification (unless otherwise specified by the Department), the SPPP shall be amended to adequately address all deficiencies, and written certification of such amendments shall be submitted to the Department.

c. Tier A Municipalities shall make records required by this permit, including its SPPP, available to the public at reasonable times during regular business hours (see N.J.A.C. 7:14A-18 for confidentiality provisions).

2. Other Laws

a. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to the Pinelands rules (N.J.A.C. 7:50), N.J.A.C. 7:1E (Department rules entitled "Discharges of Petroleum and other Hazardous Substances"), the New Jersey Register of Historic Places Rules (N.J.A.C. 7:4), and all other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be "pursuant to and in compliance with [this] permit" within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.

3. Operations and Maintenance Manual

a. In accordance with N.J.A.C. 7:14A-6.12(c), for a discharge authorized by this permit, the Tier A Municipality is exempt from the requirement to prepare an operations and maintenance manual.

Attachment A
Contents of the Stormwater Pollution Prevention Plan

A. SPPP Team

1. The Stormwater Pollution Prevention Plan (SPPP) shall identify the person or persons responsible for implementing or coordinating the SPPP activities (including at the Tier A Municipality's discretion, OMs).

B. Description of Required Best Management Practices

1. The SPPP shall identify and discuss each Statewide Basic Requirement (SBR) and best management practice (BMP) required by the Tier A Municipal Stormwater General Permit.

2. The SPPP shall identify and discuss each Additional Measure (AM), if any, required by the Tier A Municipal Stormwater General Permit.

3. The SPPP shall identify and discuss any Optional Measures (OMs) the Tier A Municipality chooses to include in its stormwater program.

4. For each SBR, AM, or OM included in the Tier A Municipality's stormwater program, the SPPP shall:

   a. Describe the method of implementation;

   b. Include detailed record keeping, as appropriate or as required;

   c. Include an implementation schedule consistent with permit requirements, including interim milestones;

   d. Include any special diagrams required by the permit (i.e., Storm Drain Inlet Labeling and Illicit Connection Elimination and MS4 Outfall Pipe Mapping);

   e. Sharing responsibilities (If the Tier A Municipality wants to share responsibilities for implementing one or more control measures (other than OMs) with one or more other entities pursuant to N.J.A.C. 7:14A-25.7(a), the SPPP must describe which measure(s) the Tier A Municipality will implement, and identify the entity(ies) that will implement the other measure(s));

   f. Include maintenance schedules, as appropriate; and

   g. Include inspection schedules, as appropriate.

5. Identifying Areas Served by Combined Sewer

   a. Tier A Municipalities that want to exclude any "combined sewer area" from the stormwater program must include a map showing the boundaries of the combined sewer area. A "combined sewer area" is an area that is excluded because all stormwater from that area (and operated by the municipality) is discharged to combined (or sanitary) sewer systems.

Attachment B
Procedures for Detecting, Investigating, and Eliminating Illicit Connections

Detection

An illicit connection for the purposes of this permit, is any physical or non-physical connection that discharges domestic sewage, non-contact cooling water, process wastewater, or other industrial waste (other than stormwater) to the Tier A Municipality's small MS4, unless that discharge is authorized under a NJPDES permit other than this Tier A Municipal Stormwater General Permit (non-physical connections may include, but are not limited to, leaks, flows, or overflows into the municipal separate storm sewer system). An illicit connection is also any category of non-stormwater discharges that a Tier A Municipality identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).

MS4 outfall pipes, for the most part, should not be discharging during substantial dry periods (72 hours after a rain event). Such flow is frequently referred to as "dry weather flow", which may be the result of an illicit connection. All dry weather flows are generally non-stormwater discharges, however not all dry weather flows are illicit connections. Some non-stormwater flows result from the improper disposal of waste (e.g., radiator flushing, engine degreasing, improper disposal of oil) and some may be the result of allowable discharges such as residential car washing, irrigation runoff, permitted (NJPDES) discharges and natural waters (e.g., spring water and groundwater infiltration). By using the Department's Illicit Connection Inspection Report form and making physical observations, a Tier A Municipality will compile information that will help determine if the dry weather flow is an illicit connection and the most likely source of the illicit connection. After making these physical observations, additional chemical field testing will enable a Tier A Municipality to further narrow the potential source(s) of the illicit connection.

The first physical observation is to observe if there is a dry weather flow. Some dry weather discharges are continuously flowing and some are intermittent. Observations will allow the Tier A Municipality to establish with reasonable certainty if there is an intermittent flow. If there are indications of intermittent flows (staining, odors, deterioration of outfall structure) follow-up investigations are required (see Investigation section). An estimate of the flow rate of the discharge shall also be noted (flow rate can be estimated by various methods, including timing how long it takes to fill a container of a known size). Additional physical observations and measurements shall be made for odor, color, turbidity, floatable matter, temperature, deposits and stains, vegetation and algal growth and condition of outfall structure (see Illicit Connection Inspection Report form). Information compiled from physical observations and field monitoring should be used to help identify potential sources. These observations are very important since they are the simplest method of identifying grossly contaminated dry weather flows. If physical observations alone are sufficient to warrant further investigation, then field testing is not required.

If a dry weather flow exists, and after making all physical observations (unless physical observations are enough to warrant further investigation), the Tier Municipality shall field test for surfactants (detergents). If these flows contain surfactants in excess of the detection limit, Tier A Municipalities shall field test for ammonia (as N) and potassium to help distinguish sanitary wastewater sources from other non-stormwater flows that contain detergents. Non-stormwater discharges that are absent of surfactants shall be tested for fluoride to help distinguish potable from non-potable sources. Municipalities should refer to the Tier A Stormwater General Permit Guidance Manual for assistance and interpretation of field testing results.

All of the tests for the tracing of illicit connections may be performed in the field by employees of the Tier A Municipality or may be contracted out. Lab certification for those parameters is not required, however all person(s) responsible for calibrating, maintaining, and taking field samples shall be trained in the use of the equipment and appropriate field testing protocol.

Investigation

Any storm sewer outfall pipe found during the initial inspection or on any subsequent inspection to have a non-stormwater discharge or indications of an intermittent non-stormwater discharge requires further investigation by the Tier A Municipality to identify and locate the specific source. Non-stormwater discharges suspected of being sanitary sewage and/or significantly contaminated shall be prioritized and investigated first. Investigations of non-stormwater discharges suspected of being cooling water, washwater, or natural flows may be delayed until after all suspected sanitary sewage and/or significantly contaminated discharges have been investigated, eliminated and/or resolved.

Dry weather flows believed to be an immediate threat to human health or the environment shall be reported immediately to the Department's Action Hotline at 1-877-WARNDEP (1-877-927-6337).

Physical observations and field testing can help narrow the identification of potential sources of a non-stormwater discharge. However it is unlikely that either will pinpoint the exact source. Therefore, Tier A Municipalities will need to perform investigations "upstream" to identify illicit connections to systems with identified problem outfalls.

All non-stormwater discharges, whether continuous or intermittent must be investigated by the Tier A Municipality. All investigations must be resolved. If the source is found to be a non-stormwater discharge authorized under Part I, Section A.2.c of the permit, no further action is required. If a non-stormwater discharge is found but no source is able to be located within six (6) months of beginning the investigation, then the Tier A Municipality shall submit to the Department a Closeout Investigation form to close out the investigation. The Tier A Municipality must document that a good faith effort was made to find the source of the dry weather discharge and document each phase of the investigation. If the observed discharge is intermittent the Tier A Municipality must document, in the Illicit Connection Inspection Report form, that a minimum three (3)

separate investigations were made to observe the discharge when it is flowing. If these attempts are unsuccessful, the Tier A Municipality shall submit to the Department the Closeout Investigation form noted above. However, since this is an ongoing program, the Tier A municipality should periodically recheck these suspected intermittent discharges.

Elimination

Non-stormwater discharges traced to their source and found to be illicit connections subject to the ordinance prohibiting illicit connections shall be eliminated. At the time the illicit connection is detected the responsible party shall be cited for violation of the municipal ordinance prohibiting illicit connections and given thirty (30) days to cease the non-stormwater discharge. The responsible party may apply for a NJPDES permit for the discharge, but the discharge shall be ceased until a valid NJPDES permit has been issued by the Department. Tier A Municipalities are required to verify that the illicit discharge was eliminated by the responsible party within the specified timeframe and ensure that measures taken to eliminate the discharge are permanent and are not done in such a manner that would allow easy reconnection to the MS4.

When a responsible party fails to eliminate the discharge, Tier A Municipalities shall take the necessary steps to enforce their ordinance, including court action. In such instances the Department shall be notified by written correspondence so it is aware of any pending action and is able to provide assistance if needed.

If an illicit connection cannot be located or is found to emanate from another public entity, Tier A Municipalities must submit to the Department a written explanation detailing the results of the investigation and notify that public entity.

Attachment C

Design Standard - Storm Drain Inlets

This standard applies to storm drain inlets installed as part of new development and redevelopment projects (public or private) that disturb one acre or more. In addition, retrofitting of existing storm drain inlets to this standard is required where such inlets are in direct contact with repaving, repairing (excluding repair of individual potholes), reconstruction or alterations of facilities owned or operated by the Tier A Municipality. For exemptions to this standard see "Exemptions" below.

Grates in Pavement or Other Ground Surfaces

Design engineers shall use either of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:

1. The New Jersey Department of Transportation (NJDOT) bicycle safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (April 1996).

2. A different grate, if each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is no greater than 0.5 inches across the smallest dimension.

(In regard to whether the different grate must also be bicycle safe, the Residential Site Improvement Standards include requirements for bicycle-safe grates.)

Examples of grates subject to this standard include grates in grate inlets, the grate portion (non-curb-opening portion) of combination inlets, grates on storm sewer manholes, ditch grates, trench grates, and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors.

Curb-Opening Inlets (Including Curb-Opening Inlets in Combination Inlets)

Whenever design engineers use a curb-opening inlet, the clear space in that curb opening (or each individual clear space, if the curb opening has two or more clear spaces) shall have an area of no more than seven (7.0) square inches, or be no greater than two (2.0) inches across the smallest dimension.

Exemptions

Retrofitting Exemptions

1. Repaving, repairing, reconstruction or alterations projects that began construction prior to March 3, 2004, and projects that were awarded bid prior to March 3, 2004, are exempted from the storm drain inlet design standard.

2. Existing curb-opening inlets do not need to be retrofitted to meet the design standard if each individual clear space in the curb opening has an area of no more than nine (9.0) square inches.

Hydraulic Performance Exemptions

1. New Development and Redevelopment Projects - Where the review agency determines that this standard would cause inadequate hydraulic performance that

could not practicably be overcome by using additional or larger storm drain inlets that meet these standards.

2. Retrofitting of existing storm drain inlets - Where the review agency determines that this standard would cause inadequate hydraulic performance.

Alternative Device Exemptions

1. Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

   a. A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or

   b. A bar screen having a bar spacing of 0.5 inches.

2. Where flows are conveyed through a trash rack that has parallel bars with one-inch (1") spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8.

Note - The preceding exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle-safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

Historic Places Exemption

1. Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

Attachment D

Required Practices for Fueling Operations, Vehicle Maintenance, and Good Housekeeping SBRs

The following BMPs must be implemented at maintenance yards including maintenance activities at ancillary operations (for example, impound yards, solid waste transfer stations, mobile fueling), where applicable, operated by Tier A Municipalities:

A. Inventory Requirements for Municipal Maintenance Yard Operations (including Ancillary Operations)

1. Tier A Municipalities shall include for municipal maintenance yard operations an inventory that includes the following:

   a. A list to be made part of the SPPP of general categories of all materials or machinery located at the municipal maintenance yard, which could be a source of pollutants in a stormwater discharge. The materials in question include, but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the municipal maintenance yard operations or ancillary operations. Materials or machinery that are not exposed to stormwater or that are not located at the municipal maintenance yard or related to its operations do not need to be included.

B. Fueling

1. No topping off vehicles, mobile fuel tanks, and storage tanks. Drip pans must be used under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.

2. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel must be within the temporary berms during the loading/unloading of bulk fuels. A trained employee must always be present to supervise during bulk fuel transfer.

3. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

4. Any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair must immediately be repaired or replaced.

C. Vehicle Maintenance

1. Perform all vehicle and equipment maintenance at an indoor location with a paved floor whenever possible. For projects that must be performed outdoors that last more than one day, portable tents or covers must be placed over the equipment being serviced when not being worked on, and drip pans must be used.

D. General Good Housekeeping

1. Properly mark or label all containers. Labels must be kept clean and visible. All containers must be kept in good condition and tightly closed when not in use. When practical, containers must be stored indoors. If indoor storage is not practical, containers may be stored outside as long as they are covered and placed on spill platforms. An area that is graded and/or bermed that prevents run-through of stormwater may be used in place of spill platforms. Outdoor storage locations must be regularly maintained.

2. Conduct cleanups of any spills or liquids or dry materials immediately after discovery. Clean all maintenance areas with dry cleaning methods only. Spills shall be cleaned up with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and the rest of the area is to be swept. Collected waste is to be disposed of properly. Clean-up materials, spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.

E. Good Housekeeping Practices for Salt and De-icing Material Handling

1. The SPPP for De-icing Material Storage shall include the following required practices to ensure that Municipal Maintenance Yard Operations prevent or minimize the exposure of salt and de-icing materials to stormwater runoff from storage, loading and unloading areas and activities:

   a. Prevent and/or minimize the spillage of salt and de-icing materials during loading and unloading activities.

   b. At the completion of loading and unloading activities, spilled salt and de-icing materials shall be removed using dry cleaning methods and either reused or properly discarded.

   c. Sweeping by hand or mechanical means of storage and loading/unloading areas shall be done on a regular basis. More frequent sweeping is required following loading/unloading activities. Sweeping shall also be conducted immediately following, as practicable, loading/unloading activities.

   d. Tracking of materials from storage and loading/unloading areas shall be minimized.

   e. Minimize the distance salt and de-icing materials are transported during loading/unloading activities.

2. Interim Seasonal Tarping - All Tier A Municipalities must tarp all de-icing materials until a permanent structure is built. Interim storage measures must include, but are not limited to the following:

   a. Tarping materials that are not actively being used.

   b. The storage of de-icing materials (salt and de-icing products) outside is limited to October 15th through April 30th. All salt and de-icing materials must be removed from the site prior to May 1st and may not be stored outside again until October 15th.

c. The implementing of a regular inspection, sweeping and housekeeping program to ensure that the material is maintained and stored in a proper manner.

F. Inspections

1. Inspections of all Municipal Maintenance Yard Operations shall be conducted regularly.

2. Discharge of Stormwater from Secondary Containment

a. The discharge pipe/outfall from a secondary containment area must have a valve and the valve must remain closed at all times except as described below. A municipality may discharge stormwater that accumulated in the secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not come in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the municipality must rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the municipality cannot make a determination with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Attachment E
Local Public Education Approved Activities and Point Totals

A. Tier A Municipalities shall conduct educational activities that total a minimum of 10 points annually. Each approved activity is listed below with an assigned point value.

1. **School Presentations** - Present educational classes/assemblies to local elementary, middle, and/or high school classes. (1 point per visit / maximum of 5 points per year)

2. **Website** – Maintain a stormwater related page on the municipal website and include a link to www.cleanwaternj.org. (1 point)

3. **Stormwater Display** – Present a stormwater related display and materials at any municipal event (e.g., Earth Day, town picnic) or maintain a display at the municipal building (2 points)

4. **Giveaway** – Distribute an item with a stormwater related message (e.g., refrigerator magnets, temporary tattoos, bookmarks, coloring books, and pens or pencils). Municipality must purchase a minimum number of the item equal to 10% of the municipal population. (2 points)

5. **Citizen Stormwater Advisory Committee** – Establish a subcommittee to the Environmental Commission to identify, coordinate and implement stormwater related programs. (2 points)

6. **Utilize Department Materials** - Use Department created stormwater education materials, which can be found on www.cleanwaternj.org to publish an ad in a newspaper that serves the municipality; broadcast a radio or television commercial on a local radio or municipal public service channel; produce a billboard or sign which can be displayed on a bus, bus stop shelter, or at a recreation field (outfield sign). (2 points each / maximum of 4 points per year)

7. **Poster Contest** – Organize a poster contest with a local school district. Poster themes shall have an appropriate stormwater message. Posters are to be displayed at buildings within the municipality such as at the town hall, library, or school. (2 points)

8. **Stormwater Training for Elected Municipal Officials** – Conduct a program for all elected municipal officials which educates them on the Stormwater Management Rules (N.J.A.C. 7:8), Tier A Permit and what steps the municipality has already taken to minimize stormwater pollution. (3 points)

9. **Mural** – Facilitate the planning and painting of a stormwater pollution themed mural at a local downtown/commercial area. (3 points)

10. **Mailing** – Distribute any of the Department's educational brochures, tip cards, or a municipally produced equivalent (e.g, calendar, recycling schedule), to every resident and business in the municipality. (3 points)

11. **Partnership Agreement / Local Event** - Identify and enter into a partnership

agreement with a local group such as a watershed organization, Riverkeeper, school, youth/faith based group and/or other nonprofit to carry out a minimum of two (2) watershed stewardship/education activities (e.g., litter march, stream/beach cleanup). (3 points)

12. **Ordinance Education** – Distribute a letter from the mayor to every resident and business in the municipality highlighting the requirements and environmental benefits of the Pet Waste, Litter, Improper Disposal of Waste, Wildlife Feeding, Yard Waste, Illicit Connection, Refuse Container, and Private Storm Drain Inlet Retrofitting Ordinances. This letter/article must also reference a page on the municipal website (if applicable) to which residents can go to read these ordinances. (5 points)
* Posting these ordinances does not constitute the development of a website referenced above.

Attachment F

MUNICIPALITIES AFFECTED BY THE TMDL FOR THE "NON-TIDAL PASSAIC RIVER BASIN ADDRESSING PHOSPHORUS IMPAIRMENTS"

Bergen County

Elmwood Park Borough	Fair Lawn Borough	Franklin Lakes Borough
Garfield City	Glen Rock Borough	Mahwah Township
Midland Park Borough	Oakland Borough	Ramsey Borough
Ridgewood Village	Waldwick Borough	Wycoff Township

Essex County

Caldwell Borough	Cedar Grove Township	Essex Fells Borough
Fairfield Township	Livingston Township	Millburn Township
Montclair Township	North Caldwell Borough	Roseland Borough
Verona Township	West Caldwell Township	West Orange Township

Morris County

Butler Borough	Boonton Town	Boonton Township
Denville Township	Chatham Borough	Chatham Township
Hanover Township	East Hanover Township	Florham Park Borough
Long Hill Township	Kinnelon Borough	Lincoln Park Borough
Mendham Township	Madison Borough	Mendham Borough
Morris Township	Montville Township	Morris Plains Borough
Parsippany-Troy Hills	Morristown Town	Mountain Lakes Borough
Riverdale Borough	Pequannock Township	Randolph Township

Passaic County

Bloomingdale Borough	Clifton City	Haledon Borough
Hawthorne Borough	Little Falls Township	North Haledon Borough
Paterson City	Pompton Lakes Borough	Prospect Park Borough
Ringwood Borough	Totowa Borough	Wanaque Borough
Wayne Township	West Milford Township	West Paterson Borough

Somerset County

Bernards Township	Bernardsville Borough	Bridgewater Township
Warren Township		

Union County

Berkeley Heights Twp.	New Providence Borough	Summit City

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code - 401-02B
Water Pollution Management Element
Bureau of Nonpoint Pollution Control
P.O. Box 420 – 401 E. State St.
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Fax: (609) 777-0432
http://www.state.nj.us/dep/dwq/bnpc_home.htm

BOB MARTIN
Commissioner

November 9, 2017

Re: R9 - Tier A Municipal Stormwater General Permit
NJPDES: NJ0141852 PI ID #: 50577
NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST
Trenton City, Mercer

Dear Interested Party:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. The Tier A Municipal Stormwater General Permit authorizes the discharge of stormwater from small municipal separate storm sewer systems (MS4). The permit was issued in response to USEPA's Phase II rules. Tier A municipalities are generally located within the more densely populated regions of the state or along or near the coast. The Tier A permit addresses stormwater quality issues related to both new and existing development.

A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16.

The final Tier A MS4 NJPDES permit and supporting documents are also posted at http://www.nj.gov/dep/dwq/tier_a.htm. Here you can find a crosswalk which provides a detailed comparison of changes from 2009 to this 2017 permit, and a Frequently Asked Questions document. These documents will be useful in understanding the final permit.

Questions or comments regarding the final action should be addressed to Stephen Boyer at (609) 633-7021.

Sincerely,

James J. Murphy, Chief
Bureau of Nonpoint Pollution Control

Enclosures
c: Permit Distribution List

NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0141852

Final: Stormwater Discharge Master General Permit Renewal

Permittee:
Master General Permit
Per Individual Notice of Authorization

Co-Permittee:

Property Owner:
NJDEP DIVISION OF WATER QUALITY
401 E STATE ST
Trenton, NJ 08625

Location Of Activity:
Master General Permit
Per Individual Notice of Authorization

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
R9 -Tier A Municipal Stormwater General Permit	11/09/2017	01/01/2018	12/31/2022

By Authority of:
Commissioner's Office

DEP AUTHORIZATION
James J. Murphy, Chief
Bureau of Nonpoint Pollution Control
Water Pollution Management Element

(Terms, conditions and provisions attached hereto)

PART I
GENERAL REQUIREMENTS:
NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.

b. General Conditions

Penalties for Violations	N.J.A.C. 7:14-8.1 et seq.
Incorporation by Reference	N.J.A.C. 7:14A-2.3
Toxic Pollutants	N.J.A.C. 7:14A-6.2(a)4i
Duty to Comply	N.J.A.C. 7:14A-6.2(a)1 & 4
Duty to Mitigate	N.J.A.C. 7:14A-6.2(a)5 & 11
Inspection and Entry	N.J.A.C. 7:14A-2.11(e)
Enforcement Action	N.J.A.C. 7:14A-2.9
Duty to Reapply	N.J.A.C. 7:14A-4.2(e)3
Signatory Requirements for Applications and Reports	N.J.A.C. 7:14A-4.9
Effect of Permit/Other Laws	N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
Severability	N.J.A.C. 7:14A-2.2
Administrative Continuation of Permits	N.J.A.C. 7:14A-2.8
Permit Actions	N.J.A.C. 7:14A-2.7(c)
Reopener Clause	N.J.A.C. 7:14A-6.2(a)10
Permit Duration and Renewal	N.J.A.C. 7:14A-2.7(a) & (b)
Consolidation of Permit Process	N.J.A.C. 7:14A-15.5
Confidentiality	N.J.A.C. 7:14A-18.2 & 2.11(g)
Fee Schedule	N.J.A.C. 7:14A-3.1
Treatment Works Approval	N.J.A.C. 7:14A-22 & 23

c. Operation And Maintenance

Need to Halt or Reduce not a Defense	N.J.A.C. 7:14A-2.9(b)
Proper Operation and Maintenance	N.J.A.C. 7:14A-6.12

d. Monitoring And Records

Monitoring	N.J.A.C. 7:14A-6.5
Recordkeeping	N.J.A.C. 7:14A-6.6
Signatory Requirements for Monitoring Reports	N.J.A.C. 7:14A-6.9

e. Reporting Requirements

Planned Changes	N.J.A.C. 7:14A-6.7
Reporting of Monitoring Results	N.J.A.C. 7:14A-6.8
Noncompliance Reporting	N.J.A.C. 7:14A-6.10 & 6.8(h)
Hotline/Two Hour & Twenty-four Hour Reporting	N.J.A.C. 7:14A-6.10(c) & (d)
Written Reporting	N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)
Duty to Provide Information	N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
Schedules of Compliance	N.J.A.C. 7:14A-6.4
Transfer	N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

a. The Stormwater Management rules at N.J.A.C. 7:8.

b. Conditions for General Permits at N.J.A.C. 7:14A-6.13, including the Department's authority to require, for due cause, a Tier A Municipality to apply for and obtain a different stormwater permit for specific activities otherwise authorized under this permit.

c. Additional Conditions applicable to UIC permits at N.J.A.C. 7:14A-8.9, UIC Corrective Action (N.J.A.C. 7:14A-8.11) and UIC Operating Criteria (N.J.A.C. 7:14A-8.16).

d. Conditions for reopening and modification of small MS4 permits at N.J.A.C. 7:14A-16.4(b) and N.J.A.C. 7:14A-25.7(b).

e. Requirements for Discharges to Ground Water at N.J.A.C. 7:14A-7.

f. National Pollutant Discharge Elimination System (NPDES) Electronic Reporting rule at 40 CFR Part 127.

B. General Conditions

1. Notification of Non-Compliance

a. The Tier A Municipality shall notify the Department of any non-compliance when required by N.J.A.C. 7:14A-6.10 by contacting the DEP Hotline at 1-877-WARN-DEP.

2. Discharge of Pollutants

a. For discharges authorized by this permit, the Tier A Municipality is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in this NJPDES permit or listed and quantified in the RFA shall not constitute a violation of the permit.

3. Standard Reporting Requirements – Electronic Reporting of NJPDES Information

a. Unless already required by this permit to be submitted electronically by an earlier date, effective December 21, 2020, the below identified documents and reports shall be electronically submitted via the Department's designated electronic submission service:

i. General permit authorization requests (i.e. RFAs);

ii. General permit termination/revocation requests; and

iii. Municipal separate storm sewer system (MS4) program reports (see Part IV.G).

4. Other Regulatory Requirements

a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.

b. The issuance of this permit shall not be considered as a waiver of any applicable federal, State or local rules, regulations and ordinances.

c. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to, N.J.A.C. 7:50 (the Pinelands rules), N.J.A.C. 7:1-E (Discharges of Petroleum and other Hazardous Substances), regulations concerning threatened and endangered species and their designated critical habitat, and other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be "pursuant to and in compliance with this permit" within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.

d. While the Tier A Municipality is required to comply with applicable operation and maintenance requirements of N.J.A.C. 7:14A-6.12(a), the Tier A Municipality is exempt from the operations and maintenance manual requirements of N.J.A.C. 7:14A-6.12(c). This exemption applies only to discharges authorized under this permit and does not alter the operation and maintenance requirements for municipally or privately owned stormwater facilities specified in this permit or N.J.A.C. 7:8.

C. Eligibility

1. Permit Scope

a. The Tier A MS4 NJPDES Permit applies to all areas of New Jersey as follows:

i. This permit applies to all municipalities assigned to Tier A under N.J.A.C. 7:14A-25.3(a)1. Tier A Municipalities are generally located within the more densely populated regions of the state or along or near the Atlantic coast.

ii. On a case-by-case basis, the Department may use this permit to regulate municipalities assigned to Tier B under N.J.A.C. 7:14A-25.3(a). As used in this permit, the term "Tier A Municipality" includes Tier B Municipalities that seek or obtain authorization under this provision of this permit.

b. This permit applies to the owner or operator of the Municipal Separate Storm Sewer System (MS4) meaning the Tier A Municipality. The owner or operator is responsible for ensuring compliance with this permit.

c. The short title of this permit is the "Tier A MS4 NJPDES permit."

2. Authorized Discharges Under the Tier A MS4 NJPDES Permit

a. Eligible Stormwater Discharges – Except as provided in Part II.C.3 below, this permit authorizes all new and existing stormwater discharges to surface water and groundwater from:

i. Small MS4s (as defined at N.J.A.C. 7:14A-1.2) owned or operated by Tier A Municipalities; and

ii. Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities.

b. Eligible Non-Stormwater Discharges – Except as identified in Part II.C.3.e below, the following new and existing non-stormwater discharges from small MS4s owned or operated by Tier A Municipalities and from Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities are eligible for authorization under this permit:

i. Potable water line flushing and discharges from potable water sources, excluding the discharge of filter backwash and first flush water from potable well development/redevelopment activities utilizing chemicals in accordance with N.J.A.C. 7:9D. The volume of first flush water, which is a minimum of three times the volume of the well water column, shall be handled and disposed of properly;

ii. Uncontaminated ground water (e.g. infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters);

iii. Air conditioning condensate (excluding contact and non-contact cooling water; and industrial refrigerant condensate);

iv. Irrigation water (including landscape and lawn watering runoff);

v. Flows from springs, riparian habitats, wetlands, water reservoir discharges and diverted stream flows;

vi. Residential car washing water; and dechlorinated swimming pool discharges from single family residential homes;

vii. Sidewalk, driveway and street wash water;

viii. Flows from firefighting activities including the washing of fire fighting vehicles;

ix. Flows from clean water rinsing of beach maintenance equipment immediately following use and only if the equipment is used for its intended purpose;

x. Flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing materials. Prior to rinsing, all equipment shall be cleaned using dry methods such as shoveling and sweeping. Recovered materials are to be returned to storage or properly discarded; and

xi. Rinsing of equipment in Part II.C.2.b.ix and x, above is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

3. Discharges Not Authorized Under the Tier A MS4 NJPDES Permit

a. Stormwater Discharges Associated with Industrial Activity

i. The Tier A MS4 NJPDES Permit does not authorize "stormwater discharge associated with industrial activity" as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit.

ii. Types of facilities that a Tier A Municipality might operate and that are considered to be engaging in "industrial activity" include but are not limited to certain: 1) landfills; 2) transportation facilities (including certain local passenger transit and air transportation facilities); 3) facilities handling domestic sewage or sewage sludge; and 4) steam electric power generating facilities.

iii. Any municipality that operates an industrial facility with such a discharge must submit a separate Request for Authorization (RFA) or individual permit application for that discharge (see www.nj.gov/dep/dwq/forms_storm.htm). An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge.

iv. Yard Trimmings and Wood Waste Management Sites that are not owned and operated by the Tier A Municipality.

b. Stormwater Discharges Associated with Construction Activity

i. The Tier A MS4 NJPDES Permit does not authorize "stormwater discharges associated with construction activity" as described in N.J.A.C. 7:14A-24.10(a). In general, this is the discharge to surface water of stormwater from construction activity that disturbs at least one acre.

ii. Any municipality that operates a construction site with such a discharge shall submit a separate RFA under NJPDES Permit No. NJ0088323 (General Stormwater Permit Construction Activity, see www.nj.gov/dep/dwq/5g3.htm), or an application for an individual permit for that discharge. An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge. See Part IV.B.3 of the Tier A MS4 NJPDES Permit.

c. Stormwater Discharges Authorized under Another NJPDES Permit

i. The Tier A MS4 NJPDES Permit does not authorize any stormwater discharge that is authorized under another NJPDES permit.

ii. A Tier A Municipality does not have to implement measures contained in this NJPDES permit for stormwater discharges at facilities owned or operated by that municipality that are regulated under a separate NJPDES stormwater permit authorizing those discharges.

d. Stormwater Discharges that Conflict with a Water Quality Management Plan

i. The Tier A MS4 NJPDES Permit does not authorize stormwater discharges from projects or activities that conflict with an adopted Areawide or Statewide Water Quality Management Plan.

e. Non-Stormwater Discharges that are Contributors of Pollutants

i. If any of the discharges listed in Part II.C.2.b above are identified by the Tier A Municipality as a significant contributor of pollutants to or from the MS4, the Tier A Municipality must address the discharge as an illicit connection or as an improper disposal of waste as specified in Part IV.B.6 of this permit.

D. Administrative Process

1. Automatic Renewal of Authorizations

a. Upon reissuance of this general permit, existing authorizations shall be automatically renewed as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 using the information provided in the permittees' most recently submitted RFA.

2. Notification of Changes

a. A Tier A Municipality shall provide a corrected RFA to the Department within 90 days of the effective date of a renewed authorization under this general permit if any information in its most recently submitted RFA is no longer true, accurate, and/or complete.

b. The Tier A Municipality shall notify the Department of any changes of its Municipal Stormwater Program Coordinator information using www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf

c. A Tier A Municipality that already has authorization to discharge from a small MS4 under the Tier A permit does not need to submit an RFA for the expansion (e.g. new residential development) of an existing small MS4.

3. Requests for Authorization (RFA, see www.nj.gov/dep/dwq/forms_storm.htm)

a. New RFAs under the Tier A MS4 permit

i. A single RFA is required for the entire eligible discharge from the small MS4 owned or operated by and located within a single municipality. Multiple RFAs are not required for multiple municipal operations (e.g., municipally owned and operated maintenance yards or other ancillary operations, facilities, garages, and/or offices).

ii. An RFA shall include at a minimum: the name and address of the municipality; the name and address of the Municipal Stormwater Program Coordinator; a certification acknowledging the best management practices and measurable goals specified in the permit; and any other information as required by the Department.

b. Upon receipt of an RFA the Department may, in accordance with N.J.A.C. 7:14A-6.13, do one of the following:

i. Issue notification of authorization under this permit;

ii. Deny authorization under this permit and require submittal of an application for an individual permit; or

iii. Deny authorization under this permit and require submittal of an RFA for another general permit.

c. Reassignment of Municipality to Tier A

i. If a municipality receives notice from the Department (pursuant to N.J.A.C. 7:14A-25.3(a)(3)) that it has been reassigned from Tier B to Tier A (pursuant to N.J.A.C. 7:14A-25.3(a)(1) and (2)), the deadline to submit an RFA is 180 days after the receipt of that notice, unless the Department approves a later date.

PART III
Recordkeeping and Reporting

The Tier A Municipality shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records and to submit an Annual Report and Certification is found at Part IV.G of this permit.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

1. Acronyms

a. Stormwater acronyms included in this permit are as follows:

i. "BMP" - Best Management Practice

ii. "CFR" - Code of Federal Regulations

iii. "EDPA" - Effective Date of Permit Authorization

iv. "MS4" - Municipal Separate Storm Sewer System

v. "MSWMP" - Municipal Stormwater Management Plan

vi. "MSRP" - Municipal Stormwater Regulation Program

vii. "MTD" - Manufactured Treatment Device

viii. "N.J.A.C." - New Jersey Administrative Code

ix. "NJPDES" - New Jersey Pollutant Discharge Elimination System

x. "N.J.S.A." - New Jersey Statutes Annotated

xi. "RSIS" - Residential Site Improvement Standards

xii. "SPPP" - Stormwater Pollution Prevention Plan

xiii. "TMDL" - Total Maximum Daily Load

2. Internal Cross References

a. For the purposes of this permit:

i. References to Part IV Notes and Definitions are preceded with the words "Notes and Definitions" (e.g. Notes and Definitions Part IV.A.1 refers to Acronyms).

ii. References to Part IV Tier A MS4 NJPDES Permit are not preceded by descriptive text (e.g. Part IV.A.1 refers to Overview of the Tier A MS4 NJPDES Permit).

3. Department Resources for Guidance Relating to MS4 Issues

a. MS4 main website and related links: www.nj.gov/dep/dwq/msrp_home.htm

b. MS4 Tier A Guidance document: www. nj.gov/dep/dwq/tier_a_guidance.htm

Notes and Definitions

c. Construction Site Stormwater Runoff: www.nj.gov/dep/dwq/5g3.htm

d. Snow Removal and Disposal Policy: www.nj.gov/dep/dwq/bnpc_home.htm

e. Green Infrastructure and related links: www.nj.gov/dep/gi/

f. Stormwater management information and training tools: www.nj.gov/dep/stormwater/

g. Public education for stormwater pollution: www.cleanwaternj.org

h. Clean Communities, a statewide litter abatement program: www.njclean.org

i. Total Maximum Daily Load (TMDL) information: www.nj.gov/dep/dwq/msrp-tmdl-rh.htm

4. EPA Resources for Guidance Relating to MS4 Issues

a. EPA's MS4 website and related links:
www.epa.gov/npdes/stormwater-discharges-municipal-sources

b. EPA's National Menu of Stormwater Best Management Practices:
www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater

c. EPA's guidance for Green Infrastructure:
http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm

d. Guidance from EPA Region 3 for municipalities that wish to improve their municipal stormwater programs: www.epa.gov/npdes/pubs/region3_factsheet_swmp.pdf

e. EPA's Trash Free Waters resource page: www.epa.gov/trash-free-waters

f. Illicit Discharge Detection and Elimination Guidance
www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf

B. Definitions

1. Definitions

a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.

b. "Catch Basin" means a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants.

c. "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under this Tier A MS4 NJPDES permit becomes effective. This date may be found on the permittee's Authorization to Discharge.

d. "Existing permittee" means a municipality that held an authorization to discharge under the Tier A MS4 NJPDES permit on or before December 31, 2017.

e. "Green infrastructure" means methods of stormwater management that reduce wet weather/stormwater volume, flow, or changes the characteristics of the flow into combined or separate sanitary or storm sewers, or surface waters, by allowing the stormwater to infiltrate, to be treated by vegetation or by soils, or to be stored for reuse. Green infrastructure includes, but is not limited to, pervious paving, bioretention basins, vegetated swales, and cisterns.

f. "Illicit connection" means any physical or non-physical (i.e. leak, flow, or overflow into the municipal separate storm sewer system) connection that discharges the following to a municipal separate storm sewer system (unless that discharge is authorized under a NJPDES permit other than this Tier A MS4 NJPDES permit);

   i. Domestic sewage;

   ii. Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater); or

   iii. Any category of non-stormwater discharges that a permittee for the MS4 identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).

g. "Maintenance plan" means a maintenance plan pursuant to N.J.A.C. 7:8-5.2(b) and 5.8 prepared by the design engineer for the stormwater management measures incorporated into the design of a major development.

h. "Major development" means any development that provides for ultimately disturbing one or more acres of land and any additional development defined as "major development" by a municipality's stormwater control ordinance. Disturbance is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1et seq., are also considered "major development."

i. "Manufactured treatment device" means a pre-fabricated stormwater treatment structure utilizing settling, filtration, absorptive/adsorptive materials, vortex separation, vegetative components, and/or other appropriate technology to remove pollutants from stormwater runoff.

j. "Municipal separate storm sewer" means a municipal separate storm sewer as defined in N.J.A.C. 7:14A-1.2.

k. "Municipality" means a municipality as defined in the Municipal Land Use Law at N.J.S.A. 40:55D-5, that is, any city, borough, town, township, or village.

l. "New permittee" means a municipality that obtains its first authorization to discharge under the Tier A MS4 NJPDES permit on or after January 1, 2018.

m. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (a door is recommended, but not required). A fabric frame structure is a permanent structure if it meets the following specifications:

   i. Concrete blocks, jersey barriers or other similar material shall be placed around the interior of the structure to protect the side walls during loading and unloading of de-icing materials;

   ii. The design shall prevent stormwater run-on and run through and the fabric cannot leak;

   iii. The structure shall be erected on an impermeable slab;

   iv. The structure cannot be open sided; and

   v. The structure shall have a roll up door or other means of sealing the access way from wind driven rainfall.

n. "Small MS4" means all municipal separate storm sewers (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:

   i. Owned or operated by municipalities described under N.J.A.C. 7:14A-25.1(b);

   ii. Owned or operated by county, State, interstate, or Federal agencies, and located at public complexes as described under N.J.A.C. 7:14A-25.2(a)2;

   iii. Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or

   iv. Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.

   v. Note that all MS4s covered under the Tier A MS4 NJPDES permit are "small MS4s".

o. "Solids and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids as defined at N.J.A.C. 7:14A-25.6(b)3iii.

p. "Storm drain inlet" means the point of entry into the storm drain system and is, where a catch basin is present, the uppermost portion (or cover) of a catch basin.

q. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface; is transmitted to the subsurface; is captured by separate storm sewers or other sewerage or drainage facilities; or is conveyed by snow removal equipment.

r. "Stormwater facility" includes, but is not limited to: catch basins, detention basins, retention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances. Stormwater facilities include structural stormwater management measures.

s. "Stormwater management basin" means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management basin may either be normally dry (that is, a detention basin or infiltration basin), retain water in a permanent pool (a retention basin or wet pond), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

t. "Stormwater management measure" means any structural or nonstructural strategy, practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances. Stormwater management measures include stormwater facilities.

u. "Stream scouring" means the erosion or removal of streambed or bank material by the physical action of flowing water and the sediment that it carries.

v. "Subsurface infiltration/detention system" means a vault, perforated pipe, and/or stone bed that is located entirely below the ground surface and that temporarily stores and attenuates stormwater runoff."

w. "Tier A Municipality's MS4" means an MS4 owned and operated by a Tier A Municipality.

x. "Wood waste" means source separated whole trees, tree trunks, tree parts, tree stumps, brush and leaves provided that they are not composted, and lumber (non-chemically treated and unpainted);

y. "Yard trimmings" means grass clippings, leaves, wood chips from tree parts, and brush.

z. "Yard waste" means loose leaves and grass clippings.

Tier A Municipal Stormwater General Permit

A. Permit Overview

1. Overview of the Tier A MS4 NJPDES Permit

a. The Tier A Municipality (i.e. the permittee) is required to develop, update, implement and enforce an MS4 stormwater program. A primary objective of the MS4 stormwater program is to implement best management practices and other measures that are designed to achieve the permit's requirement to reduce the discharge of pollutants from the Tier A Municipality's MS4, municipal maintenance yards and other ancillary operations, to the maximum extent practicable pursuant to N.J.A.C. 7:14A-25.6(a)1 and 40 CFR 122.34(a), to protect water quality, and to satisfy the applicable water quality requirements of the Clean Water Act.

2. Primary Plans Required by the Tier A MS4 NJPDES Permit

a. The Stormwater Pollution Prevention Plan (SPPP) documents the Tier A Municipality's stormwater program and describes the measures necessary for compliance with the Statewide Basic Requirements as well as any Other Control Measures, Additional Measures and/or Optional Measures (if deemed appropriate). See Part IV.F (SPPP) and Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-1 (Measurable Goals and Implementation Schedule for New Permittees).

b. A significant component of the SPPP is the Municipal Stormwater Management Plan (MSWMP). The MSWMP is also a component of the municipal master plan (N.J.S.A. 40:55D-94). The MSWMP describes the municipality's strategy, structure and process for addressing stormwater runoff from new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8 et seq.). This strategy, structure and process also constitutes much of the post construction stormwater management program in this permit. See Part IV.B.4 (Post Construction). Any MSWMP that complies with N.J.A.C. 7:8 also complies with this condition and Part IV.B.4.f (MSWMP).

3. Summary of Tier A MS4 NJPDES Permit Requirements

a. The Tier A Municipality shall develop, update, implement and enforce a stormwater program as documented in an SPPP to ensure compliance with:

i. The Statewide Basic Requirements. See Part IV.B;

ii. Other Control Measures. See Part IV.C;

iii. Additional Measures. See Part IV.D; and

iv. Optional Measures, if deemed appropriate See Part IV.E.

b. The Tier A Municipality shall develop, update, implement and maintain a written SPPP in conformance with Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-1 (Measurable Goals and Implementation Schedule for New Permittees). See Part IV.A.2.a and IV.F (SPPP).

c. The Tier A Municipality shall submit an Annual Report and Certification summarizing the status of compliance with this permit. See Part IV.G (Annual Report and Certification).

d. The Tier A Municipality shall adopt, amend and implement a written MSWMP. See Part IV.A.2.b and B.4.f (MSWMP).

e. The Tier A Municipality shall modify and update its stormwater program (including applicable plans and ordinances) to conform with applicable new legislation; or new or amended regulations. Such modification shall be completed and effective within 12 months of written notification by the Department of the need for modification.

B. Statewide Basic Requirements and Associated Conditions

1. Minimum Standards for Public Involvement and Participation Including Public Notice

a. Tier A Municipalities shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program. Requirements include but are not limited to:

i. The Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.);

ii. Statutory procedures for the enactment of ordinances (N.J.S.A. 40:49-2), including the municipal stormwater control ordinance and other ordinances adopted to comply with Part IV of this permit; and

iii. The Municipal Land Use Law concerning the adoption or amendment of the MSWMP (N.J.S.A. 40:55D-13, 28 and 94), and the review of applications for development (N.J.S.A. 40:55D-12). The Tier A Municipality shall also ensure that applicants for development meet the notice requirements of N.J.S.A. 40:55D-12.

b. Tier A Municipalities shall make elements of its MS4 stormwater program available to the public:

i. Provide the current SPPP upon request as required by Part IV.F.1.g (SPPP);

ii. Post the current SPPP on its website to the extent required by Part IV.F.1.f (SPPP); and

iii. Post the current MSWMP and all ordinances required by this permit on its website or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e). See Part IV.B.4.f (MSWMP), 4.g (Stormwater Control Ordinance), 5.a (Community Wide Ordinances).

c. The Tier A Municipality may involve another entity (e.g. a watershed association) to satisfy one or more of the Tier A Municipality's NJPDES permit condition(s) (or component thereof) through the implementation of one or more best management practices or control measures. See Part IV.F.4 (Implementation of SPPP Conditions through Shared or Contracted Services).

d. The Tier A Municipality shall maintain records necessary to demonstrate compliance with the public participation requirements of a, above.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

f. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Local Public Education and Outreach

a. The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater and mitigating flow. The Tier A Municipality shall annually conduct activities that total at least 12 points and include activities from at least three of the five categories as set forth in Attachment B (Points System for Public Education and Outreach Activities). At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

b. The Tier A Municipality shall label all storm drain inlets for those drains that do not have permanent wording cast into the structure of the inlet. The Tier A Municipality shall also maintain the legibility of those labels and replace any labels that are missing or not legible. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. This requirement shall include the following:

   i. All storm drain inlets along sidewalks that are adjacent to municipal streets;

   ii. All storm drain inlets within plazas, parking areas or maintenance yards that are operated by the municipality.

c. The Tier A Municipality shall advertise public involvement program(s) pertaining to education and outreach activities on the municipality's website, through a mailing, through newspaper advertisement, or other similar means.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

e. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

3. Minimum Standards for Construction Site Stormwater Runoff

a. Construction site stormwater runoff activities are authorized under a separate NJPDES permit, generally the Construction Activity Stormwater General Permit No. NJ0088323 pursuant to N.J.A.C. 7:14A-25.6(b)2 (or an individual permit pursuant to N.J.A.C. 7:14A-24.7(a)2). See Part II.C.3.b and www.nj.gov/dep/dwq/5g3.htm. Pursuant to N.J.A.C. 7:14A-25.7(b), the Tier A Municipality is not required to reference construction site stormwater runoff control in its SPPP.

4. Minimum Standards for Post Construction Stormwater Management in New Development and Redevelopment

a. The Tier A Municipality shall develop, update, implement and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8 et seq. In general, the regulations at N.J.A.C. 7:8:

   i. Contain requirements for stormwater management plans and stormwater control ordinances;

ii. Provide information for the adoption and implementation of municipal stormwater management plans and regional stormwater management plans; and

iii. Establish design, performance and maintenance standards for stormwater management measures and establish safety standards for stormwater management basins.

b. The post construction stormwater management program established by the Tier A Municipality shall address stormwater runoff from the following types of major development unless any additional development is defined as "major development" by a municipality's stormwater control ordinance:

i. New development and redevelopment projects that disturb one acre or more and are not operated by the municipality (e.g. retail stores, residential complexes);

ii. New development and redevelopment projects that disturb one acre or more and are operated by the municipality itself (e.g. town complex); and

iii. All new development and redevelopment projects that disturb less than one acre and are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more.

c. The post construction stormwater management program established by the Tier A Municipality shall require compliance with the applicable design, performance and maintenance standards established under N.J.A.C. 7:8 et seq. for major development as defined in this permit.

d. The Tier A Municipality shall review and analyze development applications for compliance with Part IV.B.4 (Post Construction) of this permit even if a separate permit is required by the Department for the same or similar activity (e.g. a Land Use permit).

e. The post construction stormwater management program established by the Tier A Municipality shall ensure that any residential development and redevelopment projects that are subject to the Residential Site Improvement Standards (RSIS) for stormwater management (N.J.A.C. 5:21-7) comply with those standards, including any exception, waiver, or special area standard that was approved under N.J.A.C. 5:21 et seq.

f. The Tier A Municipality shall adopt, amend and implement a written Municipal Stormwater Management Plan (MSWMP), pursuant to N.J.A.C. 7:8 et seq., to describe the framework of the Tier A Municipality's strategy, structure and process for its post construction stormwater management program.

i. The Tier A Municipality shall submit the adopted plan for approval to the County review agency in accordance with N.J.A.C. 7:8-4;

ii. The Tier A Municipality shall notify the Department and post the approved plan and any amendments on its website (or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e)) within thirty days of the effective date of the plan. See Part IV.B.1.b.iii (Public Involvement and Participation);

iii. The Tier A Municipality shall review and update its MSWMP as necessary, and as a part of the reexamination of its municipal master plan in accordance with N.J.A.C. 7:8-4.3(c) and (d).

g. In order to implement the post construction stormwater management program, the Tier A Municipality shall adopt, amend, implement and enforce a municipal stormwater control ordinance. The Tier A Municipality shall develop and adopt the contents of the ordinance in accordance with N.J.A.C. 7:8 et seq. A sample stormwater ordinance consistent with the requirements of the Stormwater Management Rules is posted at www.nj.gov/dep/stormwater/bmp_manual2.htm and a sample stormwater ordinance applicable to Pinelands Area Municipalities is posted at www.nj.gov/dep/stormwater/pinelands.htm. The municipal stormwater control ordinance shall include, at a minimum, the following elements:

   i. Control aspects of residential development and redevelopment projects that are not pre-empted by the RSIS;

   ii. Control stormwater from non-residential development and redevelopment projects, in accordance with the requirements at N.J.A.C. 7:8 et seq.; and

   iii. Set forth special area standards approved by the Site Improvement Advisory Board for residential development or redevelopment projects under N.J.A.C. 5:21-3.5.

h. The Tier A Municipality shall only grant a variance or exemption from the design and performance standards for stormwater management measures if the municipality has a mitigation plan which meets the following requirements:

   i. A mitigation plan must be included in an approved MSWMP and stormwater control ordinance(s). The mitigation plan shall identify measures that are necessary to offset the deficit created by granting the variance or exemption, and can be provided through a menu of design and performance standards with corresponding mitigation projects for different drainage areas within the municipality. See Chapter 3 of the NJ Stormwater BMP Manual at www.nj.gov/dep/stormwater/ for guidance; and

   ii. The municipality submits, within 30 days after the grant of a variance or exemption, a written report to the county review agency and the Department describing the variance or exemption and the required mitigation. Submit the written report to the Department at:
   NJDEP-DWQ-BNPC
   Mail Code 401-02B
   PO Box 420
   Trenton, NJ 08625-0420

i. The Tier A Municipality shall:

   i. Enforce, through the stormwater control ordinance(s) or a separate ordinance, compliance with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets not installed by the Tier A Municipality; and

   ii. Comply with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets installed by the municipality.

j. The Tier A Municipality shall ensure adequate long-term cleaning, operation and maintenance of stormwater management measures:

   i. Pursuant to Part IV.C.1.a (Stormwater Facilities Maintenance), owned or operated by the Tier A Municipality; and

ii. Pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), not owned or operated by the Tier A Municipality.

k. For each structural and non-structural stormwater measure (e.g. stormwater management basin, subsurface infiltration/detention system, manufactured treatment device, green infrastructure), the Tier A Municipality shall:

i. Complete a Major Development Stormwater Summary (as posted on the Department's website at www.nj.gov/dep/dwq/tier_a_forms.htm; courtesy copy provided as Attachment D of this permit) when an application is made to the Tier A Municipality after EDPA;

ii. Update the Major Development Stormwater Summary while stormwater measures are being installed;

iii. Finalize the Major Development Stormwater Summary once certificate of occupancy is issued; and

iv. Maintain a completed Major Development Stormwater Summary and make it available to the Department upon request.

l. The Stormwater Management rules (N.J.A.C. 7:8) and the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7), independently and as implemented in this permit, apply to all areas of the Tier A Municipality.

m. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

n. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

5. Minimum Standards for Pollution Prevention / Good Housekeeping for Municipal Operators

a. Community Wide Ordinances: The Tier A Municipality shall adopt and enforce the following community wide ordinances to address improper disposal of waste:

i. Pet Waste Ordinance: Adopt and enforce an ordinance that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any property, public or private, not owned or possessed by that person. Information on the Pet Waste Ordinance and the benefits of proper disposal of pet solid waste shall be distributed with pet licenses. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

ii. Wildlife Feeding Ordinance: Adopt and enforce an ordinance that prohibits the feeding of any wildlife (e.g. Canada Geese) in any public park or on any other property owned or operated by the Tier A Municipality. Exclusions include wildlife confined in zoos, parks, or rehabilitation centers as well the following unconfined animals: (1) wildlife at environmental education centers; (2) feral cats as part of an approved Trap-Neuter-Release program; and (3) other kinds of unconfined animals, if any, that the ordinance specifically lists and excludes for reasons set forth in the ordinance. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iii. Litter Control Ordinance: Adopt and enforce a litter ordinance or enforce the existing State litter statute at N.J.S.A 13:1E-99.3. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iv. Improper Disposal of Waste Ordinance: Adopt and enforce an ordinance prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the MS4 system excluding those discharges as allowable under Part II.C.2.b. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

v. Containerized Yard Waste/Yard Waste Collection Program Ordinances: (1) Adopt and enforce an ordinance that prohibits placing non-containerized yard wastes (defined as leaves and/or grass clippings) into the street; or (2) develop and implement a non-containerized yard waste collection and disposal program that includes adoption and enforcement of an ordinance that prohibits placing non-containerized yard waste at the curb or along the street within 10 feet of any storm drain inlet and at any time other than a set yard waste collection schedule. The frequency of yard waste pickups shall be determined at the discretion of the Tier A Municipality but shall be part of a set yard waste collection schedule which is noticed to all municipal residents and businesses. Any area, which the municipality determines to have no yard waste, will be exempt from the collections. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for sample ordinances.

vi. Private Storm Drain Inlet Retrofitting Ordinance: Adopt and enforce an ordinance requiring the retrofitting of existing storm drain inlets on private property to meet the standard in Attachment C (Design Standard for Storm Drain Inlets). Specifically, this ordinance: 1) shall apply to storm drain inlets, on property not owned or operated by the Tier A Municipality (e.g. condominium associations), that are in direct contact (i.e. contiguous) to repaving; repairing (excluding individual pothole repair); resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); and reconstruction or alteration of facilities; and 2) shall not apply to a residential lot with one single family house. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

vii. Additional ordinance requirements of this permit are found at Part IV.B.4.g (Stormwater Control Ordinance) above and Part IV.B.6.d (Illicit Connection Ordinance) below.

b. Community Wide Measures: The Tier A Municipality shall develop and continue to implement the following community wide pollution prevention/good housekeeping measures to control solids and floatables:

i. Street Sweeping: Tier A Municipalities shall sweep, at a minimum of once per month (weather and street surface conditions permitting), all streets (including roads or highways) that meet all of the following criteria: (1) the street is owned or operated by the municipality; (2) the street is curbed and has storm drains; (3) the street has a posted speed limit of 35 miles per hour or less; (4) the street is not an entrance or exit ramp; and (5) the street is in a predominantly commercial area.

ii. Catch Basin and Storm Drain Inlet Inspection and Cleaning: The Tier A Municipality shall inspect storm drain inlets and any associated catch basins that it owns or operates and remove sediment, trash, or debris when present. Each catch basin and inlet shall be inspected at least once every five years. The Tier A Municipality shall clean any municipally owned or operated storm drain inlet or catch basin as frequently as necessary to eliminate recurring problems and restore proper function.

iii. Tier A Municipality Storm Drain Inlet Retrofit: The Tier A Municipality shall retrofit existing Tier A Municipality owned or operated storm drain inlets that are: (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. Storm drain inlet retrofits shall meet the standard in Attachment C (Design Standards for Storm Drain Inlets).

c. Municipal Maintenance Yards and Other Ancillary Operations: The Tier A Municipality shall implement the best management practices described in Attachment E (Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations) for municipal maintenance yards and other ancillary operations owned or operated by the Tier A Municipality. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites. The Inventory of Material and Machinery, and Inspections and Good Housekeeping practices specified in Attachment E shall be conducted at all municipal maintenance yards and other ancillary operations. Best Management Practices shall be implemented for the following activities, whenever such activities occur:

i. Fueling Operations;

ii. Discharge of Stormwater from Secondary Containment;

iii. Vehicle Maintenance;

iv. On-Site Equipment and Vehicle Washing and Wash Wastewater Containment;

v. Salt and De-icing Material Storage and Handling;

vi. Aggregate Material and Construction Debris Storage;

vii. Street Sweepings, Catch Basin Clean Out, and Other Material Storage;

viii. Yard Trimmings and Wood Waste Management Sites that are owned and operated by the Tier A Municipality; and

ix. Roadside Vegetation Management.

d. Employee Training: The Tier A Municipality shall develop, update and implement an employee training program to address Tier A MS4 NJPDES permit components and SPPP requirements. All municipal employees shall receive training on those stormwater topics applicable to their title and duties within 3 months of commencement of duties. Records including sign in sheet(s), date(s) of training, and training agenda(s) shall be kept in the SPPP. Training shall occur at least once every two years, unless otherwise specified below:

i. Yard Waste Collection Program (if applicable) – Provide training on frequency of yard waste pickups and schedule; and policy for how and when yard waste can be placed curbside. See Part IV.B.5.a.v (Yard Waste Ordinance).

ii. Monthly Sweeping of Certain Streets in Predominantly Commercial Areas - Provide training on sweeping schedules and proper management of materials collected. See Part IV.B.5.b.i (Street Sweeping).

iii. Illicit Connection Elimination and Outfall Pipe Mapping - Provide training on the impacts associated with illicit connections and details of the program including investigation techniques, physical observations, field sampling, and mapping procedures. See Part IV.B.6 (MS4 Outfall Pipe Mapping, and Illicit Discharge) and the National Menu of Stormwater Best Management Practices at www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater.

iv. Outfall Pipe Stream Scouring Detection and Control - Provide training on how to identify outfall pipe stream scouring and contributing factors. See Part IV.B.6.b (Stream Scouring).

v. Maintenance Yard Operations (including Ancillary Operations) - Provide training annually on inventory of materials and machinery, inspections and good housekeeping; fueling operations; discharge of stormwater from secondary containment; vehicle maintenance; on-site equipment and vehicle washing and wash wastewater containment; salt and de-icing material storage and handling; aggregate material and construction debris storage; street sweeping, catch basin clean out, and other material storage; yard trimmings and wood waste management sites. See Part IV.B.5.c (Municipal Maintenance Yards and Other Ancillary Operations).

vi. Waste Disposal Education - Provide training on the impacts associated with improper waste disposal, how to respond to inquiries regarding improper waste disposal, and appropriate enforcement authority.

vii. Municipal Ordinances - Provide training on the following ordinances: Pet Waste Ordinance; Wildlife Feeding Ordinance; Litter Control Ordinance; Improper Disposal of Waste Ordinance; Containerized Yard Waste/Yard Waste Collection Ordinance; and the Private Storm Drain Inlet Ordinance. Training shall include an overview of these ordinance requirements, enforcement policies and the repercussions of non-compliance with these ordinances. See Part IV.B.5.a (Community Wide Ordinances).

viii. Stormwater Facility Maintenance – Provide training annually on maintenance of stormwater facilities, and catch basin and inlet cleaning methods. See Part IV.C.1 (Stormwater Facilities Maintenance), and Part IV.B.5.b.ii (Catch Basin and Storm Drain Inlets).

ix. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment - Provide general training on the permitting requirements for construction activity and Post-Construction Stormwater Management in New Development and Redevelopment. See Part IV.B.3 (Construction Site Runoff) and B.4 (Post Construction).

x. Provide general training annually on the Tier A Municipality's SPPP, applicable recordkeeping requirements, and detailed training on any component applicable to an employee's title and duties. See Part IV.F (SPPP).

xi. Training may also be conducted on stormwater-related topics that serve an educational purpose for employees.

e. Stormwater Management Design Review Training: The Tier A Municipality shall ensure that all design engineers, municipal engineers and other individuals that review the stormwater management design for development and redevelopment projects on behalf of the municipality, complete the Department approved Stormwater Management Design Review Course (see www.nj.gov/dep/stormwater/training.htm) once every five years. This includes those individuals that review any projects that are subject to the Tier A Municipality's municipal stormwater management plan and control ordinance as described in Part IV.B.4 (Post Construction). Individuals that will review stormwater management design and have not completed this course within the past five years must attend the next scheduled course offering. If unable to attend, the Tier A Municipality must notify the Department in writing no later than thirty days after the missed course offering explaining why attendance was not possible and what alternate arrangements are being made. Training completed within five calendar years prior to EDPA qualifies towards this requirement. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

f. Municipal Board and Governing Body Member Related Training: The Tier A Municipality shall ensure that municipal board and governing body members that review and approve applications for development and redevelopment projects, complete the "Asking the Right Questions in Stormwater Review Training Tool" posted at www.nj.gov/dep/stormwater/training.htm. This includes those individuals that review any projects for compliance with Part IV.B.4 (Post Construction) of this permit. Training must be completed by current municipal board and governing body members on or before EDPA + 6 months and by new members within six months of commencing duties. Once per term of service thereafter, municipal board and governing body members must review at least one of the tools offered under Post-Construction Stormwater Management found at the website above. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

g. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Pollution Prevention / Good Housekeeping for Municipal Operators specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

h. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Pollution Prevention / Good Housekeeping for Municipal Operators specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

6. Minimum Standards for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control

a. Outfall Pipe Mapping: Tier A Municipalities shall develop, update and maintain an outfall pipe map showing the location of the end of all MS4 outfall pipes (tidal and non-tidal) owned or operated by the Tier A Municipality which discharge to a surface water body. The outfall pipe map shall:

i. Be current at the end of each calendar year;

ii. Show the location (and name, where known to the municipality) of all surface water bodies receiving discharges from those outfall pipes;

iii. Be included in the SPPP;

iv. Be provided to the Department by Existing Permittees on or before EDPA + 12 months and by New Permittees on or before EDPA + 36 months. New data points subsequently added to the map shall be provided to the Department annually thereafter; and

v. Be submitted electronically by December 21, 2020 via the Department's designated electronic submission service.

b. Stream Scouring: Tier A Municipalities shall develop, update and implement a program to detect, investigate and control any localized stream scouring from stormwater outfall pipes owned or operated by the municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. The Tier A Municipality shall, at a minimum:

i. Inspect each outfall pipe which discharges to a stream for localized stream scouring in the vicinity of the outfall pipe. Each outfall pipe shall be inspected at least once every five years;

ii. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for localized stream scouring in the vicinity of the outfall pipe;

iii. When localized stream scouring is detected, document sources of stormwater that contribute to the outfall pipes identified in i and ii, above. Each identified source shall be investigated; and (1) where identified sources are located on property owned or operated by the Tier A Municipality, corrective action to reduce stormwater rate or volume shall be taken by the municipality when feasible, or (2) where identified sources are within the jurisdiction of but not located on property owned or operated by the Tier A Municipality, the municipality shall ensure proper operation and maintenance of stormwater facilities located thereon pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), below;

iv. Prioritize, schedule and complete remediation of identified localized stream scouring and take action based upon the requirements of Part IV.B.6.b.iii(1) and (2), above. If not completed, a schedule for completion shall be maintained as required in Part IV.C.1.a.iv (Stormwater Facilities Maintenance); and

v. All stream scouring restoration shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1) and the requirements for bank stabilization and channel restoration found at N.J.A.C. 7:13 et seq. All associated maintenance or repairs to stormwater facilities shall be made in accordance with N.J.A.C 7:8.

c. Illicit Discharge Detection and Elimination: The Tier A Municipality shall develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program in accordance with this permit. This program shall be documented in the written SPPP, as required in Part IV.F.1.a.iii (SPPP). See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. See also USEPA Guidance at www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf. The Tier A Municipality shall, at a minimum:

i. Conduct visual dry weather inspection of all outfall pipes owned or operated by the municipality at least once every five years to determine if dry weather flow or other evidence of illicit discharge is present. Dry weather flow is flow occurring 72 hours after a rain event.

ii. Investigate the source if evidence of illicit discharge is found;

iii. Eliminate non-stormwater discharges that are traced to their source and found to be illicit connections;

iv. Document investigations and actions taken using the Department's Illicit Connection Inspection Report Form. See www.nj.gov/dep/dwq/tier_a_forms.htm;

v. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for illicit discharges;

vi. Investigate dry weather flows discovered during routine inspection and maintenance of other elements of the MS4; and

vii. Investigate, within three months of receipt, complaints and reports of illicit connections, including those from operating entities of interconnected MS4s.

d. The Tier A Municipality shall adopt and enforce an ordinance that prohibits illicit connections to the municipal separate storm sewer system operated by the Tier A Municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

f. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

C. Other Control Measures

1. Minimum Standards for Stormwater Facilities Maintenance

a. The Tier A Municipality shall develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned or operated stormwater facilities.

i. Stormwater facility inspection and maintenance must be performed pursuant to any maintenance plans, or more frequently as needed, to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

iii. The Tier A Municipality shall certify annually that municipally owned or operated stormwater facilities are properly functioning.

iv. If stormwater facilities were found not to be functioning properly and repairs were not made, then necessary preventive and corrective maintenance shall be documented and prioritized, and a schedule for such repairs shall be maintained. The Tier A Municipality shall prioritize this schedule based upon but not limited to: (1) environmental, health and safety concerns; (2) the findings of catch basin and storm drain inlet inspections performed pursuant to Part IV.B.5.b.ii, above; (3) the findings of stream scouring inspections performed pursuant to Part IV.B.6.b, above; and (4) to incorporate the findings pursuant to Part IV.C.2 (TMDL Information), below.

b. The Tier A Municipality shall develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.

i. The Tier A Municipality shall ensure that stormwater facility maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

c. The Tier A Municipality shall maintain copies of all maintenance plans, as defined in Notes and Definitions Part IV.B.1.g of this permit, for stormwater facilities approved by the municipality. The Tier A municipality shall make copies of these maintenance plans available to the Department upon request.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

e. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Total Maximum Daily Load (TMDL) Information

a. Incorporation of TMDL Information Into the SPPP

i. The Tier A Municipality shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality. This information may be accessed at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm;

ii. The Tier A Municipality shall use TMDL information identified in i, above to, at a minimum, (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.1.a.iv (Stormwater Facilities Maintenance), above; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see "Total Maximum Daily Load (TMDL) Guidance for Tier A MS4 Permittees" found at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm); and

iii. The Tier A Municipality shall annually update its SPPP to list information identified in i and ii, above; and

iv. The Tier A Municipality shall incorporate any strategies identified in ii(2), above as an Optional Measure. See Part IV.E (Optional Measures) and Part IV.F.1.c (SPPP), below.

b. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

c. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

D. Additional Measures

1. Incorporation of Additional Measures

a. Additional Measures are non-numeric (e.g., best management practices) or numeric effluent limitations that are expressly required to be included in a Tier A Municipality's stormwater program by a TMDL; a regional stormwater management plan; other elements of an adopted areawide Water Quality Management Plan; or the adopted Statewide Water Quality Management Plan.

b. The Department will provide written notice of the adoption of any Additional Measure(s) to any affected Tier A Municipality. The Department will list each adopted Additional Measure in a minor modification to the Tier A MS4 NJPDES permit. For any required Additional Measure(s) other than numeric effluent limitations, the required Additional Measure(s) will specify the best management practices that shall be implemented and the measurable goals. The required Additional Measure(s) will also specify the implementation schedule.

E. Optional Measures

1. Incorporation of Optional Measures

a. Optional Measures are BMPs, developed by the Tier A Municipality, that extend beyond the requirements of the Tier A MS4 NJPDES permit and that prevent or reduce pollution to waters of the State.

b. The Tier A Municipality may, at its own discretion, incorporate Optional Measures into its MS4 stormwater program. Such BMPs shall be identified in the SPPP as Optional Measures.

c. Failure to implement an Optional Measure identified in the SPPP shall not be considered a violation of the NJPDES permit.

2. Refuse Container / Dumpster Ordinance

a. Tier A Municipalities have the option of adopting and enforcing an ordinance requiring dumpsters and other refuse containers that are outdoors or exposed to stormwater to be covered at all times. This ordinance serves to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers. This ordinance is not intended for litter receptacles; individual homeowner trash and recycling containers; containers that hold large bulky items (e.g., furniture, bound carpet and padding); permitted temporary demolition containers; and refuse containers at industrial facilities authorized to discharge stormwater under a valid NJPDES permit. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

F. Stormwater Pollution Prevention Plan (SPPP)

1. SPPP Requirements

a. The Tier A Municipality shall develop, update, implement, and maintain a written SPPP (see the Tier A Municipal Guidance document www.nj.gov/dep/dwq/tier_a_guidance.htm) that:

i. Identifies the person designated as the Municipal Stormwater Program Coordinator (Stormwater Coordinator) per Part IV.F.2 below, and the members of the SPPP Team.

ii. Documents the municipality's Tier A MS4 Stormwater Program including a description of shared or contracted services as allowed under Part IV.F.4, below.

iii. Describes the measures necessary for compliance with all components of the Tier A MS4 NJPDES permit including all measures described in Part IV.B, C, D and E above.

iv. Reflects the measurable goals, implementation schedules, record keeping and other requirements in Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

b. The Tier A Municipality's Stormwater Coordinator shall sign and date the SPPP per Part IV.F.3, below.

c. The Tier A Municipality shall review the SPPP at least annually and update it as often as necessary to reflect changes related to the municipality's Tier A MS4 Stormwater Program. Any amendments to the SPPP:

i. Shall continue to meet the requirements of this permit;

ii. Shall be signed and dated by the Stormwater Coordinator; and

iii. Shall be retained for a period of at least five years from the date of amendment unless the Department issues a written notice to extend the retention period.

d. The SPPP shall include any records required by this Tier A MS4 NJPDES permit. See Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule) for additional detail.

e. The Department may notify the Tier A Municipality at any time that the SPPP does not meet one or more of the minimum requirements. Within thirty (30) days after receiving such notification unless otherwise specified by the Department, the Tier A Municipality shall amend the SPPP to adequately address all deficiencies, and written certification of such amendments shall be submitted to the Department.

f. The current SPPP shall be posted on the Tier A Municipality's website no later than EDPA + 90 days with updates posted annually thereafter. The version posted on the website can exclude:

   i. Inspection logs and other required record keeping; and

   ii. The names of SPPP Team members but must include the name of the Stormwater Coordinator.

g. The SPPP shall be made available to the Department and public upon request pursuant to N.J.A.C. 7:14A-25.6(j)2.

h. New Permittee: A new permittee shall create a written SPPP as required by this section by EDPA + 12 months.

2. Designation of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. Each Tier A Municipality shall designate a Stormwater Coordinator.

b. The Stormwater Coordinator shall be either a principal executive officer or a ranking elected official as required at N.J.A.C. 7:14A-4.9(a)3;

c. A principal executive officer or ranking elected official of the Tier A Municipality may assign this responsibility, as allowed at N.J.A.C. 7:14A-4.9(b), to a duly authorized representative who has overall responsibility for the operation of municipal stormwater facilities or municipal environmental matters;

d. If an assignment under b or c, above changes, then a new assignment of responsibility shall be submitted to the Department. This is accomplished through completion of the online MSRP Annual Report (see Part IV.G Annual Report and Certification below) or the Stormwater Program Coordinator Information Update Sheet posted at www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf. This information shall be submitted to the Department within 30 days of such change taking place.

3. Responsibilities of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. The Tier A Municipality shall designate a Municipal Stormwater Program Coordinator (Stormwater Coordinator). The Stormwater Coordinator is responsible for:

   i. Coordinating the permittee's implementation of the SPPP and Tier A MS4 NJPDES permit conditions;

   ii. Signing and dating the SPPP;

   iii. Coordinating the completion and submittal of the Annual Report and Certification; and

   iv. Certifying, signing and dating the Annual Report.

4. Implementation of SPPP Conditions through Shared or Contracted Services

a. The Tier A Municipality may rely on another governmental, private, or nonprofit entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions, or component thereof, through the implementation of best management practices or control measures. This is only allowable provided the following conditions are met:

   i. The other entity implements the best management practice(s) or control measure(s);

   ii. The particular best management practice(s) or control measure(s), or component(s) thereof, is at least as stringent or as frequent as the corresponding NJPDES permit requirement;

   iii. The other entity agrees in writing or is required by law to implement the measure(s), or component(s) thereof, in such a manner that is in compliance with the Tier A MS4 NJPDES permit on the Tier A Municipality's behalf; and

   iv. The Tier A Municipality specifies in its SPPP (1) which NJPDES permit conditions will be implemented by another entity and (2) the name of the responsible entity.

b. For any projects or activities which the Tier A Municipality assigns to another entity which is a private contractor, the awarded contract shall require the contractor to conduct such projects or activities in such a manner that is in compliance with the Tier A MS4 NJPDES permit.

c. The Tier A Municipality is responsible for compliance with this permit if the other entity fails to implement the measure(s) or component(s), thereof.

G. Annual Report and Certification

1. Reporting Requirements

a. The Tier A Municipality shall complete an Annual Report, including any Supplemental Questions, using the electronic format provided by the Department via the MSRP Annual Report service accessed through the Regulatory Services Portal (www.njdeponline.com). The Annual Report shall summarize the status of compliance with the conditions of this permit. Specifically, this includes compliance for the subject year between January 1 and December 31 with the Statewide Basic Requirements (Part IV.B), Other Control Measures (Part IV.C), Additional Measures (Part IV.D), Optional Measures (Part IV.E), Stormwater Pollution Prevention Plan (Part IV.F), and any other Tier A MS4 NJPDES permit conditions listed on the Annual Report form, including Supplemental Questions.

b. The Municipal Stormwater Program Coordinator shall certify, sign and date the Annual Report.

c. Submit an Annual Report and Certification: on or before May 1st annually. The Tier A Municipality shall submit the Annual Report and Certification to the Department through the Regulatory Services Portal (instructions at www.nj.gov/dep/dwq/tier_a.htm).

d. A copy of each Annual Report and Certification shall be kept at a central location and shall be made available to the Department for inspection.

e. The Tier A Municipality shall retain the Annual Report and Certification as well as any records required to be kept by this permit for a period of at least five years.

f. The Tier A Municipality shall document in the Annual Report (1) if it relies on another entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions as described in Part IV.F.4.a (Implementation of SPPP Conditions through Shared or Contracted Services), above; (2) which NJPDES permit conditions will be satisfied by another entity; and (3) the name of the governmental, private, or nonprofit entity.

Attachment A – Measurable Goals and Implementation Schedule for Existing Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for Existing Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

An indication of whether the cited Minimum Standard is a new requirement is provided in the last column. Where a requirement is not new and not modified (and for some that are modified), the Existing Permittee is expected to be in compliance on the Effective Date of Permit Authorization (EDPA). For most new requirements (and for some modified requirements), additional time is provided for achieving compliance.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be updated as required by Part IV.F.1.c, above.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F.1 above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for Existing Permittees				
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Public Involvement and Participation Including Public Notice				
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA	No
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA	No
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 90 days	Yes
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days	Yes
Local Public Education and Outreach				
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA	Modified
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months	Yes
Post Construction Stormwater Management in New Development and Redevelopment				
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	No
For each structural and non-structural stormwater measure (e.g. basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Yes
Pollution Prevention/Good Housekeeping - Community Wide Ordinances				
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA	No
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Community Wide Measures				
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations				
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA	No
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA	No
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA	No
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA	No
BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA	Modified
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA	No
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 12 months	Yes
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 12 months	Yes
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 12 months	Yes
Pollution Prevention/Good Housekeeping - Training Program				
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months	Modified
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months	Yes
Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control				
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report that the outfall pipe map is current at the end of the calendar year.	EDPA	No
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA	No
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA +12 months	Yes
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA +12 months	Yes
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020	Yes
Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA	Modified
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Stormwater Facilities Maintenance				
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Modified
Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA	Modified
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA	No
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA	Modified
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 12 months	Modified
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 12 months	Modified
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Yes
Total Maximum Daily Load (TMDL) Info.				
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months	Yes
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months	Yes
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months	Yes

Attachment A-1 – Measurable Goals and Implementation Schedule for New Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for New Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be created by EDP + 12 months and updated on annual basis thereafter as required by Part IV.F.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for New Permittees			
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Public Involvement and Participation Including Public Notice			
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA + 12 months
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 12 months)
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days
Local Public Education and Outreach			
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months
Post Construction Stormwater Management in New Development and Redevelopment			
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA
For each structural and non-structural stormwater measure (basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA

Pollution Prevention/Good Housekeeping - Community Wide Ordinances			
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Community Wide Measures			
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 24 months

Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA + 24 months
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations			
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA + 12 months
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA + 12 months
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA + 12 months
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA + 12 months

BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA + 60 months
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA + 60 months
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 18 months
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 18 months
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 18 months
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 18 months
Pollution Prevention/Good Housekeeping - Training Program			
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months

Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control			
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report following the implementation deadline that the outfall pipe map is current at the end of the calendar year.	EDPA + 36 months
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report following the implementation deadline that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA + 36 months
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA + 36 months
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA + 36 months
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020

Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 60 months
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA + 60 months
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Stormwater Facilities Maintenance			
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 18 months

Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA + 18 months
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA + 18 months
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA + 18 months
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be	EDPA + 18 months

		referenced, in the SPPP.	
Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 18 months
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months
Total Maximum Daily Load (TMDL) Info.			
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months

Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months

Attachment B – Points System for Public Education and Outreach Activities

The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater runoff and mitigating flow.

The Tier A Municipality shall **annually** conduct educational activities that total at least **12 points** and include activities from at least three of the five categories found below. At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Each approved activity is listed below with an assigned point value. Additional information on how to conduct these Public Education and Outreach activities can be found under Notes and Definitions Part IV.A.3 and 4 of this Tier A MS4 NJPDES permit. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

Category 1: General Public Outreach		
Activity	**Description**	**Points**
Website and Social Media	Maintain a stormwater related page on the municipal website or on a municipal social media site. The web page may include links to other stormwater related resources, including the NJDEP stormwater website (www.njstormwater.org).	1
Newspaper Ad	Use Department created and approved stormwater education materials available on www.cleanwaternj.org to publish an ad in a newspaper or newsletter that serves the municipality.	1
Radio/Television	Broadcast a radio or television public service announcement from www.cleanwaternj.org on a local radio or municipal public service channel.	1
Green Infrastructure Signage	Post signs at municipally-owned green infrastructure sites that describe the function and importance of the infrastructure, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*
Billboard/Sign	Produce and maintain (for credit in subsequent years) a billboard or sign which can be displayed on a bus, bus stop shelter, recreation field (outfield sign), or other similar public venue.	2
Mural	Produce and maintain (for credit in subsequent years) the planning and painting of a stormwater pollution themed mural, storm drain art or other artwork at a local downtown/commercial area or other similar public venue.	2
Stormwater Facility Signage	Post signs at municipally-owned stormwater management basins or other structural stormwater related facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*

Category 2: Targeted Audiences Outreach		
Activity	**Description**	**Points**
Stormwater Display	Present a stormwater related display or materials at any municipal event (e.g., Earth Day, town picnic), at the municipal building or other similar public venue.	1
Promotional Item	Distribute an item or items with a stormwater related message (e.g., refrigerator magnets, temporary tattoos, key chains, bookmarks, pet waste bag dispensers, coloring books, and pens or pencils). Municipality must initially have available a minimum number of the items equal to 10% of the municipal population.	2
Mailing or e-Mailing Campaign	Provide information to all known owners of stormwater facilities not owned or operated by the municipality (i.e., privately owned) highlighting the importance of proper maintenance of stormwater measures. For assistance, see information at www.nj.gov/dep/stormwater/maintenance_guidance.htm.	3
Mailing or e-Mailing Campaign	Distribute any of the Department's educational brochures, tip cards, or a municipally produced equivalent (e.g., community calendar, newsletter, or recycling schedule) via a mailing to every resident and business in the municipality.	2
Ordinance Education	Distribute a letter or e-mail from the mayor or municipal official to every resident and business in the municipality highlighting the requirements and environmental benefits of the Pet Waste, Wildlife Feeding, Litter Control, Improper Disposal of Waste, Containerized Waste/Yard Waste Collection, Private Storm Drain Inlet Retrofitting and Illicit Connection ordinances. Provide a link to the municipal website where subject ordinances are posted.	3

Category 3: School / Youth Education and Activities		
Activity	**Description**	**Points**
School Presentations	Provide water-related educational presentation(s) and/or activities to local preschool, elementary, middle, and/or high school classes using municipal staff or local partner organizations. Topics could include stormwater, nonpoint source pollution, watersheds, water conservation and water quality. For ideas, see information at www.nj.gov/dep/seeds. *Presentations receive 1 credit per presentation, with a maximum of 5 credits allowed.	5*
Water Education Workshops	Provide water-related professional development workshops for local teachers from a registered NJ Department of Education Professional Development Provider.	2
Storm Drain Labeling	Organize a project to label and/or maintain storm drain labels (that are not already precast with a message) with a scout troop, local school district, or faith based group, or other community youth group for a minimum of 40 labels. This project could also include stenciling over precast labels to improve legibility.	3
Educational Contest for Schools	Organize an educational contest with a local school district or a local community organization serving youth to design a poster, magnet, rain stick, rain barrel or other craft/art object. Contest themes shall have an appropriate stormwater message. Winning entries are to be displayed at publicly accessible locations within the municipality such as at the town hall, library, post office, or school. The winning design should be shown on the municipality's website or social media site, if practical.	3
AmeriCorps Event	Coordinate an event (e.g. volunteer stream monitoring, educational presentations, or stormwater awareness project) through AmeriCorps NJ Watershed Ambassador Program	4
Clean-up	Sponsor or organize a litter clean up for a scout troop, local school district, faith based group or other community youth group along a local waterway, public park, stormwater facility, or in an area with storm drains that discharge to a local lake or waterway.	3

Category 4: Watershed/Regional Collaboration		
Activity	**Description**	**Points**
Regional Stormwater Collaboration	Participate in a regional stormwater, community collaborative or other watershed-based group on a regular basis to discuss impaired waterbodies, TMDLs, regional stormwater related issues, or watershed restoration plans that address those waterbodies. Evaluate, develop and implement remedies that resolve stormwater-related issues within the affected waterbody or watershed.	3
Green Infrastructure Workshop	Organize or participate in a rain barrel, rain garden or other green infrastructure workshop on a regional or watershed basis. This could be a partnership exercise with a local watershed organization, utility, university, school, youth/faith based group, and/or other organization.	3
Community Activity	Organize or participate in the organization of a regional or watershed based event to carry out stormwater activities such as stormwater facility maintenance or litter clean-up. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, utility, university, school, youth/faith based group, and/or other organization to carry out these activities	3

Category 5: Community Involvement Activities		
Activity	**Description**	**Points**
Volunteer Stormwater Assessment or Stream Monitoring	Establish a volunteer stormwater facility assessment (inspection, inventory and/or mapping) or stream monitoring program for a waterbody within the municipality in order to gauge the health of the waterway through chemical, biological or visual monitoring protocols. Contact NJDEP's AmeriCorps NJ Watershed Ambassador Program or review USEPA National Directory of Volunteer Monitoring Programs.	3
Rain Barrel Workshop	Organize or participate in a rain barrel workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Rain Garden Workshop	Organize or participate in a rain garden training or installation workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Community Event	Organize or participate in the organization of a community event to carry out stormwater activities such as stormwater measure maintenance or a stream buffer restoration. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, university, utility, school, youth/faith based group, and/or other nonprofit to carry out these activities.	3
Community Involvement	Organize a project with a local organization to create and post signs at either green and/or gray stormwater infrastructure sites or facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *Signs receive 0.5 credits per sign. A maximum of 5 credits are allowed.	5*

Attachment C - Design Standards for Storm Drain Inlets

Application of Design Standard

The below design standard applies to the following types of storm drain inlet installation or retrofit projects unless a more stringent standard is specified by the municipality's stormwater control ordinance:

- Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb one acre or more;
  - Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb less than one acre that are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more;
- Tier A Municipality owned or operated storm drain inlets must be retrofitted where the storm drains are (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities; and
- Privately owned or operated storm drain inlets (e.g. condomium association) must be retrofitted where the storm drains are (1) in direct contact with anyrepaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. This does not include single family homes.

Design Standard

Grates in pavement or other ground surfaces shall meet either of the following standards:

- The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (see www.nj.gov/transportation/publicat/pdf/BikeComp/introtofac.pdf); or
- A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is not greater than 0.5 inches across the smallest dimension. Note that the Residential Site Improvement Standards at N.J.A.C. 5:21include requirements for bicycle safe grates.

Examples of grates subject to this standard include grates in grate inlets; the grate portion (non-curb opening portion) of combination inlets; grates on storm sewer manholes; ditch grates; trench grates; and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads, (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body

For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

Exemptions from the Design Standard

- Where each individual clear space in the curb opening in existing curb-opening inlets does not have an area of more than nine (9.0) square inches;

- Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;

- Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

  A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or

  A bar screen having a bar spacing of 0.5 inches;

  Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- Where flows are conveyed through a trash rack that has parallel bars with one inch (1") spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8; or

- Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

Attachment D – Major Development Stormwater Summary

General Information
1. Project Name:
2. Municipality: County: Block(s): Lot(s):
3. Site Location (State Plane Coordinates – NAD83): E: N:
4. Date of Final Approval for Construction by Municipality: Date of Certificate of Occupancy:
5. Project Type (circle all that apply): Residential Commercial Industrial Other (please specify) _____
6. Soil Conservation District Project Number:
7. Did project require NJDEP Land Use Permit? Yes No Land Use Permit #:
8. Did project require the use of any mitigation measures? Yes No If yes, which standard was mitigated?

Site Design Specifications
1. Area of Disturbance (acres): Area of Proposed Impervious (acres):
2. List all Hydrologic Soil Groups:
3. Please Identify the Amount of Each Best Management Practices (BMPs) Utilized in Design Below: Bioretention Systems ___ Constructed Wetlands ___ Dry Wells ___ Extended Detention Basins ___ Infiltration Basins ___ Combination Infiltration/Detention Basins ___ Manufactured Treatment Devices___ Pervious Paving Systems ___ Sand Filters ___ Vegetative Filter Strips ___ Wet Ponds ___ Grass Swales ___ Subsurface Gravel Wetlands ___ Other _____

Storm Event Information
Storm Event: Rainfall (inches and duration) 2 yr.: _____ 10 yr.: _____ 100 yr.: WQ DS:
Runoff Computation Method (circle one): NRCS: Dimensionless Unit Hydrograph NRCS: Delmarva Unit Hydrograph Rational Modified Rational Other: _____

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
1. Type of Basin: Surface/Subsurface (circle one)
2. Owner (circle one): Public Private: If so, Name: Phone number:
3. Basin Construction Completion Date:
4. Drain Down Time (hr.):
5. Design Soil Permeability (in./hr.):
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
7. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
8. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Comments: _____

_____

_____

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
10. Type of Basin:	Surface/Subsurface (circle one)
11. Owner (circle one): Public	Private: If so, Name: Phone number:
12. Basin Construction Completion Date:	
13. Drain Down Time (hr.):	
14. Design Soil Permeability (in./hr.):	
15. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
16. Groundwater Recharge Methodology (circle one):	2 Year Difference NJGRS Other NA
17. Groundwater Mounding Analysis (circle one):	Yes No If, Yes Methodology Used:
18. Maintenance Plan Submitted: Yes No	Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
19. Type of Basin:	Surface/Subsurface (circle one)
20. Owner (circle one): Public	Private: If so, Name: Phone number:
21. Basin Construction Completion Date:	
22. Drain Down Time (hr.):	
3. Design Soil Permeability (in./hr.):	
24. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
25. Groundwater Recharge Methodology (circle one):	2 Year Difference NJGRS Other NA
26. Groundwater Mounding Analysis (circle one):	Yes No If, Yes Methodology Used:
27. Maintenance Plan Submitted: Yes No	Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
28. Type of Basin:	Surface/Subsurface (circle one)
29. Owner (circle one): Public	Private: If so, Name: Phone number:
30. Basin Construction Completion Date:	
31. Drain Down Time (hr.):	
32. Design Soil Permeability (in./hr.):	
33. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
34. Groundwater Recharge Methodology (circle one):	2 Year Difference NJGRS Other NA
35. Groundwater Mounding Analysis (circle one):	Yes No If, Yes Methodology Used:
36. Maintenance Plan Submitted: Yes No	Is the Basin Deed Restricted: Yes No

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Attachment E – Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations

The Tier A Municipality shall implement the following practices at municipal maintenance yards and other ancillary operations owned or operated by the municipality. Inventory of Materials and Machinery, and Inspections and Good Housekeeping shall be conducted at all municipal maintenance yards and other ancillary operations. All other Best Management Practices shall be conducted whenever activities described below occur. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites.

Inventory of Materials and Machinery

The SPPP shall include a list of all materials and machinery located at municipal maintenance yards and ancillary operations which could be a source of pollutants in a stormwater discharge. The materials in question include, but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the municipal maintenance yard operations and ancillary operations. Materials or machinery that are not exposed to stormwater at the municipal maintenance yard or related to its operations do not need to be included.

Inspections and Good Housekeeping

1. Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Identify conditions that would contribute to stormwater contamination, illicit discharges or negative impacts to the Tier A Municipality's MS4. Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at Municipal Maintenance Yards and Other Ancillary Operations. This log must contain, at a minimum, a record of inspections of all operations listed in Part IV.B.5.c. of this permit including dates and times of the inspections, and the name of the person conducting the inspection and relevant findings. This log must be kept on-site with the SPPP and made available to the Department upon request. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for additional information.

2. Conduct cleanups of spills of liquids or dry materials immediately after discovery. All spills shall be cleaned using dry cleaning methods only. Clean up spills with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and sweep the rest of the area. Dispose of collected waste properly. Store clean-up materials, spill kits and drip pans near all liquid transfer areas, protected from rainfall.

3. Properly label all containers. Labels shall be legible, clean and visible. Keep containers in good condition, protected from damage and spillage, and tightly closed when not in use. When practical, store containers indoors. If indoor storage is not practical, containers may be stored outside if covered and placed on spill platforms or clean pallets. An area that is graded and/or bermed to prevent run-through of stormwater may be used in place of spill platforms or clean pallets. Outdoor storage locations shall be regularly maintained.

Fueling Operations

1. Establish, maintain and implement standard operating procedures to address vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.

   a. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.

   b. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel shall be within the temporarily bermed or boomed area during the loading/unloading of bulk fuels. A trained employee shall be present to supervise the bulk transfer of fuel.

   c. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment. Include all of the following:
      - "Topping off of vehicles, mobile fuel tanks, and storage tanks is strictly prohibited"
      - "Stay in view of fueling nozzle during dispensing"
      - Contact information for the person(s) responsible for spill response.

   d. Immediately repair or replace any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair.

Discharge of Stormwater from Secondary Containment

The discharge pipe/outfall from a secondary containment area (e.g. fuel storage, de-icing solution storage, brine solution) shall have a valve and the valve shall remain closed at all times except as described below. A municipality may discharge stormwater accumulated in a secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not come in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the municipality shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the municipality cannot make a determination with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Vehicle Maintenance

1. Operate and maintain equipment to prevent the exposure of pollutants to stormwater.

2. Whenever possible, conduct vehicle and equipment maintenance activities indoors. For projects that must be conducted outdoors, and that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on, and drip pans shall be used at all times. Use designated areas away from storm drains or block storm drain inlets when vehicle and equipment maintenance is being conducted outdoors.

On-Site Equipment and Vehicle Washing and Wash Wastewater Containment

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to waters of the State.

2. Tier A Municipalities which cannot discharge wash wastewater to a sanitary sewer or which cannot otherwise comply with 1, above, may temporarily contain wash wastewater prior to proper disposal under the following conditions:

   a. Containment structures shall not leak. Any underground tanks and associated piping shall be tested for integrity every 3 years using appropriate methods determined by "*The List of Leak Detection Evaluations for Storage Tank Systems*" created by the National Work Group on Leak Detection Evaluations (NWGLDE) or as determined appropriate and certified by a professional engineer for the site specific containment structure(s).

   b. For any cathodically protected containment system, provide a passing cathodic protection survey every three years.

   c. Operate containment structures to prevent overfilling resulting from normal or abnormal operations, overfilling, malfunctions of equipment, and human error. Overfill prevention shall include manual sticking/gauging of the tank before each use unless system design prevents such measurement. Tank shall no longer accept wash wastewater when determined to be at 95% capacity. Record each measurement to the nearest ½ inch.

   d. Before each use, perform inspections of all visible portions of containment structures to ensure that they are structurally sound, and to detect deterioration of the wash pad, catch basin, sump, tank, piping, risers, walls, floors, joints, seams, pumps and pipe connections or other containment devices. The wash pad, catch basin, sump and associated drains should be kept free of debris before each use. Log dates of inspection; inspector's name, and conditions. This inspection is not required if system design prevents such inspection.

   e. Containment structures shall be emptied and taken out of service immediately upon detection of a leak. Complete all necessary repairs to ensure structural integrity prior to placing the containment structure back into service. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline (1-877-927-6337) followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed.

   f. All equipment and vehicle wash wastewater placed into storage must be disposed of in a legally permitted manner (e.g. pumped out and delivered to a duly permitted and/or approved wastewater treatment facility).

   g. Maintain a log of equipment and vehicle wash wastewater containment structure clean-outs including date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See Underground Vehicle Wash Water Storage Tank Use Log at end of this attachment.

   h. Containment structures shall be inspected annually by a NJ licensed professional engineer. The engineer shall certify the condition of all structures including: wash pad, catch basin,

sump, tank, piping, risers to detect deterioration in the, walls, floors, joints, seams, pumps and pipe connections or other containment devices using the attached Engineer's Certification of Annual Inspection of Equipment and Vehicle Wash Wastewater Containment Structure. This certification may be waived for self-contained systems on a case-by-case basis. Any such waiver would be issued in writing by the Department.

3. Maintain all logs, inspection records, and certifications on-site. Such records shall be made available to the Department upon request.

Salt and De-icing Material Storage and Handling

1. Store material in a permanent structure.
2. Perform regular inspections and maintenance of storage structure and surrounding area.
3. Minimize tracking of material from loading and unloading operations.
4. During loading and unloading:
   a. Conduct during dry weather, if possible;
   b. Prevent and/or minimize spillage; and
   c. Minimize loader travel distance between storage area and spreading vehicle.
5. Sweep (or clean using other dry cleaning methods):
   a. Storage areas on a regular basis;
   b. Material tracked away from storage areas;
   c. Immediately after loading and unloading is complete.
6. Reuse or properly discard materials collected during cleanup.
7. Temporary outdoor storage is permitted only under the following conditions:
   a. A permanent structure is under construction, repair or replacement;
   b. Stormwater run-on and de-icing material run-off is minimized;
   c. Materials in temporary storage are tarped when not in use;
   d. The requirements of 2 through 6, above are met; and
   e. Temporary outdoor storage shall not exceed 30 days unless otherwise approved in writing by the Department;
8. Sand must be stored in accordance with Aggregate Material and Construction Debris Storage below.

Aggregate Material and Construction Debris Storage

1. Store materials such as sand, gravel, stone, top soil, road millings, waste concrete, asphalt, brick, block and asphalt based roofing scrap and processed aggregate in such a manner as to minimize stormwater run-on and aggregate run-off via surface grading, dikes and/or berms (which may include sand bags, hay bales and curbing, among others) or three sided storage bays. Where possible the open side of storage bays shall be situated on the upslope. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading.

2. Sand, top soil, road millings and processed aggregate may only be stored outside and uncovered if in compliance with item 1 above and a 50-foot setback is maintained from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels.

3. Road millings must be managed in conformance with the "Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance" (see www.nj.gov/dep/dshw/rrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.

4. The stockpiling of materials and construction of storage bays on certain land (including but not limited to coastal areas, wetlands and floodplains) may be subject to regulation by the Division of Land Use Regulation (see www.nj.gov/dep/landuse/ for more information).

Street Sweepings, Catch Basin Clean Out, and Other Material Storage

1. For the purposes of this permit, this BMP is intended for road cleanup materials as well as other similar materials. Road cleanup materials may include but are not limited to street sweepings, storm sewer clean out materials, stormwater basin clean out materials and other similar materials that may be collected during road cleanup operations. These BMPs do not cover materials such as liquids, wastes which are removed from municipal sanitary sewer systems or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G-1.1 et seq.

2. Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1 et seq. See the "Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials" (www.nj.gov/dep/dshw/rrtp/sweeping.htm).

3. Road cleanup materials placed into storage must be, at a minimum:

   a. Stored in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter; and

   b. Removed for disposal (in accordance with 2, above) within six (6) months of placement into storage.

Yard Trimmings and Wood Waste Management Sites

1. These practices are applicable to any yard trimmings or wood waste management site:
   a. Owned and operated by the Tier A Municipality;
      i. For staging, storing, composting or otherwise managing yard trimmings, or
      ii. For staging, storing or otherwise managing wood waste, and
   b. Operated in compliance with the Recycling Rules found at N.J.A.C. 7:26A.

2. Yard trimmings or wood waste management sites must be operated in a manner that:
   a. Diverts stormwater away from yard trimmings and wood waste management operations; and
   b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater.

3. Yard trimmings and wood waste management site specific practices:
   a. Construct windrows, staging and storage piles:
      i. In such a manner that materials contained in the windrows, staging and storage piles (processed and unprocessed) do not enter waterways of the State;
      ii. On ground which is not susceptible to seasonal flooding;
      iii. In such a manner that prevents stormwater run-on and leachate run-off (e.g. use of covered areas, diversion swales, ditches or other designs to divert stormwater from contacting yard trimmings and wood waste).
   b. Maintain perimeter controls such as curbs, berms, hay bales, silt fences, jersey barriers or setbacks, to eliminate the discharge of stormwater runoff carrying leachate or litter from the site to storm sewer inlets or to surface waters of the State.
   c. Prevent on-site storm drain inlets from siltation using controls such as hay bales, silt fences, or filter fabric inlet protection.
   d. Dry weather run-off that reaches a municipal stormwater sewer system is an illicit discharge. Possible sources of dry weather run-off include wetting of piles by the site operator; uncontrolled pile leachate or uncontrolled leachate from other materials stored at the site.
   e. Remove trash from yard trimmings and wood waste upon receipt.
   f. Monitor site for trash on a routine basis.
   g. Store trash in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter;
   h. Dispose of collected trash at a permitted solid waste facility.
   i. Employ preventative tracking measures, such as gravel, quarry blend, or rumble strips at exits.

Roadside Vegetation Management

1. Tier A Municipalities shall restrict the application of herbicides along roadsides in order to prevent it from being washed by stormwater into the waters of the State and to prevent erosion caused by de-vegetation, as follows: Tier A Municipalities shall not apply herbicides on or adjacent to storm drain inlets, on steeply sloping ground, along curb lines, and along unobstructed shoulders. Tier A Municipalities shall only apply herbicides within a 2 foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow.

ENGINEERS CERTIFICATION OF ANNUAL INSPECTION OF EQUIPMENT AND VEHICLE WASH WASTEWATER CONTAINMENT STRUCTURE

(Complete a separate form for each vehicle wash wastewater containment structure)

Permittee: _____ NJPDES Permit No: _____

Containment Structure Location: _____

The annual inspection of the above referenced vehicle wash wastewater containment structure was conducted on _____ (date). The containment structure and appurtenances have been inspected for:

1. The integrity of the structure including walls, floors, joints, seams, pumps and pipe connections
2. Leakage from the structure's piping, vacuum hose connections, etc.
2 Bursting potential of tank.
3. Transfer equipment
4. Venting
5. Overflow, spill control and maintenance.
6. Corrosion, splits, and perforations to tank, piping and vacuum hoses

The tank and appurtenances have been inspected for all of the above and have been determined to be:

Acceptable _____

Unacceptable _____

Conditionally Acceptable _____

List necessary repairs and other conditions: _____

_____

_____

_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted 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 (N.J.A.C. 7:14A-2.4(d)).

Name (print): _____ Seal:

Signature: _____

Date: _____

Underground Vehicle Wash Water Storage Tank Use Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Volume _____ gallons

95% Volume _____ gallons

Tank Location _____

Tank Height _____ inches

95% Volume _____ inches

Date and Time	Inspector	Height of Product Before Introducing Liquid (inches)	Is Tank Less Than 95% Full? (Y/N)	Visual Inspection Pass? (Y/N)	Comments

Notes: The volume of liquid in the tank should be measured **before** each use.

Liquid **should not be introduced** if the tank contains liquid at 95% of the capacity or greater.

A visual inspection of all exposed portions of the collection system should be performed before each use. Use the comments column to document the inspection and any repairs.

Underground Vehicle Wash Water Storage Tank Pump Out Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____ Tank Location _____

Tank Volume _____ gallons

Date and Time of Pump Out	Volume of Liquid Removed	Waste Hauler *	Destination of the Liquid Disposal *

*** The Permittee must maintain copies of all hauling and disposal records and make them available for inspection.**

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code - 401-02B
Water Pollution Management Element
Bureau of Nonpoint Pollution Control
P.O. Box 420 – 401 E. State St.
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Fax: (609) 777-0432
http://www.state.nj.us/dep/dwq/bnpc_home.htm

BOB MARTIN
Commissioner

December 8, 2017

SENT VIA EMAIL to: larry.plevier@mottmac.com

Larry Plevier
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Re: Stormwater Discharge General Permit Authorization Renewal
Category: R9 -Tier A Municipal Stormwater General Permit
NJPDES: NJG0153281 / PI ID #: 203290
MANTOLOKING BORO
Mantoloking Boro, Ocean County

Dear Stormwater Program Coordinator:

Enclosed is New Jersey Pollutant Discharge Elimination System (NJPDES) Authorization to Discharge No. NJG0153281 (Category R9 -Tier A Municipal Stormwater General Permit) issued under the authority of Stormwater NJPDES Master General Permit No. NJ0141852 (Tier A Permit).

The permit and associated documents are posted at http://www.nj.gov/dep/dwq/tier_a.htm, where you can find a copy of the Tier A Permit, and a Response to Comments document, which includes a summary of the significant and relevant comments received during the Tier A Permit public comment period, the Department's responses, and an explanation of any changes from the draft action. In addition, you can also find a crosswalk which provides a detailed comparison of changes from 2009 to this 2017 permit, and a Frequently Asked Questions document. These documents will be useful in understanding your renewed Authorization.

If you have any questions or comments regarding the above referenced action, please contact Anthony Washington by telephone at 609-633-7021.

Sincerely,

James J. Murphy, Chief
Bureau of Nonpoint Pollution Control

C: Water Compliance and Enforcement Regional Office

New Jersey Department of Environmental Protection
Mail Code - 401-02B
Bureau of Nonpoint Pollution Control
Water Pollution Management Element
PO Box 420
Trenton, NJ 08625-0420
Phone: (609) 633-7021
Fax: (609) 777-0432

AUTHORIZATION TO DISCHARGE
R9 -Tier A Municipal Stormwater General Permit

Facility Name: MANTOLOKING BORO

Permit Number: NJG0153281

Program Interest No.: 203290

Facility Address:
202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Operating Entity:
MANTOLOKING BORO
PO BOX 247 - 202 DOWNER AVE
MANTOLOKING, NJ 08738-0247

Issuance Date:	**Effective Date:**	**Expiration Date:**
12/08/2017	01/01/2018	12/31/2022

Your Request for Authorization under NJPDES General Permit No. NJ0141852 has been approved by the New Jersey Department of Environmental Protection.

James J. Murphy, Chief
Bureau of Nonpoint Pollution Control

Date: 12/08/2017

(Terms, conditions and provisions attached hereto)

Division of Water Quality

PART I
GENERAL REQUIREMENTS:
NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.

b. General Conditions

Penalties for Violations	N.J.A.C. 7:14-8.1 et seq.
Incorporation by Reference	N.J.A.C. 7:14A-2.3
Toxic Pollutants	N.J.A.C. 7:14A-6.2(a)4i
Duty to Comply	N.J.A.C. 7:14A-6.2(a)1 & 4
Duty to Mitigate	N.J.A.C. 7:14A-6.2(a)5 & 11
Inspection and Entry	N.J.A.C. 7:14A-2.11(e)
Enforcement Action	N.J.A.C. 7:14A-2.9
Duty to Reapply	N.J.A.C. 7:14A-4.2(e)3
Signatory Requirements for Applications and Reports	N.J.A.C. 7:14A-4.9
Effect of Permit/Other Laws	N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
Severability	N.J.A.C. 7:14A-2.2
Administrative Continuation of Permits	N.J.A.C. 7:14A-2.8
Permit Actions	N.J.A.C. 7:14A-2.7(c)
Reopener Clause	N.J.A.C. 7:14A-6.2(a)10
Permit Duration and Renewal	N.J.A.C. 7:14A-2.7(a) & (b)
Consolidation of Permit Process	N.J.A.C. 7:14A-15.5
Confidentiality	N.J.A.C. 7:14A-18.2 & 2.11(g)
Fee Schedule	N.J.A.C. 7:14A-3.1
Treatment Works Approval	N.J.A.C. 7:14A-22 & 23

c. Operation And Maintenance

Need to Halt or Reduce not a Defense	N.J.A.C. 7:14A-2.9(b)
Proper Operation and Maintenance	N.J.A.C. 7:14A-6.12

d. Monitoring And Records

Monitoring	N.J.A.C. 7:14A-6.5
Recordkeeping	N.J.A.C. 7:14A-6.6
Signatory Requirements for Monitoring Reports	N.J.A.C. 7:14A-6.9

e. Reporting Requirements

Planned Changes	N.J.A.C. 7:14A-6.7
Reporting of Monitoring Results	N.J.A.C. 7:14A-6.8
Noncompliance Reporting	N.J.A.C. 7:14A-6.10 & 6.8(h)
Hotline/Two Hour & Twenty-four Hour Reporting	N.J.A.C. 7:14A-6.10(c) & (d)
Written Reporting	N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)
Duty to Provide Information	N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
Schedules of Compliance	N.J.A.C. 7:14A-6.4
Transfer	N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

a. The Stormwater Management rules at N.J.A.C. 7:8.

b. Conditions for General Permits at N.J.A.C. 7:14A-6.13, including the Department's authority to require, for due cause, a Tier A Municipality to apply for and obtain a different stormwater permit for specific activities otherwise authorized under this permit.

c. Additional Conditions applicable to UIC permits at N.J.A.C. 7:14A-8.9, UIC Corrective Action (N.J.A.C. 7:14A-8.11) and UIC Operating Criteria (N.J.A.C. 7:14A-8.16).

d. Conditions for reopening and modification of small MS4 permits at N.J.A.C. 7:14A-16.4(b) and N.J.A.C. 7:14A-25.7(b).

e. Requirements for Discharges to Ground Water at N.J.A.C. 7:14A-7.

f. National Pollutant Discharge Elimination System (NPDES) Electronic Reporting rule at 40 CFR Part 127.

B. General Conditions

1. Notification of Non-Compliance

a. The Tier A Municipality shall notify the Department of any non-compliance when required by N.J.A.C. 7:14A-6.10 by contacting the DEP Hotline at 1-877-WARN-DEP.

2. Discharge of Pollutants

a. For discharges authorized by this permit, the Tier A Municipality is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in this NJPDES permit or listed and quantified in the RFA shall not constitute a violation of the permit.

3. Standard Reporting Requirements – Electronic Reporting of NJPDES Information

a. Unless already required by this permit to be submitted electronically by an earlier date, effective December 21, 2020, the below identified documents and reports shall be electronically submitted via the Department's designated electronic submission service:

i. General permit authorization requests (i.e. RFAs);

ii. General permit termination/revocation requests; and

iii. Municipal separate storm sewer system (MS4) program reports (see Part IV.G).

4. Other Regulatory Requirements

a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.

b. The issuance of this permit shall not be considered as a waiver of any applicable federal, State or local rules, regulations and ordinances.

c. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to, N.J.A.C. 7:50 (the Pinelands rules), N.J.A.C. 7:1-E (Discharges of Petroleum and other Hazardous Substances), regulations concerning threatened and endangered species and their designated critical habitat, and other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be "pursuant to and in compliance with this permit" within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.

d. While the Tier A Municipality is required to comply with applicable operation and maintenance requirements of N.J.A.C. 7:14A-6.12(a), the Tier A Municipality is exempt from the operations and maintenance manual requirements of N.J.A.C. 7:14A-6.12(c). This exemption applies only to discharges authorized under this permit and does not alter the operation and maintenance requirements for municipally or privately owned stormwater facilities specified in this permit or N.J.A.C. 7:8.

C. Eligibility

1. Permit Scope

a. The Tier A MS4 NJPDES Permit applies to all areas of New Jersey as follows:

i. This permit applies to all municipalities assigned to Tier A under N.J.A.C. 7:14A-25.3(a)1. Tier A Municipalities are generally located within the more densely populated regions of the state or along or near the Atlantic coast.

ii. On a case-by-case basis, the Department may use this permit to regulate municipalities assigned to Tier B under N.J.A.C. 7:14A-25.3(a). As used in this permit, the term "Tier A Municipality" includes Tier B Municipalities that seek or obtain authorization under this provision of this permit.

b. This permit applies to the owner or operator of the Municipal Separate Storm Sewer System (MS4) meaning the Tier A Municipality. The owner or operator is responsible for ensuring compliance with this permit.

c. The short title of this permit is the "Tier A MS4 NJPDES permit."

2. Authorized Discharges Under the Tier A MS4 NJPDES Permit

a. Eligible Stormwater Discharges – Except as provided in Part II.C.3 below, this permit authorizes all new and existing stormwater discharges to surface water and groundwater from:

i. Small MS4s (as defined at N.J.A.C. 7:14A-I.2) owned or operated by Tier A Municipalities; and

ii. Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities.

b. Eligible Non-Stormwater Discharges – Except as identified in Part II.C.3.e below, the following new and existing non-stormwater discharges from small MS4s owned or operated by Tier A Municipalities and from Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities are eligible for authorization under this permit:

i. Potable water line flushing and discharges from potable water sources, excluding the discharge of filter backwash and first flush water from potable well development/redevelopment activities utilizing chemicals in accordance with N.J.A.C. 7:9D. The volume of first flush water, which is a minimum of three times the volume of the well water column, shall be handled and disposed of properly;

ii. Uncontaminated ground water (e.g. infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters);

iii. Air conditioning condensate (excluding contact and non-contact cooling water; and industrial refrigerant condensate);

iv. Irrigation water (including landscape and lawn watering runoff);

v. Flows from springs, riparian habitats, wetlands, water reservoir discharges and diverted stream flows;

vi. Residential car washing water; and dechlorinated swimming pool discharges from single family residential homes;

vii. Sidewalk, driveway and street wash water;

viii. Flows from firefighting activities including the washing of fire fighting vehicles;

ix. Flows from clean water rinsing of beach maintenance equipment immediately following use and only if the equipment is used for its intended purpose;

x. Flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing materials. Prior to rinsing, all equipment shall be cleaned using dry methods such as shoveling and sweeping. Recovered materials are to be returned to storage or properly discarded; and

xi. Rinsing of equipment in Part II.C.2.b.ix and x, above is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

3. Discharges Not Authorized Under the Tier A MS4 NJPDES Permit

a. Stormwater Discharges Associated with Industrial Activity

i. The Tier A MS4 NJPDES Permit does not authorize "stormwater discharge associated with industrial activity" as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit.

ii. Types of facilities that a Tier A Municipality might operate and that are considered to be engaging in "industrial activity" include but are not limited to certain: 1) landfills; 2) transportation facilities (including certain local passenger transit and air transportation facilities); 3) facilities handling domestic sewage or sewage sludge; and 4) steam electric power generating facilities.

iii. Any municipality that operates an industrial facility with such a discharge must submit a separate Request for Authorization (RFA) or individual permit application for that discharge (see www.nj.gov/dep/dwq/forms_storm.htm). An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge.

iv. Yard Trimmings and Wood Waste Management Sites that are not owned and operated by the Tier A Municipality.

b. Stormwater Discharges Associated with Construction Activity

i. The Tier A MS4 NJPDES Permit does not authorize "stormwater discharges associated with construction activity" as described in N.J.A.C. 7:14A-24.10(a). In general, this is the discharge to surface water of stormwater from construction activity that disturbs at least one acre.

ii. Any municipality that operates a construction site with such a discharge shall submit a separate RFA under NJPDES Permit No. NJ0088323 (General Stormwater Permit Construction Activity, see www.nj.gov/dep/dwq/5g3.htm), or an application for an individual permit for that discharge. An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge. See Part IV.B.3 of the Tier A MS4 NJPDES Permit.

c. Stormwater Discharges Authorized under Another NJPDES Permit

i. The Tier A MS4 NJPDES Permit does not authorize any stormwater discharge that is authorized under another NJPDES permit.

ii. A Tier A Municipality does not have to implement measures contained in this NJPDES permit for stormwater discharges at facilities owned or operated by that municipality that are regulated under a separate NJPDES stormwater permit authorizing those discharges.

d. Stormwater Discharges that Conflict with a Water Quality Management Plan

i. The Tier A MS4 NJPDES Permit does not authorize stormwater discharges from projects or activities that conflict with an adopted Areawide or Statewide Water Quality Management Plan.

e. Non-Stormwater Discharges that are Contributors of Pollutants

i. If any of the discharges listed in Part II.C.2.b above are identified by the Tier A Municipality as a significant contributor of pollutants to or from the MS4, the Tier A Municipality must address the discharge as an illicit connection or as an improper disposal of waste as specified in Part IV.B.6 of this permit.

D. Administrative Process

1. Automatic Renewal of Authorizations

a. Upon reissuance of this general permit, existing authorizations shall be automatically renewed as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 using the information provided in the permittees' most recently submitted RFA.

2. Notification of Changes

a. A Tier A Municipality shall provide a corrected RFA to the Department within 90 days of the effective date of a renewed authorization under this general permit if any information in its most recently submitted RFA is no longer true, accurate, and/or complete.

b. The Tier A Municipality shall notify the Department of any changes of its Municipal Stormwater Program Coordinator information using www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf

c. A Tier A Municipality that already has authorization to discharge from a small MS4 under the Tier A permit does not need to submit an RFA for the expansion (e.g. new residential development) of an existing small MS4.

3. Requests for Authorization (RFA, see www.nj.gov/dep/dwq/forms_storm.htm)

a. New RFAs under the Tier A MS4 permit

i. A single RFA is required for the entire eligible discharge from the small MS4 owned or operated by and located within a single municipality. Multiple RFAs are not required for multiple municipal operations (e.g., municipally owned and operated maintenance yards or other ancillary operations, facilities, garages, and/or offices).

ii. An RFA shall include at a minimum: the name and address of the municipality; the name and address of the Municipal Stormwater Program Coordinator; a certification acknowledging the best management practices and measurable goals specified in the permit; and any other information as required by the Department.

b. Upon receipt of an RFA the Department may, in accordance with N.J.A.C. 7:14A-6.13, do one of the following:

i. Issue notification of authorization under this permit;

ii. Deny authorization under this permit and require submittal of an application for an individual permit; or

iii. Deny authorization under this permit and require submittal of an RFA for another general permit.

c. Reassignment of Municipality to Tier A

i. If a municipality receives notice from the Department (pursuant to N.J.A.C. 7:14A-25.3(a)(3)) that it has been reassigned from Tier B to Tier A (pursuant to N.J.A.C. 7:14A-25.3(a)(1) and (2)), the deadline to submit an RFA is 180 days after the receipt of that notice, unless the Department approves a later date.

PART III
Recordkeeping and Reporting

The Tier A Municipality shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records and to submit an Annual Report and Certification is found at Part IV.G of this permit.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

1. Acronyms

a. Stormwater acronyms included in this permit are as follows:

i. "BMP" - Best Management Practice

ii. "CFR" - Code of Federal Regulations

iii. "EDPA" - Effective Date of Permit Authorization

iv. "MS4" - Municipal Separate Storm Sewer System

v. "MSWMP" - Municipal Stormwater Management Plan

vi. "MSRP" - Municipal Stormwater Regulation Program

vii. "MTD" - Manufactured Treatment Device

viii. "N.J.A.C." - New Jersey Administrative Code

ix. "NJPDES" - New Jersey Pollutant Discharge Elimination System

x. "N.J.S.A." - New Jersey Statutes Annotated

xi. "RSIS" - Residential Site Improvement Standards

xii. "SPPP" - Stormwater Pollution Prevention Plan

xiii. "TMDL" - Total Maximum Daily Load

2. Internal Cross References

a. For the purposes of this permit:

i. References to Part IV Notes and Definitions are preceded with the words "Notes and Definitions" (e.g. Notes and Definitions Part IV.A.1 refers to Acronyms).

ii. References to Part IV Tier A MS4 NJPDES Permit are not preceded by descriptive text (e.g. Part IV.A.1 refers to Overview of the Tier A MS4 NJPDES Permit).

3. Department Resources for Guidance Relating to MS4 Issues

a. MS4 main website and related links: www.nj.gov/dep/dwq/msrp_home.htm

b. MS4 Tier A Guidance document: www. nj.gov/dep/dwq/tier_a_guidance.htm

Notes and Definitions

c. Construction Site Stormwater Runoff: www.nj.gov/dep/dwq/5g3.htm

d. Snow Removal and Disposal Policy: www.nj.gov/dep/dwq/bnpc_home.htm

e. Green Infrastructure and related links: www.nj.gov/dep/gi/

f. Stormwater management information and training tools: www.nj.gov/dep/stormwater/

g. Public education for stormwater pollution: www.cleanwaternj.org

h. Clean Communities, a statewide litter abatement program: www.njclean.org

i. Total Maximum Daily Load (TMDL) information: www.nj.gov/dep/dwq/msrp-tmdl-rh.htm

4. EPA Resources for Guidance Relating to MS4 Issues

a. EPA's MS4 website and related links: www.epa.gov/npdes/stormwater-discharges-municipal-sources

b. EPA's National Menu of Stormwater Best Management Practices: www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater

c. EPA's guidance for Green Infrastructure: http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm

d. Guidance from EPA Region 3 for municipalities that wish to improve their municipal stormwater programs: www.epa.gov/npdes/pubs/region3_factsheet_swmp.pdf

e. EPA's Trash Free Waters resource page: www.epa.gov/trash-free-waters

f. Illicit Discharge Detection and Elimination Guidance www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf

B. Definitions

1. Definitions

a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.

b. "Catch Basin" means a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants.

c. "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under this Tier A MS4 NJPDES permit becomes effective. This date may be found on the permittee's Authorization to Discharge.

d. "Existing permittee" means a municipality that held an authorization to discharge under the Tier A MS4 NJPDES permit on or before December 31, 2017.

e. "Green infrastructure" means methods of stormwater management that reduce wet weather/stormwater volume, flow, or changes the characteristics of the flow into combined or separate sanitary or storm sewers, or surface waters, by allowing the stormwater to infiltrate, to be treated by vegetation or by soils, or to be stored for reuse. Green infrastructure includes, but is not limited to, pervious paving, bioretention basins, vegetated swales, and cisterns.

f. "Illicit connection" means any physical or non-physical (i.e. leak, flow, or overflow into the municipal separate storm sewer system) connection that discharges the following to a municipal separate storm sewer system (unless that discharge is authorized under a NJPDES permit other than this Tier A MS4 NJPDES permit);

   i. Domestic sewage;

   ii. Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater); or

   iii. Any category of non-stormwater discharges that a permittee for the MS4 identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).

g. "Maintenance plan" means a maintenance plan pursuant to N.J.A.C. 7:8-5.2(b) and 5.8 prepared by the design engineer for the stormwater management measures incorporated into the design of a major development.

h. "Major development" means any development that provides for ultimately disturbing one or more acres of land and any additional development defined as "major development" by a municipality's stormwater control ordinance. Disturbance is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1et seq., are also considered "major development."

i. "Manufactured treatment device" means a pre-fabricated stormwater treatment structure utilizing settling, filtration, absorptive/adsorptive materials, vortex separation, vegetative components, and/or other appropriate technology to remove pollutants from stormwater runoff.

j. "Municipal separate storm sewer" means a municipal separate storm sewer as defined in N.J.A.C. 7:14A-1.2.

k. "Municipality" means a municipality as defined in the Municipal Land Use Law at N.J.S.A. 40:55D-5, that is, any city, borough, town, township, or village.

l. "New permittee" means a municipality that obtains its first authorization to discharge under the Tier A MS4 NJPDES permit on or after January 1, 2018.

m. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (a door is recommended, but not required). A fabric frame structure is a permanent structure if it meets the following specifications:

   i. Concrete blocks, jersey barriers or other similar material shall be placed around the interior of the structure to protect the side walls during loading and unloading of de-icing materials;

   ii. The design shall prevent stormwater run-on and run through and the fabric cannot leak;

   iii. The structure shall be erected on an impermeable slab;

   iv. The structure cannot be open sided; and

   v. The structure shall have a roll up door or other means of sealing the access way from wind driven rainfall.

n. "Small MS4" means all municipal separate storm sewers (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:

   i. Owned or operated by municipalities described under N.J.A.C. 7:14A-25.1(b);

   ii. Owned or operated by county, State, interstate, or Federal agencies, and located at public complexes as described under N.J.A.C. 7:14A-25.2(a)2;

   iii. Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or

   iv. Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.

   v. Note that all MS4s covered under the Tier A MS4 NJPDES permit are "small MS4s".

o. "Solids and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids as defined at N.J.A.C. 7:14A-25.6(b)3iii.

p. "Storm drain inlet" means the point of entry into the storm drain system and is, where a catch basin is present, the uppermost portion (or cover) of a catch basin.

q. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface; is transmitted to the subsurface; is captured by separate storm sewers or other sewerage or drainage facilities; or is conveyed by snow removal equipment.

r. "Stormwater facility" includes, but is not limited to: catch basins, detention basins, retention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances. Stormwater facilities include structural stormwater management measures.

s. "Stormwater management basin" means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management basin may either be normally dry (that is, a detention basin or infiltration basin), retain water in a permanent pool (a retention basin or wet pond), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

t. "Stormwater management measure" means any structural or nonstructural strategy, practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances. Stormwater management measures include stormwater facilities.

u. "Stream scouring" means the erosion or removal of streambed or bank material by the physical action of flowing water and the sediment that it carries.

v. "Subsurface infiltration/detention system" means a vault, perforated pipe, and/or stone bed that is located entirely below the ground surface and that temporarily stores and attenuates stormwater runoff."

w. "Tier A Municipality's MS4" means an MS4 owned and operated by a Tier A Municipality.

x. "Wood waste" means source separated whole trees, tree trunks, tree parts, tree stumps, brush and leaves provided that they are not composted, and lumber (non-chemically treated and unpainted);

y. "Yard trimmings" means grass clippings, leaves, wood chips from tree parts, and brush.

z. "Yard waste" means loose leaves and grass clippings.

Tier A Municipal Stormwater General Permit

A. Permit Overview

1. Overview of the Tier A MS4 NJPDES Permit

a. The Tier A Municipality (i.e. the permittee) is required to develop, update, implement and enforce an MS4 stormwater program. A primary objective of the MS4 stormwater program is to implement best management practices and other measures that are designed to achieve the permit's requirement to reduce the discharge of pollutants from the Tier A Municipality's MS4, municipal maintenance yards and other ancillary operations, to the maximum extent practicable pursuant to N.J.A.C. 7:14A-25.6(a)1 and 40 CFR 122.34(a), to protect water quality, and to satisfy the applicable water quality requirements of the Clean Water Act.

2. Primary Plans Required by the Tier A MS4 NJPDES Permit

a. The Stormwater Pollution Prevention Plan (SPPP) documents the Tier A Municipality's stormwater program and describes the measures necessary for compliance with the Statewide Basic Requirements as well as any Other Control Measures, Additional Measures and/or Optional Measures (if deemed appropriate). See Part IV.F (SPPP) and Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-1 (Measurable Goals and Implementation Schedule for New Permittees).

b. A significant component of the SPPP is the Municipal Stormwater Management Plan (MSWMP). The MSWMP is also a component of the municipal master plan (N.J.S.A. 40:55D-94). The MSWMP describes the municipality's strategy, structure and process for addressing stormwater runoff from new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8 et seq.). This strategy, structure and process also constitutes much of the post construction stormwater management program in this permit. See Part IV.B.4 (Post Construction). Any MSWMP that complies with N.J.A.C. 7:8 also complies with this condition and Part IV.B.4.f (MSWMP).

3. Summary of Tier A MS4 NJPDES Permit Requirements

a. The Tier A Municipality shall develop, update, implement and enforce a stormwater program as documented in an SPPP to ensure compliance with:

i. The Statewide Basic Requirements. See Part IV.B;

ii. Other Control Measures. See Part IV.C;

iii. Additional Measures. See Part IV.D; and

iv. Optional Measures, if deemed appropriate See Part IV.E.

b. The Tier A Municipality shall develop, update, implement and maintain a written SPPP in conformance with Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-I (Measurable Goals and Implementation Schedule for New Permittees). See Part IV.A.2.a and IV.F (SPPP).

c. The Tier A Municipality shall submit an Annual Report and Certification summarizing the status of compliance with this permit. See Part IV.G (Annual Report and Certification).

d. The Tier A Municipality shall adopt, amend and implement a written MSWMP. See Part IV.A.2.b and B.4.f (MSWMP).

e. The Tier A Municipality shall modify and update its stormwater program (including applicable plans and ordinances) to conform with applicable new legislation; or new or amended regulations. Such modification shall be completed and effective within 12 months of written notification by the Department of the need for modification.

B. Statewide Basic Requirements and Associated Conditions

1. Minimum Standards for Public Involvement and Participation Including Public Notice

a. Tier A Municipalities shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program. Requirements include but are not limited to:

i. The Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.);

ii. Statutory procedures for the enactment of ordinances (N.J.S.A. 40:49-2), including the municipal stormwater control ordinance and other ordinances adopted to comply with Part IV of this permit; and

iii. The Municipal Land Use Law concerning the adoption or amendment of the MSWMP (N.J.S.A. 40:55D-13, 28 and 94), and the review of applications for development (N.J.S.A. 40:55D-12). The Tier A Municipality shall also ensure that applicants for development meet the notice requirements of N.J.S.A. 40:55D-12.

b. Tier A Municipalities shall make elements of its MS4 stormwater program available to the public:

i. Provide the current SPPP upon request as required by Part IV.F.1.g (SPPP);

ii. Post the current SPPP on its website to the extent required by Part IV.F.1.f (SPPP); and

iii. Post the current MSWMP and all ordinances required by this permit on its website or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e). See Part IV.B.4.f (MSWMP), 4.g (Stormwater Control Ordinance), 5.a (Community Wide Ordinances).

c. The Tier A Municipality may involve another entity (e.g. a watershed association) to satisfy one or more of the Tier A Municipality's NJPDES permit condition(s) (or component thereof) through the implementation of one or more best management practices or control measures. See Part IV.F.4 (Implementation of SPPP Conditions through Shared or Contracted Services).

d. The Tier A Municipality shall maintain records necessary to demonstrate compliance with the public participation requirements of a, above.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Local Public Education and Outreach

a. The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater and mitigating flow. The Tier A Municipality shall annually conduct activities that total at least 12 points and include activities from at least three of the five categories as set forth in Attachment B (Points System for Public Education and Outreach Activities). At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

b. The Tier A Municipality shall label all storm drain inlets for those drains that do not have permanent wording cast into the structure of the inlet. The Tier A Municipality shall also maintain the legibility of those labels and replace any labels that are missing or not legible. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. This requirement shall include the following:

   i. All storm drain inlets along sidewalks that are adjacent to municipal streets;

   ii. All storm drain inlets within plazas, parking areas or maintenance yards that are operated by the municipality.

c. The Tier A Municipality shall advertise public involvement program(s) pertaining to education and outreach activities on the municipality's website, through a mailing, through newspaper advertisement, or other similar means.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

3. Minimum Standards for Construction Site Stormwater Runoff

a. Construction site stormwater runoff activities are authorized under a separate NJPDES permit, generally the Construction Activity Stormwater General Permit No. NJ0088323 pursuant to N.J.A.C. 7:14A-25.6(b)2 (or an individual permit pursuant to N.J.A.C. 7:14A-24.7(a)2). See Part II.C.3.b and www.nj.gov/dep/dwq/5g3.htm. Pursuant to N.J.A.C. 7:14A-25.7(b), the Tier A Municipality is not required to reference construction site stormwater runoff control in its SPPP.

4. Minimum Standards for Post Construction Stormwater Management in New Development and Redevelopment

a. The Tier A Municipality shall develop, update, implement and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8 et seq. In general, the regulations at N.J.A.C. 7:8:

   i. Contain requirements for stormwater management plans and stormwater control ordinances;

   ii. Provide information for the adoption and implementation of municipal stormwater management plans and regional stormwater management plans; and

   iii. Establish design, performance and maintenance standards for stormwater management measures and establish safety standards for stormwater management basins.

b. The post construction stormwater management program established by the Tier A Municipality shall address stormwater runoff from the following types of major development unless any additional development is defined as "major development" by a municipality's stormwater control ordinance:

   i. New development and redevelopment projects that disturb one acre or more and are not operated by the municipality (e.g. retail stores, residential complexes);

   ii. New development and redevelopment projects that disturb one acre or more and are operated by the municipality itself (e.g. town complex); and

   iii. All new development and redevelopment projects that disturb less than one acre and are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more.

c. The post construction stormwater management program established by the Tier A Municipality shall require compliance with the applicable design, performance and maintenance standards established under N.J.A.C. 7:8 et seq. for major development as defined in this permit.

d. The Tier A Municipality shall review and analyze development applications for compliance with Part IV.B.4 (Post Construction) of this permit even if a separate permit is required by the Department for the same or similar activity (e.g. a Land Use permit).

e. The post construction stormwater management program established by the Tier A Municipality shall ensure that any residential development and redevelopment projects that are subject to the Residential Site Improvement Standards (RSIS) for stormwater management (N.J.A.C. 5:21-7) comply with those standards, including any exception, waiver, or special area standard that was approved under N.J.A.C. 5:21 et seq.

f. The Tier A Municipality shall adopt, amend and implement a written Municipal Stormwater Management Plan (MSWMP), pursuant to N.J.A.C. 7:8 et seq., to describe the framework of the Tier A Municipality's strategy, structure and process for its post construction stormwater management program.

   i. The Tier A Municipality shall submit the adopted plan for approval to the County review agency in accordance with N.J.A.C. 7:8-4;

   ii. The Tier A Municipality shall notify the Department and post the approved plan and any amendments on its website (or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e)) within thirty days of the effective date of the plan. See Part IV.B.1.b.iii (Public Involvement and Participation);

   iii. The Tier A Municipality shall review and update its MSWMP as necessary, and as a part of the reexamination of its municipal master plan in accordance with N.J.A.C. 7:8-4.3(c) and (d).

g. In order to implement the post construction stormwater management program, the Tier A Municipality shall adopt, amend, implement and enforce a municipal stormwater control ordinance. The Tier A Municipality shall develop and adopt the contents of the ordinance in accordance with N.J.A.C. 7:8 et seq. A sample stormwater ordinance consistent with the requirements of the Stormwater Management Rules is posted at www.nj.gov/dep/stormwater/bmp_manual2.htm and a sample stormwater ordinance applicable to Pinelands Area Municipalities is posted at www.nj.gov/dep/stormwater/pinelands.htm. The municipal stormwater control ordinance shall include, at a minimum, the following elements:

i. Control aspects of residential development and redevelopment projects that are not pre-empted by the RSIS;

ii. Control stormwater from non-residential development and redevelopment projects, in accordance with the requirements at N.J.A.C. 7:8 et seq.; and

iii. Set forth special area standards approved by the Site Improvement Advisory Board for residential development or redevelopment projects under N.J.A.C. 5:21-3.5.

h. The Tier A Municipality shall only grant a variance or exemption from the design and performance standards for stormwater management measures if the municipality has a mitigation plan which meets the following requirements:

i. A mitigation plan must be included in an approved MSWMP and stormwater control ordinance(s). The mitigation plan shall identify measures that are necessary to offset the deficit created by granting the variance or exemption, and can be provided through a menu of design and performance standards with corresponding mitigation projects for different drainage areas within the municipality. See Chapter 3 of the NJ Stormwater BMP Manual at www.nj.gov/dep/stormwater/ for guidance; and

ii. The municipality submits, within 30 days after the grant of a variance or exemption, a written report to the county review agency and the Department describing the variance or exemption and the required mitigation. Submit the written report to the Department at:
NJDEP-DWQ-BNPC
Mail Code 401-02B
PO Box 420
Trenton, NJ 08625-0420

i. The Tier A Municipality shall:

i. Enforce, through the stormwater control ordinance(s) or a separate ordinance, compliance with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets not installed by the Tier A Municipality; and

ii. Comply with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets installed by the municipality.

j. The Tier A Municipality shall ensure adequate long-term cleaning, operation and maintenance of stormwater management measures:

i. Pursuant to Part IV.C.1.a (Stormwater Facilities Maintenance), owned or operated by the Tier A Municipality; and

ii. Pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), not owned or operated by the Tier A Municipality.

k. For each structural and non-structural stormwater measure (e.g. stormwater management basin, subsurface infiltration/detention system, manufactured treatment device, green infrastructure), the Tier A Municipality shall:

i. Complete a Major Development Stormwater Summary (as posted on the Department's website at www.nj.gov/dep/dwq/tier_a_forms.htm; courtesy copy provided as Attachment D of this permit) when an application is made to the Tier A Municipality after EDPA;

ii. Update the Major Development Stormwater Summary while stormwater measures are being installed;

iii. Finalize the Major Development Stormwater Summary once certificate of occupancy is issued; and

iv. Maintain a completed Major Development Stormwater Summary and make it available to the Department upon request.

l. The Stormwater Management rules (N.J.A.C. 7:8) and the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7), independently and as implemented in this permit, apply to all areas of the Tier A Municipality.

m. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

5. Minimum Standards for Pollution Prevention / Good Housekeeping for Municipal Operators

a. Community Wide Ordinances: The Tier A Municipality shall adopt and enforce the following community wide ordinances to address improper disposal of waste:

i. Pet Waste Ordinance: Adopt and enforce an ordinance that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any property, public or private, not owned or possessed by that person. Information on the Pet Waste Ordinance and the benefits of proper disposal of pet solid waste shall be distributed with pet licenses. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

ii. Wildlife Feeding Ordinance: Adopt and enforce an ordinance that prohibits the feeding of any wildlife (e.g. Canada Geese) in any public park or on any other property owned or operated by the Tier A Municipality. Exclusions include wildlife confined in zoos, parks, or rehabilitation centers as well the following unconfined animals: (1) wildlife at environmental education centers; (2) feral cats as part of an approved Trap-Neuter-Release program; and (3) other kinds of unconfined animals, if any, that the ordinance specifically lists and excludes for reasons set forth in the ordinance. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iii. Litter Control Ordinance: Adopt and enforce a litter ordinance or enforce the existing State litter statute at N.J.S.A 13:1E-99.3. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iv. Improper Disposal of Waste Ordinance: Adopt and enforce an ordinance prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the MS4 system excluding those discharges as allowable under Part II.C.2.b. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

v. Containerized Yard Waste/Yard Waste Collection Program Ordinances: (1) Adopt and enforce an ordinance that prohibits placing non-containerized yard wastes (defined as leaves and/or grass clippings) into the street; or (2) develop and implement a non-containerized yard waste collection and disposal program that includes adoption and enforcement of an ordinance that prohibits placing non-containerized yard waste at the curb or along the street within 10 feet of any storm drain inlet and at any time other than a set yard waste collection schedule. The frequency of yard waste pickups shall be determined at the discretion of the Tier A Municipality but shall be part of a set yard waste collection schedule which is noticed to all municipal residents and businesses. Any area, which the municipality determines to have no yard waste, will be exempt from the collections. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for sample ordinances.

vi. Private Storm Drain Inlet Retrofitting Ordinance: Adopt and enforce an ordinance requiring the retrofitting of existing storm drain inlets on private property to meet the standard in Attachment C (Design Standard for Storm Drain Inlets). Specifically, this ordinance: 1) shall apply to storm drain inlets, on property not owned or operated by the Tier A Municipality (e.g. condominium associations), that are in direct contact (i.e. contiguous) to repaving; repairing (excluding individual pothole repair); resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); and reconstruction or alteration of facilities; and 2) shall not apply to a residential lot with one single family house. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

vii. Additional ordinance requirements of this permit are found at Part IV.B.4.g (Stormwater Control Ordinance) above and Part IV.B.6.d (Illicit Connection Ordinance) below.

b. Community Wide Measures: The Tier A Municipality shall develop and continue to implement the following community wide pollution prevention/good housekeeping measures to control solids and floatables:

i. Street Sweeping: Tier A Municipalities shall sweep, at a minimum of once per month (weather and street surface conditions permitting), all streets (including roads or highways) that meet all of the following criteria: (1) the street is owned or operated by the municipality; (2) the street is curbed and has storm drains; (3) the street has a posted speed limit of 35 miles per hour or less; (4) the street is not an entrance or exit ramp; and (5) the street is in a predominantly commercial area.

ii. Catch Basin and Storm Drain Inlet Inspection and Cleaning: The Tier A Municipality shall inspect storm drain inlets and any associated catch basins that it owns or operates and remove sediment, trash, or debris when present. Each catch basin and inlet shall be inspected at least once every five years. The Tier A Municipality shall clean any municipally owned or operated storm drain inlet or catch basin as frequently as necessary to eliminate recurring problems and restore proper function.

iii. Tier A Municipality Storm Drain Inlet Retrofit: The Tier A Municipality shall retrofit existing Tier A Municipality owned or operated storm drain inlets that are: (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. Storm drain inlet retrofits shall meet the standard in Attachment C (Design Standards for Storm Drain Inlets).

c. Municipal Maintenance Yards and Other Ancillary Operations: The Tier A Municipality shall implement the best management practices described in Attachment E (Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations) for municipal maintenance yards and other ancillary operations owned or operated by the Tier A Municipality. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites. The Inventory of Material and Machinery, and Inspections and Good Housekeeping practices specified in Attachment E shall be conducted at all municipal maintenance yards and other ancillary operations. Best Management Practices shall be implemented for the following activities, whenever such activities occur:

i. Fueling Operations;

ii. Discharge of Stormwater from Secondary Containment;

iii. Vehicle Maintenance;

iv. On-Site Equipment and Vehicle Washing and Wash Wastewater Containment;

v. Salt and De-icing Material Storage and Handling;

vi. Aggregate Material and Construction Debris Storage;

vii. Street Sweepings, Catch Basin Clean Out, and Other Material Storage;

viii. Yard Trimmings and Wood Waste Management Sites that are owned and operated by the Tier A Municipality; and

ix. Roadside Vegetation Management.

d. Employee Training: The Tier A Municipality shall develop, update and implement an employee training program to address Tier A MS4 NJPDES permit components and SPPP requirements. All municipal employees shall receive training on those stormwater topics applicable to their title and duties within 3 months of commencement of duties. Records including sign in sheet(s), date(s) of training, and training agenda(s) shall be kept in the SPPP. Training shall occur at least once every two years, unless otherwise specified below:

i. Yard Waste Collection Program (if applicable) – Provide training on frequency of yard waste pickups and schedule; and policy for how and when yard waste can be placed curbside. See Part IV.B.5.a.v (Yard Waste Ordinance).

ii. Monthly Sweeping of Certain Streets in Predominantly Commercial Areas - Provide training on sweeping schedules and proper management of materials collected. See Part IV.B.5.b.i (Street Sweeping).

iii. Illicit Connection Elimination and Outfall Pipe Mapping - Provide training on the impacts associated with illicit connections and details of the program including investigation techniques, physical observations, field sampling, and mapping procedures. See Part IV.B.6 (MS4 Outfall Pipe Mapping, and Illicit Discharge) and the National Menu of Stormwater Best Management Practices at www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater.

iv. Outfall Pipe Stream Scouring Detection and Control - Provide training on how to identify outfall pipe stream scouring and contributing factors. See Part IV.B.6.b (Stream Scouring).

v. Maintenance Yard Operations (including Ancillary Operations) - Provide training annually on inventory of materials and machinery, inspections and good housekeeping; fueling operations; discharge of stormwater from secondary containment; vehicle maintenance; on-site equipment and vehicle washing and wash wastewater containment; salt and de-icing material storage and handling; aggregate material and construction debris storage; street sweeping, catch basin clean out, and other material storage; yard trimmings and wood waste management sites. See Part IV.B.5.c (Municipal Maintenance Yards and Other Ancillary Operations).

vi. Waste Disposal Education - Provide training on the impacts associated with improper waste disposal, how to respond to inquiries regarding improper waste disposal, and appropriate enforcement authority.

vii. Municipal Ordinances - Provide training on the following ordinances: Pet Waste Ordinance; Wildlife Feeding Ordinance; Litter Control Ordinance; Improper Disposal of Waste Ordinance; Containerized Yard Waste/Yard Waste Collection Ordinance; and the Private Storm Drain Inlet Ordinance. Training shall include an overview of these ordinance requirements, enforcement policies and the repercussions of non-compliance with these ordinances. See Part IV.B.5.a (Community Wide Ordinances).

viii. Stormwater Facility Maintenance – Provide training annually on maintenance of stormwater facilities, and catch basin and inlet cleaning methods. See Part IV.C.1 (Stormwater Facilities Maintenance), and Part IV.B.5.b.ii (Catch Basin and Storm Drain Inlets).

ix. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment - Provide general training on the permitting requirements for construction activity and Post-Construction Stormwater Management in New Development and Redevelopment. See Part IV.B.3 (Construction Site Runoff) and B.4 (Post Construction).

x. Provide general training annually on the Tier A Municipality's SPPP, applicable recordkeeping requirements, and detailed training on any component applicable to an employee's title and duties. See Part IV.F (SPPP).

xi. Training may also be conducted on stormwater-related topics that serve an educational purpose for employees.

e. Stormwater Management Design Review Training: The Tier A Municipality shall ensure that all design engineers, municipal engineers and other individuals that review the stormwater management design for development and redevelopment projects on behalf of the municipality, complete the Department approved Stormwater Management Design Review Course (see www.nj.gov/dep/stormwater/training.htm) once every five years. This includes those individuals that review any projects that are subject to the Tier A Municipality's municipal stormwater management plan and control ordinance as described in Part IV.B.4 (Post Construction). Individuals that will review stormwater management design and have not completed this course within the past five years must attend the next scheduled course offering. If unable to attend, the Tier A Municipality must notify the Department in writing no later than thirty days after the missed course offering explaining why attendance was not possible and what alternate arrangements are being made. Training completed within five calendar years prior to EDPA qualifies towards this requirement. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

f. Municipal Board and Governing Body Member Related Training: The Tier A Municipality shall ensure that municipal board and governing body members that review and approve applications for development and redevelopment projects, complete the "Asking the Right Questions in Stormwater Review Training Tool" posted at www.nj.gov/dep/stormwater/training.htm. This includes those individuals that review any projects for compliance with Part IV.B.4 (Post Construction) of this permit. Training must be completed by current municipal board and governing body members on or before EDPA + 6 months and by new members within six months of commencing duties. Once per term of service thereafter, municipal board and governing body members must review at least of one of the tools offered under Post-Construction Stormwater Management found at the website above. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

g. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Pollution Prevention / Good Housekeeping for Municipal Operators specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

6. Minimum Standards for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control

a. Outfall Pipe Mapping: Tier A Municipalities shall develop, update and maintain an outfall pipe map showing the location of the end of all MS4 outfall pipes (tidal and non-tidal) owned or operated by the Tier A Municipality which discharge to a surface water body. The outfall pipe map shall:

i. Be current at the end of each calendar year;

ii. Show the location (and name, where known to the municipality) of all surface water bodies receiving discharges from those outfall pipes;

iii. Be included in the SPPP;

iv. Be provided to the Department by Existing Permittees on or before EDPA + 12 months and by New Permittees on or before EDPA + 36 months. New data points subsequently added to the map shall be provided to the Department annually thereafter; and

v. Be submitted electronically by December 21, 2020 via the Department's designated electronic submission service.

b. Stream Scouring: Tier A Municipalities shall develop, update and implement a program to detect, investigate and control any localized stream scouring from stormwater outfall pipes owned or operated by the municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. The Tier A Municipality shall, at a minimum:

i. Inspect each outfall pipe which discharges to a stream for localized stream scouring in the vicinity of the outfall pipe. Each outfall pipe shall be inspected at least once every five years;

ii. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for localized stream scouring in the vicinity of the outfall pipe;

iii. When localized stream scouring is detected, document sources of stormwater that contribute to the outfall pipes identified in i and ii, above. Each identified source shall be investigated; and (1) where identified sources are located on property owned or operated by the Tier A Municipality, corrective action to reduce stormwater rate or volume shall be taken by the municipality when feasible, or (2) where identified sources are within the jurisdiction of but not located on property owned or operated by the Tier A Municipality, the municipality shall ensure proper operation and maintenance of stormwater facilities located thereon pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), below;

iv. Prioritize, schedule and complete remediation of identified localized stream scouring and take action based upon the requirements of Part IV.B.6.b.iii(1) and (2), above. If not completed, a schedule for completion shall be maintained as required in Part IV.C.1.a.iv (Stormwater Facilities Maintenance); and

v. All stream scouring restoration shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1) and the requirements for bank stabilization and channel restoration found at N.J.A.C. 7:13 et seq. All associated maintenance or repairs to stormwater facilities shall be made in accordance N.J.A.C 7:8.

c. Illicit Discharge Detection and Elimination: The Tier A Municipality shall develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program in accordance with this permit. This program shall be documented in the written SPPP, as required in Part IV.F.1.a.iii (SPPP). See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. See also USEPA Guidance at www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf. The Tier A Municipality shall, at a minimum:

i. Conduct visual dry weather inspection of all outfall pipes owned or operated by the municipality at least once every five years to determine if dry weather flow or other evidence of illicit discharge is present. Dry weather flow is flow occurring 72 hours after a rain event.

ii. Investigate the source if evidence of illicit discharge is found;

iii. Eliminate non-stormwater discharges that are traced to their source and found to be illicit connections;

iv. Document investigations and actions taken using the Department's Illicit Connection Inspection Report Form. See www.nj.gov/dep/dwq/tier_a_forms.htm;

v. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for illicit discharges;

vi. Investigate dry weather flows discovered during routine inspection and maintenance of other elements of the MS4; and

vii. Investigate, within three months of receipt, complaints and reports of illicit connections, including those from operating entities of interconnected MS4s.

d. The Tier A Municipality shall adopt and enforce an ordinance that prohibits illicit connections to the municipal separate storm sewer system operated by the Tier A Municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

C. Other Control Measures

1. Minimum Standards for Stormwater Facilities Maintenance

a. The Tier A Municipality shall develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned or operated stormwater facilities.

i. Stormwater facility inspection and maintenance must be performed pursuant to any maintenance plans, or more frequently as needed, to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

iii. The Tier A Municipality shall certify annually that municipally owned or operated stormwater facilities are properly functioning.

iv. If stormwater facilities were found not to be functioning properly and repairs were not made, then necessary preventive and corrective maintenance shall be documented and prioritized, and a schedule for such repairs shall be maintained. The Tier A Municipality shall prioritize this schedule based upon but not limited to: (1) environmental, health and safety concerns; (2) the findings of catch basin and storm drain inlet inspections performed pursuant to Part IV.B.5.b.ii, above; (3) the findings of stream scouring inspections performed pursuant to Part IV.B.6.b, above; and (4) to incorporate the findings pursuant to Part IV.C.2 (TMDL Information), below.

b. The Tier A Municipality shall develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.

i. The Tier A Municipality shall ensure that stormwater facility maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

c. The Tier A Municipality shall maintain copies of all maintenance plans, as defined in Notes and Definitions Part IV.B.1.g of this permit, for stormwater facilities approved by the municipality. The Tier A municipality shall make copies of these maintenance plans available to the Department upon request.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Total Maximum Daily Load (TMDL) Information

a. Incorporation of TMDL Information Into the SPPP

i. The Tier A Municipality shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality. This information may be accessed at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm;

ii. The Tier A Municipality shall use TMDL information identified in i, above to, at a minimum, (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.1.a.iv (Stormwater Facilities Maintenance), above; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see "Total Maximum Daily Load (TMDL) Guidance for Tier A MS4 Permittees" found at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm); and

iii. The Tier A Municipality shall annually update its SPPP to list information identified in i and ii, above; and

iv. The Tier A Municipality shall incorporate any strategies identified in ii(2), above as an Optional Measure. See Part IV.E (Optional Measures) and Part IV.F.1.c (SPPP), below.

b. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

D. Additional Measures

1. Incorporation of Additional Measures

a. Additional Measures are non-numeric (e.g., best management practices) or numeric effluent limitations that are expressly required to be included in a Tier A Municipality's stormwater program by a TMDL; a regional stormwater management plan; other elements of an adopted areawide Water Quality Management Plan; or the adopted Statewide Water Quality Management Plan.

b. The Department will provide written notice of the adoption of any Additional Measure(s) to any affected Tier A Municipality. The Department will list each adopted Additional Measure in a minor modification to the Tier A MS4 NJPDES permit. For any required Additional Measure(s) other than numeric effluent limitations, the required Additional Measure(s) will specify the best management practices that shall be implemented and the measurable goals. The required Additional Measure(s) will also specify the implementation schedule.

E. Optional Measures

1. Incorporation of Optional Measures

a. Optional Measures are BMPs, developed by the Tier A Municipality, that extend beyond the requirements of the Tier A MS4 NJPDES permit and that prevent or reduce pollution to waters of the State.

b. The Tier A Municipality may, at its own discretion, incorporate Optional Measures into its MS4 stormwater program. Such BMPs shall be identified in the SPPP as Optional Measures.

c. Failure to implement an Optional Measure identified in the SPPP shall not be considered a violation of the NJPDES permit.

2. Refuse Container / Dumpster Ordinance

a. Tier A Municipalities have the option of adopting and enforcing an ordinance requiring dumpsters and other refuse containers that are outdoors or exposed to stormwater to be covered at all times. This ordinance serves to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers. This ordinance is not intended for litter receptacles; individual homeowner trash and recycling containers; containers that hold large bulky items (e.g., furniture, bound carpet and padding); permitted temporary demolition containers; and refuse containers at industrial facilities authorized to discharge stormwater under a valid NJPDES permit. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

F. Stormwater Pollution Prevention Plan (SPPP)

1. SPPP Requirements

a. The Tier A Municipality shall develop, update, implement, and maintain a written SPPP (see the Tier A Municipal Guidance document www.nj.gov/dep/dwq/tier_a_guidance.htm) that:

i. Identifies the person designated as the Municipal Stormwater Program Coordinator (Stormwater Coordinator) per Part IV.F.2, below and the members of the SPPP Team.

ii. Documents the municipality's Tier A MS4 Stormwater Program including a description of shared or contracted services as allowed under Part IV.F.4, below.

iii. Describes the measures necessary for compliance with all components of the Tier A MS4 NJPDES permit including all measures described in Part IV.B, C, D and E above.

iv. Reflects the measurable goals, implementation schedules, record keeping and other requirements in Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

b. The Tier A Municipality's Stormwater Coordinator shall sign and date the SPPP per Part IV.F.3, below.

c. The Tier A Municipality shall review the SPPP at least annually and update it as often as necessary to reflect changes related to the municipality's Tier A MS4 Stormwater Program. Any amendments to the SPPP:

i. Shall continue to meet the requirements of this permit;

ii. Shall be signed and dated by the Stormwater Coordinator; and

iii. Shall be retained for a period of at least five years from the date of amendment unless the Department issues a written notice to extend the retention period.

d. The SPPP shall include any records required by this Tier A MS4 NJPDES permit. See Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule) for additional detail.

e. The Department may notify the Tier A Municipality at any time that the SPPP does not meet one or more of the minimum requirements. Within thirty (30) days after receiving such notification unless otherwise specified by the Department, the Tier A Municipality shall amend the SPPP to adequately address all deficiencies, and written certification of such amendments shall be submitted to the Department.

f. The current SPPP shall be posted on the Tier A Municipality's website no later than EDPA + 90 days with updates posted annually thereafter. The version posted on the website can exclude:

i. Inspection logs and other required record keeping; and

ii. The names of SPPP Team members but must include the name of the Stormwater Coordinator.

g. The SPPP shall be made available to the Department and public upon request pursuant to N.J.A.C. 7:14A-25.6(j)2.

2. Designation of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. Each Tier A Municipality shall designate a Stormwater Coordinator.

b. The Stormwater Coordinator shall be either a principal executive officer or a ranking elected official as required at N.J.A.C. 7:14A-4.9(a)3;

c. A principal executive officer or ranking elected official of the Tier A Municipality may assign this responsibility, as allowed at N.J.A.C. 7:14A-4.9(b), to a duly authorized representative who has overall responsibility for the operation of municipal stormwater facilities or municipal environmental matters;

d. If an assignment under b or c, above changes, then a new assignment of responsibility shall be submitted to the Department. This is accomplished through completion of the online MSRP Annual Report (see Part IV.G Annual Report and Certification below) or the Stormwater Program Coordinator Information Update Sheet posted at www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf. This information shall be submitted to the Department within 30 days of such change taking place.

3. Responsibilities of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. The Tier A Municipality shall designate a Municipal Stormwater Program Coordinator (Stormwater Coordinator). The Stormwater Coordinator is responsible for:

i. Coordinating the permittee's implementation of the SPPP and Tier A MS4 NJPDES permit conditions;

ii. Signing and dating the SPPP;

iii. Coordinating the completion and submittal of the Annual Report and Certification; and

iv. Certifying, signing and dating the Annual Report.

4. Implementation of SPPP Conditions through Shared or Contracted Services

a. The Tier A Municipality may rely on another governmental, private, or nonprofit entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions, or component thereof, through the implementation of best management practices or control measures. This is only allowable provided the following conditions are met:

i. The other entity implements the best management practice(s) or control measure(s);

ii. The particular best management practice(s) or control measure(s), or component(s) thereof, is at least as stringent or as frequent as the corresponding NJPDES permit requirement;

iii. The other entity agrees in writing or is required by law to implement the measure(s), or component(s) thereof, in such a manner that is in compliance with the Tier A MS4 NJPDES permit on the Tier A Municipality's behalf; and

iv. The Tier A Municipality specifies in its SPPP (1) which NJPDES permit conditions will be implemented by another entity and (2) the name of the responsible entity.

b. For any projects or activities which the Tier A Municipality assigns to another entity which is a private contractor, the awarded contract shall require the contractor to conduct such projects or activities in such a manner that is in compliance with the Tier A MS4 NJPDES permit.

c. The Tier A Municipality is responsible for compliance with this permit if the other entity fails to implement the measure(s) or component(s), thereof.

G. Annual Report and Certification

1. Reporting Requirements

a. The Tier A Municipality shall complete an Annual Report, including any Supplemental Questions, using the electronic format provided by the Department via the MSRP Annual Report service accessed through the Regulatory Services Portal (www.njdeponline.com). The Annual Report shall summarize the status of compliance with the conditions of this permit. Specifically, this includes compliance for the subject year between January 1 and December 31 with the Statewide Basic Requirements (Part IV.B), Other Control Measures (Part IV.C), Additional Measures (Part IV.D), Optional Measures (Part IV.E), Stormwater Pollution Prevention Plan (Part IV.F), and any other Tier A MS4 NJPDES permit conditions listed on the Annual Report form, including Supplemental Questions.

b. The Stormwater Coordinator shall certify, sign and date the Annual Report.

c. Submit an Annual Report and Certification: on or before May 1st annually to the Department through the Regulatory Services Portal (instructions at www.nj.gov/dep/dwq/tier_a.htm).

d. A copy of each Annual Report and Certification shall be kept at a central location and shall be made available to the Department for inspection.

e. The Tier A Municipality shall retain the Annual Report and Certification as well as any records required to be kept by this permit for a period of at least five years.

f. The Tier A Municipality shall document in the Annual Report (1) if it relies on another entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions as described in Part IV.F.4.a (Implementation of SPPP Conditions through Shared or Contracted Services), above; (2) which NJPDES permit conditions will be satisfied by another entity; and (3) the name of the governmental, private, or nonprofit entity.

Attachment A – Measurable Goals and Implementation Schedule for Existing Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for Existing Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

An indication of whether the cited Minimum Standard is a new requirement is provided in the last column. Where a requirement is not new and not modified (and for some that are modified), the Existing Permittee is expected to be in compliance on the Effective Date of Permit Authorization (EDPA). For most new requirements (and for some modified requirements), additional time is provided for achieving compliance.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be updated as required by Part IV.F.1.c, above.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F.1 above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for Existing Permittees				
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Public Involvement and Participation Including Public Notice				
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA	No
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA	No
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 90 days	Yes
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days	Yes
Local Public Education and Outreach				
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA	Modified
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months	Yes
Post Construction Stormwater Management in New Development and Redevelopment				
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	No
For each structural and non-structural stormwater measure (e.g. basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Yes
Pollution Prevention/Good Housekeeping - Community Wide Ordinances				
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA	No
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Community Wide Measures				
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations				
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA	No
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA	No
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA	No
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA	No
BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA	Modified
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA	No
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 12 months	Yes
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 12 months	Yes
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 12 months	Yes
Pollution Prevention/Good Housekeeping - Training Program				
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months	Modified
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months	Yes
Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule	New Requirement?
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control				
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report that the outfall pipe map is current at the end of the calendar year.	EDPA	No
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA	No
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA +12 months	Yes
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA +12 months	Yes
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020	Yes
Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA	Modified
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Stormwater Facilities Maintenance				
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Modified
Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA	Modified
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA	No
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA	Modified
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 12 months	Modified
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 12 months	Modified
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Yes
Total Maximum Daily Load (TMDL) Info.				
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months	Yes
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months	Yes
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months	Yes

Attachment A-1 – Measurable Goals and Implementation Schedule for New Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for New Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be created by EDP + 12 months and updated on annual basis thereafter as required by Part IV.F.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for New Permittees			
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Public Involvement and Participation Including Public Notice			
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA + 12 months
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 12 months)
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days
Local Public Education and Outreach			
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months
Post Construction Stormwater Management in New Development and Redevelopment			
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA
For each structural and non-structural stormwater measure (basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA

Pollution Prevention/Good Housekeeping - Community Wide Ordinances			
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Community Wide Measures			
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 24 months

Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA + 24 months
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations			
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA + 12 months
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA + 12 months
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA + 12 months
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA + 12 months

BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA + 60 months
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA + 60 months
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 18 months
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 18 months
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 18 months
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 18 months
Pollution Prevention/Good Housekeeping - Training Program			
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months

Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control			
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report following the implementation deadline that the outfall pipe map is current at the end of the calendar year.	EDPA + 36 months
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report following the implementation deadline that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA + 36 months
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA + 36 months
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA + 36 months
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020

Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 60 months
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA + 60 months
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Stormwater Facilities Maintenance			
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 18 months

Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA + 18 months
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA + 18 months
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA + 18 months
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 18 months

Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 18 months
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months
Total Maximum Daily Load (TMDL) Info.			
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months

Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months

Attachment B – Points System for Public Education and Outreach Activities

The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater runoff and mitigating flow.

The Tier A Municipality shall **annually** conduct educational activities that total at least **12 points** and include activities from at least three of the five categories found below. At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Each approved activity is listed below with an assigned point value. Additional information on how to conduct these Public Education and Outreach activities can be found under Notes and Definitions Part IV.A.3 and 4 of this Tier A MS4 NJPDES permit. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

Category 1: General Public Outreach		
Activity	**Description**	**Points**
Website and Social Media	Maintain a stormwater related page on the municipal website or on a municipal social media site. The web page may include links to other stormwater related resources, including the NJDEP stormwater website (www.njstormwater.org).	1
Newspaper Ad	Use Department created and approved stormwater education materials available on www.cleanwaternj.org to publish an ad in a newspaper or newsletter that serves the municipality.	1
Radio/Television	Broadcast a radio or television public service announcement from www.cleanwaternj.org on a local radio or municipal public service channel.	1
Green Infrastructure Signage	Post signs at municipally-owned green infrastructure sites that describe the function and importance of the infrastructure, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*
Billboard/Sign	Produce and maintain (for credit in subsequent years) a billboard or sign which can be displayed on a bus, bus stop shelter, recreation field (outfield sign), or other similar public venue.	2
Mural	Produce and maintain (for credit in subsequent years) the planning and painting of a stormwater pollution themed mural, storm drain art or other artwork at a local downtown/commercial area or other similar public venue.	2
Stormwater Facility Signage	Post signs at municipally-owned stormwater management basins or other structural stormwater related facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*

Category 2: Targeted Audiences Outreach		
Activity	**Description**	**Points**
Stormwater Display	Present a stormwater related display or materials at any municipal event (e.g., Earth Day, town picnic), at the municipal building or other similar public venue.	1
Promotional Item	Distribute an item or items with a stormwater related message (e.g., refrigerator magnets, temporary tattoos, key chains, bookmarks, pet waste bag dispensers, coloring books, and pens or pencils). Municipality must initially have available a minimum number of the items equal to 10% of the municipal population.	2
Mailing or e-Mailing Campaign	Provide information to all known owners of stormwater facilities not owned or operated by the municipality (i.e., privately owned) highlighting the importance of proper maintenance of stormwater measures. For assistance, see information at www.nj.gov/dep/stormwater/maintenance_guidance.htm.	3
Mailing or e-Mailing Campaign	Distribute any of the Department's educational brochures, tip cards, or a municipally produced equivalent (e.g., community calendar, newsletter, or recycling schedule) via a mailing to every resident and business in the municipality.	2
Ordinance Education	Distribute a letter or e-mail from the mayor or municipal official to every resident and business in the municipality highlighting the requirements and environmental benefits of the Pet Waste, Wildlife Feeding, Litter Control, Improper Disposal of Waste, Containerized Waste/Yard Waste Collection, Private Storm Drain Inlet Retrofitting and Illicit Connection ordinances. Provide a link to the municipal website where subject ordinances are posted.	3

Category 3: School / Youth Education and Activities		
Activity	**Description**	**Points**
School Presentations	Provide water-related educational presentation(s) and/or activities to local preschool, elementary, middle, and/or high school classes using municipal staff or local partner organizations. Topics could include stormwater, nonpoint source pollution, watersheds, water conservation and water quality. For ideas, see information at www.nj.gov/dep/seeds. *Presentations receive 1 credit per presentation, with a maximum of 5 credits allowed.	5*
Water Education Workshops	Provide water-related professional development workshops for local teachers from a registered NJ Department of Education Professional Development Provider.	2
Storm Drain Labeling	Organize a project to label and/or maintain storm drain labels (that are not already precast with a message) with a scout troop, local school district, or faith based group, or other community youth group for a minimum of 40 labels. This project could also include stenciling over precast labels to improve legibility.	3
Educational Contest for Schools	Organize an educational contest with a local school district or a local community organization serving youth to design a poster, magnet, rain stick, rain barrel or other craft/art object. Contest themes shall have an appropriate stormwater message. Winning entries are to be displayed at publicly accessible locations within the municipality such as at the town hall, library, post office, or school. The winning design should be shown on the municipality's website or social media site, if practical.	3
AmeriCorps Event	Coordinate an event (e.g. volunteer stream monitoring, educational presentations, or stormwater awareness project) through AmeriCorps NJ Watershed Ambassador Program	4
Clean-up	Sponsor or organize a litter clean up for a scout troop, local school district, faith based group or other community youth group along a local waterway, public park, stormwater facility, or in an area with storm drains that discharge to a local lake or waterway.	3

Category 4: Watershed/Regional Collaboration		
Activity	**Description**	**Points**
Regional Stormwater Collaboration	Participate in a regional stormwater, community collaborative or other watershed-based group on a regular basis to discuss impaired waterbodies, TMDLs, regional stormwater related issues, or watershed restoration plans that address those waterbodies. Evaluate, develop and implement remedies that resolve stormwater-related issues within the affected waterbody or watershed.	3
Green Infrastructure Workshop	Organize or participate in a rain barrel, rain garden or other green infrastructure workshop on a regional or watershed basis. This could be a partnership exercise with a local watershed organization, utility, university, school, youth/faith based group, and/or other organization.	3
Community Activity	Organize or participate in the organization of a regional or watershed based event to carry out stormwater activities such as stormwater facility maintenance or litter clean-up. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, utility, university, school, youth/faith based group, and/or other organization to carry out these activities.	3

Category 5: Community Involvement Activities		
Activity	**Description**	**Points**
Volunteer Stormwater Assessment or Stream Monitoring	Establish a volunteer stormwater facility assessment (inspection, inventory and/or mapping) or stream monitoring program for a waterbody within the municipality in order to gauge the health of the waterway through chemical, biological or visual monitoring protocols. Contact NJDEP's AmeriCorps NJ Watershed Ambassador Program or review USEPA National Directory of Volunteer Monitoring Programs.	3
Rain Barrel Workshop	Organize or participate in a rain barrel workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Rain Garden Workshop	Organize or participate in a rain garden training or installation workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Community Event	Organize or participate in the organization of a community event to carry out stormwater activities such as stormwater measure maintenance or a stream buffer restoration. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, university, utility, school, youth/faith based group, and/or other nonprofit to carry out these activities.	3
Community Involvement	Organize a project with a local organization to create and post signs at either green and/or gray stormwater infrastructure sites or facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *Signs receive 0.5 credits per sign. A maximum of 5 credits are allowed.	5*

Attachment C - Design Standards for Storm Drain Inlets

Application of Design Standard

The below design standard applies to the following types of storm drain inlet installation or retrofit projects unless a more stringent standard is specified by the municipality's stormwater control ordinance:

- Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb one acre or more;
    - Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb less than one acre that are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more;
- Tier A Municipality owned or operated storm drain inlets must be retrofitted where the storm drains are (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities; and
- Privately owned or operated storm drain inlets (e.g. condomium association) must be retrofitted where the storm drains are (1) in direct contact with anyrepaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. This does not include single family homes.

Design Standard

Grates in pavement or other ground surfaces shall meet either of the following standards:

- The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (see www.nj.gov/transportation/publicat/pdf/BikeComp/introtofac.pdf); or
- A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is not greater than 0.5 inches across the smallest dimension. Note that the Residential Site Improvement Standards at N.J.A.C. 5:21include requirements for bicycle safe grates.

Examples of grates subject to this standard include grates in grate inlets; the grate portion (non-curb opening portion) of combination inlets; grates on storm sewer manholes; ditch grates; trench grates; and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads, (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body.

For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

Exemptions from the Design Standard

- Where each individual clear space in the curb opening in existing curb-opening inlets does not have an area of more than nine (9.0) square inches;

- Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;

- Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

  A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or

  A bar screen having a bar spacing of 0.5 inches;

  Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- Where flows are conveyed through a trash rack that has parallel bars with one inch (1") spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8; or

- Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

Attachment D – Major Development Stormwater Summary

General Information
1. Project Name:
2. Municipality: County: Block(s): Lot(s):
3. Site Location (State Plane Coordinates – NAD83): E: N:
4. Date of Final Approval for Construction by Municipality: Date of Certificate of Occupancy:
5. Project Type (circle all that apply): Residential Commercial Industrial Other (please specify) _____
6. Soil Conservation District Project Number:
7. Did project require NJDEP Land Use Permit? Yes No Land Use Permit #:
8. Did project require the use of any mitigation measures? Yes No If yes, which standard was mitigated?

Site Design Specifications
1. Area of Disturbance (acres): Area of Proposed Impervious (acres):
2. List all Hydrologic Soil Groups:
3. Please Identify the Amount of Each Best Management Practices (BMPs) Utilized in Design Below: Bioretention Systems ___ Constructed Wetlands ___ Dry Wells ___ Extended Detention Basins ___ Infiltration Basins ___ Combination Infiltration/Detention Basins ___ Manufactured Treatment Devices___ Pervious Paving Systems ___ Sand Filters ___ Vegetative Filter Strips ___ Wet Ponds ___ Grass Swales ___ Subsurface Gravel Wetlands ___ Other _____

Storm Event Information
Storm Event: Rainfall (inches and duration) 2 yr.: _____ 10 yr.: _____ 100 yr.: _____ WQ DS: _____
Runoff Computation Method (circle one): NRCS: Dimensionless Unit Hydrograph NRCS: Delmarva Unit Hydrograph Rational Modified Rational Other: _____

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
1. Type of Basin: Surface/Subsurface (circle one)
2. Owner (circle one): Public Private: If so, Name: Phone number:
3. Basin Construction Completion Date:
4. Drain Down Time (hr.):
5. Design Soil Permeability (in./hr.):
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
7. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
8. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Comments: _____

_____

_____

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
10. Type of Basin: Surface/Subsurface (circle one)
11. Owner (circle one): Public Private: If so, Name: Phone number:
12. Basin Construction Completion Date:
13. Drain Down Time (hr.):
14. Design Soil Permeability (in./hr.):
15. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
16. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
17. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
18. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
19. Type of Basin: Surface/Subsurface (circle one)
20. Owner (circle one): Public Private: If so, Name: Phone number:
21. Basin Construction Completion Date:
22. Drain Down Time (hr.):
23. Design Soil Permeability (in./hr.):
24. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
25. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
26. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
27. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
28. Type of Basin: Surface/Subsurface (circle one)
29. Owner (circle one): Public Private: If so, Name: Phone number:
30. Basin Construction Completion Date:
31. Drain Down Time (hr.):
32. Design Soil Permeability (in./hr.):
33. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
34. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
35. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
36. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Attachment E – Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations

The Tier A Municipality shall implement the following practices at municipal maintenance yards and other ancillary operations owned or operated by the municipality. Inventory of Materials and Machinery, and Inspections and Good Housekeeping shall be conducted at all municipal maintenance yards and other ancillary operations. All other Best Management Practices shall be conducted whenever activities described below occur. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites.

Inventory of Materials and Machinery

The SPPP shall include a list of all materials and machinery located at municipal maintenance yards and ancillary operations which could be a source of pollutants in a stormwater discharge. The materials in question include, but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the municipal maintenance yard operations and ancillary operations. Materials or machinery that are not exposed to stormwater at the municipal maintenance yard or related to its operations do not need to be included.

Inspections and Good Housekeeping

1. Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Identify conditions that would contribute to stormwater contamination, illicit discharges or negative impacts to the Tier A Municipality's MS4. Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at Municipal Maintenance Yards and Other Ancillary Operations. This log must contain, at a minimum, a record of inspections of all operations listed in Part IV.B.5.c. of this permit including dates and times of the inspections, and the name of the person conducting the inspection and relevant findings. This log must be kept on-site with the SPPP and made available to the Department upon request. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for additional information.

2. Conduct cleanups of spills of liquids or dry materials immediately after discovery. All spills shall be cleaned using dry cleaning methods only. Clean up spills with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and sweep the rest of the area. Dispose of collected waste properly. Store clean-up materials, spill kits and drip pans near all liquid transfer areas, protected from rainfall.

3. Properly label all containers. Labels shall be legible, clean and visible. Keep containers in good condition, protected from damage and spillage, and tightly closed when not in use. When practical, store containers indoors. If indoor storage is not practical, containers may be stored outside if covered and placed on spill platforms or clean pallets. An area that is graded and/or bermed to prevent run-through of stormwater may be used in place of spill platforms or clean pallets. Outdoor storage locations shall be regularly maintained.

Fueling Operations

1. Establish, maintain and implement standard operating procedures to address vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.

   a. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.

   b. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel shall be within the temporarily bermed or boomed area during the loading/unloading of bulk fuels. A trained employee shall be present to supervise the bulk transfer of fuel.

   c. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment. Include all of the following:
      - "Topping off of vehicles, mobile fuel tanks, and storage tanks is strictly prohibited"
      - "Stay in view of fueling nozzle during dispensing"
      - Contact information for the person(s) responsible for spill response.

   d. Immediately repair or replace any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair.

Discharge of Stormwater from Secondary Containment

The discharge pipe/outfall from a secondary containment area (e.g. fuel storage, de-icing solution storage, brine solution) shall have a valve and the valve shall remain closed at all times except as described below. A municipality may discharge stormwater accumulated in a secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not come in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the municipality shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the municipality cannot make a determination with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Vehicle Maintenance

1. Operate and maintain equipment to prevent the exposure of pollutants to stormwater.

2. Whenever possible, conduct vehicle and equipment maintenance activities indoors. For projects that must be conducted outdoors, and that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on, and drip pans shall be used at all times. Use designated areas away from storm drains or block storm drain inlets when vehicle and equipment maintenance is being conducted outdoors.

On-Site Equipment and Vehicle Washing and Wash Wastewater Containment

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to waters of the State.

2. Tier A Municipalities which cannot discharge wash wastewater to a sanitary sewer or which cannot otherwise comply with 1, above, may temporarily contain wash wastewater prior to proper disposal under the following conditions:

   a. Containment structures shall not leak. Any underground tanks and associated piping shall be tested for integrity every 3 years using appropriate methods determined by "*The List of Leak Detection Evaluations for Storage Tank Systems*" created by the National Work Group on Leak Detection Evaluations (NWGLDE) or as determined appropriate and certified by a professional engineer for the site specific containment structure(s).

   b. For any cathodically protected containment system, provide a passing cathodic protection survey every three years.

   c. Operate containment structures to prevent overfilling resulting from normal or abnormal operations, overfilling, malfunctions of equipment, and human error. Overfill prevention shall include manual sticking/gauging of the tank before each use unless system design prevents such measurement. Tank shall no longer accept wash wastewater when determined to be at 95% capacity. Record each measurement to the nearest ½ inch.

   d. Before each use, perform inspections of all visible portions of containment structures to ensure that they are structurally sound, and to detect deterioration of the wash pad, catch basin, sump, tank, piping, risers, walls, floors, joints, seams, pumps and pipe connections or other containment devices. The wash pad, catch basin, sump and associated drains should be kept free of debris before each use. Log dates of inspection; inspector's name, and conditions. This inspection is not required if system design prevents such inspection.

   e. Containment structures shall be emptied and taken out of service immediately upon detection of a leak. Complete all necessary repairs to ensure structural integrity prior to placing the containment structure back into service. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline (1-877-927-6337) followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed.

   f. All equipment and vehicle wash wastewater placed into storage must be disposed of in a legally permitted manner (e.g. pumped out and delivered to a duly permitted and/or approved wastewater treatment facility).

   g. Maintain a log of equipment and vehicle wash wastewater containment structure clean-outs including date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See Underground Vehicle Wash Water Storage Tank Use Log at end of this attachment.

   h. Containment structures shall be inspected annually by a NJ licensed professional engineer. The engineer shall certify the condition of all structures including: wash pad, catch basin,

sump, tank, piping, risers to detect deterioration in the, walls, floors, joints, seams, pumps and pipe connections or other containment devices using the attached Engineer's Certification of Annual Inspection of Equipment and Vehicle Wash Wastewater Containment Structure. This certification may be waived for self-contained systems on a case-by-case basis. Any such waiver would be issued in writing by the Department.

3. Maintain all logs, inspection records, and certifications on-site. Such records shall be made available to the Department upon request.

Salt and De-icing Material Storage and Handling

1. Store material in a permanent structure.
2. Perform regular inspections and maintenance of storage structure and surrounding area.
3. Minimize tracking of material from loading and unloading operations.
4. During loading and unloading:
   a. Conduct during dry weather, if possible;
   b. Prevent and/or minimize spillage; and
   c. Minimize loader travel distance between storage area and spreading vehicle.
5. Sweep (or clean using other dry cleaning methods):
   a. Storage areas on a regular basis;
   b. Material tracked away from storage areas;
   c. Immediately after loading and unloading is complete.
6. Reuse or properly discard materials collected during cleanup.
7. Temporary outdoor storage is permitted only under the following conditions:
   a. A permanent structure is under construction, repair or replacement;
   b. Stormwater run-on and de-icing material run-off is minimized;
   c. Materials in temporary storage are tarped when not in use;
   d. The requirements of 2 through 6, above are met; and
   e. Temporary outdoor storage shall not exceed 30 days unless otherwise approved in writing by the Department;
8. Sand must be stored in accordance with Aggregate Material and Construction Debris Storage below.

Aggregate Material and Construction Debris Storage

1. Store materials such as sand, gravel, stone, top soil, road millings, waste concrete, asphalt, brick, block and asphalt based roofing scrap and processed aggregate in such a manner as to minimize stormwater run-on and aggregate run-off via surface grading, dikes and/or berms (which may include sand bags, hay bales and curbing, among others) or three sided storage bays. Where possible the open side of storage bays shall be situated on the upslope. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading.

2. Sand, top soil, road millings and processed aggregate may only be stored outside and uncovered if in compliance with item 1 above and a 50-foot setback is maintained from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels.

3. Road millings must be managed in conformance with the "Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance" (see www.nj.gov/dep/dshw/rrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.

4. The stockpiling of materials and construction of storage bays on certain land (including but not limited to coastal areas, wetlands and floodplains) may be subject to regulation by the Division of Land Use Regulation (see www.nj.gov/dep/landuse/ for more information).

Street Sweepings, Catch Basin Clean Out, and Other Material Storage

1. For the purposes of this permit, this BMP is intended for road cleanup materials as well as other similar materials. Road cleanup materials may include but are not limited to street sweepings, storm sewer clean out materials, stormwater basin clean out materials and other similar materials that may be collected during road cleanup operations. These BMPs do not cover materials such as liquids, wastes which are removed from municipal sanitary sewer systems or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G-1.1 et seq.

2. Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1 et seq. See the "Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials" (www.nj.gov/dep/dshw/rrtp/sweeping.htm).

3. Road cleanup materials placed into storage must be, at a minimum:

   a. Stored in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter; and

   b. Removed for disposal (in accordance with 2, above) within six (6) months of placement into storage.

Yard Trimmings and Wood Waste Management Sites

1. These practices are applicable to any yard trimmings or wood waste management site:

   a. Owned and operated by the Tier A Municipality;
      i. For staging, storing, composting or otherwise managing yard trimmings, or
      ii. For staging, storing or otherwise managing wood waste, and

   b. Operated in compliance with the Recycling Rules found at N.J.A.C. 7:26A.

2. Yard trimmings or wood waste management sites must be operated in a manner that:

   a. Diverts stormwater away from yard trimmings and wood waste management operations; and
   b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater.

3. Yard trimmings and wood waste management site specific practices:

   a. Construct windrows, staging and storage piles:
      i. In such a manner that materials contained in the windrows, staging and storage piles (processed and unprocessed) do not enter waterways of the State;
      ii. On ground which is not susceptible to seasonal flooding;
      iii. In such a manner that prevents stormwater run-on and leachate run-off (e.g. use of covered areas, diversion swales, ditches or other designs to divert stormwater from contacting yard trimmings and wood waste).

   b. Maintain perimeter controls such as curbs, berms, hay bales, silt fences, jersey barriers or setbacks, to eliminate the discharge of stormwater runoff carrying leachate or litter from the site to storm sewer inlets or to surface waters of the State.

   c. Prevent on-site storm drain inlets from siltation using controls such as hay bales, silt fences, or filter fabric inlet protection.

   d. Dry weather run-off that reaches a municipal stormwater sewer system is an illicit discharge. Possible sources of dry weather run-off include wetting of piles by the site operator; uncontrolled pile leachate or uncontrolled leachate from other materials stored at the site.

   e. Remove trash from yard trimmings and wood waste upon receipt.

   f. Monitor site for trash on a routine basis.

   g. Store trash in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter;

   h. Dispose of collected trash at a permitted solid waste facility.

   i. Employ preventative tracking measures, such as gravel, quarry blend, or rumble strips at exits.

Roadside Vegetation Management

1. Tier A Municipalities shall restrict the application of herbicides along roadsides in order to prevent it from being washed by stormwater into the waters of the State and to prevent erosion caused by de-vegetation, as follows: Tier A Municipalities shall not apply herbicides on or adjacent to storm drain inlets, on steeply sloping ground, along curb lines, and along unobstructed shoulders. Tier A Municipalities shall only apply herbicides within a 2 foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow.

ENGINEERS CERTIFICATION OF ANNUAL INSPECTION OF EQUIPMENT AND VEHICLE WASH WASTEWATER CONTAINMENT STRUCTURE

(Complete a separate form for each vehicle wash wastewater containment structure)

Permittee: _____ NJPDES Permit No: _____

Containment Structure Location: _____

The annual inspection of the above referenced vehicle wash wastewater containment structure was conducted on _____ (date). The containment structure and appurtenances have been inspected for:

1. The integrity of the structure including walls, floors, joints, seams, pumps and pipe connections
2. Leakage from the structure's piping, vacuum hose connections, etc.
2 Bursting potential of tank.
3. Transfer equipment
4. Venting
5. Overflow, spill control and maintenance.
6. Corrosion, splits, and perforations to tank, piping and vacuum hoses

The tank and appurtenances have been inspected for all of the above and have been determined to be:

Acceptable _____

Unacceptable _____

Conditionally Acceptable _____

List necessary repairs and other conditions: _____

_____

_____

_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted 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 (N.J.A.C. 7:14A-2.4(d)).

Name (print): _____ Seal:

Signature: _____

Date: _____

Underground Vehicle Wash Water Storage Tank Use Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Volume _____ gallons

95% Volume _____ gallons

Tank Location _____

Tank Height _____ inches

95% Volume _____ inches

Date and Time	Inspector	Height of Product Before Introducing Liquid (inches)	Is Tank Less Than 95% Full? (Y/N)	Visual Inspection Pass? (Y/N)	Comments

Notes: The volume of liquid in the tank should be measured **before** each use.

Liquid **should not be introduced** if the tank contains liquid at 95% of the capacity or greater.

A visual inspection of all exposed portions of the collection system should be performed before each use. Use the comments column to document the inspection and any repairs.

Underground Vehicle Wash Water Storage Tank Pump Out Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____ Tank Location _____

Tank Volume _____ gallons

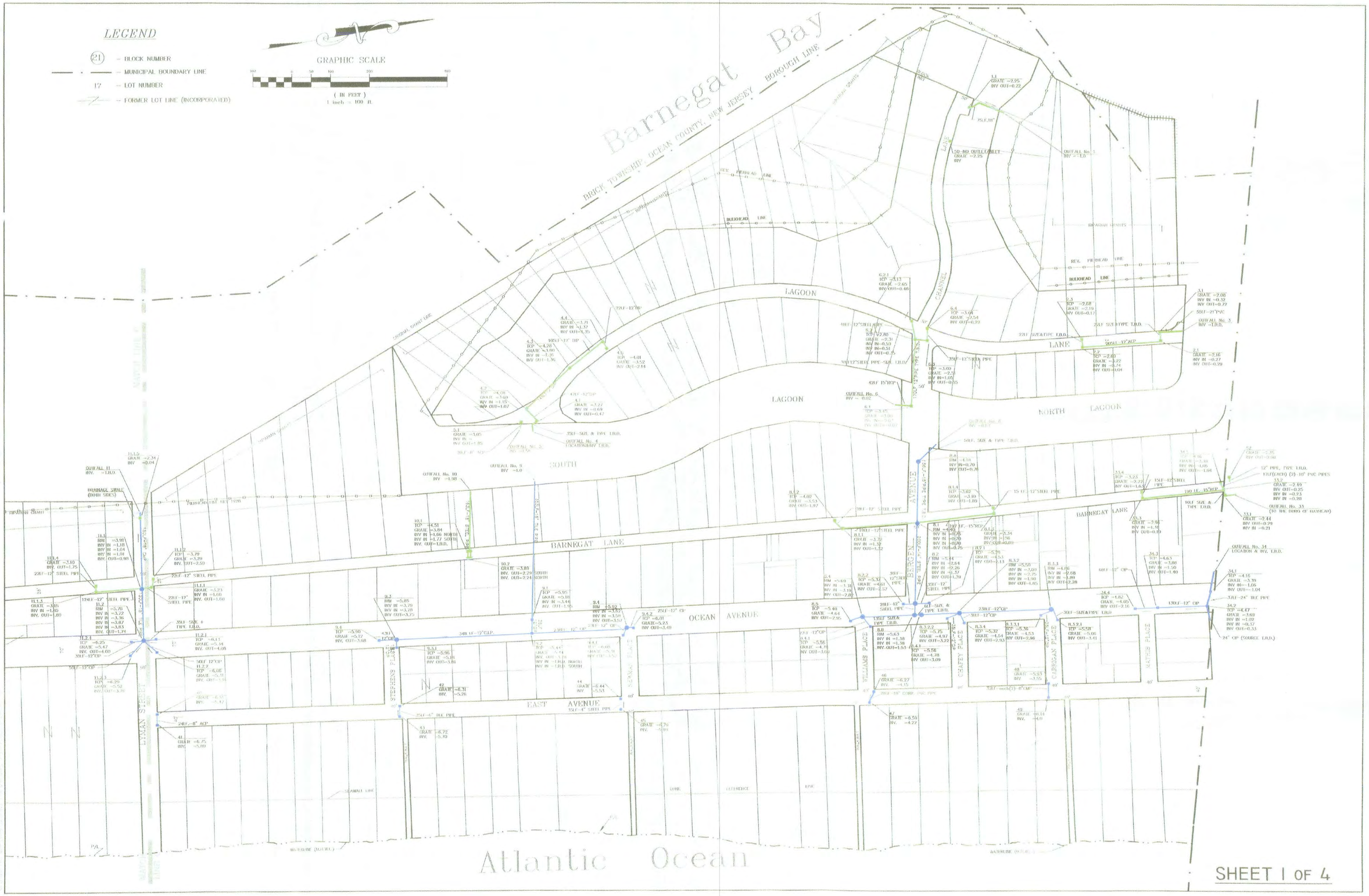
Date and Time of Pump Out	Volume of Liquid Removed	Waste Hauler *	Destination of the Liquid Disposal *

*** The Permittee must maintain copies of all hauling and disposal records and make them available for inspection**

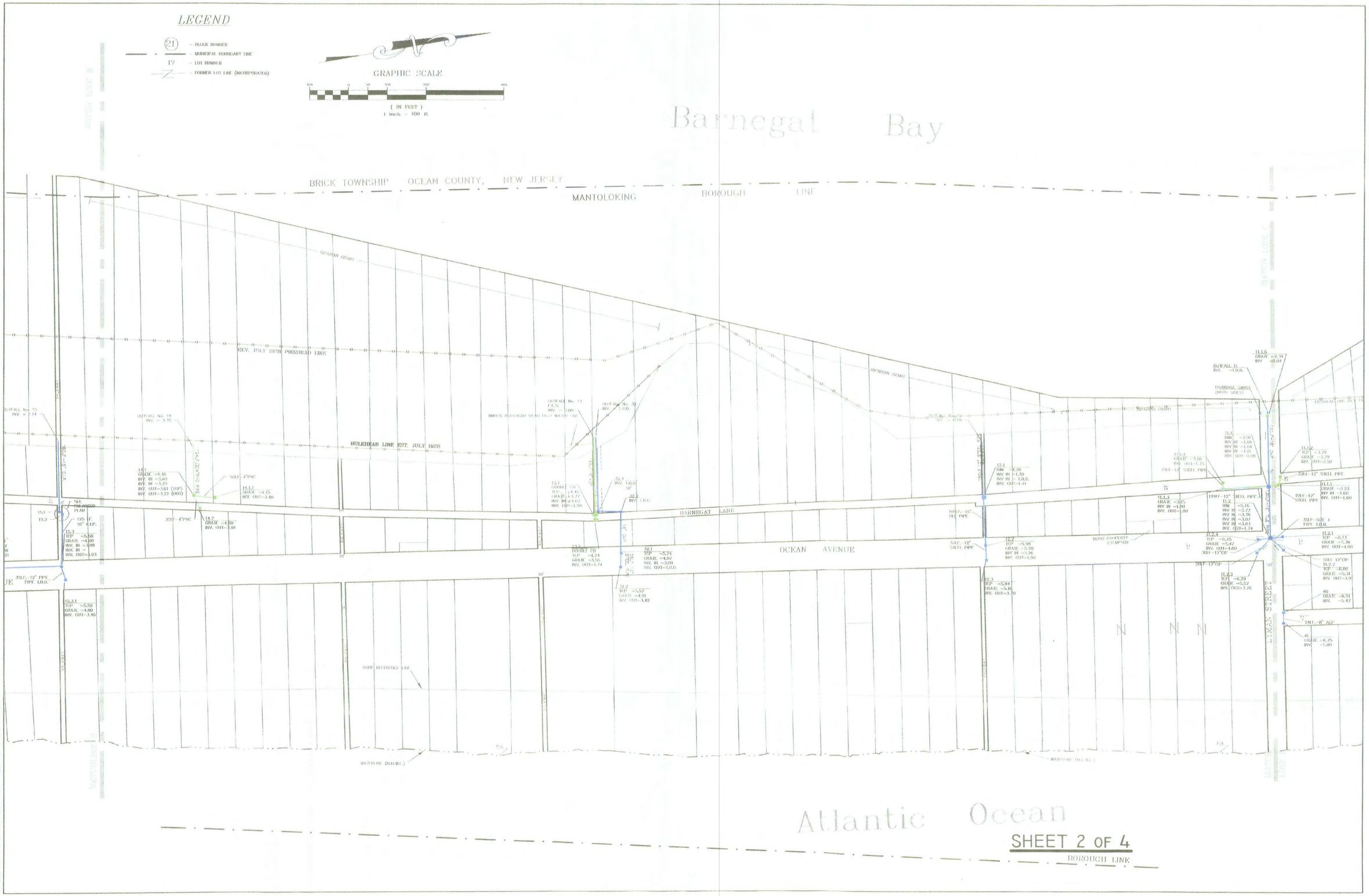
BOROUGH OF MANTOLOKING

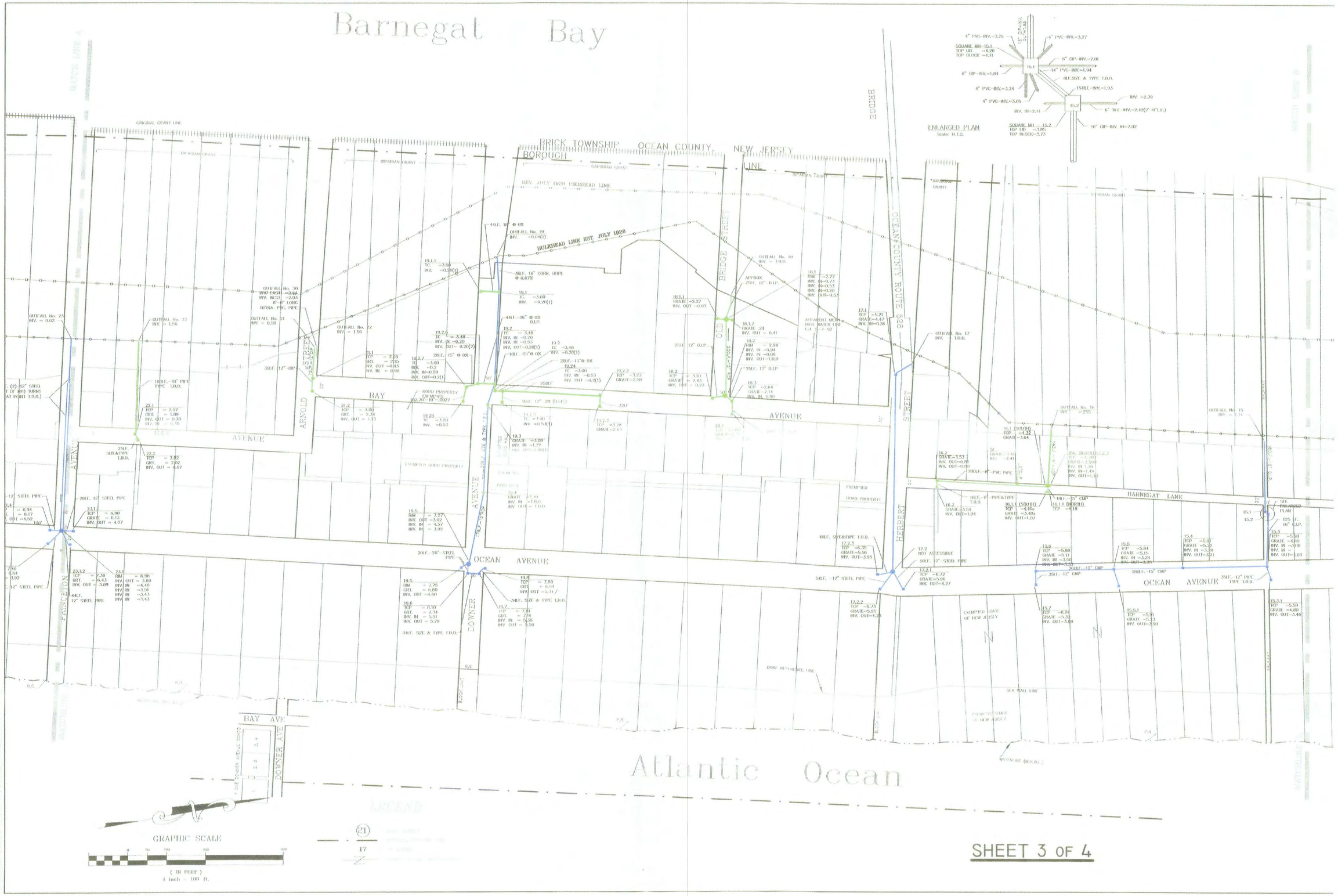
STORMWATER POLLUTION PREVENTION PLAN (SPPP)

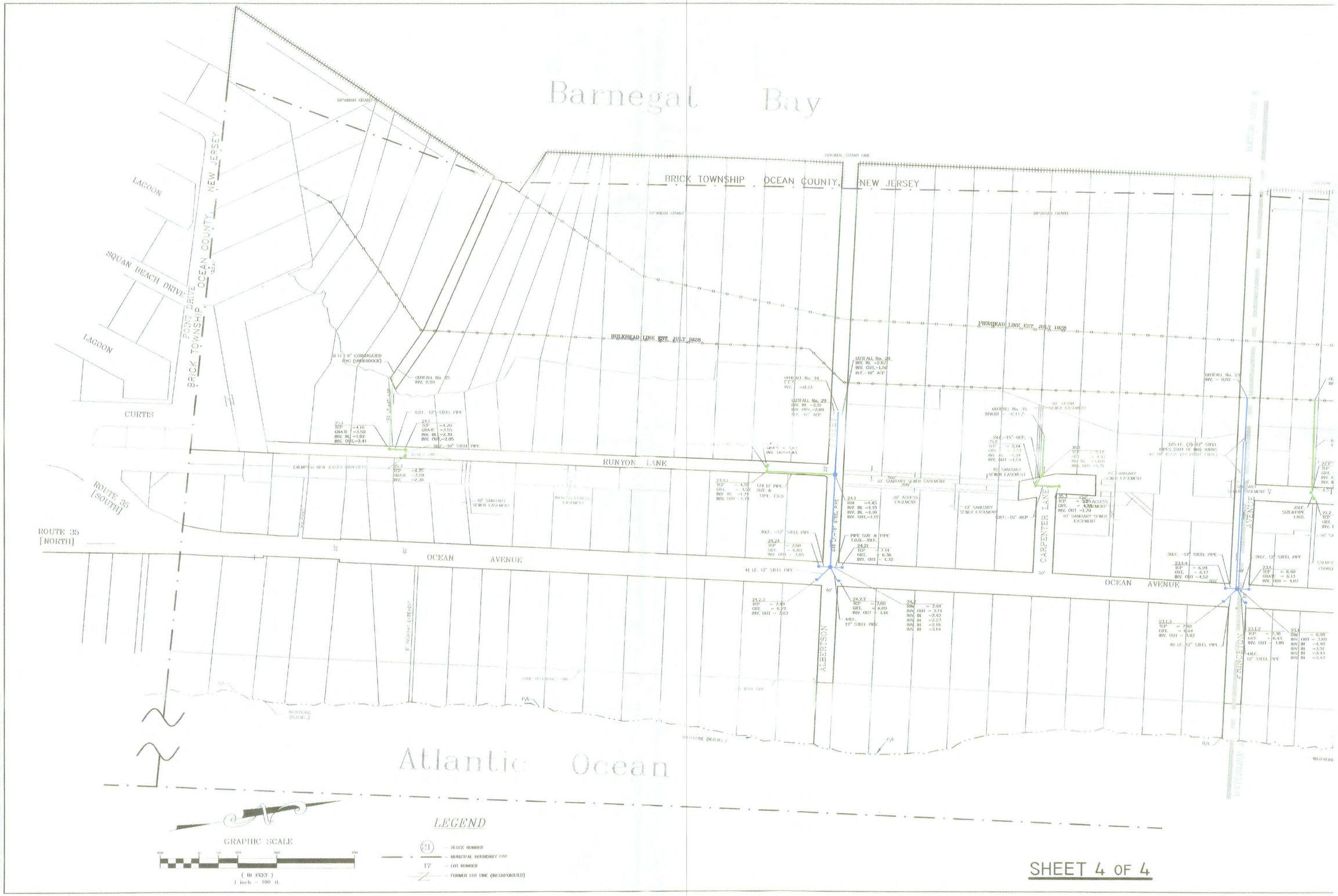
APPENDIX E – MS4 OUTFALL MAPS


LEGEND
21 – BLOCK NUMBER
– MUNICIPAL BOUNDARY LINE
17 – LOT NUMBER
– FORMER LOT LINE (INCORPORATED)
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.
Barnegat Bay
BRICK TOWNSHIP, OCEAN COUNTY, NEW JERSEY
BOROUGH LINE
LAGOON
LAGOON
NORTH LAGOON
SOUTH
BARNEGAT LANE
OCEAN AVENUE
EAST AVENUE
LYMAN STREET
STEPHENS PLACE
NEWMAN PLACE
WILLIAMS PLACE
CHAFEY PLACE
CARRIGAN PLACE
MATHIS PLACE
BERGEN AVENUE
CHANNEL
LANE
BULKHEAD LINE
REV. PIERHEAD LINE
Atlantic Ocean

SHEET 1 OF 4


LEGEND
21 – BLOCK NUMBER
– MUNICIPAL BOUNDARY LINE
17 – LOT NUMBER
– FORMER LOT LINE (INCORPORATED)
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.
Barnegat Bay
BRICK TOWNSHIP OCEAN COUNTY, NEW JERSEY
MANTOLOKING BOROUGH LINE
REV. JULY 1928 PIERHEAD LINE
BULKHEAD LINE EST. JULY 1928
BARNEGAT LANE
OCEAN AVENUE
LYMAN (7) STREET
Atlantic Ocean
SHEET 2 OF 4
BOROUGH LINE


Barnegat Bay
BRICK TOWNSHIP OCEAN COUNTY NEW JERSEY
BOROUGH LINE
BULKHEAD LINE EST. JULY 1928
REV. JULY 1928 PIERHEAD LINE
ENLARGED PLAN
Scale: N.T.S.
BRIDGE
OCEAN COUNTY ROUTE 526
OLD BRIDGE STREET
ARNOLD STREET
BAY AVENUE
OCEAN AVENUE
DOWNER AVENUE
HERBERT STREET
BARNEGAT LANE
FRANCETON AVENUE
BAY AVE
DOWNER AVE
Atlantic Ocean
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.
SHEET 3 OF 4


Barnegat Bay
BRICK TOWNSHIP OCEAN COUNTY, NEW JERSEY
LAGOON
SQUAN BEACH DRIVE
POINT DRIVE
BRICK TOWNSHIP OCEAN COUNTY, NEW JERSEY
LAGOON
CURTIS
ROUTE 35 [SOUTH]
ROUTE 35 [NORTH]
RUNYON LANE
OCEAN AVENUE
ALBERTSON
CARPENTER LANE
OCEAN AVENUE
PRINCETON AVENUE
BULKHEAD LINE EST. JULY 1928
PIERHEAD LINE EST. JULY 1928
Atlantic Ocean
LEGEND
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.
BLOCK NUMBER
MUNICIPAL BOUNDARY LINE
LOT NUMBER
FORMER LOT LINE (INCORPORATED)

SHEET 4 OF 4