

**Municipality/Organization:** Massachusetts Department of Correction  
MCI- Framingham

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**EPA NPDES Permit Number:** MAR 042012

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**MADEP Transmittal Number:** W- 04206

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**Annual Report Number & Reporting Period:** April 1, 2013 – March 31, 2014

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Jeffrey J. Quick, A.I.A. **Title:** Director, Division of Resource Management

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**Telephone #:** (508) 541-5301 x11 **Email:** JJQuick@doc.state.ma.us

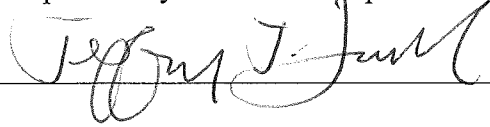
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**Mailing Address:** 21 Needham Street, Norfolk, MA 02056

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#### Certification:

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

**Signature:** 

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**Printed Name:** Jeffrey J Quick, A.I.A.

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**Title:** Director, Division of Resource Management

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**Date:** April 28, 2014

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## Part II. Self-Assessment

The Department of Correction (DOC) received correspondence from the Environmental Protection Agency (EPA) on May 28, 2004 determining the Notice of Intent (NOI) submission was administratively complete. From the time the NOI's were prepared and before they were submitted the DOC began a prioritization list of areas for investigation including but not limited to:

- Entry Points into the storm drainage system(s) maintained by the DOC.
- Documentation of discharges points on and off the DOC property.
- Coordination with Framingham as their collection system receives DOC water and then returns back to DOC property.
- Illicit connections identification (None were found).
- Investigation of infrastructure and identification of problem drainage areas.

Through the State of Massachusetts Clean State Program, an oil-water separator was installed to handle parking lot drainage. In summary, the storm drainage systems operated by the DOC are not combined systems where sewer and storm water are served by the same system.

In the past year no problems that required attention were identified. The facility has undertaken a regular inspection program to clean and repair older catch basin structures.

Many of the milestones and goals have been met – however, due to funding issues, others are still in progress.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

| BMP ID #                | BMP Description                               | Responsible Dept./Person Name | Measurable Goal(s)               | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any)                                               | Planned Activities – Permit Year 11                              |
|-------------------------|-----------------------------------------------|-------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1<br>Revised<br>No      | Publicize/Present SW Program to staff         | Div. of Res. Management       | Publicize and Present Program to | Conduct facility specific training with maintenance staff and other stakeholders in this program.                                            | Continue with additional training as funding is identified.      |
| 2<br>Revised<br>No      | Distribute Printed Materials                  | Div. of Res. Management       | Create and Post Material         | Provide written updates and progress reports to management staff.                                                                            | Provide written updates and progress reports to management staff |
| 3<br>Revised<br>Yes/New | Intranet Posting<br>Preparation of Newsletter | Div. of Res. Management       | Post Materials                   | Completed separate Intranet page.. In addition, a newsletter that highlighted the Stormwater Phase II program was completed and distributed. | Periodic updates as needed.                                      |
| 4<br>Revised<br>No      | Stenciling                                    | Div. of Res. Management       | Complete stenciling              | No Stenciling completed this year due to operations and other security issues                                                                | Upkeep of existing stenciling and continue with remainder.       |
| Revised                 |                                               |                               |                                  |                                                                                                                                              |                                                                  |
| Revised                 |                                               |                               |                                  |                                                                                                                                              |                                                                  |

#### 1a. Additions

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## 2. Public Involvement and Participation

| BMP ID #           | BMP Description           | Responsible Dept./Person Name | Measurable Goal(s)                | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any)           | Planned Activities – Permit Year 11 |
|--------------------|---------------------------|-------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------|
| 5<br>Revised<br>No | Form Stormwater Committee | Div. of Res. Management       | Form Committee                    | Formed Stormwater Committee that is part of the DOC's State Sustainability Council                       | Committee to meet once a year.      |
| 6<br>Revised<br>No | Staff input               | Div. of Res. Management       | Solicit Input and Implement Ideas | Input has been received. Mostly where investigation is needed or cleaning and maintenance are necessary. | Continue with staff education       |
| Revised            |                           |                               |                                   |                                                                                                          |                                     |
| Revised            |                           |                               |                                   |                                                                                                          |                                     |
| Revised            |                           |                               |                                   |                                                                                                          |                                     |
| Revised            |                           |                               |                                   |                                                                                                          |                                     |
| Revised            |                           |                               |                                   |                                                                                                          |                                     |

### 2a. Additions

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### 3. Illicit Discharge Detection and Elimination

| BMP ID #      | BMP Description         | Responsible Dept./Person Name | Measurable Goal(s)        | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any)                                       | Planned Activities – Permit Year 11                                                                                                                                       |
|---------------|-------------------------|-------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7<br>Revised  | Map Drain System        | Div. of Res. Management       | Complete Mapping          | Mapping completed. Outfall locations sent to EPA during NOI submittal. Began work mapping outfalls with GIS software.                | Continue with mapping of outfalls with GIS software. GPS Equipment purchased and MASS GIS mapping software acquired. Integrate outfalls with large comprehensive mapping. |
| 8<br>Revised  | Dry/Wet Weather Surveys | Div. of Res. Management       | Document and Prioritize   | Wet weather survey did not identify piping problem. Storm drains require minor repairs. Funding limited ability to make all repairs. | Prioritize those catch basins that require repairs.                                                                                                                       |
| 9<br>Revised  | Correct Problems        | Div. of Res. Management       | Make Repairs and Document | Minor repairs to catch basins                                                                                                        | Pending budget catch basin and piping repairs as needed                                                                                                                   |
| 10<br>Revised | Policy for Enforcement  | Div. of Res. Management       | Prepare Policy            | Stormwater Committee to be charged with preparation of policy. Policy in place that ties in sustainable practices with this BMP.     | Update policy as needed. Review for improvements.                                                                                                                         |
| Revised       |                         |                               |                           |                                                                                                                                      |                                                                                                                                                                           |
| Revised       |                         |                               |                           |                                                                                                                                      |                                                                                                                                                                           |

### 3a. Additions

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#### 4. Construction Site Stormwater Runoff Control

| BMP ID #      | BMP Description         | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any)     | Planned Activities – Permit Year 11 |
|---------------|-------------------------|-------------------------------|--------------------|----------------------------------------------------------------------------------------------------|-------------------------------------|
| 11<br>Revised | Construction Management | Div. of Res. Management       | As Necessary       | Visitor parking area was expanded during this permit year. Area is gravel covered- porous surface. | None Planned                        |
| Revised       |                         |                               |                    |                                                                                                    |                                     |
| Revised       |                         |                               |                    |                                                                                                    |                                     |
| Revised       |                         |                               |                    |                                                                                                    |                                     |
| Revised       |                         |                               |                    |                                                                                                    |                                     |
| Revised       |                         |                               |                    |                                                                                                    |                                     |
| Revised       |                         |                               |                    |                                                                                                    |                                     |

#### 4a. Additions

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## 5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID # | BMP Description              | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 11                     |
|----------|------------------------------|-------------------------------|--------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 12       | Post Construction Activities | Div. of Res. Management       | As Required        | Possible Demo delayed                                                                          | Possible demolition of burned building on DOC property. |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |
| Revised  |                              |                               |                    |                                                                                                |                                                         |

## 5a. Additions

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## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID #      | BMP Description    | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any)                 | Planned Activities – Permit Year 11 |
|---------------|--------------------|-------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 13<br>Revised | Develop O&M Plan   | Div. of Res. Management       |                    | Catch Basins routinely inspected. Some catch basins cleaned.                                                   | Continue with evaluation of program |
| 14<br>Revised | Execute O&M Plan   | Div. of Res. Management       |                    | Limited funding did not allow all work to be completed, although some major maintenance and improvements made. | Review and Execute O&M Plan         |
| 15<br>Revised | Long Term Planning | Div. of Res. Management       |                    | Evaluated what is needed to implement O&M plan. Working with Framingham DPW on catch basin cleaning.           | Modify as necessary                 |
| Revised       |                    |                               |                    |                                                                                                                |                                     |
| Revised       |                    |                               |                    |                                                                                                                |                                     |
| Revised       |                    |                               |                    |                                                                                                                |                                     |

## 6a. Additions

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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 10<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 11 |
|----------|-----------------|-------------------------------|--------------------|------------------------------------------------------------------------------------------------|-------------------------------------|
|          | NA              |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |
| Revised  |                 |                               |                    |                                                                                                |                                     |

7a. Additions

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7b. WLA Assessment

#### Part IV. Summary of Information Collected and Analyzed

At MCI-Framingham the location of the drain lines and outfall have been identified. The primary drainage system discharges into the storm drain system operated by the Town of Framingham. The Framingham DPW has reached out to the DOC to evaluate how our system connects to the Town's. Progress has been made in locating connections and sizing of piping.

In summary, the DOC has a very good understanding of the drainage system and has taken the necessary steps to prevent pollution from entering the drain system. Cleaning which occurred over the past 12 months did not indicate that significant repairs or other drain maintenance was necessary.

During the permit year the visitor parking area was expanded. The new parking area approximately 1,400 square feet is gravel covered.

Inmate labor is used to pick up litter and other road side debris several times per year.

No illicit connections were found.

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

##### Programmatic

|                                                |      |              |
|------------------------------------------------|------|--------------|
| Stormwater management position created/staffed | YES  | Staff by DRM |
| Annual program budget/expenditures             | (\$) |              |
|                                                |      |              |
|                                                |      |              |

##### Education, Involvement, and Training

|                                                                         |            |           |
|-------------------------------------------------------------------------|------------|-----------|
| Estimated number of residents reached by education program(s)           | 100%       | DOC Staff |
| Stormwater management committee established                             | Yes        |           |
| Stream teams established or supported                                   | (# or y/n) |           |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | NA         |           |
| Household Hazardous Waste Collection Days                               | NA         |           |
| ▪ days sponsored                                                        | (#)        |           |

|                              |  |               |  |
|------------------------------|--|---------------|--|
| ▪ community participation    |  | (%)           |  |
| ▪ material collected         |  | (tons or gal) |  |
| School curricula implemented |  | NA            |  |

### Legal/Regulatory

| Regulatory Mechanism Status (indicate with "X")    | In Place<br>Prior to<br>Phase II | Under<br>Review | Drafted | Adopted |
|----------------------------------------------------|----------------------------------|-----------------|---------|---------|
|                                                    |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                 |         |         |
| ▪ Erosion & Sediment Control                       | X                                |                 |         |         |
| ▪ Post-Development Stormwater Management           |                                  | X               |         |         |
| Accompanying Regulation Status (indicate with "X") |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  | X               |         |         |
| ▪ Erosion & Sediment Control                       |                                  | X               |         | X       |
| ▪ Post-Development Stormwater Management           |                                  | X               |         |         |

### Mapping and Illicit Discharges

|                                        |          |  |                                                 |
|----------------------------------------|----------|--|-------------------------------------------------|
| Outfall mapping complete               | 100%     |  |                                                 |
| Estimated or actual number of outfalls | Two (2)  |  | One to unnamed tributary, One is manmade swale. |
| System-Wide mapping complete           | (100%)   |  |                                                 |
| Mapping method(s)                      |          |  |                                                 |
| ▪ Paper/Mylar                          | 100 %    |  |                                                 |
| ▪ CADD                                 | 100%     |  |                                                 |
| ▪ GIS                                  | 80 %     |  |                                                 |
| Outfalls inspected/screened            | 100 %    |  |                                                 |
| Illicit discharges identified          | Zero (0) |  |                                                 |

|                                   |         |  |
|-----------------------------------|---------|--|
| Illicit connections removed       | NA      |  |
| % of population on sewer          | (100 %) |  |
| % of population on septic systems | (0%)    |  |
|                                   |         |  |

### Construction

|                                                                                                   |      |  |
|---------------------------------------------------------------------------------------------------|------|--|
| Number of construction starts (>1-acre)                                                           | None |  |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | NA   |  |
| Site inspections completed                                                                        | NA   |  |
| Tickets/Stop work orders issued                                                                   | NA   |  |
| Fines collected                                                                                   | NA   |  |
| Complaints/concerns received from public                                                          | None |  |
|                                                                                                   |      |  |

### Post-Development Stormwater Management

|                                                                                                                          |         |  |
|--------------------------------------------------------------------------------------------------------------------------|---------|--|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | NA – 0% |  |
| Site inspections completed                                                                                               | NA      |  |
| Estimated volume of stormwater recharged                                                                                 | NA      |  |
|                                                                                                                          |         |  |
|                                                                                                                          |         |  |

### Operations and Maintenance

|                                                                                                |                |      |
|------------------------------------------------------------------------------------------------|----------------|------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | 1 time / year  |      |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | NA             |      |
| Total number of structures cleaned                                                             | 1              |      |
| Storm drain cleaned                                                                            | 0              |      |
| Qty. of screenings/debris removed from storm sewer infrastructure                              | (lbs. or tons) |      |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) | Yes            | 5 cy |
| Cost of screenings disposal                                                                    | (\$ TBD)       |      |

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|                                                                                      |                     |
|--------------------------------------------------------------------------------------|---------------------|
| Average frequency of street sweeping (non-commercial/non-arterial streets)           | NA                  |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | 0/yr contract       |
| Qty. of sand/debris collected by sweeping                                            | (lbs. or tons)      |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                | (location)          |
| Cost of sweepings disposal                                                           | (\$)                |
| Vacuum street sweepers purchased/leased                                              | Contracted Services |
| Vacuum street sweepers specified in contracts                                        | NO                  |
|                                                                                      |                     |
|                                                                                      |                     |

|                                                                                        |    |
|----------------------------------------------------------------------------------------|----|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) |    |
| ▪ Fertilizers                                                                          | NA |
| ▪ Herbicides                                                                           | NA |
| ▪ Pesticides                                                                           | NA |

|                                                          |                                                                                                    |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Anti-/De-Icing products and ratios                       | 10% NaCl<br>0% CaCl <sub>2</sub><br>0% MgCl <sub>2</sub><br>0% CMA<br>0% Kac<br>0% KCl<br>90% Sand |
| Pre-wetting techniques utilized                          | -                                                                                                  |
| Manual control spreaders used                            | -                                                                                                  |
| Automatic or Zero-velocity spreaders used                | -                                                                                                  |
| Estimated net reduction in typical year salt application | TBD                                                                                                |
| Salt pile(s) covered in storage shed(s)                  | No                                                                                                 |
| Storage shed(s) in design or under construction          | NA                                                                                                 |
|                                                          | No storage                                                                                         |