Municipality/Organization: Wrentham Developmental Center

EPA NPDES Permit Number: MAR042030

MassDEP Transmittal Number: W- 035610

Annual Report Number & Reporting Period: April 1, 2007 – March 31, 2008

5/1/2008

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2008)

Part I. General Information

Contact Person: Stephen Legendre Title: Director of Operations

Telephone #: 508-384-1600, ext.1656 Email: Steve.Legendre@state.ma.us

Mailing Address: Wrentham Developmental center, P.O. Box 144, Wrentham, MA 02093

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: Stephen Legendre

Printed Name: Stephen Legendre

Title: Director of Operations

Date: April 18, 2008

Wrentham Developmental Center: Permit # MAR042030, DEP Transmittal # W035610, Permit Year 5, 2007-2008

Part II. Self-Assessment: The Wrentham Developmental Center has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
1-01	Fact Sheet in newsletter	Steve Legendre/ Director of Operations	Awareness / feedback	Fact Sheet in newsletter distributed to all buildings and employees of facility	Maintain annual distribution of Storm Water Fact Sheet in newsletter, CROSSROADS
Revised					
1-02	Notice posted in food and cleaning services buildings	Steve Legendre/ Director of Operations	Awareness of proper disposal practices	Posters remain in visually conspicuous areas for the employees of these subcontracted service providers	Maintain storm water posters in designated areas
Revised					
1-03	Present a storm water fact sheet at each new employee orientation	Steve Legendre/ Director of Operations	Awareness / improved work habits	Fact sheet distributed during each employee orientation	Continue to distribute fact sheet at each orientation to promote basic awareness among all new employees of SWMP, applicable BMPs, and participation opportunities
Revised					
1-04	Establish storm water education center in Operations Dept. Office	Steve Legendre/ Director of Operations	Availability of educational materials and SWMP reference materials	Storm Water education center established in Operations Dept. Office	Maintain and improve storm water educational materials center
Revised					

Wrentham Developmental Center: Permit # MAR042030, DEP Transmittal # W035610, Permit Year 5, 2007-2008

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
2-01	Recruit designated person per shift; food and cleaning services	Steve Legendre/ Director of Operations	Oversight with increased awareness	Annual Stormwater and Spill Prevention Meeting of all department heads, supervisory administrative personnel, food services manager, and cleaning services manager. (sign-in required)	Continue to administer Annual Storm Water and Spill Prevention Meeting.
Revised					
2-02	Request volunteers per employee Unit per shift through newsletter	Steve Legendre/ Director of Operations	Oversight with increased awareness	Requests made by supervisory personnel attending Annual Storm Water Meeting	Continue to request volunteers per Unit/Dept. per shift be watchful for proper disposal practices.
Revised	*Request volunteers per Unit per shift by supervisory personnel*	Steve Legendre/ Director of Operations	Oversight with increased awareness		
2-03	Security Training/ Awareness	Steve Legendre/ Director of Operations	Reporting of incidents	Security supervisor attendance at Annual Storm Water / Spill Prevention Meeting. Establish procedure for the reporting and response to incidents	Security supervisor to attend Annual Storm Water Meeting and maintain documentation of incidents as needed
Revised					
2-04	Training for Transport, Grounds, Paint, and all Maintenance Depts.	Steve Legendre/ Director of Operations	Awareness/improved work habits	Tailgate meetings to promote proper work habits as related to SWMP	Tailgate meetings to promote proper work habits as related to SWMP
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
3-01	Regularly inspect outfalls for dry weather discharges	Steve Legendre/ Director of Operations	Early detection and correction	Continued monitoring of outfalls No dry weather discharges detected	Continued monitoring of outfalls
Revised					
3-02	Use test kits for pH, nitrate, phosphate, during severe wet weather	Steve Legendre/ Director of Operations	Early detection and correction	Annual testing conducted during heavy rainfall event on 5-18-07. Tests seem to indicate normal outfall conditions.	Continue sampling during severe wet weather event each year
Revised					
3-03	Spill Response Plan	Steve Legendre/ Director of Operations	Spill Control Kit(s) on site; E.Q Northeast for clean-up and Emergency Response	Annual Strom Water / Spill Prevention Meeting did address Spill Response Plan. Additional spill control kits in each maintenance shop.	Continue to administer Annual Storm Water/ Spill Prevention (and response) Meeting with required attendance by designated supervisory personnel. Maintain spill control kits at appropriate locations.
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
4-01	Insert standard construction controls and penalties into contract documentation	Steve Legendre/ Director of Operations	Erosion, sediment, and waste control	Standard construction controls maintained in contract documentation	Standard construction controls to be maintained in contract documentation
Revised					
4-02	Perform site inspections and impose penalties as required	Steve Legendre/ Director of Operations	Erosion, sediment, and waste control	Site inspections performed as required	Site inspections performed as required
Revised					

4a. Additions

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
5-01	Standard post-construction controls and penalties into contract documentation	Steve Legendre/ Director of Operations	Erosion, sediment, and waste control. Soil depth restored.	Standard post-construction controls maintained in contract documentation	Standard construction controls to be maintained in contract documentation
Revised					

5a. Additions

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
6-01	Contract for catch basin cleaning, inspection and repair	Steve Legendre/ Director of Operations	Proper operation of storm water collection system	Contract activities satisfied	Contract activities to be satisfied
Revised					
6-02	Town of Wrentham to clean public roads and some parking areas	Steve Legendre/ Director of Operations	Proper operation of system with reduction of sand in catch basins	Town of Wrentham cleaning/sweeping of public roadways and certain parking areas completed	Town of Wrentham to cleaning/sweep public roadways and certain parking areas
Revised					
6-03	Contract for remaining parking areas to be cleaned	Steve Legendre/ Director of Operations	Proper operation of system with reduction of sand in catch basins	Contract for cleaning/sweeping of remaining parking areas completed	Contract to continue for cleaning/sweeping of remaining parking areas
Revised					
6-04	Limit salt use; store salt/sand mixtures under roofed area	Steve Legendre/ Director of Operations	Limit salt to water table	Salt use controlled. Salt/sand mixture stored under roofed area.	Salt use controlled. Salt/sand mixture to be stored under roofed area
Revised					
6-05	Inspect and clean trash and debris from roadsides and culverts	Steve Legendre/ Director of Operations	Proper operation of storm-drain system	Regular inspection and cleaning of debris from roadside and culverts completed.	Regular inspection and cleaning of debris from roadside and culverts completed.
Revised					

6a. Additions

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
7-01	Maintain status of all discharges being "Allowable"	Steve Legendre/ Director of Operations	No significant nutrient or sediment loading	All discharges remain "Allowable" No illicit discharges detected	All discharges maintained as "Allowable." Continue to monitor for illicit discharges
Revised					
7-02	Non-Storm Water Discharges not a significant contributor of pollutants				No direct receiving waters where TMDL is applicable
Revised					

7a. Additions

7b. WLA Assessment: Not Applicable

Part IV. Summary of Information Collected and Analyzed

Water quality testing was conducted on 5-18-07 during a heavy rainfall event. Testing results for pH, Ammonia Nitrogen, (copper), and Phosphate are attached. All testing is done at our waste water treatment plant by a certified operator in accordance with NPDES and Mass DEP testing standards.

Part V. Program Outputs & Accomplishments (OPTIONAL)
(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	n
Annual program budget/expenditures **	($)	$15,031.00
Total program expenditures since beginning of permit coverage	($)	$73,079.00
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Gen Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	n/a
Stormwater management committee established	(y/n)	y
Stream teams established or supported	(# or y/n)	n
Shoreline clean-up participation or quantity of shoreline miles cleaned ** -- **Meadow Brook--**	(y/n or mi.)	0.15 (all)
Shoreline cleaned since beginning of permit coverage	(mi.)	0.15
Household Hazardous Waste Collection Days		
▪ days sponsored ** **DEP oversight of hazardous waste collection at facility**	(#)	n/a
▪ community participation **	(# or %)	n/a
▪ material collected **	(tons or gal)	unknown
School curricula implemented	(y/n)	n/a

Wrentham Developmental Center: Permit # MAR042030, DEP Transmittal # W035610, Permit Year 5, 2007-2008

Legal/Regulatory	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X") ****state contracts specify**		**standard**	**construction**	**controls**	
▪ Illicit Discharge Detection & Elimination	X				
▪ Erosion & Sediment Control	X				
▪ Post-Development Stormwater Management	X				
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					

Mapping and Illicit Discharges	**(Preferred Units)**	**Response**
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	10
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	98
Mapping method(s)		
▪ Paper/Mylar	(%)	98
▪ CADD	(%)	98
▪ GIS	(%)	0
Outfalls inspected/screened ** **Note: inspected only / no outfalls screened**	(# or %)	10
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	10
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed ** Note: completed and maintained since Phase 1	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	98
% of population on septic systems	(%)	1

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Construction	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	0
Site inspections completed **	(# or %)	0
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and $)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management		
Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	0
Site inspections (for proper BMP installation & operation) completed **	(# or %)	0
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	0
Low-impact development (LID) practices permitted and encouraged	(y/n)	0

Operations and Maintenance		
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	82
Qty. of storm drain cleaned **	(%, LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	10lbs
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost

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Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	$1,062.00
• Hourly or per basin contract rate **	($/hr or $ per basin)	$12.95 per basin
• Disposal cost**	($)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	n
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vactor **	(%)	0

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	1
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	unknown
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	$1,640.00
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	n/a
• Disposal cost**	($)	0
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	0
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	n
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

Wrentham Developmental Center: Permit # MAR042030, DEP Transmittal # W035610, Permit Year 5, 2007-2008

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	2%
▪ Herbicides	(lbs. or %)	n/a
▪ Pesticides	(lbs. or %)	n/a
Integrated Pest Management (IPM) Practices Implemented	(y/n)	n

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	23%
	% $CaCl_2$	0
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% $MgCl_2$	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	77%
Pre-wetting techniques utilized **	(y/n or %)	n
Manual control spreaders used **	(y/n or %)	y
Zero-velocity spreaders used **	(y/n or %)	n
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	0
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	0
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	0
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	y

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Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	0
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	0
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	0

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

BRP WM 08A NPDES Stormwater General Permit Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

F. Example Storm Water Management Program TIME FRAMES

Transmittal Number WO35610

Facility ID (if known)

Page ____ of 1

	PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE				PERMIT YEAR FOUR				PERMIT YEAR FIVE				
BMP ID #	Spring 03	Summer 03	Fall 03	Winter 03-04	Spring 04	Summer 04	Fall 04	Winter 04-05	Spring 05	Summer 05	Fall 05	Winter 05-06	Spring 06	Summer 06	Fall 06	Winter 06-07	Spring 07	Summer 07	Fall 07	Winter 07-08	Next Permit
1 01	X		X		X		X		X				X				X				X
1 02							X		X				X				X				X
1 03																					X
1 04																					X
2 01							X		X				X				X				X
2 02							X		X				X				X				X
2 03							X		X				X				X				X
2 04							X		X				X				X				X
3 01																					X
3 02									X				X				X				X
3 03																					X
4 01																					X
4 02																					X
5 01																					X
6 01	X				X				X				X				X				X
6 02					X				X				X				X				X
6 03									X				X				X				X
6 04																					X
6 05																					X

STORM WATER OUTFALLS 5/18/07

EWALL - #1 - #2

	EWALL	MMH #1	MMH #2
P.H.	6.22	5.88	5.84
PHosphate	0.01	0.08	0.06
Copper	0.06	0.02	0.02
AMMONIA AS NITROGEN	0.33	0.27	0.39
NITROGEN NITRATE	0.15	0.0	0.32
Temp C	19.4	19.4	19.4

P.H.

WORKSEET

Sample Date 5/18/07 Time 7:50 BY SL

Analysis Date 5/18/07 Time 8:30 By [illegible]

Calibration Check ✓ Sample type (G)

	P.H.	Temp
Infuent		
E WALT ~~Aeration~~ #1	6.22	19.3
# 1 ~~Secondary~~	5.88	19.4
# 2 ~~Effluent~~	5.84	19.4
Downstream		

Comments: STORM WATERS

PHOSPHATE PROCEDURE - ASCORBIC ACID METHOD

Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.

PHOSPHATE

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 mL line with sample water. Cap and wipe dry.

3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the sample blank or zero.

4. Push the **READ** button to turn the meter on. Press the **ZERO** button and hold it for 2 seconds until bLA is displayed. Release the button to take a blank reading (0.0 ppm).

5. Remove tube from colorimeter. Use 1.0 mL pipet (0354) to add 1.0 mL of *Phosphate Acid Reagent (V-6282). Cap and mix.

6. Use the 0.1 g spoon (0699) to add one measure of *Phosphate Reducing Reagent (V-6283).

7. Cap and shake until powder dissolves. Wait 5 minutes for full color development. Solution will turn blue if phosphates are present. Wipe tube dry.

8. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the **READ** button. Record results as ppm Orthophosphate.

PHOSPHATE TEST

WORKSHEET

Sample Date 5/18/07 Time 7:50 By SL

Sample Location Ewall #1 #2 Temp 19.4

24 Hour Compost Sample (G) Other

Analysis Date 5/18/07 Time 9:00 By

Test Results Ewall #1 #2 (0.01) (0.08) (0.06) Duplicate Results

Comments: Storm waters

Volume Used: 10 mL sample used

Calculations

AMMONIA NITROGEN TEST PROCEDURE: NESSLER METHOD

Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.

AMMONIA NITROGEN

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 mL line with sample water. Cap and wipe dry.

3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the blank or zero.

4. Push the **READ** button to turn the meter on. Press the **ZERO** button and hold it for 2 seconds until *BLA* is displayed. Release the bucton to take a blank reading (0.0 ppm).

5. Remove tube from colorimeter. Add 8 drops of Ammonia Nitrogen Reagent #1 (V-4797). Cap and mix.

6. Use 1.0 mL pipet (0354) to add 1.0 mL of *Ammonia Nitrogen Reagent #2 (V-4798).

7. Cap and invert to mix. Wait 5 minutes for full color development. Wipe tube dry.

8. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the **READ** button. Record results as ppm Ammonia Nitrogen (NH_3-N).

AMMONIA NITROGEN TEST

WORKSHEET

Sample Date 5/18/07 Time 7:50 By SL

Sample Location Ewall #1 #2 Temp 19.4

24 Hour Compost Sample (G) Other

Analysis Date 5/18/07 Time 9:20 By

Test Results Ewall #1 #2 (0.33) (0.27) (0.39) Duplicate Results

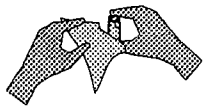
Comments: STORM WATERS

Volume Used: 10 mL sample

Calculations

COPPER TEST PROCEDURE - DIETHYLDITHIOCARBAMATE

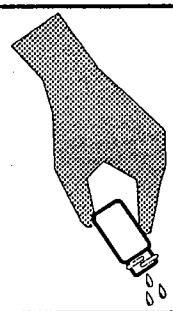
Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.



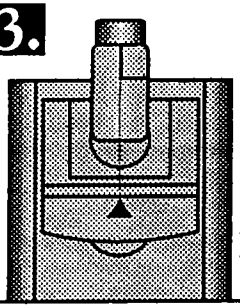
COPPER

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 mL line with sample water. Cap and wipe dry.



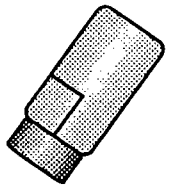
3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the blank or zero.



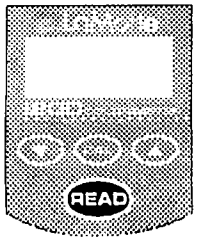
4. Push the **READ** button to turn the meter on. Press the **ZERO** button and hold it for 2 seconds until *bLA* is displayed. Release the button to take a blank reading (0.0 ppm).

5. Remove tube from colorimeter. Add 5 drops of *Copper 1 (6446).

6. Cap and invert to mix. Wipe tube dry.



7. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the **READ** button. Record results as ppm Copper.



COPPER TEST

WORKSHEET

Sample Date 5/18/07 Time 7:50 By SL

Sample Location Ewall #1 #2 Temp 19.4

24 Hour Compost Sample (G) Other

Analysis Date 5/18/07 Time 9:10 By M

Test Results Ewall #1 #2 (0.06) (0.02) (0.02) Duplicate Results

Comments: STORM WATERS

Volume Used: 10 mL

Calculations

PROCEDURE

☑ NOTE: Place Dispenser Cap (0692) on *Mixed Acid Reagent (V-6278). Save this cap for refill reagents.

1. Press and hold **ON** button until colorimeter turns on.
2. Press **ENTER** to start.
3. Press **ENTER** to select TESTING MENU.
4. Select ALL TESTS (or another sequence containing 64 Nitrate-N LR) from TESTING MENU.
5. Scroll to and select 64 Nitrate-N LR from menu.
6. Rinse a clean tube (0290) with sample water. Fill to 10 mL line with sample.
7. Insert tube into chamber, close lid and select SCAN BLANK.
8. Remove tube from colorimeter and pour off 5 mL into graduated cylinder or similar. Discard the remaining sample.
9. Pour the 5mL sample from a graduated cylinder or similar into the tube. Use the graduated cylinder or similar to measure 5 mL of *Mixed Acid Reagent (V-6278) and add to tube. Cap and mix. Wait 2 minutes before proceeding to Step 10.
10. Use the 0.1 g spoon (0699) to add two measures of *Nitrate Reducing Reagent (V-6279). Cap.
11. Hold tube by index finger and thumb and mix by inverting approximately 50-60 times a minute for four minutes. Wait 10 minutes for maximum color development.
    ☑ NOTE: At end of waiting period an undissolved portion of Nitrate Reducing Reagent may remain in bottom of the tube without affecting results.
12. At the end of the 10 minute waiting period, mix, insert tube into chamber, close lid and select SCAN SAMPLE. Record result.
13. Press **OFF** button to turn colorimeter off or press **EXIT** button to exit to a previous menu or make another menu selection.

☑ NOTE: For best possible results, a reagent blank should be determined to account for any contribution to the test result by the reagent system. To determine the reagent blank, follow the above test procedure to scan a distilled or deionized water blank. Then follow the above procedure to perform the test on a distilled or deionized water sample. This test result is the reagent blank. Subtract the reagent blank from all subsequent test results of unknown samples. It is necessary to determine the reagent blank only when a new lot number of reagents are obtained.

To convert Nitrate Nitrogen (NO_3–N) results to ppm Nitrate (NO_3), multiply by 4.4.

NITRATE
WORK SHEET

Sample Date 5/15/07 Time 7:50 By SL

Sample Location E wall #1 #2 Temp 18.4

24 Hour Compost Sample (G) Other

Analysis Date 5/15/07 Time 9:40 By M

Test Results E wall #1 #2 (0.15) (0.0) (0.32) Duplicate Results

Comments: Storm waters

Volume Used:

Calculations

The Commonwealth of Massachusetts
Executive Office of Health & Human Services
Department of Mental Retardation
Wrentham Developmental Center
P.O. Box 144
Wrentham, MA 02093
Tel. (508) 384-3114 Fax (508) 384-1619

Deval L. Patrick
Governor

Timothy P. Murray
Lieutenant Governor

JudyAnn Bigby, M.D.
Secretary

Elin M. Howe
Commissioner

Diane Enochs
Assistant Commissioner
Facilities Management

Nicholas J. D'Aluisio
Facility Director

April 18, 2008

Ms. Ann Herrick
U.S. Environmental Protection Agency
1 Congress Street - Suite 1100 (CIP)
Boston, MA 02114-2023

Dear Ms.Herrick:

RE: <u>Annual Storm Water Report, April 1, 2007 to March 31, 2008</u>
<u>NPDES General Permit for Storm Water Discharges from Small MS4s</u>
<u>Permit # MAR042030; MA DEP BRP WM 08A NOI Transmittal # W035610</u>
<u>Wrentham Developmental Center, Wrentham, MA</u>

In compliance with the NPDES General Permit for Storm Water Discharges from Small MS4s, the Wrentham Developmental Center (WDC) is submitting the 2007-2008 Annual Storm Water Report.

If you have any questions, please feel free to contact me at 508-384-1656.

Sincerely,

Stephen Legendre
Director of Operations

Cc: Nicholas J. D'Aluisio, DMR, WDC
Brian Sullivan, DMR, WDC
Paul Beaton, DMR, Boston
Thelma Murphy, EPA, Boston
Fred Civian, DEP, Boston