Municipality/Organization:	City of Lawrence	
EPA NPDES Permit Number	MA041201	
MassDEP Transmittal Numb	r: W-036114	
Annual Report Number Y & Reporting Period:	ar 6 May 1, 2008 – April 30, 2009	

NPDES PII Small MS4 General Permit Annual Report

(Due: May 1, 2010)

Part I. General Information

Contact Person	n: John R Isensee	Title: Acting Director of Public Works
Telephone #:	978-620-3090	Email: jisensee@cityoflawrence.com
Mailing Addre	ss:200 Common Street, Lav	vrence Ma. 01841

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: A Reco	
Printed Name: John R Isensee	
Title: Acting Director of Public Works	_
Date:	

Part II. Self-Assessment
The City of Lawrence 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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-A Revised	Classroom Education	Recycling Coordinator	Raise awareness starting with children	Ground Works Lawrence continues to educate the public through various programs	Continue and increase programs
1-B Revised	Educational Displays	Recycling Coordinator	Keep awareness up	Information sent out with water bills	Upgrade city web site with more information
1-C Revised	Newspaper Articles	DPW	Clean problem spots and reduce pollution	Various groups organize yearly cleanups	Continue to give support to these groups with gloves, tools, and dumpsters
1-D Revised	Local Cable Computer Network	IT Dept	Another source to disseminate infor.	Improve on the existing information	Create a scrolling program that replays all day
1.E Revised	Mailings <i>Privatized</i>			Non profit agencies address quality of life issues	No city produced mailing planned
Revised					

Transfer of the control of the contr	

2. Public Involvement and Participation

BMP D	BMP Description	Responsible Dept.Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-A Revised Inspection	Community Hotline Inspectional Services	Insp. Service	Public involvement	Hidden camera placed where illegal activity is reported by residents	Continue same
Neighb	Neighborhood meetings	DPW	Interact with residents so they understand	Very well organized and active neighborhood groups supply information to the city	Continue same
1 1 1 1 1					

2a. Additions

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3. Illicit Discharge Detection and Elimination

Planned Activities	No planned activity		I/I Study in Progress									
Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Mapping Completed		2 found and eliminated							:		
Measurable Goal(s)								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				f
Responsible Dept./Person Name			Sewer Dept			1						
BMP Description	Mapping Outfalls	The state of the s	Illicit Discharges	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	į					Lagaritat et agraphic construction of the cons		
BMP D#	3-A	Revised	٠ <u>٠</u>	Revised		Revised	1 1 1 1 1	Revised	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Revised	1	Revised .

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4. Construction Site Stormwater Runoff Control

ering Improve runoff quality	M M	BMP Description	Responsible Dept/Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7	Planned Activities
Engineering Improve runoff quality Plans are coming with run off measures already worked into them			Маше	78	(Reliance on non-municipal pariners indicated, if any)	
	Site Plan	Review	Engineering	Improve runoff quality	Plans are coming with run off measures already worked into them	Continue to promote recharge
	: : : : : :		1 1 1 1 1 1 1 1 1 1 2 4 6 6 6 6 7 7	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		
	4 4 1 1 1 1 1 1	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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5. Post-Construction Stormwater Management in New Development and Redevelopment

Planned Activities	Continue same	Continue same				
Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	atically incorporate harge	Measures are in place as show on approved plans				
Measurable Goal(s)	Control measures on all plans where applicable	Compliance with plans				
Responsible Dept./Person Name	Engineering	Building Insp.		ì		
BMP Description	Design Standards	Final Inspection				
BMP ID#	5-A Revised	5-B Revised	Revised	Revised	Revised	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 7 (Reliance on non-municipal partners	Planned Activities
6-A	Employee Training	DPW	Educate employees	Materials stored and handled properly	Upgrade procedures as needed
Revised					
6-B	Catch Basin Cleaning	DPW	Improve system functioning	Cleaning is daily except in winter months	Continue schedule
Revised	F]	1		
0 - 0	Street Sweeping	DPW	Reduce load on system	Spring, summer, fall sweeping of streets with vacuum machine collecting	Continue and revise as needed
Revised	1	1	1	loose litter on main roads	
Revised					
Revised					
Revised			4 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

6a. Additions

The state of the s	100,000,000	
	TWO IN THE RESERVE TO	

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

Planned Activities						
Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)						
Measurable Goal(s)						
Responsible Dept./Person Name						
BMP Description						
BMP ID#	Revised	Revised	Revised	Revised	Revised	Revised

7a. Additions

The state of the s	

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

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, 2009 through March 31, 2010)

Programmatic

The state of the s	(Freierred Units)	uts) Kesponse
Stormwater management position created/staffed	(y/n)	Z
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(/0 == #)	7077	Г
and a fight of the fight of the first of the	(a/ TO #)	0270	
Stormwater management committee established	(n/v)	Z	
Stream teams established or supported	(# or v/n)	>	1
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(v/n or mi.)	×	7
Shoreline cleaned since beginning of permit coverage	(mi)	1mile/vr	Т
Household Hazardous Waste Collection Days	(,,,,,,,,)	t transfer Ja	1
■ days sponsored **	(#)	13	Τ.
community participation **	(# or %)	400	
material collected **	(tons or gal)	See below:	
School curricula implemented	(mg to cure)	N CLOW	\top
40 tires, 75 crt, 250 gal paint, 25 propane tanks	(7,47)	N.1	
			-

Legal/Regulatory

Regulatory Mechanism Status (indicate with "X") Illicit Discharge Detection & Elimination Erosion & Sediment Control Post-Development Stormwater Management Accompanying Regulation Status (indicate with "X")	In Place Prior to Phase II	Reviewing Existing Authorities X X X X X X	Drafted	Draft in Review	Adopted
■ Erosion & Sediment Control		×			
 Post-Development Stormwater Management 		×			

Mapping and Illicit Discharges

THE PARTY OF THE P	(Preferred Uni	(Preferred Units) Response	
Outfall mapping complete	(%)	100%	
Estimated or actual number of outfalls	(#)	106	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%	
Mapping method(s)			
■ Paper/Mylar	(%)	100	
• CADD	(%)		
GIS	(%)		
Outfalls inspected/screened **	(# Or %)	2	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%	
Illicit discharges identified **	(#)	2000	
Illicit discharges identified (Since beginning of permit coverage)	(#)	2	
Illicit connections removed **	(#); and	2	
The state of the s	(est. gpd)		
Illicit connections removed (Since beginning of permit coverage)	(#); and	2	
	(est. gpd)		
% of population on sewer	(%)	100%	
% of population on septic systems	(%)	0	

Construction

	(Preferred Units) Response	s) Response
Number of construction starts (>1-acre) **	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(# or %)	100
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-	8	100
construction stormwater control		
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Z
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

The second state of the se			
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/yr	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	2/yr	
Oty of structures cleaned **	(#)	1600	
Qty. of storm drain cleaned **	(%, LF or		
	mi.)		
Oty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons) 500 Ton	500 Ton	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill	

The second control of		
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
 Hourly or per basin contract rate ** 	(\$/hr or \$	
	per basin)	
• Disposal cost**	(\$)	\$50,000
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1 owned
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(n/v)	
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vactor **	(%)	

	THE PARTY PARTY OF THE PARTY OF	(Preferre	d Units	Preferred Units) Response
Avera	Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	(yr)	Wkly/8 mo.
Avera	Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	(rk)	Daily/8 mo.
Oty. o	Qty. of sand/debris collected by sweeping **	(lbs. or	tons)	(lbs. or tons) 1,000 Ton
Dispo	Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	(II)	Landfill
Annus	Annual Sweeping Costs			
6	 Annual budget/expenditure (labor & equipment)** 	(\$)		
6	Hourly or lane mile contract rate **	(\$/hr. or)r	
		In mi.)		
в	Disposal cost**	(\$)		\$50,000
Sweet	Sweeping Equipment			
6	Rotary brush street sweepers owned/leased	(#)		3 owned
8	Vacuum street sweepers owned/leased	(#)		
9	Vacuum street sweepers specified in contracts	(y/n)		
6	% Roads swept with rotary brush sweepers **	%		100
0	% Roads swept with vacuum sweepers **	%		
		= .		

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)

Fertilizers	(Ibs. or %)	3000
# Herbicides	(lbs. or %)	N/A
■ Pesticides	(Ibs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	¥
	(Preferred Units)) Response
Average Ratio of Anti-/De-Icing products used **	% NaCl % CaCl	1
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% MgCl ₂ % CMA	i i i i i i i i i i i i i i i i i i i
	% Kac % KCl	
	% Sand	25%
Pre-wetting techniques utilized **	(y/n or %)	Z
Manual control spreaders used **	(y/n or %)	X
Zero-velocity spreaders used **	(y/n or %)	Y
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.	0
	or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	Z
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	¥

Water Supply Protection

CL	1 11	
Storm water outraits to public water supplies eliminated or relocated	# or y/n	Z
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or v/n	N/A
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N/A

Attachment No. 3

Statement of Certification

I declare under penalty of perjury that I am authorized to respond on behalf of the City of Lawrence. I certify that the foregoing responses and Information submitted were prepared under my direction or supervision and that I have personal knowledge of all matters set forth in the responses and the accompanying Information. I certify that the responses are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

(Signature)

Afon DRW. DRECTOR

(Date)

Municipality/Organization:	City of Lawrence
EPA NPDES Permit Number	·: MA041201
MassDEP Transmittal Numb	er: W-036114
Annual Report Number Y	ear 7 April 1, 2009 – March 31, 2010

NPDES PII Small MS4 General Permit **Annual Report**

(Dr	ue: May 1, 2010)
Part I. General Information	
Contact Person: John R Isensee	Title: Acting Director of Public Works
Telephone #: 978-620-3090	Email: jisensee@cityoflawrence.com
Mailing Address:200 Common Street,	Lawrence Ma. 01841
Certification:	
direction or supervision in accordance properly gather and evaluate the inform	locument and all attachments were prepared under my with a system designed to assure that qualified personnel nation submitted. Based on my inquiry of the person or se persons directly responsible for gathering the

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: Ala Q See	
Printed Name: John R Isensee	
Title: Acting Director of Public Works	
Date:	

Part II. Self-Assessment
The City of Lawrence 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

Revised	1-E Revised	1-D Revised	1-C Revised	1-B Revised	1-A Revised	BMP D#
	Mailings Privatized	Local Cable Computer Network	Newspaper Articles	Educational Displays	Classroom Education	BMP Description
		II Dept	DPW	Recycling Coordinator	Recycling Coordinator	Responsible Dept./Person Name
		Another source to disseminate infor.	Clean problem spots and reduce pollution	Keep awareness up	Raise awareness starting with children	Measurable Goal(s)
	Non profit agencies address quality of life issues	Improve on the existing information	Various groups organize yearly cleanups	Information sent out with water bills	Ground Works Lawrence continues to educate the public through various programs	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)
	No city produced mailing planned	Create a scrolling program that replays all day	Continue to give support to these groups with gloves, tools, and dumpsters	Upgrade city web site with more information	Continue and increase programs	Planned Activities

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2. Public Involvement and Participation

Revised	Revised	Revised	Revised		Revised	2-В	Revised	2-A	Ð#	BMP
						Neighborhood meetings	Inspectional Services	Community Hotline		BMP Description
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			DPW	Insp. Service		Dept/Person Name	Responsible
				The state of the s		Interact with residents so they understand	Public involvement			Measurable Goal(s)
				t deliberation property and the second property of the second proper	information to the city	Very well organized and active neighborhood groups supply	,	Hidden camera placed where illegal activity is reported by residents	Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Progress on Goal(s) -
						Continue same		Continue same	A ARAMAN CA ANGERT ANNO	Planned Activities

3. Illicit Discharge Detection and Elimination

	Revised	; ; ; ; ;	Revised	1	Revised		Revised		Revised	2-B	Revised	>	#	BMP
-						b.				Illicit Discharges		Mapping Outfalls		BMP Description
										Sewer Dept			Dept/Person Name	Responsible
														Measurable Goal(s)
										2 found and eliminated		Mapping Completed	Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Progress on Goal(s) -
		The state of the s				and and the second seco		The second secon		I/I Study in Progress		No planned activity		Planned Activities

	-	

4. Construction Site Stormwater Runoff Control

Revised	Revised	Revised	Revised	Revised	Revised	4-A	D#
						Site Plan Review	BMP Description
						Engineering	Responsible Dept/Person Name
						Improve runoff quality	Measurable Goal(s)
	•					Plans are coming with run off measures already worked into them	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)
						Continue to promote recharge	Planned Activities

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

Revised	Revised	Revised	Revised	Revised	5-B	Revised	5-A	BMP #
					Final Inspection		Design Standards	BMP Description
				Building Insp.			Engineering	Responsible Dept/Person Name
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Compliance with plans		Control measures on all plans where applicable	Measurable Goal(s)
•	1	•			Measures are in place as show on approved plans		Designers automatically incorporate treatment and recharge	Progress on Goal(s) - Permit Year 7 (Reliance on non-municipal partners indicated, if any)
					Continue same		Continue same	Planned Activities

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6. Pollution Prevention and Good Housekeeping in Municipal Operations

Revised	Revised	Revised	6-C Revised	6-B Revised	Revised	6-A	ID#
			Street Sweeping	Catch Basin Cleaning		Employee Training	BMP Description
			DPW	Mdd		DPW	Responsible Dept./Person Name
			Reduce load on system	Improve system functioning		Educate employees	Measurable Goal(s)
			Spring, summer, fall sweeping of streets with vacuum machine collecting loose litter on main roads	Cleaning is daily except in winter months	, T	Materials stored and handled properly	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)
			Continue and revise as needed	Continue schedule	A PARAMETER OF A PARAMETER OF THE PARAME	Unorade procedures as peeded	Planned Activities

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

Revised	Revised	Revised	Revised	Revised	Revised	BMP ID#
						BMP Description
						Responsible Dept/Person Name
						Measurable Goal(s)
						Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)
						Planned Activities

7a. Additions

7b. WLA Assessment

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, 2009 through March 31, 2010)

Programmatic

A. A. Cigi, A seaton account on the	(Preferred Units) Response	s) Response
Stormwater management position created/staffed	(y/n)	Z
A serial serial root/avranditires **	(\$)	
Utilitian by Start Care on Care of the Car	>	
Total program expenditures since beginning of permit coverage	(3)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		
	-	

Education, Involvement, and Training

	777	1301
Estimated number of property owners reached by education program(s)	(# OI %)	05%
	(y/n)	Z
	(# or y/n)	Y
Intity of shoreline miles cleaned **	(y/n or mi.)	Y
	(mi.)	lmile/yr
Household Hazardous Waste Collection Days		
days sponsored **	(#)	12
community participation **	(# or %)	400
material collected **	(tons or gal)	See below
Ž	(y/n)	Z
40 tires, 75 crt, 250 gal paint, 25 propane tanks		

Legal/Regulatory

								7		
 Post-Development Stormwater Management 	Erosion & Sediment Control	 Illicit Discharge Detection & Elimination 	Accompanying Regulation Status (indicate with "X")	Post-Development Stormwater Management	Erosion & Sediment Control	 Illicit Discharge Detection & Elimination 	Regulatory Mechanism Status (indicate with "X")			
								Phase II	Prior to	In Place
X	X	X		X	×	×		Authorities Drafted	Existing	Reviewing
								Review	庿.	Draft
							3	Adopted		

Mapping and Illicit Discharges

	(Preferred Units)	ts) Response
Outfall mapping complete	(%)	jament
Estimated or actual number of outfalls	(#)	106
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
■ Paper/Mylar	(%)	100
* CADD	(%)	
a GIS	(%)	
Outfalls inspected/screened **	(# or %)	2
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	2
Illicit discharges identified (Since beginning of permit coverage)	(#)	2
Illicit connections removed **	(#); and	2
	(est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and	2
	(est. gpd)	
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0

Construction

The second secon	Complaints/concerns received from public **	Fines collected **	lickets/Stop work orders issued **	Site inspections completed **	Estimated percentage of construction starts adequately regulated for erosion and sediment control **	Number of construction starts (>1-acre) **	
-	(#)	(# and \$)	(# or %)	(# or %)	(%)	(#)	Preferred Units) Response
	0	0	0	100	100	0	ts) Response

Post-Development Stormwater Management

	Low-impact development (LID) practices permitted and encouraged	BMP maintenance required through covenants, escrow, deed restrictions, etc.	Site inspections (for proper BMP installation & operation) completed **	construction stormwater control	Estimated percentage of development/redevelopment projects adequately regulated for post-	
	(y/n)	(y/n)	(# or %)		(%)	
	Y	N	100		100	

Operations and Maintenance

A viergre frequency of catch basin cleaning (non-commercial/non-arternal streets)	(times/yr)	l/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	2/yr
Qty of structures cleaned **	(#)	1600
Qty. of storm drain cleaned **	(%, LF or	
	mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	500 Ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

% Structures cleaned with vactor **	• % Structures cleaned with clam shells **	Vacuum trucks specified in contracts	Vacuum truck(s) owned/leased	Clam shell truck(s) owned/leased	Cleaning Equipment	Disposal cost**		 Hourly or per basin contract rate ** 	 Annual budget/expenditure (labor & equipment)** 	Basin Cleaning Costs
(%)	(%)	(y/n)	(#)	(#)		(\$)	per basin)	(\$/hr or \$	(\$)	
	100			1 owned		\$50,000				

 % Roads swept with vacuum sweepers ** 	 % Roads swept with rotary brush sweepers ** 	Vacuum street sweepers specified in contracts	 Vacuum street sweepers owned/leased 	 Rotary brush street sweepers owned/leased 	Sweeping Equipment	Disposal cost**		 Hourly or lane mile contract rate ** 	 Annual budget/expenditure (labor & equipment)** 	Annual Sweeping Costs	Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	Qty. of sand/debris collected by sweeping **	Average frequency of street sweeping (commercial/arterial or other critical streets) **	Average frequency of street sweeping (non-commercial/non-arterial streets) **	
%	%	(y/n)	(#)	(#)		(\$)	ln mi.)	(\$/hr. or	(\$)		(location)	(lbs. or tons)	(times/yr)	(times/yr)	(Preferred Units) Response
	100			3 owned		\$50,000		1000			Landfill	1,000 Ton	Daily/8 mo.	Wkly/8 mo.	s) Response

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)

micgiated rest Management (LFM) Fractices Implemented	Integrated Doct Management (III) O. T	The Transfer of the Transfer o	Harlicides	- Artilizare
(y/n)	(lbs. or %)	(lbs. or %)	(lbs. or %)	
Y	N/A	N/A	3000	

	Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	6 NaCl	- 1
	6 CaCl ₂	
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) // %	% MgCl ₂ % CMA	_
%	6 Kac	No. of Manager Street,
%%	% KCl	170/
	į į	
Pre-wetting techniques utilized **	y/n or %)	Z
Manual control spreaders used **		Y
	(y/n or %)	Y
Estimated net reduction or increase in typical year salt/chemical application rate (±)		8%
Estimated net reduction or increase in typical year sand application rate ** or	(±lbs/ln mi. or %)	-8%
% of salt/chemical pile(s) covered in storage shed(s) (%	(%)	100
Storage shed(s) in design or under construction (y	y/n or #)	Z
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008 (y/	(y/n)	Y

Water Supply Protection

11 cause in the matter within 500-feet of a wellhead protection area	Tractment in it	Installed or planned tractment Blane for the first state of relocated
# or y/n	# or y/n	# or y/n
N/A	N/A	Z

Municipality/Organization: City of Lawrence

EPA NPDES Permit Number: MA041201

MassDEP Transmittal Number: W-036114

Annual Report Number Year 8
& Reporting Period: April 1, 2010 – March 31, 2011

NPDES PII Small MS4 General Permit

Annual Report

(Due: May 1, 2011)

Part I. General Information

Contact Person: John R Isensee	Title: Acting DPW Director
Telephone #: 978 – 620-3090	Email:jisensee@cityoflawrence.com
Mailing Address: 200 Common Street, Law	rence Ma. 01841

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: John Q Jansen	
Printed Name: John R Isensee	
Title: Acting DPW DIrector	
Date: 4/26/11	

Part II. Self-Assessment

The City 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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-A Revised	Classroom Education	Recycling Coordinator	Raise awareness starting with Children	Ground Works Lawrence has taken on the education role with various programs	Construct public garden lots
1-B. Revised	Educational Displays	Recycling Coordinator	Maintain Awareness	Up dated material printed and available to public on line and at DPW office	Keep web site updated
1-C Revised	News Articles	DPW	Clean problem spots	Various groups organize cleanups	Continue to support these groups
1-D Revised	Local Cable City web site	IT Dept	Supply basic infor.	Improve on the existing information	Upgrade information more frequently
1-E Revised	Mailings privetized			Non profit agencies addressing quality of life issues	
Revised				4	

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-A	Community Hotline		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hidden camera used when illegal activity is reported	Continue Same
Revised	Inspectional Services	Insp. Service	Public involvement		
2=B	Neighborhood meetings	DPW	Interact with residents so they understand	Good communication between groups and the city	Continue same
Revised					
1					
Revised			1 2 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Revised		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		- 1			
Revised			1		
; ; ; ; ;					
Revised					
2a. A	2a. Additions				

3. Illicit Discharge Detection and Elimination

					The second secon			
Planned Activities	No planned activity	I/I study in progress				340 370		
Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Mapping completed	1 under investigation						
Measurable Goal(s)								
Responsible Dept./Person Name		Sewer Dept.						
BMP Description	Mapping Outfalls	Illicit Discharge					3a. Additions	
BMP ID#	3-A Revised	3-B Revised	Revised	Revised	Revised	Revised	3a. A	

CALC	DAGE December 1	D	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
# @	nordinas resorting	Acapoualdie Dept./Person Name	Measurable Goal(s)	Frogress on Goal(s) — Permit Year 8 (Reliance on non-municipal partners indicated, if any)	rianned Activities
4-A	Site Plan Review	Engineering	Improve runoff quality		Continue same
Revised		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ò	
Revised		; 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Revised					
4a. A	4a. Additions				

5. Pos	st-Construction Storn	ıwater Manage	ment in New Develo	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 8 (Reliance on non-municipal partners indicated, if any)
5-A Revised	Design Standards	Enginecring	Plans reflect pre – treatment and recharge	All designers incorporate where ever possible
5-B	Final Inspection		Compliance with design plans	Measures are in place as per plan.
Revised		Building Insp.		
Revised				

Planned Activities

Continue Same

Continue same

THE PROPERTY OF THE PROPERTY O	

6. Pollution Prevention and Good Housekeeping in Municipal Operations

		Dept/Person Name	(c) moo arga menati	Permit Year 8 (Reliance on non-municipal partners	righted Activities	
	Employee Training	DPW	Educate Employees	indicated, if any) Materials stored and handled properly	Review procedures as warranted	
Revised	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				· ·	
I	Catch Basin Cleaning	DPW	Improve system functioning	Cleaning is on daily schedule except in winter	Continue same	
Revised	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0			
ł	Street Sweeping	DPW	Reduce load on system	Three season sweeping on all roads	Continue and revise as needed	
Revised	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			
2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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Revised						
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Revised						

	The state of the s

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
			V 4		
Revised	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;				
Revised					
Revised					
Revised					The second of th
Revised					
Revised					
7a. A	7a. Additions				A THE COLUMN TO
7b. v	7b. WLA Assessment				

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, 2010 through March 31, 2011)

Programmatic

	Preferred Units)	Response
Stormwater management position created/staffed	(n/y)	No
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		
		The state of the s

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	63%	_
Stormwater management committee established	(a/\alpha)	2, 22	ŧ
Stream teams established or supported	(# or x/n)	Λ	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(# O1 y/u)	/X	
Shoraline cleaned gines having a feet of the state and the state of th	(y/n or mi.)	ĭ	
onor chine accorded since degrinming of permit coverage	(mi.)	1 mile/vr	
Household Hazardous Waste Collection Days			
Tario crossor **			
nation and a spourous care	(±)	12	
community participation **	(# Or %)	500	_
material collected **	(0) 10 ()	200	_
DOLOGIO TITALITA	(tons or gal)		
School curricula implemented	(n/n)	7	ŧ
25 tires 150 ty/ort?s	(3/20)	7 7	
TO THE OF THE O			
			_

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted	1
Regulatory Mechanism Status (indicate with "X")						
Illicit Discharge Detection & Elimination		X				Ţ
Erosion & Sediment Control		X				T
 Post-Development Stormwater Management 		X				1
Accompanying Regulation Status (indicate with "X")		Part of the second seco				
Illicit Discharge Detection & Elimination		×				
■ Erosion & Sediment Control		X			APPAINABLE AND A LONG TO THE APPAINAGE AND A LONG TO THE A	,
Post-Development Stormwater Management		X				· · · · · ·
Mapping and Illicit Discharges						!
			F)	(Preferred Units)	s) Response	
Outfall mapping complete				(%)	100%	
Estimated or actual number of outfalls				(#)	106	
System-Wide mapping complete (complete storm sewer infrastructure	cture)			(%)	100%	
Mapping method(s)						.
				(%)	100	
■ CADD				(%)		
GIS				(%)	aritana (Landa)	
Outfalls inspected/screened **				(# or %)	1	
Outfalls inspected/screened (Since beginning of permit coverage)				(# or %)	100%	
Illicit discharges identified **				(#)		
Illicit discharges identified (Since beginning of permit coverage)				(#)	2	,
Illicit connections removed **				(#); and	2	
t commontions are a fig 1				(est. gpd)		
mich connections temoved (Since beginning of permit coverage)				(#); and	2	· · · · · · · · · · · · · · · · · · ·
% of nonitation on sewier				(est. gpd)	17,00	
population on centic curtoms				(%)	100%	
A or population on septic systems		7,77,2,2,000		(%)	0	
Application of the state of the				707) I

2	
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	(Preferred Units)	s) Response
Number of construction starts (>1-acre) **	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100%
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	(%)	100
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Z
Low-impact development (LID) practices permitted and encouraged	(y/n)	X
Operations and Maintenance		
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/vr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	2/yr
Oty of structures cleaned **	(#)	1600
Oty. of storm drain cleaned **	(%, LF or	
Olty of screenings/debris removed from atoms 25	mi.)	THE PROPERTY OF THE PROPERTY O
Dienoes of new of formation of the step bottom.	(Ibs. or tons)	500
Lappasar or use or screenings (randilli, POI W, compost, beneficial use, etc.) **	(location)	Landfill

Construction

Basin Cleaning Costs		
Authority Company (1917)	€	
• Amuai Duugelexpenditure (Iabor & equipment)***	(0)	
 Hourly or per basin contract rate ** 	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	50,000
Cleaning Equipment		
Clam shell truck(s) owned/leased	(#)	1 owned
• Vacuum truck(s) owned/leased	(#)	1 owned
Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	76
• % Structures cleaned with vactor **	(%)	3
	(Preferred Units)	s) Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	Wkly/8 mo.
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	Daily/8 mo.
Oty. of sand/debris collected by sweeping **	(lbs. or tons)	1000 Ton
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or	
- 1	ln mi.)	
• Disposal cost**	(\$)	50,000
Sweeping Equipment		The state of the s
Rotary brush street sweepers owned/leased	(#)	3 owned
Vacuum street sweepers owned/leased	(#)	
Vacuum street sweepers specified in contracts	(n/n)	
• % Roads swept with rotary brush sweepers **	20	100
Roads swept with vacuum sweepers **	%	
		And the second s
Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		A. The second se
	1 11 17 17 17 17 17 17 17 17 17 17 17 17	

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 Herbicides Pesticides Integrated Pest Management (IPM) Practices Implemented 	A CONTRACTOR OF THE CONTRACTOR	(The or %)	
■ Pesticides Integrated Pest Management (IPM) Practices Implemented		75. 75.	N/A
Integrated Pest Management (IPM) Practices Implemented		(lbs. or %)	N/A
		(y/n)	Y
		(Preferred Units)) Response
Average Ratio of Anti-/De-Icing products used **		% NaCl	88.7%
		% CaCl ₂	
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	upply protection areas)	$\frac{\%}{2}$ MgCl ₂	
		% CMA % K3C	
		% KCI	
		% Sand	11.3%
Pre-wetting techniques utilized **		(v/n or %)	Z
Manual control spreaders used **		(v/n or %)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Zero-velocity spreaders used **		(v/n or %)	, >
Estimated net reduction or increase in typical year salt/chemical application rate	cation rate	(±lbs/ln mi.	5.7%
		or %)	
Estimated net reduction or increase in typical year sand application rate **	te **	(±lbs/ln mi.	-5.7%
		or %)	
% of salt/chemical pile(s) covered in storage shed(s)		(%)	100
Storage shed(s) in design or under construction		(v/n or #)	Z
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008		(y/n)	X
		:	

Water Supply Protection

		_										15	
1.4	Z	N/A	N/A										
1	# or y/n	# or y/n	# or y/n										
Storm water outfalls to mublic water cumplies aliminated or malacated	Installed or planned treatment DN(D, for this 3: 1:	4	• I reatment units induce infiltration within 500-feet of a wellhead protection area										