



# Rule 13 - MS4 ANNUAL REPORT

State Form 51278 (R6 / 7-12)  
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

### For questions regarding this form, contact:

IDEM Office of Water Quality , Storm Water Program  
MS4 Coordinator  
100 North Senate Avenue, Room 1255  
MC 65-42  
Indianapolis, IN 46204-2251

Telephone: (317) 234-1601 or

(800) 451-6027, ext. 41601 (within Indiana)

Web Access: <http://www.IN.gov/idem/4900>

- NOTE:**
- Annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit the annual report is considered noncompliance with your permit.**
  - For the **first five (5)**-year permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
  - In the **second and subsequent five (5)**-year permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage.
  - Please type or print in ink.**
  - Please answer all questions thoroughly and return the form by the due date.
  - Return this form and any required attachments to the IDEM Storm Water Program, MS4 Coordinator at the address listed in the box on the upper-right.

Five Year Permit Term	Reporting Year
<input type="checkbox"/> 1st Permit Term	<b>Permit Year <u>2012</u></b>
<input checked="" type="checkbox"/> Second and subsequent five (5) Year Permit Terms	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5
	MS4s in their first permit term must submit reports annually. MS4s that are in subsequent permit terms must submit in years 2 and 4 of the permit term.

## PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Permit Number:	INR 0 4 0 002	Type of MS4: <input type="checkbox"/> City <input checked="" type="checkbox"/> Town <input type="checkbox"/> County <input type="checkbox"/> Non-traditional
2. MS4 Entity:	Town of Brownsburg <i>(Name of permit holder)</i>	
3. MS4 Operator:	Jack Swalley	
4. Mailing Address:	61 North Green Street  Brownsburg, IN ZIP: 46112 County: Hendricks	
5. Email Address:	jswalley@brownsburg.org	

## PART B: GENERAL INFORMATION – MS4 COORDINATOR

6. MS4 Coordinator (please print):	Lisa Chrisite	
7. Person's Title:	Stormwater Coordinator	
8. Mailing Address:	61 North Green Street  Brownsburg, IN ZIP: 46112	
9. Telephone Number:	317-852-1128	
10. E-mail Address:	lchristie@brownsburg.org	

## PART C: GENERAL INFORMATION – REPORT PREPARER

11. Name:	<i>(Provide this information if someone other than MS4 Operator or Coordinator completed this report.)</i>	
12. Affiliation with the MS4:		
13. Mailing Address:		
14. Telephone Number:	Extension:	ZIP:

15. E-mail Address:

**PART D: PROGRAM MANAGEMENT**  
**327 IAC 15-13-18**

**16. Provide a summary of the following program management activities performed during the reporting period:**

- a) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.  
See Attached
- b) Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")
- c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.
- d) Provide updated receiving water information completed during the reporting period if applicable.
- e) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.
- f) Provide a list of new active industrial sites identified during this reporting period.
- g) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.
- h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.
- i) Other:

**PART E: PUBLIC EDUCATION AND OUTREACH - MINIMUM CONTROL MEASURE**

**17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.  
See Attached
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program BMPs that went beyond those identified in the SWQMP.
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- f) Other:

**PART F: PUBLIC PARTICIPATION AND INVOLVEMENT - MINIMUM CONTROL MEASURE**

**18. Identify the best management practices for public participation and involvement included in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.  
See Attached
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program BMPs that went beyond those identified in the SWQMP.
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- f) Other:

**PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION - MINIMUM CONTROL MEASURE**

**19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).  
See Attached
- b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.
- c) Identify changes made to the IDDE Plan during this reporting period if applicable.
- d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.
- e) Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a timetable for completion.
- f) Other:

**PART H: CONSTRUCTION SITE STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE**

**20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.  
See Attached
- b) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.
- d) Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.
- e) MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.
- f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.
- g) Other:

**PART I: POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE**

**21. List the best management practices for post-construction storm water run-off control identified in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.  
See Attached
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program implementation partnerships and explain successes and barriers.
- d) MS4 area personnel responsible for implementation of the post-construction minimum control measure shall receive, at a minimum, annual training. Identify training provided for this minimum control measure during this reporting period.
- e) Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.
- f) Other:

PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING - MINIMUM CONTROL MEASURE

22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C and respond to the following:

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.  
See Attached
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.
- c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.
- d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.
- e) Other:

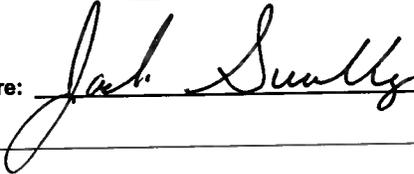
PART K: CERTIFICATION AND SIGNATURE

The individual listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

*"By signing this annual report, I hereby 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."*

Type or Print Name: Jack Swalley

Signature: \_\_\_\_\_



9-25-12  
(mm/dd/yyyy)



2012

# MS4 Stormwater Program Annual Report

**Reporting Period:**

**July 1, 2010- June 30, 2012**



## Contents

PART D: PROGRAM MANAGEMENT.....	10
Map of MS4 Boundary .....	11
Summary of complaints received.....	12
PART E: PUBLIC EDUCATION AND OUTREACH- MCM 1.....	14
Local Event Stormwater Booth.....	15
Educational Outreach for Industrial Facilities .....	15
Pet Waste Disposal Stations and Education.....	16
Educational Outreach for Commercial and Industrial Facilities.....	17
Watershed Educational Information .....	18
Erosion Control Education for Construction Sites.....	19
Educational Programs in Schools .....	20
Education Targeted to Visitors .....	21
Education Targeted to Senior Citizens .....	21
PART F: PUBLIC PARTICIPATION AND INVOLVEMENT- MCM 2.....	22
Stormwater Public Awareness Survey.....	23
Stormwater Quality Advisory Committee .....	23
Stormwater Clean Up Day .....	23
Adopt-A-River Program .....	24
PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION- MCM 3.....	25
Timetable .....	26
Citizen Watch Group/Stormwater Hotline.....	27
Illicit Discharge Education .....	27
Stormwater Inlets for New Development .....	28
Outfall Screening for Illicit Discharges .....	28
Structural BMP Inspections .....	28
Storm Sewer Mapping .....	29
Storm Drain Decal Marking Program.....	29
Household Hazardous Waste Disposal .....	29
2010 Household Hazardous Waste detailed breakdown.....	30
2011 Household Hazardous Waste detailed breakdown.....	31
2012 Household Hazardous Waste detailed breakdown.....	32
PART H: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL- MCM 4 .....	33
Plan Review for SWPP and Erosion and Sediment Control.....	34
Erosion and Sediment Control Hotline .....	34

Erosion and Sediment Control Inspections.....	34
Enforcement of Erosion and Sediment Control Requirements.....	34
Training of Reviewers and Inspectors .....	34
Identification of Priority Construction Sites .....	35
Erosion Control Construction Plan Review for MS4 Projects.....	35
<b>PART I: POST CONSTRUCTION STORMWATER RUNOFF CONTROL- MCM 5 .....</b>	<b>36</b>
Post Construction Training .....	37
<b>PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING- MCM 6.....</b>	<b>38</b>
<b>2011 AGENDA.....</b>	<b>39</b>
Water Quality for Flood Control Projects.....	40
Training for Municipal Employees .....	40
Municipal Litter Pick-Up.....	40
Road Salt Storage and Application Practices.....	40
Snow Disposal Areas .....	40
Municipal Chemical Storage Practices .....	41
Spill Prevention and Clean-Up for Municipal Operations.....	41
BMPs for Vehicle Maintenance Areas .....	41
BMPs for Vehicle and Equipment Washing.....	41
Catch Basin Cleaning.....	41
Street Sweeping .....	42
Maintenance of Roadside Shoulders and Ditches.....	42
Outfall Scouring Repair .....	42
BMPs for Pesticide/Fertilizer Use .....	42
Canine Parks .....	43
Recycling and Waste Disposal for Municipal Operations.....	43

## PART D: PROGRAM MANAGEMENT

A) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.

N/A

B) Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")

See the following map for the new MS4 boundary. The Town of Brownsburg has experienced growth through annexations during this reporting period.

C) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.

The Town of Brownsburg continues to perform Wet Weather Monitoring twice a year.

D) Provide updated receiving water information completed during the reporting period if applicable.

For the newly annexed area, 2 receiving streams and 6 legal drains were identified via aerial photography.

East Fork White Lick Creek	JF Lingerman Legal Drain
Mario Creek	Pollard and Todd Legal Drain
Michael King Legal Drain	Hunter Arm Legal Drain
William Brown Legal Drain	Timothy Quinn Legal Drain

E) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.

The Town of Brownsburg established a Stormwater Utility in 2006.

F) Provide a list of new active industrial sites identified during this reporting period.

No new active industrial sites were identified during this reporting period.

G) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.

Currently, there are no Town owned facilities regulated under Rule 6.

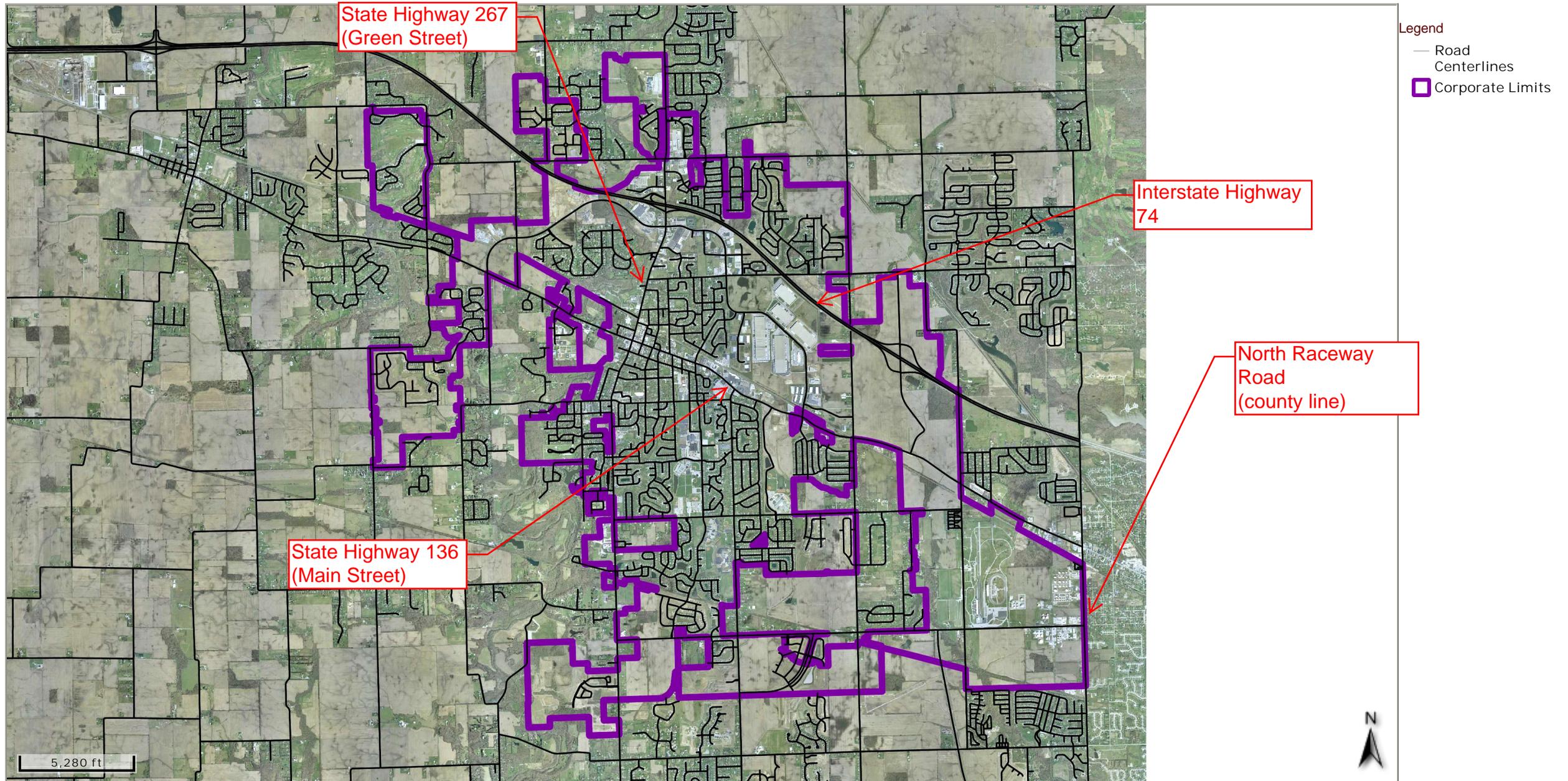
H) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.

Please see following Table of complaints

I) Other:

# Town of Brownsburg MS4 Area

Created By: L. Christie  
Date Created: 7/31/2012



Description	Date of Discovery/Report	Method of Reporting	Type of complaint	Resolution Summary
Food Grease discovered on grate-Brownsburg Shoppes	7/13/2010	Town Employee	Dumping	Education of all tenants in Brownsburg Shoppes Shopping Center
Northfield Drive-Swale Behind Restaurant-Drainage	7/15/2010	Action Center	Drainage	Drainage
Brownswood Estates-Drainage	7/20/2010	Action Center	Drainage	Drainage
BayBerry Apartments-Foul Smelling water dumped into storm drain	7/28/2010	Email	Dumping	Carpet Cleaning activities; violator educated; door hangers placed in development
Beacon Pointe-Drainage	1/28/2011	Action Center	Drainage	Drainage-Improved
Apartment Parking Lot-Drainage	2/23/2011	Action Center	Drainage	Private
Meadowchase-Drainage	3/3/2011	Action Center	Drainage	Cleared downstream restrictions
East College- Drainage	3/7/2011	Action Center	Drainage	Private
Concrete washoff-Bersot Crossing	3/31/2011	Hotline	Construction	Education with Company; Contractor; Homebuilder; Developer
Hornaday Heights- Drainage	4/6/2011	Action Center	Drainage	Improvements made-ongoing
Hornaday Heights- Drainage	4/6/2011	Action Center	Drainage	Improvements made-ongoing
Blue Rhino Spill-diesel fuel	4/11/2011	Dispatch	Spill	Cost of Clean-up and Administrative Costs
Thornburg-Drainage/Neighbor's lot higher	4/12/2011	Action Center	Drainage	Private-landowner caused
Summer Ridge dumping paint	4/28/2011	Action Center	Construction	Did not find evidence
Hydraulic fluid-Summer Ridge	5/10/2011	Town Employee	Spill	education with contractor, contractor clean-up
Car Wash complaint-Insurance company	5/11/2011	Hotline	Water quality	Education in Newsletter
Whittington Estates-Hydraulic fluids	5/13/2011	Town Employee	Spill	Town Clean-up; Spiller not found
Holiday Pines HOA mtg- Catch basins	5/15/2011	HOA meeting	stormwater infrastru	Designed to previous standards
Car Wash complaint-Kmart	5/21/2011	Hotline	Water quality	Education in Newsletter
Creekside dumping of grass clippings	5/30/2011	Action Center	Water quality	Door hangers
Hunters Cove-Gasoline	6/11/2011	Dispatch	Spill	Clean up company, Fire Department response
Car Wash complaint-Kmart	6/11/2011	Hotline & Email	Water quality	Education in Newsletter
Concrete washoff-sycamore	6/15/2011	Town Employee	Construction	Education with contractor and homeowner
Hydraulic fluid-Northfield Drive shopping center	6/17/2011	Town Employee	Spill	Education with spiller; Spiller cleaned up and remediated
Lake Ridge-Drainage	6/24/2011	Action Center	Drainage	Private
Car Wash complaint-Donatos	6/25/2011	Mail	Water quality	Education in Newsletter
Gasoline into storm drain-summer ridge	6/28/2011	Hotline	Spill	Town Clean-up; Door hangers placed
Car Wash complaint-Kmart & Insurance	7/18/2011	Mail	Water quality	Education in Newsletter
Car Wash Complaint-Kmart	7/25/2011	Email	Water quality	Education in Newsletter
Summer Ridge -Pool	8/11/2011	Hotline	Spill	Education with HOA and Developer; Review of design
Car Wash Complaint-Kmart	8/15/2011	Email	Water quality	Education in Newsletter
Blocked Drain-Hornaday	10/12/2011	Action Center	Drainage	Private Drain-offered assistance
Fairfield Heights-leaves	11/21/2011	In Person	Water quality	Education to homeowner; Violation letter sent
Whittington Estates-Report of dumping of gasoline	1/4/2012	Citizen call to another dept	Dumping	Evidence of gasoline not found; door hangers

Description	Date of Discovery/Report	Method of Reporting	Type of complaint	Resolution Summary
Raceway Road drainage	1/5/2012	Call	Drainage	Drainage-put on list of roadside stabilization projects, finished work 2012
E College- Drainage	1/17/2012	Action Center	Drainage	Drainage- finished work 2012
Hornaday Heights- Dog Poop	1/17/2012	Action Center	Water quality	Education in Newsletter; Door hangers
Fairfield Heights- drainage	1/24/2012	Action Center	Drainage	Drainage- finished work 2012
Maplehurst dr & commerce drive concrete/flow fill	2/6/2012	Fire Department Employee	Construction	Education to contractor
West Main flooding/drainage	2/21/2012	Action Center	Drainage	Possible private-offered to meet with landowner
Hartford Park-Hydraulic Fluid Spill	3/7/2012	Town Employee	Spill	Education with spiller; Spiller cleaned up
Northridge-drainage	3/14/2012	Action Center	Drainage	Drainage-finished work 2012
Summer Ridge-Drainage	3/16/2012	Action Center	Drainage	Tree line left during development-investigated options, worked with landowners
Heritage Hills- Concrete	3/22/2012	Town Employee	Construction	Education with homebuilder and developer; Stop work; Fined; spiller cleaned up
Northridge- drainage	3/28/2012	Action Center	Drainage	Drainage-finished work 2012
Birch Run-Concrete	4/4/2012	Town Employee	Construction	Education with contractor and developer; fined; spiller cleaned up
Fairfield Heights- drainage	4/18/2012	Action Center	Drainage	Drainage-finished work 2012
Car Wash-fundraiser	4/20/2012	Email	Water quality	Education in Newsletter
West Vermont Street- Construction	4/24/2012	Action Center	Construction	Education with contractor and landowner
Mary E Wilson reg drain	5/1/2012	Call	Water quality	Aquatic vegetation from pond
Northridge-Draining Pool	5/2/2012	Town Employee	Water quality	Education with homeowner; violation not found
Overtuned Semi-Northfield Drive and 56th Street	5/10/2012	Town Employee	Water quality	Education with Towing Company; any spill cleaned up by towing company
Twin Street- Concrete	6/8/2012	Town Employee	Construction	Education with Contractor

## **PART E: PUBLIC EDUCATION AND OUTREACH- MCM 1**

A) Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.

See the following attached pages

B) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

See the following attached pages

C) Describe program BMPs that went beyond those identified in the SWQMP.

See the following attached pages

D) Identify storm water BMPs installed or initiated for this MCM during this reporting period.

See the following attached pages

E) Describe program implementation partnerships and explain successes and barriers during this reporting period.

See the following attached pages

F) Other:

In 2011, the Town of Brownsburg was awarded a grant by the Hendricks County Solid Waste Management District to distribute 300 reusable tote bags. This gave the Town of Brownsburg the opportunity to speak with approximately 300 people and advertise upcoming events such as Tox-Away Days and Recycle Days. This also gave us the opportunity to answer questions the public had about water quality.

In 2012, the Town of Brownsburg was awarded a grant by the Hendricks County Solid Waste Management District to distribute 9 composters and 20 rain barrels to the community.

## **Local Event Stormwater Booth**

A)

The Town of Brownsburg's Stormwater Quality Management Plan (Part C) identifies distributing educational information at one local event per year and recording the number of educational material distributed. In 2010, the Town of Brownsburg had a Stormwater Booth at the Night Out Against Crime hosted by the Brownsburg Police Department. There were approximately 6,000 attendees and 607 items distributed; 82 of these being educational brochures, pamphlets, post-cards, magnets etc. In 2011, the Town of Brownsburg attended the Night Out Against Crime again. There were approximately 6,000 attendees, 1582 items distributed; 48 of these being educational brochures, pamphlets, post-cards, magnets etc. In 2012, the events were held after the reporting period ended. (June 30, 2012)

C)

The Town of Brownsburg was able to attend 24 additional events with 19,344 attendees. At these events 3421 items were distributed; 1161 of these being educational brochures, pamphlets, post-cards, magnets etc.

E)

Through Brownsburg's partnership with the Hendricks County Partnership for Water Quality 78 additional events were held with 86,275 attendees. 25,491 items were distributed with 10,498 of these being educational brochures, pamphlets, post-cards, magnets etc.

Total:

104 events; 117,619 attendees; 31,101 items distributed

## **Educational Outreach for Industrial Facilities**

A)

The Town of Brownsburg's Stormwater Quality Management Plan (Part C) identifies discussing and distributing stormwater educational information during industrial sanitary sewer discharge inspections at least once per permit term (every 5 years). During this reporting period Maplehurst Bakeries was inspected twice on 12/29/10 and 5/16/12. During these inspections stormwater quality was discussed.

C)

The Town of Brownsburg had discussed stormwater quality and the Town's Stormwater Program with Maplehurst Bakeries years ago during one of these inspections. The Town identified ways that Maplehurst Bakeries could help with the Town's Stormwater Program and protect water quality. One BMP that was identified during these discussions was picking up trash around the facility.

Maplehurst Bakeries has two employees complete this task bi-monthly.

E)

Through the Hendricks County Partnership for Water Quality we created an Industrial Brochure. Town of Brownsburg had not mailed these out before the end of the reporting period.

## **Pet Waste Disposal Stations and Education**

A)

The Town of Brownsburg's Stormwater Quality Management Plan (Part C) identifies educating the public on the proper disposal of pet waste through the semi-annual Town newsletter. The Plan also identifies continuing to provide and maintain pet waste disposal stations in the Town parks.

Proper pet waste disposal education articles have been in the biannual newsletter either with an article devoted to pet waste or with our advertisement of the Stormwater Hotline. In the fall of 2010 the newsletter was mailed to 8,000 businesses, residents, and industries. In Spring 2011, Fall 2011, and Spring 2012 the newsletter was mailed to 14,000 businesses, industries, and residents for each publication.

The Town of Brownsburg has 4 pet waste stations located in Williams Park and Arbuckle Acres Park. The total number of pet waste bags used yearly has been steady at 3,000 per year.

C)

A grant winner and the Brownsburg Parks and Recreation Department co-sponsored an event, "Bow-Wow Bash" to promote the idea of a Canine Park. The Town of Brownsburg Stormwater Department had a booth at this event to promote the proper pet waste disposal.

Through the Town of Brownsburg's educational events 164 Pet Waste informational brochures were distributed during this reporting period.

E)

Through the Hendricks County Partnership for Water Quality we have been able to partner with the Humane Society and other organizations that adopt dogs to distribute 1,081 additional pet waste brochures or pet waste kits.

## **Educational Outreach for Commercial and Industrial Facilities**

A)

The Town of Brownsburg's Stormwater Quality Management Plan (Part C) identifies including stormwater education to commercial and industrial facilities and their impact to nearby waterways. The Plan also identifies increasing the public awareness on issues surrounding these types of facilities, such as; plastic shopping bags ending up in nearby ditches and waterways, trash build up and illicit discharges. This education would be done through one article in the semi-annual newsletter distributed to all residents, commercial and industrial facilities.

Information regarding our Annual County Wide Clean-up is placed in the Town's Spring Newsletter that addresses cleaning up of trash from all types of generating sites. In Spring 2011 and Spring 2012, the newsletter was mailed to 14,000 businesses, industries, and residents for each publication.

C)

The Town of Brownsburg had discussed stormwater quality and the Town's Stormwater Program with Maplehurst Bakeries years ago during one of the facility inspections. The Town identified ways that Maplehurst Bakeries could help with the Town's Stormwater Program and protect water quality. One BMP that was identified during these discussions was picking up trash around the facility.

Maplehurst Bakeries has two employees complete this task bi-monthly.

Key Bank has participated in the Annual County-Wide Clean-up for the past two years.

The Town of Brownsburg has been able to partner with local businesses and industries to participate in local events such as the John Force Car Show and Frazee Garden Rain Garden Workshop.

E)

Through the Hendricks County Partnership for Water Quality restaurant brochures were mailed out each year to all restaurants or vendors permitted in Hendricks County.

2010: Distributed before reporting period.

2011: 544 Restaurant Brochures

2012: 543 Restaurant Brochures

Through the Hendricks County Partnership for Water Quality we created an Industrial Brochure. The Town of Brownsburg had not mailed these out before the end of the reporting period.

## **Watershed Educational Information**

A)

The Town of Brownsburg's Stormwater Quality Management Plan (Part C) identifies continuing to incorporate water conservation, proper pesticide use, household hazardous waste disposal, stormwater pollution prevention and other watershed related information once a year into the biannual newsletter.

Watershed information, pollution prevention tips, and other water quality articles have been included in Town's biannual newsletter. Topics have included, but are not limited to, pet waste, car washing, illegal dumping, recycling used motor oil, and advertisement of our Recycle Day(s), Annual Clean-up Day and the Stormwater Hotline. In the fall of 2010 the newsletter was mailed to 8,000 businesses, residents, and industries. In Spring 2011, Fall 2011, and Spring 2012 the newsletter was mailed to 14,000 businesses, industries, and residents for each publication.

C)

The Town of Brownsburg also distributes watershed information at our educational events and stormwater booths. We specifically have a bookmark that addresses watersheds. The Town of Brownsburg distributed 430 of these bookmarks. An additional 1,250 were distributed to 4<sup>th</sup> and 5<sup>th</sup> graders in the Brownsburg Community School Corporation.

E)

An additional 645 Bookmarks were distributed through Hendricks County Partnership Events.

## **Erosion Control Education for Construction Sites**

A)

Continue to display the “Stormwater and the Construction Industry” poster published by the EPA at the Planning and Building Department. Distribute stormwater educational information with all Building Permits. The Town will record the number of permits issued, number of educational handouts distributed, and the number of enforcement actions taken per year.

The Town continues to display the EPA “Stormwater and the Construction Industry” poster outside of the Planning and Building Department where all individuals obtaining a building permit and any visitors to the Planning and Building Department see the poster. Every application package for Clean Water Permits (small disturbances) and Stormwater Permits (1 acre or more of disturbance) includes educational information and a self monitoring inspection form example.

The Town of Brownsburg has issued 305 Clean Water Permits and 15 Stormwater Permits for this reporting period.

Each permit site is inspected monthly, more often for non-compliance. Inspectors perform education with construction workers during these inspections on sediment and erosion control measures. There have been 557 failed or correction needed inspection findings for the Clean Water Permits and 51 failed or correction needed inspection findings for the Stormwater Permits.

C)

The Town of Brownsburg held a Sediment and Erosion Control Workshop “When it Rains It Drains” in March 2012. 25 contractors, developers, sub contractors, concrete companies, and municipal employees attended. The workshop addressed what stormwater runoff is, the effects construction and land disturbing activities have on stormwater runoff, Stormwater Codes, Penalties, and fines from Federal to local, an overview of construction BMPs, and “You be the Inspector” session for each BMP. Approximately 40 “Erosion Prevention & Sediment Control Shirt Pocket Field Guide” written by John South with the Hamilton county Soil and Water Conservation District made possible by the Hoosier Heartland RC&D Council, Inc. were distributed at this event.

## **Educational Programs in Schools**

A)

Since the Town has established their Stormwater Utility, Brownsburg state accredited schools are now responsible for providing stormwater education to their students either by in-house efforts or by allowing them to attend or participate in outside programs. By being responsible for this education, each year the schools are given an educational credit and their stormwater fees reduced annually by up to 50% (depending on the number of grades that are educated on stormwater programs).

For the reporting period both school corporations within Brownsburg have received the full 50% credit on their stormwater utility for stormwater education to all of their students.

Over 8,200 K-12<sup>th</sup> graders per year have been educated.

Over 7,750 educational items were distributed to K-12 at the Brownsburg Community School Corporation for the school year 2011-2012.

B)

There has been change in administration at both of the school corporations which has given the school corporations the opportunity to take a fresh look at how to meet the requirements of the credit.

C)

The Town of Brownsburg in partnership with the Hendricks County Partnership for Water Quality hosted a two day educational series for a school in Brownsburg. In 2011, the Town was unable to utilize our normal contractor to provide electrofishing for this event so we worked with DNR to provide electrofishing. The first day was outside for 3<sup>rd</sup> to 8<sup>th</sup> graders. There were multiple stations: macro invertebrate station, electrofishing, recycling, sum of the parts, fish identification, and a representative from the Town of Brownsburg's Water Department.

The second day was inside for K-2<sup>nd</sup> graders in which they learned about pollution, storm drains, and how water travels through the system.

E)

Through the Partnership we were able to coordinate efforts for a 2 day educational event described above to educate 529 K-8<sup>th</sup> graders.

## Education Targeted to Visitors

B)

As stated in the 2009 annual report, original plans to post materials in an INDOT travel center and combined efforts with Hendricks County partnership for water quality to provide educational placemats in local restaurants did not materialize. Therefore, educational efforts targeted to visitors was completed through local events that attracted visitors such as the Night Out Against Crime, John Force Car Show, and Bow-Wow Bash which collectively had 19,400 attendees during this reporting period.

Through distribution and promoting of local events such as Brownsburg's Recycle Day and Hendricks County Solid Waste Management District's Tox-Away Days that are for residents it was discovered that many individuals were not from Brownsburg. Many of these individuals were from surrounding counties but some were from out of state.

The Town of Brownsburg also holds a Wastewater Treatment Plant (WWTP) Tour every year for 6<sup>th</sup> graders from Granville Wells School in Boone County which one of the stations addresses stormwater. This is approximately 85 students and adults per year.

C)

The Town of Brownsburg recently annexed Lucas Oil Raceway of Indianapolis. Through our Stormwater Utility Ordinance the Town has partnered with LORI to conduct stormwater education at automotive racing events. Currently, we have 10 stormwater educational signs hung in various locations so that the public (residents, visitors, senior citizens, children and adults) would easily see throughout the LORI complex.

## Education Targeted to Senior Citizens

A)

Distribute educational information to the senior citizen/retirement communities within the Town of Brownsburg in cooperation with the Hendricks County Partnership for Water Quality once per permit cycle.

During this reporting period there were no educational events that specifically targeted only to senior citizens. There were many educational events that senior citizens were in attendance such as Night Out Against Crime, John Force Car Show, Bow-Wow Bash, Home Owners Association meetings, Brownsburg Rotary Club-Clean up event, and Frazee Garden Rain Garden workshop, which collectively had 19, 537 attendees during this reporting period.

C)

The Town of Brownsburg recently annexed Lucas Oil Raceway of Indianapolis. Through our Stormwater Utility Ordinance the Town has partnered with LORI to conduct stormwater education at automotive racing events. Currently, we have 10 stormwater educational signs hung in various locations so that the public (residents, visitors, senior citizens, children and adults) would easily see throughout the LORI complex.

An example of one of the signs:



E)

Through the Hendricks County Partnership for Water Quality there were 22 events and 75,975 attendees which senior citizens may have been in attendance.

## **PART F: PUBLIC PARTICIPATION AND INVOLVEMENT- MCM 2**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

See the following attached pages

- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

See the following attached pages

- c) Describe program BMPs that went beyond those identified in the SWQMP.

See the following attached pages

- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.

See the following attached pages

- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.

See the following attached pages

- f) Other:

## **Stormwater Public Awareness Survey**

A)

A stormwater awareness survey was conducted in July 2008 by the Town. A follow up survey will be conducted at the end of each permit term. Surveys will be distributed in the summers of 2013, 2018, 2023, etc.

The next scheduled survey will be in 2013.

## **Stormwater Quality Advisory Committee**

A)

The Town of Brownsburg formed a Stormwater Quality Advisory Committee, composed of Town department head staff and some persons from the community. The meetings are public noticed and the public is invited to attend and provide input. Meetings are held quarterly.

B)

The turn out from the public for these meetings has been very low.

C)

The departments have begun to prepare quarterly reports that are presented to the Town Council members during public council meetings. This reaches not only the individuals that attend these meetings, but also those that stream the meetings at home, or watch the archived meetings at a later date.

## **Stormwater Clean Up Day**

A)

The Town of Brownsburg will hold an Annual Stormwater Clean Up Day. All members of the community are encouraged to participate through advertisements or press releases. Clean-up activities have included trash pick-up conducted Town wide and public demonstrations of aquatic life in local waterways.

2010- Reported in the previous Annual Report

2011- 447 volunteers

2012- 116 volunteers

The Town of Brownsburg advertises the Clean-up Event in our Town Spring Newsletter. In Spring 2011 and Spring 2012 the newsletter was mailed to 14,000 businesses, industries, and residents for each publication.

The Annual Clean-up was also advertised at 5 local businesses, Public Library, the Town's electronic sign and website, previous clean-up participant leaders, Boy Scouts, Girl Scouts, and the schools.

The Water Quality Demonstration is an Electrofishing demonstration in White Lick Creek. This involves sending an electronic current through the water to stun the fish. The fish are brought to the bank for identification and discussion, and then released unharmed back into the water.

2010- Reported in previous Annual Report

2011- 30 participants

2012- canceled due to weather

B)

During the 2012 Spring Clean-up the Water Quality Demonstration (Electrofishing Demonstration) was unable to be held due to weather and safety.

Ray's Trash no longer reports the amount of trash collected.

C)

In addition to the annual Clean-up Event we have had 110 residents, scout groups, HOA members participate in clean-ups that Brownsburg had either donated materials or assisted in other ways.

Maplehurst Bakeries maintains their parking lots and property bi-weekly.

**Recycle Day:**

The Town of Brownsburg began holding Recycle Days in September of 2010. This event gives residents an opportunity to bring in recyclable items such as plastics, cardboard, metals, oil, mattresses, TVs, computers, electronics, computer monitors, small and large appliances, shredding, etc. It has been the goal to hold this event twice a year.

This is also an opportunity for volunteers from the community and surrounding to help with the event. In the past we have had church groups, school groups, scout troops, and individual volunteers help make this event possible.

September 11, 2010 Recycle Day: Estimated total of at least 63,200 lbs diverted from landfill.

April 16, 2011 Recycle Day: Estimated 50,000 lbs diverted from landfill.

September 2011 Recycle Day: 38,790 pounds diverted from Indiana landfills

April 2012 Recycle Day: Date rescheduled due to Vendor date conflicts.

**TOTAL: Approximately 76 TONS diverted from Indiana landfills.**

E)

Through the Hendricks County Partnership for Water Quality we are able to hold a County Wide Annual Clean-up.

2011: 622 Total Volunteers County-wide Approximately 60 Tons of trash collected

2012: 240 Total Volunteers County-wide

**Adopt-A-River Program**

A & B)

The Adopt-A- River IDNR program no longer exists.

C)

The Town of Brownsburg promotes and participates in the Annual County-Wide Trash Clean-up.

## **PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION- MCM 3**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).

See the following attached pages

- b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.

See the following attached pages

- c) Identify changes made to the IDDE Plan during this reporting period if applicable.

Additions and timetables were added to include the newly annexed areas.

- d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.

None were made during this reporting period.

- e) Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls provide a plan and timetable for completion.

100% of outfalls before annexation have been mapped and screened annually. The mapping for the newly annexed area has been started, field verification has not begun.

See the following timetable.

- f) Other:

**Town of Brownsburg, Indiana**  
**MS4 IDDE Audit Preparations**  
**Storm Sewer and Outfall Mapping Tasks**

updated by: Mary Atkins  
date of update: 5/4/2012

Task to be Completed		Name of person responsible for task	Goal Date for Completion	Actual Completion Date
1	<b>Mapping of the Annexed Area:</b> Update storm sewer system mapping to include Municipal Separate Storm Sewer Systems (MS4s) in the East Annexation Area. In accordance with 327 IAC 15-13 (Rule 13), this mapping must be completed within one year from the submittal of a revised NOI form (must be submitted with the annual report that is due to IDEM by October 1, 2012).		October 1, 2013*	
1a	Identify and show the location of all receiving waters		October 1, 2013*	
1b	locate all outfalls with GPS to 5 meter accuracy (take pictures of outfalls as they are identified and link to the outfall point in GIS)		October 1, 2013*	
1c	Map all piped systems, culverts and open ditches that are owned or operated by the Town		October 1, 2013*	
1d	Incorporate all data into the Town's GIS system		October 1, 2013	
2	<b>Identification of More MS4 Outfalls:</b> In accordance with Rule 13, MS4 outfalls are defined as a point source discharge via conveyance of stormwater run-off into a water of the state. A <u>water of the state</u> is the accumulations of water, surface and underground, natural and artificial, public and private; or a part of the accumulations of water that are wholly or partially within, flow through, or border upon Indiana. The term does not include a private pond or an off-stream pond, reservoir, or facility built for reduction or control of pollution or cooling of water before discharge unless the discharge from the pond, reservoir, or facility causes or threatens to cause water pollution.		October 1, 2012* (submit to IDEM with revised NOI. Due with MS4 annual report)	
2a	Identification of additional MS4 outfalls and receiving streams		October 1, 2012 *	
2b	Mapping of additional MS4 Outfalls with GPS to 5 meter accuracy (take pictures of outfalls as they are identified and link to the outfall point in GIS)		October 1, 2013*	
2b	Incorporate all data into the Town's GIS system		October 1, 2012	
3	<b>Outfall Naming System:</b> Develop a systematic naming system for storm sewer outfalls. One option would be to name each outfall according to their receiving stream and then devise a numbering system that would start upstream (outfall WLC-100) and increase in number as outfalls are identified downstream (outfall WLC-200). The numbering system should account for new storm outfalls to be added between outfalls (outfall WLC-120) or for numbers to be added upstream (outfall WLC-50) or downstream (outfall WLC-1000) as areas are annexed in the future.		before identifying or mapping outfalls (items 1 and 2 above)	
4	<b>Pipe Data:</b> Update the Town's existing mapping data to include information on the size of pipe, pipe material, pipe shape and flow direction. Link this information to pipe data in GIS.		October 1, 2013	
4a	Complete field work for pipe data		October 1, 2013	
4b	Incorporate data into the Town's GIS system		October 1, 2013	
5	<b>Open Conveyance Data:</b> Update the Town's mapping of open ditches to show complete connectivity of the MS4 conveyance system		October 1, 2013	
5a	Complete field work to collect open ditch locations		October 1, 2013	
5b	Incorporate data into the Town's GIS system		October 1, 2013	

**Table Notes:**

the use of an asterisk ( \* ) with a goal date indicates a regulatory date in accordance with Rule 13

## Citizen Watch Group/Stormwater Hotline

A)

The Town of Brownsburg continues to maintain and promote a hotline for reporting of stormwater pollution concerns, illegal dumping, and other stormwater issues. The hotline is also featured on the Town's webpage. Since 2010, submittal of reports is available through the Town's website. Complaints are investigated, tracked, and resolved by town staff.

Please see Part D: Program Management, (h) for a summary of complaints received.

Summary:

Summary of How Received Report		Type of Complaint	
Action Center	22	Construction	8
Call	3	Drainage	19
Dispatch	2	Dumping	3
Hotline	5	Spill	8
Town Employee	11	Water Quality	14
Other	10	Other	1

Another example of signs at the LORI complex. All of the ten signs advertise the Stormwater Hotline.



## Illicit Discharge Education

A)

Distribute educational information in the vicinity of reported or detected illicit discharges.

Please see Part D: Program Management, (h) for a summary of complaints received and type of education performed.

## Stormwater Inlets for New Development

A)

100% of newly installed storm inlets are required to be stamped with a pollution prevention message such as “No Dumping, Drains to Stream” Summary is below:

Development	#
Bersot Crossing 3A	2
Bersot Crossing 3B	4
Bersot Crossing 4	2
Bersot Crossing Enclave 3A/3B	18
Birch Run	5
Broadstone Pointe Apt	5
Broadstone Pointe Apt Phase 2	8
Chase Bank	0
Hession Fields	8
Hession Fields 3A	13
IHOP	3
Northfield at Heritage Hills	3
Northfield at Wynne Farms 2A	9
Northfield at Wynne Farms 2B	4
Northfield at Wynne Farms 3	14
Vance & Hines	9

TOTAL 107

## Outfall Screening for Illicit Discharges

A)

Outfalls are inspected during dry weather for the outfall condition, erosion and scouring, the amount of flow, and signs of pollution (such as odor, chemical sheen, color, etc.). Outfalls in the MS4 will be inspected during dry weather for signs of illicit discharges annually

August 2010: 13 outfalls were screened; no illicit discharge found

April 2011: 13 outfalls were screened; no illicit discharge found

July 2012: Conducted after reporting period ended.

## Structural BMP Inspections

A)

Structural BMPs will be inspected once during each 5-year permit term and more often if needed to track improvements. New construction will be required to record the Operation and Maintenance Manual with the County.

Marsh Supermarket ponds and Farm Bureau dry pond were inspected during this reporting period. These were found to need maintenance by the property owner.

The Town of Brownsburg changes in ordinance to require the recording of the Operation and Maintenance Manual has not been achieved.

## **Storm Sewer Mapping**

A)

All new outfall conveyances with a pipe diameter of 12 inches or larger and all open ditches with a 2 foot or larger bottom width will be mapped. The depth of ditch, type (grass, concrete, etc.), and estimated width of the bottom will be noted. Maps will be prepared and maintained by the Town.

Please see Part G: Illicit Discharge Detection and Elimination (e)

## **Storm Drain Decal Marking Program**

A)

The Town of Brownsburg has marked all stormwater inlets and combined sewer inlets with Storm Drain Decals. Various volunteer groups replace missing decals throughout the year with direction from the Town. During this reporting period we had one group of 15 inspect 35 inlets and 2 beehives. 22 storm drain markers were replaced and 10 lbs of trash was collected. Five storm decal marking door hangers were placed and 3 homeowners were educated.

B)

The interest of volunteer groups to perform storm drain marking has gone down.

## **Household Hazardous Waste Disposal**

A)

The Town of Brownsburg continues to promote Tox-Away Days to residents of Hendricks County at events. The Hendricks County Solid Waste Management District holds four collection events a year called Tox-Away Days. These are held in Brownsburg, Danville, Avon, and Plainfield.

In 2010, from July 1, 2010 to December 2010 two events were held with 1,393 participants and 62,592 pounds collected. In 2011, four events were held with 2,781 participants and 121,739 pounds collected. Jan 2012- June 30, 2012 two events were held with 1,482 participants and 76,946 pounds collected.

Please see following pages for the detailed breakdown of the household hazardous waste collected and the pounds collected of each.

The Town of Brownsburg also promotes locations/business that accept used motor oil in Hendricks County through a brochure created through the Hendricks County Partnership for Water Quality and is given out during educational events.

# 2010 Household Hazardous Waste

Collection Location Number of Participants		WEIGHT IN POUNDS			2010 Total 1,393
		August 14, 2010 Avon 740	October 9, 2010 Plainfield 663		
HHW					
Household Paint (Non-Flammable and Flammable)		16,873	14,998	31,871	
Flammable Liquid (Fuel Oil)		0	0	0	
Flammable Liquid (Gasoline, Paint Thinner)		2,134	812	2,946	
Flammable Liquid (Gasoline, Kerosene)		0	0	0	
Flammable Liquid (Aluminum Paint)		102	102	204	
Pesticides (Solids)—Sewin Chlordane		432	312	744	
Pesticides (Liquid)—Malathion Chlordane		1,432	1,102	2,534	
Compressed Helium		0	0	0	
Flammable Solid, Inorganic, NOS		0	0	0	
Flammable Solid; organic		0	0	0	
Organic Peroxide Type D (Benzoyl Peroxide)		0	0	0	
Oxidizing Liquid N.O.S. (Hydrogen Peroxide)		0	0	0	
Oxidizing Solid: N.O.S. 5.1: UN 1479		102	51	153	
Toxic Solid, Inorganic, Cadmium, N.O.S.		312	0	312	
Flammable Solid, Toxic, (Naphthalene, Mothballs)		0	0	0	
Non-Regulated Fertilizers		599	312	911	
Non-Regulated Fuel Oil/Dirt		0	0	0	
Consumer Commodities (Pyrethins)		61	31	92	
Consumer Commodities (Aerosols)		420	361	781	
Putty and Adhesives		1,299	1,789	3,088	
Petroleum Gases Liquefied		210	240	450	
Corrosive (Sodium Hydroxide)		312	110	422	
Corrosive (Hydrogen Peroxide)		0	22	22	
Corrosive (Hydrochloric Acid)		251	222	473	
Fire Extinguisher		90	110	200	
Household Cleaners (Liquid)		1,674	799	2,473	
Household Cleaners (Solid)		659	513	1,172	
Polychlorinated biphenyls (solid)		0	0	0	
Compound Cleaning Liquid/Combustible		0	0	0	
Asbestos/Flue		0	0	0	
Non-Regulated Molasses		0	0	0	
Medicines-Pharmaceuticals-Non-Controlled		127	157	284	
Medicines-Pharmaceuticals-Controlled		15	15	30	
Medicines-Sharpes		89	54	143	
MERCURY					
RQ Mercury		1	1	2	
Fluorescent Bulbs (4ft)		364	257	621	
Fluorescent Bulbs (8ft)		72	26	98	
Fluorescent Bulbs (Misc.)		122	158	280	
Misc. Mercury		1	1	2	
AUTOMOTIVE PRODUCTS					
Oil		1,760	3,241	5,001	
Oil Filters		100	210	310	
Antifreeze		1,234	612	1,846	
BATTERIES					
Household Batteries (Alkaline)		439	558	997	
Household Batteries (Lithium)		0	0	0	
Lead Acid Batteries		3,045	1,085	4,130	
GRAND TOTALS		34,331	28,261	62,592	

# 2011 Household Hazardous Waste

Collection Location Number of Participants	WEIGHT IN POUNDS				2011 Total
	April 2, 2011 Brownsburg 685	June 4, 2011 Danville 641	August 13, 2011 Avon 792	October 8, 2011 Plainfield 663	
<b>HHW</b>					
Household Paint (Non-Flammable and Flammable)	13,665	12,987	20,456	20,925	68,033
Flammable Liquid (Gasoline, Paint Thinner)	1,267	857	1,278	3,205	6,607
Flammable Liquid (Gasoline, Kerosene)	367	125	0	0	492
Flammable Liquid (Aluminum Paint)	0	213	201	203	617
Pesticides (Solids)--Sevin Chlordane	413	555	397	345	1,710
Pesticides (Liquid)--Malathion Chlordane	1,110	1,124	980	921	4,135
Oxidizing Liquid N.O.S. (Hydrogen Peroxide)	0	115	0	22	137
Oxidizing Solid: N.O.S. 5.1: UN 1479	75	0	0	1	76
Flammable Solid, Toxic, (Naphthalene, Mothballs)	0	0	98	0	98
Non-Regulated Fertilizers	300	150	459	259	1,168
Consumer Commodities (Pyrethins)	54	45	0	0	99
Consumer Commodities (Aerosols)	453	256	0	0	709
Consumer Commodities (Pyrethins/Aerosols)	0	0	654	1,212	1,866
Putty and Adhesives	1,178	1,876	1,201	697	4,952
Pertroleum Gases Liquified	240	590	260	300	1,390
Corrosive (Sodium Hydroxide)	150	158	203	109	620
Corrosive (Hydrochloric Acid)	210	168	321	276	975
Fire Extinguisher	80	110	80	110	380
Household Cleaners (Liquid)	1,010	659	1,699	1,123	4,491
Household Cleaners (Solid)	375	423	634	756	2,188
Pharmaceuticals-Non-Controlled	227	208	211	313	959
Pharmaceuticals-Non-Controlled-Aerosols	5	2	10	5	22
Pharmaceuticals-Controlled	16	14	27	15	72
Medical Sharps	61	63	60	71	255
<b>MERCURY</b>					
RQ Mercury	0	1	2	1	4
Fluorescent Bulbs (< 2ft)	8	0	0	0	8
Fluorescent Bulbs (4ft)	344	254	308	125	1,031
Fluorescent Bulbs (6ft)	0	0	18	0	
Fluorescent Bulbs (8ft)	52	36	68	97	253
Fluorescent Bulbs (Misc.--Halogen/Mercury Vapor)	11	5	2	8	26
CFL	335	179	109	239	862
<b>AUTOMOTIVE PRODUCTS</b>					
Oil	1,387	659	534	1,569	4,149
Oil Filters	100	101	143	112	456
Antifreeze	823	569	498	410	2,300
<b>BATTERIES</b>					
Household Batteries (Alkaline)	523	328	837	398	2,086
Household Batteries (Lithium)	2	1	3	22	28
Household Batteries (Ni-Cad)	0	0	5	68	
Lead Acid Batteries	1,590	2,940	3,430	525	8,485
<b>GRAND TOTALS</b>	<b>26,431</b>	<b>25,771</b>	<b>35,186</b>	<b>34,442</b>	<b>121,739</b>

# 2012 Household Hazardous Waste

Collection Location Number of Participants	WEIGHT IN POUNDS				2012 Total
	April 14, 2012 Brownsburg 813	June 2, 2012 Danville 669	August 11, 2012 Avon	October 6, 2012 Plainfield	
<b>HHW</b>					
Household Paint (Non-Flammable and Flammable)	20,415	18,762			39,177
Flammable Liquid (Gasoline, Paint Thinner)	2,134	2,873			5,007
Flammable Liquid (Gasoline, Kerosene)	367	0			367
Flammable Liquid (Aluminum Paint)	0	111			111
Pesticides (Solids)--Sevin Chlordane	629	415			1,044
Pesticides (Liquid)--Malathion Chlordane	1,427	903			2,330
Oxidizing Liquid N.O.S. (Hydrogen Peroxide)	0	48			48
Oxidizing Solid: N.O.S. 5.1: UN 1479	51	0			51
Flammable Solid, Toxic, (Naphthalene, Mothballs)	0	50			50
Consumer Commodities (Pyrethins)	18	0			18
Consumer Commodities (Aerosols)	1,195	1,002			2,197
Consumer Commodities (Pyrethins/Aerosols)	0	0			0
Putty and Adhesives	415	1,897			2,312
Non-Hazardous Defoamer	0	50			50
Petroleum Gases Liquified	450	720			1,170
Fluorinated Hydrocarbon Nitrogen Gases	180	0			180
Corrosive (Sodium Hydroxide)	213	232			445
Corrosive (Hydrochloric Acid)	345	329			674
Non-Regulated Fertilizers	198	204			402
Fire Extinguisher	130	100			230
Household Cleaners (Liquid)	2,156	1,203			3,359
Household Cleaners (Solid)	483	438			921
Pharmaceuticals-Non-Controlled	379	388			767
Pharmaceuticals-Non-Controlled-Aerosols	8	4			12
Pharmaceuticals-Controlled	48	29			77
Medical Sharps	101	59			160
<b>MERCURY</b>					
RQ Mercury	0	1			1
Fluorescent Bulbs (< 2ft)	29	0			29
Fluorescent Bulbs (4ft)	305	75			380
Fluorescent Bulbs (6ft)	0	0			0
Fluorescent Bulbs (8ft)	32	228			260
Fluorescent Bulbs (Misc.--Halogen/Mercury Vapor)	3	2			5
Round	6	0			6
CFL	407	256			663
<b>AUTOMOTIVE PRODUCTS</b>					
Oil	2,413	2,534			4,947
Oil Filters	100	111			211
Antifreeze	803	2,415			3,218
<b>BATTERIES</b>					
Household Batteries (Alkaline)	623	587			1,210
Household Batteries (Lithium)	4	8			12
Household Batteries (Ni-Cad)	0	20			20
Lead Acid Batteries	2,220	2,625			4,845
<b>GRAND TOTALS</b>	<b>38,287</b>	<b>38,679</b>	<b>0</b>	<b>0</b>	<b>76,946</b>

## **PART H: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL- MCM 4**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

See the following attached pages

- b) Describe program implementation partnerships and explain successes and barriers during this reporting period.

See the following attached pages

- c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (A).

- d) Identify the number and types of training opportunities that were provide to contractors, developers, and builders during this permit period.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (C)

- e) Identify MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall. Identify training provided to MS4 personnel responsible for these activities during this reporting period.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (C)

“ABC’s of BMPs: Buttoning Up Large Sites in Small Time” Forester University webcast presented by John McCullah CPESC- 2 employees attended

“Stormwater Inspection and Maintenance” Forester University webcast- 4 employees viewed

Plan review of disturbances, 1 acre or more, is contracted out to an engineering firm. Plan reviewers of this firm maintain CPESC certifications or Professional Engineering licenses. Continuing education is required for CPESC and PE. There are four possible reviewers, inspectors, and enforcement personnel for the Town of Brownsburg.

Three Town employees received Envirocert Certifications during this reporting period.

2 CESSWI

1 CPESC

1 CMS4S

- f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.

None were made during this reporting period.

- g) Other:

## **Plan Review for SWPP and Erosion and Sediment Control**

A)

Construction plans are currently submitted to the Brownsburg Planning and Building Department, where plan reviews are coordinated. 100% of construction projects meeting the requirements of 327 IAC 15-5 (Rule 5) are reviewed for SWPP and Erosion and Sediment Control measures.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (A).

## **Erosion and Sediment Control Hotline**

A)

Complaints, information requests, and inquiries related to construction site erosion and sediment control have been incorporated into the Stormwater Hotline.

Please see Part D: Program Management, (h) for a summary of complaints received.

See Part G: Illicit Discharge Detection and Elimination Citizen Watch/Stormwater Hotline BMP for summary of type of complaints received.

## **Erosion and Sediment Control Inspections**

A)

Brownsburg has developed policies and procedures for erosion and sediment control inspections and assumed responsibilities for inspections. Inspections are coordinated through the Planning and Building Department.

Please see Part E: Public Education and Outreach: Erosion Control Education for Construction Sites BMP (A).

## **Enforcement of Erosion and Sediment Control Requirements**

A)

As required, Brownsburg will take enforcement actions for noncompliance with the construction site runoff control program requirements.

Please see Part E: Public Education and Outreach: Erosion Control Education for Construction Sites BMP (A).

## **Training of Reviewers and Inspectors**

A)

100% of MS4 reviewers and inspectors will receive training on an annual basis.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (C)

“ABC’s of BMPs: Buttoning Up Large Sites in Small Time” Forester University webcast presented by John McCullah CPESC- 2 employees attended

“Stormwater Inspection and Maintenance” Forester University webcast- 4 employees viewed

Plan review of disturbances 1 acre or more are contracted out to an engineering firm. Plan reviewers of this firm maintain CPESC certifications or Professional Engineering licenses. Continuing education is required for CPESC and PE. There are four possible reviewers, inspectors, and enforcement personnel for the Town of Brownsburg.

Three Town employees received Envirocert Certifications during this reporting period.

2 CESSWI

1 CPESC

1 CMS4S

## Identification of Priority Construction Sites

A)

The criteria for priority sites will be based on the nature and extent of construction, proximity to sensitive areas, steep topography on proposed construction site, proximity to wetlands, and potential for direct run-off to receiving waters. Of the 15 plans reviewed during this reporting period, 7 were identified as a priority site. See table below.

<b>Project Name</b>	<b>Date Reviewed</b>	<b>Reason</b>
Bersot 3B	August 2011	potential for direct runoff to a receiving water
Bersot 4	October 2011	potential for direct runoff to a receiving water
Northfield at Wynne 2C	July 2011	potential for direct runoff to a receiving water
Heritage Hills	July 2011	steep topography on the project site
Commons at Wynn Farms	February 2011	potential for direct runoff to a receiving water
Vance and Hines	August 2011	potential for direct runoff to a receiving water
Walsh Rule 5	April 2011	nature and extent of construction, potential for heavy soil tracking onto adjacent roadway

## Erosion Control Construction Plan Review for MS4 Projects

For those construction activities operated by the MS4 operator or MS4 municipalities within the MS4 area, 100% of construction plans for MS4 projects greater than or equal to one acre of land disturbance will be submitted to the County SWCD for construction site erosion and sediment control plan review.

The Town of Brownsburg had 8 projects that qualified for a Rule 5 permit. All construction plans were submitted to Hendricks County Soil and Water Conservation District for review.

## **PART I: POST CONSTRUCTION STORMWATER RUNOFF CONTROL- MCM 5**

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.

Identify MS4 personnel responsible for implementation of this MCM. Identify training provided to MS4 personnel responsible for these activities during this reporting period.

See the following attached pages

- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.

See the following attached pages

- c) Describe program implementation partnerships and explain successes and barriers.

See the following attached pages

- d) Identify updates or revisions to the storm water ordinance or other regulatory mechanism made during this reporting period.

No revisions were made during this reporting period.

- e) Other:

## **Post Construction Training**

A)

MS4 area personnel responsible for plan review, inspection, and enforcement of post construction BMPs will receive annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Post construction BMP training will be conducted annually for reviewers and inspectors.

Please see Part E: Public Education and Outreach Erosion Control Education for Construction Sites BMP (C)

“ABC’s of BMPs: Buttoning Up Large Sites in Small Time” Forester University webcast presented by John McCullah CPESC- 2 employees attended

“Stormwater Inspection and Maintenance” Forester University webcast- 4 employees viewed

Post Construction plan review is contracted out to an engineering firm. Plan reviewers maintain Professional Engineering (PE) licenses. Continuing education is required for PEs.

C)

Through the Hendricks County Partnership for Water Quality a “Post Construction BMPs for Professionals” workshop was given in January of 2011. There were 65 attendees. Three Brownsburg personnel attended. Those Brownsburg personnel that attended were not limited to just reviewers or inspectors, instead those that maintain these BMPs or would get called out to inspect were in attendance.

## **PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING- MCM 6**

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.

See the following attached pages

- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.

See the following attached pages

- c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.

See the following attached pages

- d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.

2010: Training was held before reporting period.

2011: December 2011. Please see agenda attached. 26 Field personnel

2012: Not during this reporting period

- e) Other:



# Good House Keeping Pollution and Prevention Training



## 2011 AGENDA

December 6, 2011 9:00 am -10:30 am

December 6, 2011 1:00 pm - 2:30 pm

December 8, 2011 9:00 am- 10:30 am

- ◆ Sign-IN
- ◆ Introduction
- ◆ Terms
  - ◆ Stormwater
  - ◆ Impervious surface
- ◆ Overview of Legislation
  - ◆ Clean Water Act
  - ◆ Indiana Stormwater Management Rules
    - ◆ Rule 5
    - ◆ Rule 6
    - ◆ Rule 13
- ◆ Requirements of Rule 13 Permit
- ◆ Stormwater Pollution Prevention Plan
- ◆ Best Management Practices
  - ◆ Definitions and examples
    - ◆ Catch Basin/Inlet Cleaning
    - ◆ Roadside Shoulder and Ditch Stabilization
    - ◆ Stabilization of Bare Soils
    - ◆ Litter Pick-up
    - ◆ Street sweeping
    - ◆ Outfall Scouring Repair
    - ◆ Road Salt and Sand Storage
    - ◆ Snow Stockpiling
    - ◆ Chemical Storage
    - ◆ Spill Clean-up
    - ◆ Vehicle and Equipment Maintenance
    - ◆ Vehicle and Equipment Washing
    - ◆ Refueling Operations
- ◆ IDDE
- ◆ Video
  - ◆ Additional BMPs
    - ◆ Waste Management
    - ◆ Fertilizer and Pesticide Application
- ◆ Quiz

There were 26 municipal employees that attended this training.

## **Water Quality for Flood Control Projects**

A)  
New flood management projects within the Town of Brownsburg will address stormwater quantity and evaluate the potential for addressing stormwater quality.  
The Town of Brownsburg did not have any Flood Control Projects during this reporting period.

## **Training for Municipal Employees**

A)  
The Town of Brownsburg will conduct annual training for municipal employees. All best management practices will be addressed annually at training sessions. Training session will include the following topics as appropriate: litter pick-up; catch basin cleaning procedures; street sweeping procedures; maintenance of roadside vegetation and ditch stabilization; outfall inspection; outfall scouring repair; road salt storage and application; designated snow stockpile area; chemical storage practices; vehicle and equipment maintenance; spill prevention and clean-up practices; fertilizer/pesticide use; recycling and waste disposal.  
Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Municipal Litter Pick-Up**

A)  
Litter is removed from Arbuckle Acres, Williams, Stephens, and Cardinal/Delaware property parks, municipal properties and grass-covered right-of-ways during mowing activities. Municipal employees remove litter throughout the year from these public areas. On-going annual training for municipal employees is provided.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Road Salt Storage and Application Practices**

A)  
Road salt is stored in a three sided roofed structure at the Street Department. The salt storage operators will maintain the salt piles in a physical condition such that the leading edge of the pile is sufficiently back from the roof line. This will minimize the salt's potential for exposure to stormwater.

On-going annual training for municipal employees is provided.  
Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

The total amount of road salt applied each year:

2010/2011 season: 1,400 tons

2011/2012 season: 600 tons

## **Snow Disposal Areas**

A)  
A flat grassy strip at Williams Park has been designated as the storage location for excess snow collected by municipal operations. This area is an adequate distance from any receiving stream. The snow disposal area is only utilized when snowfall accumulation is excessive. The Town will assure that this BMP is included in annual training events.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Municipal Chemical Storage Practices**

A)

Perform annual training for all municipal employees on chemical storage.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Spill Prevention and Clean-Up for Municipal Operations**

A)

The MS4 currently has three fueling sites (Fleet, Arbuckle Park, and the Street Department) for the fueling of equipment. Dry adsorbents are stored at both facilities to be used in the event of a spill. The ASTs containing the fuel are equipped with secondary containment. All fleet vehicles are fueled at Fleet Maintenance. On-going annual training of municipal employees is conducted covering spill prevention and clean-up for municipal operations.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

C)

Spill Kit Signage was added above every spill kit.

## **BMPs for Vehicle Maintenance Areas**

A)

Vehicle maintenance is performed at the Fleet Maintenance Department. Maintenance activities are conducted inside a garage building that is equipped with a floor drain connected to an oil/water separator which discharges to the sanitary sewer. The facility recycles transmission fluid and antifreeze through the use of cleaning and purification units stored indoors..

The Town will continue to implement BMPs for Vehicle Maintenance by providing refresher training annually for municipal employees.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **BMPs for Vehicle and Equipment Washing**

A)

Municipal vehicle and equipment washing should be conducted indoors where the wash water can either be collected, or where floor drains are connected to a sanitary sewer. Annual training includes BMPs for vehicle and equipment washing.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Catch Basin Cleaning**

A)

Catch basins within the Town's combined and separate storm sewer areas are routinely cleaned with a Vac-Truck. Material removed from catch basins is taken to the WWTP drying beds and ultimately hauled to a landfill for disposal. The amount collected from catch basins is below.

2010: 44.61 wet tons

2011: 21.63 wet tons

2012: 0

B)

The Vac-Truck was out of service for parts of 2012.

## **Street Sweeping**

A)

Municipal streets are swept with a street sweeper within the Town limits of Brownsburg. Each street is swept 3 to 4 times per year. Material removed through sweeping operations is taken to the WWTP drying beds and ultimately hauled to a landfill for disposal. The amount of material collected from street sweeping activities is below:

2010: 45.47 wet tons

2011: 142.51 wet tons

2012: 118.68 wet tons

## **Maintenance of Roadside Shoulders and Ditches**

A)

The Town will perform roadside shoulder and ditch stabilization as required for areas that have become eroded or unvegetated. Training shall be conducted for municipal employees to identify problem areas and learn appropriate stabilization techniques. Problem areas may be identified during mowing operations. For areas maintained by the Town, grass covered areas will be reseeded as needed to re-establish appropriate vegetation.

3,288 linear feet of pipe and 3,230 linear feet of open conveyance.

Please see Part J: Municipal Operations Pollution Prevention and Good Housekeeping, (d)

## **Outfall Scouring Repair**

A)

The MS4 will conduct dry weather inspections at all storm sewer outfalls at least annually. Outfalls will be evaluated for erosion scouring conditions during outfall inspections. During this reporting period no outfalls were stabilized. 6 pond outlets were stabilized.

Please see Part G: Illicit Discharge Detection and Elimination-Outfall Screening for Illicit Discharges BMP.

## **BMPs for Pesticide/Fertilizer Use**

A)

The Town of Brownsburg ensures that all pesticides and fertilizers are applied to municipal properties by licensed and trained individuals and the minimum amount of lawn chemicals are applied to achieve the desired result. The total amount of fertilizers and pesticides applied each year are below.

30,600 lbs of fertilizer

75 gallons and 150 pounds of pesticide

The fertilizer is applied to approximately 50 acres per year. Much of the pesticide application is applied for mosquito control.

There are 3 licensed applicators for the Town of Brownsburg. Both the Parks Department and the Street Department have developed Pesticide and Fertilizer Plans which outline the location and product that can be used.

## Canine Parks

There are currently no known canine parks located within the MS4.

## Recycling and Waste Disposal for Municipal Operations

A)

Used oil, transmission fluid, antifreeze, and tires generated by Municipal Operations are recycled. An attempt will be made to recycle other materials as appropriate. The amount recycled is below.

Oil	1,370 gallons
Oil Filters	Six 55 gallon barrels
Antifreeze	100 gallons
Tires	368 tires
Scrap Metal	30,000 pounds
Tree Limbs	960 cubic yards
Plastic Bottles & Aluminum Cans from Park	150 pounds

Used batteries are traded in. Florescent light bulbs are ground down and collected in a 55 gallon drum. Plastic playground slides are recycled. Paper is recycled and placed in an Abitibi Paper Retriever bin.