RULE 13 STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) -
PART B: BASELINE CHARACTERIZATION AND REPORT CERTIFICATION CHECKLIST

State Form 51275 (3-03)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:
IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
P.O. Box 6015
Indianapolis, IN 46206-6015
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)
Web Access:
http://www.IN.gov/idem/water/compbr/wetwthr/storm/rule13.html

NOTE:

- This form must be used for compliance with a general NPDES permit pursuant to 327 IAC 15-13.
- Submit this completed form with a complete "SWQMP – Part B: Baseline Characterization and Report" in accordance with 327 IAC 15-13-7.
- Return this form, and any required addenda by mail to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

PART A: SWQMP CHECKLIST

► **Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.**

X	NA	ITEM
☑		**1.** Plan submitted within one hundred eighty (180) days of the NOI letter submittal or the expiration date of the previous 5-year permit term
		2. Baseline characterization includes:
☑		a) An investigation of land usage within the MS4 area
☑		b) The identification and assessment of structural and nonstructural storm water BMP locations
☑		c) The identification of known sensitive water areas
☑		d) A review of known existing and available monitoring data of the MS4 area receiving waters
☑		e) The identification of areas having a reasonable potential for, or actually causing, storm water quality problems
☐	☑	f) Other (please specify):
		3. Characterization report includes:
☑		a) Conclusions, such as key observations or monitoring points in the MS4 conveyances, derived from the land usage investigation
☑		b) Characterization results of BMP locations and, as appropriate, the structural condition of the BMP, related to the BMP's potential or actual effectiveness in improving storm water quality
☑	☐	c) The characterization includes recommendations for placement and implementation of additional BMPs
☑		d) Identification of areas, such as public beaches or surface drinking water sources, that potentially or actually require added water quality protection considerations
☑	☐	e) Any correlative conclusions that can be drawn from a review of existing monitoring data that assists the MS4 Operator in identifying potential or actual storm water quality problem areas
☑	☐	f) The identification of areas or sources potentially or actually causing storm water quality problems
☐	☑	g) Other (please specify):
☑		**4.** SWQMP - Part B: Baseline Characterization and Report has been signed by a Qualified Professional and the MS4 Operator

PART B: CERTIFICATION AND SIGNATURE

► The Qualified Professional and the MS4 Operator (referenced in Part A, Item #4 of this form) must sign the following certification statement and provide the pertinent NPDES permit number:

"By signing this checklist, I hereby certify under penalty of law that this protocol was 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."

Name of Qualified Professional: Brent A. Siebenthal, M.D. Wessler and Associates
(typed or printed)

NPDES Permit #: INR040 025

Signature of Qualified Professional: Brent C. Siebenthal **Date:** 4/12/04
(mm/dd/year)

Name of MS4 Operator: Dennis Kelly, Assistant Water Superintendent
(typed or printed)

Signature of MS4 Operator: Dennis J. Kelly **Date:** 4-13-04
(mm/dd/year)

STORM WATER QUALITY MANAGEMENT PLAN

PART B
BASELINE CHARACTERIZATION REPORT

AS REQUIRED BY:

327 IAC 15-13
Rule 13 NPDES Permit for Municipal Separate Storm Sewer Systems

PREPARED FOR:

Town of Edgewood
NPDES Storm Water Permit #INR040025

PREPARED BY:

M. D. WESSLER and ASSOCIATES
Consulting Engineers

6219 South East Street, Suite A
Indianapolis, IN 46214
www.mdwessler.com

SUBMITTED TO IDEM:

April 15, 2004

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Chapter 1 - Part B Overview

Introduction

As required by 327 IAC 15-13 (Rule 13), the Town of Edgewood must obtain an NPDES permit for its Municipal Separate Storm Sewer System (MS4). The Town must develop and implement a Storm Water Quality Management Plan (SWQMP), which has been divided into the following three phases:

- Part A - Notice of Intent (NOI) and Permit Application
- Part B - Baseline Characterization and Report
- Part C - Program Implementation

In compliance with Rule 13, Edgewood's Part A was submitted to the Indiana Department of Environmental Management (IDEM) on November 3, 2003. A Notice of Sufficiency and permit number INR040025 was issued by IDEM on November 18, 2003. The Part B characterization must be completed and submitted within 180 days of the submittal date of Part A (May 1, 2004). Following the Part B submittal, Part C of the storm water program must be developed and submitted to IDEM within 365 days of the Part A submittal (November 2, 2004).

Purpose

The purpose of this report is to collect baseline characterization data for Edgewood's MS4. The characterization, summarized in this report, includes the collection of existing water quality data for receiving streams and/or outfall discharges; an investigation of land usage; an assessment of existing structural and non-structural storm water Best Management Practices (BMPs); the identification of sensitive areas; the identification of areas known to have pollution problems; and recommendations and conclusions. This information will be used as a reference point for developing and implementing Part C of the SWQMP.

Chapter 2 - Existing Characterization

Existing Land Uses Contributing to Outfalls

Land use information was compiled using aerial photographs, windshield surveys, and the knowledge of the planning team. In addition, a land use map had been prepared previously for the Town's Phase I Wellhead Protection Plan and this information was utilized. Edgewood consists primarily of residential areas, some parks and recreational land. Residential land includes both single and multi-family dwellings. There is also a small section of commercial property, including two gas stations. Commercial land is generally found along State Road 32 east of Central Way. Edgewood has two discernible outfalls as follows:

- The Logamar Lane Outfall drains the Edgewood Elementary School (property of the Anderson School System, located outside of Edgewood's Town limits) parking lot and a residential area. This outfall collects storm water drainage in the northeast portion of Edgewood and discharges to an open ditch within the corporate limits of Anderson. The open ditch outfalls to the White River and is approximately 1,000 feet in length as measured from the Logamar Lane Outfall to the White River.

- The 8th Street Outfall drains commercial and residential areas in Edgewood. This outfall collects storm water from the remaining areas of Edgewood and discharges to an open ditch under the jurisdiction of the City of Anderson. The open ditch flows through a storm water pond which outfalls to another open ditch. Storm water from the 8th Street Outfall location travels approximately 0.75 miles to the northwest where it enters its initial receiving water, the White River.

Residential and commercial are the primary land uses within Edgewood's MS4 area. Potential activities and storm water pollutants associated with each land use are as follows:

Residential Land Use
- The storage, use and disposal of common household chemicals.
- Application of pesticides and fertilizers on lawns and gardens.
- Automobile maintenance activities (car washing, oil changing, etc.)

Commercial Land Use
- The storage, use and disposal of cleaners, solvents, paints and other similar chemicals.
- Application of pesticides and fertilizers during landscape maintenance activities.
- Oils and greases deposited in parking lots from parked vehicles.
- Use and storage of petroleum products (e.g. vehicle refueling and fuel storage). Gas stations in Town do not perform oil changes.

Known Sensitive Areas

Sensitive areas in the Town of Edgewood were defined, according to 327 IAC 15-13-5, as areas containing habitat for threatened or endangered species, areas used for full-body contact

recreation, areas within a ten mile radius of an intake for public water supply, and waters defined as "exceptional" or "outstanding" by the Indiana Department of Natural Resources.

Threatened or Endangered Species

A search was conducted by the Indiana Department of Natural Resources, Department of Nature Preserves. There are no endangered, threatened, or rare species, high quality natural communities, or natural areas in Edgewood. The U.S. Fish and Wildlife Service was also contacted and verified that there are no threatened or endangered species present in Edgewood; also, no threatened or endangered species habitats are located within or near Edgewood.

Areas for Full-Body Contact Recreation

There are no areas for fishing, swimming, or other water recreation activities in Edgewood.

Drinking Water Supply Sources

According to Purdue University Extension and IDEM drinking water branch websites, there are no intakes for public water supply within five miles upstream or downstream or within a ten mile radius of any outfall. This information was obtained at the following web sites:

http://www.ecn.purdue.edu/SafeWater/watershed/maps/index.html
http://www.in.gov/apps/idem/sdwis_state/index.jsp

Waters defined as "Exceptional" or "Outstanding"

The Town of Edgewood does not discharge storm water to water bodies identified as Exceptional Use or Outstanding, according to the Indiana Natural Resource Commission website and IDEM Rule 327 IAC 2-1-11(b) Section 3(a)(6). The White River is not listed as Exceptional or Outstanding. This information was verified using the following web sites:

http://www.state.in.us/nrc/policy/outstand.html
http://www.in.gov/idem/water/npdes/permits/wetwthr/storm/appdxa.html

Potential pollution problems

Local knowledge of the storm water planning team members and visual inspections conducted by municipal employees and M. D. Wessler and Associates, Inc. (MDWA) were used to evaluate existing pollution problems.

- In the past, there have been occasional, minor gasoline spills at the Milk Barn Gas Station. The Milk Barn has recently installed monitoring wells on its property.
- Storm water from outside of Edgewood enters the Town's storm sewer system along the western edge of the Town. Land uses contributing to these areas are mostly agricultural and rural residential. Potential contaminants might include, septic system waste from malfunctioning residential systems, fertilizers, pesticides and other fuels or chemicals used for farming.

Summary of Existing Monitoring Data

Currently, the Town of Edgewood conducts periodic visual outfall inspections. Storm water pollution problems are addressed on an as-needed basis. Other sources of potential monitoring data were evaluated as well. The following list includes those sources researched for existing and/or historical water quality data:

- Hoosier River Watch – no data is available for receiving streams.
- NPDES permitted facilities – no facilities in Edgewood
- Stacy Sobat at IDEM was contacted to determine if a Fish Community Assessment study has been completed – Data was obtained for a study completed on the White River upstream and downstream of Edgewood in 2004.
- Todd Davis at IDEM was contacted to determine if a Macroinvertebrate Community study has been completed - no data was available for the receiving waters.
- Chuck Bell at IDEM was contacted to determine if a Pesticide Monitoring, Fixed Station Ambient Monitoring, Watershed Surveys, Source Identification, E. Coli Monitoring, or Special study has been completed - Data was obtained from a 2002 metals study completed in Anderson; Field data collected in 2001 upstream and downstream of Edgewood; a General Chemistry Study completed in 2001; and an Organics Study conducted upstream of Edgewood in 2001.
- Staci Goodwin IDEM was contacted to determine if a TMDL Study had been completed for the receiving waters - no studies have been completed.
- Fish and Wildlife Service webpage - no studies have been completed for receiving streams.
- USGS webpage - no studies have been completed for receiving streams.
- Fish Consumption Advisory- several species in Madison County in the White River are listed.

Available Stream Characterization Data

A review of existing stream data (references listed above) has not identified any storm water quality problems or pollution sources in Edgewood. Comparison of data collected upstream and downstream of Edgewood shows that the Town is not contributing significantly to storm water pollution. A summary of the available chemical and biological data is included below.

Chemical Data

Very low, mostly undetectable levels of pesticides were observed in the White River samples upstream of Edgewood (in Anderson) in 2001. No downstream data was available for comparison.

Metals testing conducted on samples collected upstream and downstream of Edgewood had similar values. One 2003 sample downstream of Edgewood exceeded TMDL limits for Zinc. Based on the land use investigation, there are no suspected sources of metals pollution in Edgewood's storm water.

Field data collected in 2001 showed similar values for dissolved oxygen, pH, and turbidity upstream and downstream of Edgewood. All data was within normal ranges according to Indiana 327 IAC 2-1-6 for minimum surface water quality standards. Downstream data had one incidence of high pH. This pH value was 8.26 and the maximum allowable pH for aquatic life according to Hoosier Riverwatch is 8.2. High pH levels were common upstream of Edgewood as well. These results do not indicate that storm water pollution is present in Edgewood.

An organic chemical study performed in Anderson in 2001 upstream of Edgewood showed that all organic chemical levels were below detection limits. No downstream data was available for comparison.

Biological Data

Data from a Fish Community Assessment Study performed by IDEM in 2004 showed that total habitat scores were similar upstream (69 out of 100) and downstream (74 out of 100) of Edgewood. More fish species and greater species diversity was observed downstream of Edgewood. Fish Community Biotic Integrity was significantly higher downstream (46 out of 60) than upstream (28 out of 60).

The Town of Edgewood will use the Indiana Fish Consumption Advisory, published by IDEM and the IDNR, as an indicator for monitoring the health of the White River. The following fish in the Madison County section of the White River are listed in the 2003 Indiana Fish Consumption Advisory as possibly containing PCBs placed in advisory groups.

- Green Sunfish, advisory group 2 (eat only 1 meal per week for fish 4-6" inches in length) and advisory group 3 (eat only 1 meal per month for fish greater than 6").
- Longear Sunfish, advisory group 2
- Rock Bass, advisory group 2
- Spotted Sucker, advisory group 3

Should these fish be moved to a lower advisory group or removed from the list, this will likely indicate that the health of the biological community in the White River will have improved.

Complaint information

When public complaints are received at the Town Hall, they are addressed as needed. In the past, storm water complaints have pertained to flooding and drainage problems. No storm water quality complaints have been reported.

Recommendations and Conclusions

After evaluating existing land uses, sensitive areas, known pollution problems, and existing monitoring data within the Edgewood MS4, the following recommendations and conclusions were determined by the MS4 operator, storm water planning team, Town officials and MDWA:

- Land use in Edgewood is predominantly residential; therefore storm water education, public outreach and other BMPs developed in Part C of the SWQMP should focus primarily on residents and residential areas.

- The majority of business and commercial areas within Edgewood (i.e. gas stations, businesses with parking lots, etc.) have existing storm water BMPs in place. Existing structural and nonstructural BMPs are described in Section 4 of this report. BMPs developed in Part C will focus on educating business owners in maintenance of storm water BMPs and training of employees.

- Based on the Rule 13 definition, there are no sensitive areas within the MS4 area for Edgewood.

- Data collected from the Milk Barn's monitoring wells could be requested from the owner and used to determine if the gas station represents a potential contributor to storm water pollution. BMPs will be recommended to both gas stations.

- Consider additional monitoring at locations were storm water enters Edgewood's system from agricultural areas to the west and south of the Town. Monitoring at these locations will provide more accurate information on pollutants entering the storm water system from area outside of Edgewood's jurisdiction.

- The Town should continue to use its system for addressing public complaints. Designate a contact person to receive public complaints for storm water pollution problems. Develop a method for recording and tracking each complaint.

- Baseline characterization from several sources suggests that Edgewood's storm water is not negatively impacting receiving waters. Further monitoring implemented in the Ongoing Monitoring Plan will track water quality over time.

Chapter 3 - Ongoing Monitoring

The primary storm water pollution concern addressed by the Storm Water Planning Team included possible minor gasoline spills at gas stations. The Team was not specifically concerned with pollution from residential areas. Because there are no industrial activities and very few commercial businesses within the MS4 area for Edgewood, storm water monitoring will be limited to visual inspections of the two outfall locations. No internal monitoring is proposed at this time. Additional monitoring and/or investigation will be incorporated if pollution problems are detected.

Visual monitoring of the outfalls will allow Edgewood to establish more baseline information and monitor improvements in storm water quality that result from implementing the SWQMP. Visual inspections will be conducted during wet weather to monitor for signs of storm water pollution.

Dry weather inspections will be conducted and will utilize the same visual as used for wet weather sampling. This will be further developed as the Illicit Discharge Minimum Control Measure in Part C of this program.

Proposed Monitoring Program

The Ongoing Monitoring Program will include visual inspections of both storm water outfalls during wet and dry weather conditions. The following items generally describe the monitoring program:

- Both outfalls will be visually inspected for signs of storm water pollution two times a year, spring and summer (once in April or May and once in July or August) during wet weather by an Edgewood municipal employee
- Wet weather monitoring should be conducted during a rain event that is greater than 0.1 inch of total rainfall and at least 72 hours from the previously measurable rain event.
- Visual inspections should be conducted within 30 minutes of the start of the rain event in order to monitor the "first flush" of the storm water runoff.
- Monitoring data will kept on file at the Edgewood Water Plant. This information will be compiled at least once a year and presented in an annual report.
- Dry weather inspections will be conducted at both outfalls once a year.

Visual Inspections

Both storm water outfalls will be evaluated through visual inspections. The inspection will examine each location for the outfall condition, erosion and scouring present at the outfall, the amount of flow, and signs of pollution. (such as odor, chemical sheen, color, etc.). Photographs should be taken to assist in documenting pollution problems. An example inspection form is included as Appendix A. These inspections will allow an opportunity to identify potential signs of pollution.

Chapter 4 - Evaluation of Best Management Practices (BMPs)

Existing Storm Water BMPs (structural and non-structural)

Existing structural and nonstructural storm water BMPs located within the Town of Edgewood have been inspected and evaluated. All existing storm water BMPs and activities that improve the quality of storm water within Edgewood will be incorporated into Part C of the SWQMP. Following is a brief description of each BMP. Refer to Appendix B for BMP inspection/evaluation summary tables.

Vegetated swales

Businesses in Edgewood were surveyed for the presence of vegetated swales. The majority of the parking lots (commercial, municipal and churches) in Edgewood drain to vegetated swales prior to entering underground storm sewers. Vegetated swales trap sediment, slow the flow of storm water and promote the settling of sediment and pollutants. Collected information is summarized in the following table:

Areas Draining to Vegetated Swales	**Location**
Water Treatment Plant	526 Winding Way
Edgewood Shops West	3625-3639 Nichol Ave.
Edgewood Country Club	519 Golf Club Road
Edgewood School (located outside of Edgewood, but draining into Edgewood's MS4)	3525 Winding Way
Winding Way Park	Winding Way and Knoll Drive
Barber Shop	3321 Nichol Ave.
Edgewood Town Hall	3405 Nichol Ave.
Milk Barn Gas Station	3505 Nichol Ave.

Vegetated swales were evaluated on March 11, 2004 by the MS4 operator and MDWA. All swales are adequately maintained and appear to be functioning properly.

Storm Water Ponds

Three locations, within Edgewood's MS4, control their storm water runoff through the use of detention and retention ponds. Storm water ponds provide water quality benefits through the removal of total suspended solid (TSS) as well as some nutrients and metals. The following storm water pond locations within Edgewood's MS4 were identified:

Business with Storm Water Pond	**Location**	**BMP**
Baptist Church	3741&3743 Nichol Ave.	dry detention pond
Church of God (located outside of Edgewood, but draining into Edgewood's MS4)	2205 Park Road	dry retention pond
Old National Bank	3607 Nichol Ave.	dry retention pond

Dry and wet ponds were evaluated on March 11, 2004 by the MS4 operator and a representative from M. D. Wessler and Associates. Two ponds located at the Edgewood County Club were also evaluated and found to be fed only by groundwater pumped by a

nearby well. All storm water ponds are adequately maintained and appear to be functioning properly.

Gas Station Improvements

In the past few years, older underground storage tanks throughout the state have been upgraded. The BP and Milk Barn gas stations located along State Road 32 in Edgewood have recently installed underground storage tanks equipped with leak-detection systems and durable tank wall material.

Oil/Water Separator

The Rickers BP gas station installed an oil/water separator when it was constructed to prevent pollutants (accidental spills, automobile fluids, oil, and grease) from entering the storm drainage system. The entire fueling area drains to a single inlet where storm water is managed by an underground oil/water separator. The 1,500 gallon tank is inspected quarterly by the gas station owner and is maintained and cleaned out as necessary.

Parking Lot Maintenance

Most businesses in Edgewood perform parking lot maintenance. This litter pick-up and parking lot cleaning prevents pollutants and trash from entering storm water runoff. Local businesses were surveyed to determine the extent of parking lot maintenance performed. The MS4 operator conducted a survey of area businesses and other parking lot owners. The results of this survey are summarized below.

Parking Lot	**Address**	**Maintenance Activity**
Old National Bank	3607 Nichol Ave.	A contracted company cleans parking lot twice per month.
Edgewood Shops West	3625-3639 Nichol Ave.	A contracted company cleans parking lot on an as-needed basis.
Baptist Church	3741-3743 Nichol Ave.	A contracted company cleans parking lot on an as-needed basis.
Water Treatment Plant	526 Winding Way	Maintenance personnel pick up litter on an as-needed basis.
Edgewood Country Club	519 Golf Club Road	Maintenance personnel pick up litter on an as-needed basis.
Edgewood School	3525 Winding Way	Maintenance personnel pick up litter on an as-needed basis and parking lot cleaning is conducted with city (Anderson) equipment.
Church of God	2205 Park Road	A contracted company cleans parking lot on an as-needed basis.
Liquor Store	1406 Park Road	A contracted company cleans parking lot on an as-needed basis.
Edgewood Shops East	3315 Cherry Road	A contracted company cleans parking lot on an as-needed basis.
BP Gas Mart	3304 Nichol Ave.	A contracted company cleans parking lot on an as-needed basis. Employees also monitor the parking lot and pick up litter as needed.
Dentist Office	3317 Nichol Ave.	The owner picks up litter on an as-needed basis.

Edgewood Fire Station	3321 Nichol Ave.	Maintenance personnel pick up litter on an as-needed basis.
Barber Shop	3401 and 3403 Nichol Ave.	A contracted company clean parking lot on an as-needed basis. Owner also monitors the parking lot and picks up litter as needed.
Edgewood Town Hall	3405 Nichol Ave.	Maintenance personnel pick up litter on an as-needed basis.
Milk Barn Gas Station	3505 Nichol Ave.	A contracted company cleans parking lot monthly.

Household Hazardous Waste Disposal and Used Automobile Fluids

Residents of Edgewood can participate in Madison County's Household Hazardous Waste Disposal opportunities in Anderson by calling 1-800-721-2208 or visiting www.madisoncounty.org to make a reservation. Waste collection days are advertised in the local newspaper.

Used automobile fluids generated by the municipality are disposed of at the Edgewood Service Center located at 2802 Nichol Avenue in Anderson. A local business, Dave's Express Lube located at 2834 Nichol Avenue in Anderson, accepts used oil in small quantities as well. In addition, there are several oil change and auto repair businesses in Anderson that accept used fluids.

Public Education

In accordance with Edgewood's Wellhead Protection Plan, the Town has begun to distribute literature and educational information and will begin to incorporate storm water pollution prevention information. In addition, a quarterly newsletter is published by the Town and mailed out to all businesses and residents in Edgewood. Storm water quality issues will be included at least annually. Possible topics include: water conservation practices residents and businesses can employ, proper use of fertilizers and pesticides, and proper disposal of motor oil and household hazardous wastes.

Public Participation and Involvement

In August 2003, the Town of Edgewood established a Storm Water Planning Team comprised of the Storm Water Committee members, municipal employees, and members of the general public. This team of individuals was brought together to provide assistance in developing and implementing the SWQMP required by the NPDES Storm Water Phase II permit. The planning team has met at least every other month since it was established.

Stream Clean-up and Adopt-a-Stream Program

The White River Club conducts stream clean-up along White River in Anderson twice a year. This BMP reduces the amount of floatables and other debris in receiving streams.

Designated Open Space/Green Space

Parks cover approximately 25 acres of the Town of Edgewood. These areas are designated open/green space. These open/green spaces provide benefits through a reduction in impervious surfaces and increase in natural areas. Green space allows for storm water to infiltrate into the ground, which helps in reducing the potential for sediments and other

pollutants to enter storm water conveyances and receiving streams. Following is a list of parks and their approximate areas.

Edgewood Park	19 acres
Wilkerson Park	1.5 acres
Windsor Park	1.0 acres
Winding Way Park	1.2 acres
Redwood Park	0.6 acres
Woods Park	1.0 acres

Storm Drain Cleaning

Since clogged drains can impede drainage and increase erosion problems, Edgewood manually cleans out catch basins after storm events and as needed. Storm water inlets and catch basins are cleaned periodically to reduce the amount of pollutants, trash and other debris in storm conveyances and receiving streams. Documentation of storm drain cleaning efforts will be incorporated into Part C of the SWQMP.

Road Salt Application and Storage Practices

During the winter months, road salt application and snow plowing are conducted by the municipality. Road salt is purchased as needed from Anderson and is not stored by Edgewood. Snow from public streets is pushed to the edge of the road. No snow is relocated or stockpiled. These practices assist in reducing the potential for storm water pollution.

Recommendations for Additional BMPs

- Incorporate existing BMPs listed in the above evaluation and summary into the SWQMP for Edgewood.
- Review existing inlet/catch basin cleaning procedures to incorporate recordkeeping as a task to be completed during Part C of this program.
- The Town should continue to promote existing hazardous waste disposal and recycling opportunities currently in place.
- Develop O&M manuals, maintenance schedules and/or inspection forms for property owners to promote proper functioning and maintenance of storm water ponds.
- BMPs will be recommended to the County Club to prevent the overuse of pesticides and fertilizers on the Golf Course.
- Based upon available information, there are no recommendations for the placement of additional structural BMPs.

APPENDIX A

VISUAL INSPECTION FORM

NPDES Storm Water Phase II Permit
Storm Water Monitoring Visual Inspection Form

General Information:

Inspection location: _____ Inspected by: _____

Temperature: _____ °F (air temperature) Date: _____

Rain: Y N (dry weather inspection) Time: _____

Estimated rainfall at time of sampling: _____ inches

Estimated total rainfall _____ inches
(rainfall must measure greater than 0.1 inches and occcur at least 72 hours from last rain event)

Flow Estimation:

Flow Observed: Y N Approximate depth of water _____ feet or inches

Conveyance type: Pipe or Channel

Channel width (top) _____ inches Pipe Diameter: _____ inches

(bottom) _____ inches

Visual Observation:

Odor: none musty sewage sulfur other _____

Foam: Y N possible source _____

Oil Sheen: Y N possible source _____

Color: clear colored (describe) _____

Turbidity: clear cloudy opaque suspended solids

Floatables: none garbage leaves/twigs other _____

Deposits/Stains: none sediment oil/fuel garbage other _____

Biological signs: none algae insect larvae describe: _____

Vegetation: normal excessive growth inhibited growth

Outfall Condition: none material cracking scouring describe: _____

MS4 Operator Certification:

Name: _____ Title: _____

Signature: _____ Date: _____

APPENDIX B

BMP INSPECTION SHEETS

STRUCTURAL BMP INSPECTION FORM

NPDES Storm Water Phase II Permit Program
Town of Edgewood, Indiana

date: 3/11/2004
inspected by: M. Sulya and D. Kelly

BMP description	Owner and Location	Description of drainage area served	Condition	Is the BMP Maintained?	Improving SW quality?	Pollutants removed	Describe deficiencies or malfunctions	Observations and Recommendations
~~2 Detention Ponds~~	County Club	Storm water does not enter these ponds. Water is pumped from wells.						Not a storm water BMP
Dry Retention Pond (infiltration)	Old National Bank	drains the bank property, including parking lot	Good condition	grassy areas are mowed	Yes	TSS and floatables	does not drain well	Recommend that an underdrain system is installed promote infiltration.
Dry detention Pond	Baptist Church	drains entire church property	Newly constructed	Mowed by the property owner	Yes	TSS and floatables		Was constructed with an underdrain system. Appears to function properly.
Oil/Water Separator	Ricker's BP Gas Station	Entire fueling area drains to the oil/water separator	Newly constructed	Yes - inspected quarterly and cleaned as needed.	Yes	TSS, O&G and floatables		1,500 gallon tank for oil/water separator.
Water Treatment Plant Vegetated Swale	526 Winding Way	parking lot for the water plant drains to this swale	Good condition	Mowed by the Town	Yes	TSS and floatables		litter is removed during mowing activities
Edgewood Shops West Vegetated Swale	3625-3639 Nichol Ave.	parking lot for the business plaza	Good condition	Mowed by the property owner	Yes	TSS and floatables		
Edgewood Country Club Vegetated Swale	519 Golf Club Road	Drains the Country Club parking lot	Good condition	Mowed by the property owner	Yes	TSS and floatables		This swale drains to another large swale in Winding Way Park
Edgewood School Vegetated Swale	3525 Winding Way	Drains the front of the school property	Good condition	Mowed by the school	Yes	TSS and floatables		

STRUCTURAL BMP INSPECTION FORM

NPDES Storm Water Phase II Permit Program
Town of Edgewood, Indiana

date: 3/11/2004
inspected by: M. Sulya and D. Kelly

BMP description	Owner and Location	Description of drainage area served	Condition	Is the BMP Maintained?	Improving SW quality?	Pollutants removed	Describe deficiencies or malfunctions	Observations and Recommendations
Church of God Dry Retention Area	2205 Park Road	Church Parking lot	Good condition	Mowed by the property owner	Yes	TSS and floatables		Low, grass-covered area (proposed parking lot) currently acts as an infiltration basin. Bermed edges contain storm runoff.
Barber Shop Vegetated Swale	3321 Nichol Ave.	Parking lot drains to the vegetated swale in front of the Town Hall.	Good condition	Mowed by the Town. Litter removed 2 times a week.	Yes	TSS and floatables		
Edgewood Town Hall Vegetated Swale	3405 Nichol Ave.	Drains the Barber Shop and Town Hall parking lots.	Good condition	Mowed by the Town. Litter removed 2 times a week.	Yes	TSS and floatables		
Milk Barn Gas Station Vegetated Swale	3505 Nichol Ave.	fueling area drains to the vegetated swale	Some stressed vegetation present	Mowed by the property owner	Yes	TSS and floatables		short vegetated swale.
Winding Way Park Vegetated Swale	Winding Way Park - owned by the Town	receives runoff from surrounding areas and the park	Good condition	Litter collected and mowed by the Town.	Yes	TSS and floatables		