

BMP 4: Educational Initiatives

Measurable Goal 1: Continue educational initiatives related to lawn care impacts on stormwater, including topics such as proper application of pesticides and fertilizers, mowing, backyard conservation, etc.

Reporting and Record Keeping: Archive publications; document number of publications distributed; document number of attendees to workshops and events.

Measurable Goal 2: Work with the Elkhart County Solid Waste Management District to continue educational initiatives on proper handling and disposal of solid waste.

Reporting and Record Keeping: Archive publications; document number of publications distributed; document number of attendees to workshops and events.

Measurable Goal 3: Continue public education programs on the hazards of illicit connections, illicit discharges, and spills.

Reporting and Record Keeping: Archive publications; document number of publications distributed; document number of attendees to workshops and events.

Measurable Goal 4: Continue educational initiatives related to pet waste.

Reporting and Record Keeping: Archive publications; document number of publications distributed; document number of attendees to workshops and events.

Measurable Goal 5: Continue educational initiatives related to watersheds and the relationship between land use, activities on the land, and water quality.

Reporting and Record Keeping: Archive publications; document number of publications distributed; document number of attendees to workshops and events.

3.2 PUBLIC PARTICIPATION AND INVOLVEMENT

The Elkhart County SWCD will continue to coordinate, support, and assist with public participation and involvement activities conducted by the cities of Elkhart and Goshen, Elkhart County, and private and public outreach groups in Elkhart County. For a greater impact, a Stormwater Education Committee has been created, with representation from all the partners, and is meeting regularly. The Committee has identified the following BMPs and Measurable Goals.

BMP 1: Continue to develop and implement a public participation and involvement program

Measurable Goal 1: Continue to review current public participation and involvement activities within the MS4 Area and implement a program to include constituents in stormwater activities.

Reporting and Record Keeping: Hold regular Stormwater Education Committee meetings and keep minutes. Catalogue and periodically review activities.

BMP 2: Survey constituent attitudes and willingness to volunteer

Measurable Goal 1: Advertise and market the web stormwater quiz (www.stormwaterelkco.org) and compare change in knowledge over time.

Reporting and Record Keeping: Review quiz statistics annually.

BMP 3: Continue to provide public notice of council, commission, and board meetings addressing stormwater issues

Measurable Goal 1: Continue to publicize dates and times for all meetings where stormwater related ordinances or management objectives are discussed.

Reporting and Record Keeping: Retain copies of public notices, meeting minutes, and lists of attendees where applicable.

BMP 4: Storm Drain Marking

Measurable Goal 1: Continue to test different storm drain markers to see which are feasible for the partnership.

Reporting and Record Keeping: Document number of storm drains marked and number of volunteers marking storm drains.

BMP 5: Promote rain barrels, rain gardens, and other Low Impact Development practices

Measurable Goal 1: Continue to implement a rain barrel/rain garden incentive program.

Reporting and Record Keeping: Document participants in the program, numbers of rain barrels and rain gardens installed, and number of attendees at related workshops.

Measurable Goal 2: Hold a field day or workshop related to Low Impact Development practices at least once per permit cycle.

Reporting and Record Keeping: Document number of attendees at workshops.

3.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

The IDDE program will continue current activities by the partner entities. The following additional activities will be implemented under this program.

BMP 1: Storm Conveyance Mapping

Measurable Goal 1: Each entity will keep their conveyance maps up to date by incorporating new stormwater conveyances and outfalls or changes to existing conveyances and outfalls as they are developed.

Reporting and Record Keeping: Continued updates to stormwater conveyance map.

Measurable Goal 2: By November 2013, all remaining public outfall conveyance systems that were not mapped in the first permit cycle will be mapped.

Reporting and Record Keeping: Continued updates to stormwater conveyance map.

BMP 2: Continued implementation of ordinances and other regulatory mechanisms that prohibit illicit discharges into the MS4 conveyances

Measurable Goal 1: Each entity will continue to enforce ordinances and policies that prohibit illicit discharges into MS4 conveyances.

Reporting and Record Keeping: Actions taken will be documented.

BMP 3: Continue programs that detect, address, and eliminate illicit discharges, including illegal dumping, into the MS4 conveyance system.

Measurable Goal 1: Use dry weather screening or other means to determine location of potential illicit connections and remove or otherwise correct those illicit connections.

Reporting and Record Keeping: Actions taken will be documented.

Measurable Goal 2: Continue to identify active industrial facilities within the MS4 area that discharge into an MS4 conveyance.

Reporting and Record Keeping: Document name, address, telephone number, and Standard Industrial Classification (SIC) code of each facility.

BMP 4: Continue education programs about the hazards associated with illicit discharges and improper disposal of waste (see section 3.1, BMP 4, Goal 3).

BMP 5: Continue existing recycling programs for commonly dumped wastes (see 2.2.3).

3.4 CONSTRUCTION SITE STORMWATER RUNOFF MANAGEMENT

In accordance with Rule 13 regulations, the Partnership has developed and implemented a construction site stormwater pollution prevention program. Each entity has an ordinance in place which refers to Rule 5 as the minimum standard for construction site stormwater management. The Indiana Stormwater Quality Manual is referenced as the technical manual for these ordinances.

The Elkhart County SWCD reviews all SWPPPs, responds to complaints, and conducts periodic inspections of active sites for all members of the Partnership. A priority ranking system has been developed that ranks construction sites as high, medium, or low priority based on the size of the construction site, topography, soil characteristics, and proximity and connection to water bodies or stormwater conveyances. Periodic site inspections occur based on this ranking system. Public inquiries, concerns, and complaints related to construction site stormwater pollution are received and responded to by the SWCD, which keeps a database of these complaints.

Each entity is responsible for enforcement of their ordinance. For construction sites that disturb an acre or more of soil, or are part of a larger common plan of development, approval of a SWPPP is required prior to release of building and other permits.

MS4 staff attend training and pursue professional development related to this MCM as it is made available by IDEM, US EPA, INAFSM, or other public or private entities.

BMP 1: Continue to implement construction site stormwater management ordinances

Measurable Goal 1: SWPPPs for sites disturbing an acre or more of soil, or part of a larger common plan of development or sale if the larger common plan disturbs an acre or more of soil, will continue to be reviewed by the SWCD. Approval of the SWPPP will continue to be required prior to release of building or other permits.

Reporting and Record Keeping: Retain documentation of SWPPPs received and reviewed.

Measurable Goal 2: Continue periodic site inspection based on priority ranking and complaint response.

Reporting and Record Keeping: Retain documentation of sites inspected, reports sent, and actions taken.

Measurable Goal 3: Continue to respond to violations of ordinances through enforcement action when necessary.

Reporting and Record Keeping: Retain documentation of enforcement actions taken.

BMP 2:Annual training of MS4 Area inspectors and plan reviewers

Measurable Goal 1: MS4 staff involved in plan review or site inspection will continue to attend training as it is made available by public or private entities.

Reporting and Record Keeping: Retain documentation of staff training.

BMP 3:Continue to implement programs to receive, track, and respond to construction site stormwater complaints

Measurable Goal 1: Continue receiving and responding to public inquiries, concerns, and information on local erosion and sediment control and other stormwater issues on construction sites.

Reporting and Record Keeping: Document complaints and responses.

BMP 4:Continue to provide educational workshops for contractors

Measurable Goal 1: Hold a field day or workshop related to stormwater pollution prevention on construction sites at least once per permit cycle.

Reporting and Record Keeping: Document number of attendees.

3.5 POST-CONSTRUCTION STORMWATER RUNOFF CONTROL

In accordance with Rule 13 regulations, each entity in the Partnership has developed and implemented a post-construction stormwater runoff control program, including an regulatory mechanisms which require new development to meet the post-construction requirements of 327 IAC 15-5-6.5-(a)(8).

BMP 1:Continue to implement post-construction ordinances.

Measurable Goal 1: Post-construction plans for sites disturbing an acre or more of soil, or part of a larger common plan of development or sale if the larger common plan disturbs an acre or more of soil, will continue to be reviewed by each individual entity. These plans will meet the requirements of 327 IAC 15-5-6.5-(a)(8).

Reporting and Record Keeping: Retain documentation of post-construction plans received and reviewed.

Measurable Goal 2: Continue to respond to violations of ordinances through enforcement action when necessary.

Reporting and Record Keeping: Retain documentation of enforcement actions taken.

BMP 2: Where appropriate, the MS4 entities shall use storage, infiltration, filtering, and/or vegetative practices to reduce the impact of pollutants in stormwater runoff on the receiving waters.

Measurable Goal 1: All discharges from a stormwater practice that is a Class V injection well must meet Indiana groundwater quality standards.

Reporting and Record Keeping: Retain documentation of Class V injection wells that have come to the attention of each entity, and actions taken to meet groundwater quality standards.

Measurable Goal 2: Pre-treatment will be required for any infiltration practice located in a wellhead protection area.

Reporting and Record Keeping: Retain documentation of BMPs installed in wellhead protection areas.

Measurable Goal 3: As site conditions allow, appropriately sized vegetated filter strips shall be maintained along unvegetated swales and ditches.

Reporting and Record Keeping: Retain documentation of filter strips installed.

Measurable Goal 4: Discharges from MS4 conveyances into sinkholes or fractured bedrock shall be prohibited (see section 2.2.5).

Measurable Goal 5: New retail gasoline outlets; new refueling areas owned or operated by the MS4 entity; and existing outlets and refueling areas that replace existing tanks shall be required to install appropriate practices to reduce lead, copper, zinc, and PAHs in stormwater runoff.

Reporting and Record Keeping: Retain documentation of BMPs installed in new outlets and existing areas that have replaced tanks.

Measurable Goal 6: As site conditions allow, the rate at which water flows through the MS4 conveyance system shall be controlled to reduce outfall scouring and stream bank erosion.

Reporting and Record Keeping: Retain documentation of new projects that are installed which reduce outfall scouring and stream bank erosion.

BMP 3:Annual Personnel Training.

Measurable Goal 1: MS4 staff involved in plan review or site inspection will continue to attend training as it is made available by public or private entities.

Reporting and Record Keeping: Retain documentation of staff training.

BMP 4:Operational and maintenance plan for structural stormwater BMPs.

Measurable Goal 1: Once per permit cycle, require review of BMPs installed under the post-construction ordinances.

Reporting and Record Keeping: Retain documentation of inspections and maintenance.

3.6 MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING

MS4 entities will continue to implement good housekeeping practices to minimize pollution from MS4 area activities.

BMP 1:Continue to implement Good Housekeeping plans

Measurable Goal 1: Continue to examine current municipal operations and implement additional pollution prevention activities, policies, training, or structural measures where needed.

Reporting and Record Keeping: Develop a plan for needed improvements and schedule implementation. Retain documentation of improvements.

BMP 2:Controls to minimize the discharge of pollutants from existing operational areas.

Measurable Goal 1: Continue to document current maintenance activities, schedules, and long-term inspection procedures for BMPs within each entity to reduce floatables and other pollutants discharged from storm sewers.

Reporting and Record Keeping: Each entity will retain records and SOPs.

Measurable Goal 2: Continue to address controls for reducing or eliminating discharge of pollutants from operational areas, including roads, parking lots, maintenance and storage yards, and waste transfer stations.

Reporting and Record Keeping: Each entity will document modifications to current practices.

Measurable Goal 3: Continue to develop Standard Operating Procedures (SOPs) for proper disposal of animal waste. Require minimal distance of 150 ft for canine parks to be sited away from a surface water body.

Reporting and Record Keeping: Each entity will retain records and SOPs.

Measurable Goal 4: Continue to document written SOPs for the proper disposal of solid waste removed from MS4 conveyances and operational areas.

Reporting and Record Keeping: Each entity will retain records and SOPs.

Measurable Goal 5: Continue to establish designated snow disposal areas.

Reporting and Record Keeping: Retain documentation of locations of these areas.

Measurable Goal 6: Continue to develop and implement SOPs for spill prevention and cleanup during fueling procedures and use BMPs for vehicle maintenance.

Reporting and Record Keeping: Each entity will retain records and SOPs.

BMP 3: Pollution reduction and prevention from flood improvement projects.

BMP 4: MS4 Area employee training

Measurable Goal 1: Continue training for appropriate MS4 Area employees with annual courses on hazardous waste disposal, vegetative waste handling, fertilizer and pesticide application, and function of implemented BMPs.

Reporting and Record Keeping: Retain documentation of staff training.

Section 4.0
NARRATIVE AND MAPPED DESCRIPTION OF THE MS4 AREA BOUNDARY

A part of Elkhart County, Indiana, and containing the following sections as described:

A part of Township 38 North, Range 4 East, Second Principal Meridian, Cleveland Township, Elkhart County, Indiana, and being more particularly described as follows:

All of the Fractional Sections 10, 11, and 12, Township 38 North, Range 4 East, Second Principal Meridian, Cleveland Township, Elkhart County, Indiana; also,

All of Sections 13, 14, 15, 22, 23, 24, 25, 26, 27, 34, 35, and 36, Township 38 North, Range 4 East, Second Principal Meridian, Cleveland Township, Elkhart County, Indiana;

Containing 13.49 square miles in Township 38 North, Range 4 East, Second Principal Meridian, Cleveland Township, Elkhart County, Indiana; also,

A part of Township 37 North, Range 4 East, Second Principal Meridian, Baugo and Cleveland Townships, Elkhart County, Indiana, and being more particularly described as follows:

All of Sections 1, 2, 3, 10, 11, 12, 13, 14, and 24, Township 37 North, Range 4 East, Second Principal Meridian, Baugo and Cleveland Townships, Elkhart County, Indiana; also,

That part of Sections 15, 22, 23, 25, and 26, Township 37 North, Range 4 East, Second Principal Meridian, Baugo Township, Elkhart County, Indiana lying north and east of the approximate centerline of the Baugo Creek and lying north of the northerly right-of-way of the United States Route 20 Bypass;

Containing 11.70 square miles in Township 37 North, Range 4 East, Second Principal Meridian, Baugo and Cleveland Townships, Elkhart County, Indiana; also,

A part of Township 38 North, Range 5 East, Second Principal Meridian, Osolo and Concord Townships, Elkhart County, Indiana, and being more particularly described as follows:

All of the Fractional Sections 7, 8, 9, and 10, Township 38 North, Range 5 East, Second Principal Meridian, Osolo Township, Elkhart County, Indiana; also,

All of Section 15 through Section 36 inclusive, Township 38 North, Range 5 East, Second Principal Meridian, Osolo and Concord Townships, Elkhart County, Indiana;

Containing 23.73 square miles in Township 38 North, Range 5 East, Second Principal Meridian, Osolo and Concord Townships, Elkhart County, Indiana; also,

A part of Township 37 North, Range 5 East, Second Principal Meridian, **Concord Township**, Elkhart County, Indiana, and being more particularly described as follows:

All of Section 1 through Section 27 inclusive, and all of Sections 35 and 36, Township 37 North, Range 5 East, Second Principal Meridian, Concord Township, Elkhart County, Indiana; also,

That part of Sections 29 and 30, Township 37 North, Range 5 East, Second Principal Meridian, Concord Township, Elkhart County, Indiana lying north of the northerly right-of-way of the United States Route 20 Bypass; also,

The north half of Section 28, Township 37 North, Range 5 East, Second Principal Meridian, Concord Township, Elkhart County, Indiana;

Containing 29.46 square miles in Township 37 North, Range 5 East, Second Principal Meridian, Concord Township, Elkhart County, Indiana; also,

A part of Township 38 North, Range 6 East, Second Principal Meridian, **Washington Township**, Elkhart County, Indiana, and being more particularly described as follows:

All of Section 19, and Section 26 through Section 34 inclusive, Township 38 North, Range 6 East, Second Principal Meridian, Washington Township, Elkhart County, Indiana; also,

That part of the east half of Section 21, Township 38 North, Range 6 East, Second Principal Meridian, Washington Township, Elkhart County, Indiana lying south of the southerly right-of-way of the Interstate 80/90 Indiana East-West Toll Road; also,

That part of Section 22, Township 38 North, Range 6 East, Second Principal Meridian, Washington Township, Elkhart County, Indiana lying south of the southerly right-of-way of the Interstate 80/90 Indiana East-West Toll Road; also,

That part of Section 23, Township 38 North, Range 6 East, Second Principal Meridian, Washington Township, Elkhart County, Indiana lying south of the southerly right-of-way of the Interstate 80/90 Indiana East-West Toll Road;

Containing 11.47 square miles in Township 38 North, Range 6 East, Second Principal Meridian, Washington Township, Elkhart County, Indiana; also,

A part of Township 37 North, Range 6 East, Second Principal Meridian, **Jefferson and Concord Townships**, Elkhart County, Indiana, and being more particularly described as follows:

All of Sections 6, 7, 22, 27, and 34, Township 37 North, Range 6 East, Second Principal Meridian, Jefferson Township, Elkhart County, Indiana; also,