# **TOWN OF EDINBURGH**

# STORM WATER STANDARDS

# Prepared for:

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Chapter 1

Storm Water Pollution Prevention (SWPP) and Erosion and Sediment Control Standards

### <u>1.1 – Purpose</u>

This chapter is intended to establish the minimum standards for design and construction of erosion and sedimentation controls and storm water pollution prevention measures for construction sites where land disturbing activities shall take place. These standards were developed in accordance with the requirements of 327 IAC 15-13, Storm Water Run-Off Associated with Municipal Separate Storm Sewer System Conveyances (Rule13) and Indiana Administrative Code 327 IAC 15-5 for Storm Water Runoff Associated with Construction Activities (Rule 5).

Projects meeting the requirements of Chapter 2 – Post-Construction Runoff Controls shall also be required to install water quality treatment best management practices prior to project completion.

### 1.2 - Authority and Compliance

Per Ordinance 2004-7, the Town of Edinburgh has the authority to permit, provide construction plan review for, inspect, and take appropriate enforcement actions against construction sites that meet the requirements of Ordinance 2004-7.

Construction sites where land disturbing activities meet the requirements of Ordinance 2004-7, at a minimum, shall be in compliance with all terms and conditions of Ordinance 2004-7, the Edinburgh Storm Water Standards (Standards), and Rule 5. In those circumstances where the requirements of Ordinance 2004-7 and these Standards are more stringent than those contained in Rule 5, the requirements of Ordinance 2004-7 and these Standards shall be followed.

The Town of Edinburgh has the right to impose additional requirements and restrictions beyond those outlined in these Standards, Ordinance 2004-7, and Rule 5 for projects where unique or special conditions exist.

### 1.3 - Definitions

- (1) "Construction Activity" means land disturbing activities and land disturbing activities associated with the construction of infrastructure and structures. This term does not include routine ditch or road maintenance or minor landscaping projects.
- (2) "Construction plan" means a representation of a project site and all activities associated with the project. The plan includes the location of the project site, buildings and other infrastructure, grading activities, schedules for implementation, and other pertinent information related to the project site. A storm water pollution prevention plan is a part of the construction plan.

- (3) "Construction site access" means a stabilized stone surface at all points of ingress or egress to a project site for the purpose of capturing and detaining sediment carried by tires of vehicles or other equipment entering or existing the project site.
- (4) "Contractor" means an individual or company hired by the project site or individual lot owner, their agent, or the individual lot operator to perform services on the project site.
- (5) "Developer" means:
  - (A) any person financially responsible for construction activity; or
  - (B) an owner of property who sells or leases, or offers for sale or lease, any lots in a subdivision.
- (6) "Erosion" means the detachment and movement of soil, sediment, or rock fragments by water, wind, ice, or gravity.
- (7) "Erosion and sediment control measure" means a practice, or a combination of practices, to control erosion and resulting sedimentation.
- (8) "Erosion and sediment control system" means the use of appropriate erosion and sediment control measures to minimize sedimentation by first reducing or eliminating erosion at the source and then, as necessary, trapping sediment to prevent it from being discharged from or within a project site.
- (9) "Final stabilization" means the establishment of permanent vegetative cover or the application of a permanent nonerosive material to areas where all land disturbing activities have been completed and no additional land disturbing activities are planned under the current permit.
- (10) "Grading" means the cutting and filling of the land surface to a desired slope or elevation.
- (11) "Impervious surface" means surfaces, such as pavement and rooftops, which prevent the infiltration of storm water into the soil.
- (12) "Individual building lot" means a single parcel of land within a multiparcel development.
- (13) "Individual lot operator" means a person who has financial control of construction activities for an individual lot.
- (14) "Land disturbing activity" means any manmade change of the land surface, including removing vegetative cover that exposes the underlying soil, excavating, filling, transporting, and grading.
- (15) "Larger common plan of development or sale" means a plan, undertaken by a single project site owner or a group of project site owners acting in concert, to offer lots for sale or lease; where such land is contiguous, or is known, designated, purchased or advertised as a common unit or by a common name, such land shall be presumed as being offered for sale or lease as part of a larger common plan. The term also includes phased or other construction activity by a single entity for its own use.
- (16) "Permanent stabilization" means the establishment, at a uniform design of seventy percent (70%) across the disturbed area, of vegetative cover or permanent nonerosive material that will ensure the resistance of the soil to erosion, sliding, or other movement.
- (17) "Phasing of construction" means sequential development of smaller portions of a large project site, stabilizing each portion before beginning land disturbance on subsequent portions, to minimize exposure of disturbed land to erosion.

- (18) "Project site" means the entire area on which construction activity is to be performed.
- (19) "Project site owner" means the person required to submit the NOI letter per Rule 5 and required to comply with the terms of these standards, Ordinance 2004-7, and Rule 5, including either of the following:
  - (A) A developer.
  - (B) A person who has financial and operational control of construction activities and project plans and specifications, including the ability to make modifications to those plans and specifications.
- (20) "Sediment" means solid material (both mineral and organic) that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface.
- (21) "Soil" means the unconsolidated mineral and organic material on the surface of the earth that serves as then natural medium for the growth of plants.
- (22) Stormwater Standards of the Town of Edinburgh the stormwater standards that contain policies and procedures, drainage, erosion and sediment control, and postconstruction standards that new development and redevelopment must meet. The plan indicates the specific measures and sequencing to be used to control sediment, soil erosion and other construction site wastes during and after construction.
- (23) "Storm water pollution prevention plan" means a plan developed to minimize the impact of storm water pollutants resulting from construction activities. The plan indicates the specific measures and sequencing to be used to control sediment, soil erosion and other construction site wastes during and after construction.
- (24) "Storm water quality measure" means a practice, or a combination of practices, to control or minimize pollutants associated with storm water run-off.
- (25) "Strip development" means a multilot project where building lots front on an existing road.
- (26) "Subdivision" means any land that is divided or proposed to be divided into lots, whether contiguous or subject to zoning requirements, for the purpose of sale or lease as part of a larger common plan of development or sale.
- (27) "Technical Review and Comment Form": A form issued by the building department stating that the Erosion and Sediment Control Plan is adequate or stating revisions needed in the Erosion and Sediment Control Plan and Storm Water Pollution Prevention Plan.
- (28) "Temporary stabilization" means the covering of soil to ensure its resistance to erosion, sliding, or other movement. The term includes vegetative cover, anchored mulch, or other nonerosive material applied at a uniform density of seventy percent (70%) across the disturbed area.
- (29) "Tracking" means the deposition of soil that is transported from one (1) location to another by tires, tracks of vehicles, or other equipment.
- (30) "Trained individual" means an individual who is trained and experienced in the principles of storm water quality, including erosion and sediment control as may be demonstrated by state registration, professional certification, experience, or completion of coursework that enable the individual to make judgments regarding storm water control or treatment and monitoring.

Rule 5 also contains additional definitions for language used in that rule.

### 1.4 - Polices and Procedures

### **1.4.1 – Coverage**

All residential and non-residential construction projects which result in land disturbing activities equal to or greater than one (1) acre shall be in compliance with Ordinance 2004-7, these Standards, and Rule 5. The area of land disturbance resulting from the construction activity shall be calculated per 327 IAC 15-5-2(h)(1).

### 1.4.2 - Exceptions

Individual, single-family construction projects not part of a larger, common development are exempt from the submittals outlined in Section 1.4.3., but must comply with the provisions of 327 IAC 15-5 section 7(b)(1) through 7(b)(5), 7(b)(10) through 7(b)(17), 7(b)(19), and 7(b)(20) throughout construction activities and until the areas are permanently stabilized.

### 1.4.3 - Submittals

A Technical Review and Comment Form stating that the "Plan is Adequate" shall be obtained prior to the initiation of any land disturbing activities. Construction site owner shall submit a review fee of \$100 (made payable to the Town of Edinburgh) and 2 copies of the following information to the Edinburgh Building Department:

- (1) Construction Plans (on 11 by 17 inch paper)
- (2) Construction Storm Water Pollution Prevention Plan (SWPPP)

The detailed submittal requirements are contained in 327 IAC 15-5 Section 6 through Section 6.5 and summarized in Appendix 1-A of this manual. The construction project Post-Construction SWPPP must also be in compliance with Chapter 2 Storm Water Quality Standards

After receiving the Technical Review and Comment Form (Appendix 1-B) stating that the "Plan is Adequate" from the Town of Edinburgh, the following shall be submitted to IDEM and the County Soil and Water Conservation District at least 48 hours prior to the initiation of land disturbing activities.

- (1) Notice of Intent Form (Appendix 1-C)
- (2) A copy of the Technical Review and Comment Form verifying approval by the Town of Edinburgh
- (3) Proof of Publication required by 327 IAC 15-5-5 (9)

Single-family residential development consisting of four (4) or fewer lots or a single-family residential strip development where the developer offers for sale or lease without

land improvements, and the project is not part of a larger common plan of development or sale, shall meet the detailed submittal requirements contained in 327 IAC 15-5-6.5(b).

For those construction activities operated by the MS4 operator or MS4 municipalities within the MS4 area, construction plans must be submitted to the local SWCD, the department of natural resources, division of soil conservation, or other entity designated by IDEM for review and approval. If the MS4 operator does not receive either a notice of deficiency or an approval within thirty-five (35) days of the submittal, the plan will be considered adequate. After a one (1) year period of permit compliance, the MS4 operator or the designated MS4 entity need not submit the plans and may review MS4-operated project construction plans internally with the written authorization of the department of natural resources, division of soil conservation.

In addition to the requirements of 327 IAC 15-5-6.5, for those construction activities operated by the MS4 operator or MS4 municipalities within the MS4 area, project construction plans must include a traffic phasing plan for those projects that have the potential to alter vehicular traffic routes. Also, the project storm water pollution prevention plan must address all requirement of 327 IAC 15-5-6.5(a)(7) and the following areas located outside of right-of-ways:

- (1) Utility relocation areas.
- (2) Material hauling and transportation routes/roads.
- (3) Borrow pits.
- (4) Temporary staging and material stockpile areas.
- (5) Temporary disposal areas for waste materials.

### 1.4.4 - Inspection

A self-monitoring program meeting the requirements of 327 IAC 15-5-7 shall be implemented. A trained individual shall perform an inspection of the project site to verify the erosion and sediment controls are being maintained and functioning properly and to determine whether additional controls are necessary. Inspections shall be performed after every storm event with a total measured rainfall accumulation equal to or greater than 0.5 inches and at a minimum, inspections shall be performed weekly.

Written evaluation reports must be prepared by the end of the business day following the day of the inspection. The written evaluation reports must also be available to the Town of Edinburgh within 48 hours of a request.

Written evaluation reports must contain the following information:

- 1) Name of individual performing the inspection
- 2) Date of the inspection
- 3) Problems identified at the project
- 4) Corrective actions recommended and completed

Construction site owners shall allow right-of-entry for the Town of Edinburgh, or local, county, or state regulatory agency or a representative thereof to inspect any project site involved in construction activities, at reasonable times.

When construction plans are submitted for review, the reviewer will identify priority sites for inspection and enforcement. The criteria for priority sites will be based on the nature and extent of construction, proximity to sensitive areas, steep topography on or adjacent to proposed construction site, proximity to wetlands, and potential for direct run-off to receiving waters. Construction sites inspections will be based on priority determinations.

The Edinburgh Building Department, Edinburgh Public Works Department, or local, county, or state regulatory agency or a representative thereof may make recommendations to the project site owner or their representative to install appropriate measures beyond those specified in the storm water pollution prevention plan to achieve compliance.

### 1.4.5 - Enforcement

All persons engaging in construction activities on a project site shall be responsible for complying with these Standards, Ordinance 2004-7, and Rule 5.

Any person causing or contributing to a violation of any provisions of these Standards, Ordinance 2004-7 and Rule 5 shall be subject to enforcement and penalty.

In the event the Town of Edinburgh or other regulatory agency determines the project is not in compliance with these Standards, Ordinance 2004-7, or Rule 5, the project site owner has five (5) business days following the written notification (warning letter of noncompliance or violation notice) from the Town of Edinburgh to correct the deficiency. In the event the deficiency is not corrected within this period, a fine of no less then \$10 and no more than \$100 per incidence of noncompliance shall be assessed to the project site owner.

A stop-work order (revocation of Building Permit) may be issued in the event that any person violates the terms of these Standards, Ordinance 2004-7, Rule 5 or implements a construction activity in such a manner as to materially adversely affect the health, welfare, or safety of persons residing or working in or adjacent to the project site.

If remaining storm water quality measures are not properly maintained by the person occupying or owning the property, the Town of Edinburgh may also issue fines to that individual.

### 1.5 - General Requirements

# 1.5.1 - General Requirements for Storm Water Pollution Prevention Plans

All land disturbing projects shall implement controls to minimize the transport of sediment from the project sites. Per 327 IAC 15-5-7, the project site owner shall, at least, meet the following requirements:

- (1) Sediment-laden water which otherwise would flow from the project site shall be treated by erosion and sediment control measures to minimize sedimentation.
- Appropriate measures shall be implemented to minimize or eliminate wastes or unused building materials, including garbage, debris, cleaning wastes, wastewater, concrete truck washout, and other substances from being carried from a project site by run-off or wind. Identification of areas where concrete truck washout is permissible must be clearly posted at appropriate areas of the site. Wastes and unused building materials shall be managed and disposed of in accordance with all applicable statutes and regulations.
- (3) A stable construction site access shall be provided at all points of construction traffic ingress and egress to the project site.
- (4) Public or private roadways shall be kept cleared of accumulated sediment that is a result of run-off or tracking. Bulk clearing of sediment shall not include flushing the area with water. Cleared sediment shall be redistributed or disposed of in a manner that is in accordance with all applicable statues and regulations.
- (5) Storm water run-off leaving a project site must be discharged in a manner that is consistent with applicable state or federal law.
- (6) The project site owner shall post a notice near the main entrance of the project site. For linear project sites, such as a pipeline or highway, the notice must be placed in a publicly accessible location near the project field office. The notice must be maintained in a legible condition and contain the following information:
  - (A) Copy of the completed NOI letter and the NPDES permit number, where applicable.
  - (B) Name, company name, telephone number, e-mail address (if available), and address of the project site owner or a local contact person.
  - (C) Location of the construction plan if the project site does not have an on-site location to store the plan.
- (7) This permit and posting of the notice of under subdivision (6) does not provide the public with any right to trespass on a project site for any reason, nor does it require that the project site owner allow members of the public access to the project site.
- (8) The storm water pollution prevention plan shall serve as a guideline for storm water quality, but should not be interpreted to be the only basis for implementation of storm water quality measures for a project site. The project site owner is responsible for implementing, in accordance with Rule 5, all measures necessary to adequately prevent polluted storm water run-off.
- (9) The project site owner shall inform all general contractors, construction management firms, grading or excavating contractors, utility contractors, and the contractors that have primary oversight on individual building lots of the terms and conditions of this rule and the conditions and standards of the storm water pollution prevention plan and the schedule for proposed implementation.

- (10) Phasing of construction activities shall be used, where possible, to minimize disturbance of large areas.
- (11) Appropriate measures shall be planned and installed as part of an erosion and sediment control system.
- (12) All storm water quality measures must be designed and installed under the guidance of a trained individual.
- (13) Collected run-off leaving a project site must be either discharged directly into a well-defined, stable receiving channel or diffused and released to adjacent property without causing an erosion or pollutant problem to the adjacent property owner.
- (14) Drainage channels and swales must be designed and adequately protected so that their final gradients and resultant velocities will not cause erosion in the receiving channel or at the outlet.
- (15) Natural features, including wetlands and sinkholes, shall be protected from pollutants associated with storm water run-off.
- (16) Unvegetated areas that are scheduled or likely to be left inactive for fifteen (15) days or more must be temporarily or permanently stabilized with measures appropriate for the season to minimize erosion potential. Alternative measures to site stabilization are acceptable if the project site owner or their representative can demonstrate they have implemented erosion and sediment control measures adequate to prevent sediment discharge. Vegetated areas with a density of less than seventy percent (70%) shall be restabilized using appropriate methods to minimize the erosion potential.
- (17) During the period of construction activities, all storm water quality measures necessary to meet the requirements of this rule shall be maintained in working order.
- (18) A self-monitoring program shall be implemented (see Section 1.4.4).
- (19) Proper storage and handling of materials, such as fuels or hazardous wastes, and spill prevention and clean-up measures shall be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality.
- (20) Final stabilization of a project site shall be achieved when:
  - (A) All land disturbing activities have been completed an a uniform (for example, evenly distributed, without large bare areas) perennial vegetative cover with a density of seventy percent (70%) has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures have been employed; and
  - (B) Construction projects on land used for agricultural purposes are returned to its preconstruction agricultural use or disturbed areas, not previously used for agricultural production, such as filter strips and areas that are not being returned to their preconstruction agricultural use, meet the final stabilization requirements in clause (A).

# 1.5.2 - General Requirements for Individual Building Lots within a Permitted Project

Per 327 IAC 15-5-7.5, all storm water quality measures, including erosion and sediment control, necessary to comply with Rule 5 and these Standards shall be implemented in

accordance with the plan. Provisions for erosion and sediment control on individual building lots regulated under the original permit of a project site owner must include the following requirements:

- (1) The individual lot operator, whether owning the property or acting as the agent of the property owner, shall be responsible for erosion and sediment control requirements associated with activities on individual lots.
- (2) Installation and maintenance of a stable construction site access.
- (3) Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance.
- (4) Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization has been achieved.
- (5) Clean-up of sediment that is either tracked or washed onto roads. Bulk clearing of sediment shall not include flushing the area with water. Cleared sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules.
- (6) Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with temporary or permanent surface stabilization.
- (7) For individual residential lots, final stabilization meeting the criteria in Section 1.5.1 (20) will be achieved when the individual lot operator:
  - (A) Completes final stabilization; or
  - (B) Has installed appropriate erosion and sediment control measures for an individual lot prior to occupation of the home by the homeowner and has informed the homeowner of the requirement for, and benefits of, final stabilization.

# 1.6 - Technical Design Criteria

Erosion and sediment controls shall be designed and installed in accordance with Rule 5, these Standards, and the Indiana Storm Water Quality Manual. Technical review of the erosion and sediment control program, storm water pollution prevention plan, and other required submittals shall be completed by the Edinburgh Public Works Department and the Edinburgh Building Department. The technical review shall assess the adequacy of proposed erosion and sediment control against the technical design criteria contained in the Indiana Storm Water Quality Manual.

The following guidelines shall be used during development of the Storm Water Pollution Prevention Plan:

- 1) Construction sequencing shall minimize the amount of exposed land and the duration of exposure without temporary or permanent protection.
- 2) Grading activities shall minimize the amount of cut and fill.
- 3) Perimeter controls shall be installed prior to land disturbing activities.
- 4) Storm sewer inlets and conveyance outfalls shall be equipped with appropriate erosion and sediment controls and shall remain in place until the entire contributing drainage area is permanently stabilized.

- Project access points shall have 2-inch to 3-inch or larger aggregate for a depth of at least 6 inches placed at all ingress and egress points to minimize tracking of sediment beyond the project site by vehicles and construction equipment. The aggregate must cover a minimum area of 20' x 50', and be periodically maintained (cleaned, top dressed). Sediment tracked to road surfaces shall be removed using acceptable practices, such as shoveling or street sweeping, daily. Washing of road surfaces is not acceptable, unless the runoff flows to a sediment control measure.
- 6) Storm water runoff velocities from the project site shall be kept as low as possible.
- 7) Erosion from soil stockpiles shall be minimized via stabilization or erosion control measures.
- 8) Permanent seeding shall take place as soon as practicable. Temporary seeding shall be utilized in areas left undisturbed for more than thirty (30) days.
- 9) Dust control measures shall be implemented as necessary.
- 10) Erosion control blankets shall be required on all fill slopes exceeding 4 (horizontal) to 1 (vertical).
- 11) Mulching material is required for all temporary and permanent seeding.
- 12) The minimum thickness of rock riprap shall be 6 inches.

### 1.7 - Project Termination

### 1.7.1 - Project Termination Requirements

The project site owner shall plan an orderly and timely termination of the construction activities, including the implementation of storm water quality measures that are to remain on the project site.

The project site owner, or a representative thereof, shall submit a written notice of termination (NOT) form (See Appendix 1-D) to the Edinburgh Building Department, the County SWCD, and IDEM upon project termination once the following requirements are met:

- 1) All land disturbing activities, including construction on all building lots, have been completed.
- 2) Final stabilization of the entire site has been completed.
- 3) All permanent storm water quality measures (if required per Chapter 2)) have been implemented and are operational.
- 4) Temporary erosion and sediment control measures have been removed.

The NOT must be submitted to the Edinburgh Building Department, the County SWCD, and IDEM within two (2) weeks of project termination, and contain a statement(s) verifying that each of these conditions have been met.

The Town of Edinburgh or a representative thereof may inspect the project site to confirm the information provided in the NOT. Upon verification of the NOT letter, the Edinburgh Building Department shall issue written approval to the project site owner that the project site owner shall no longer be responsible for compliance with the requirements of this Chapter.

### 1.7.2 - Early Project Termination Requirements

The project site owner may submit an NOT letter to obtain early release from compliance with these Standards, Ordinance 2004-7, and Rule 5

The project site owner must meet the requirements per 327 IAC 15-5-8(b)(2) as outlined below:

- 1) The remaining, undeveloped acreage does not exceed five (5) acres, with contiguous areas not to exceed one (1) acre.
- A map of the project site, clearly identifying all remaining undeveloped lots, is attached to the NOT letter. The map must be accompanied by a list of names and addresses of individual lot owners or individual lot operators of all undeveloped lots.
- 3) All public and common improvements, including infrastructure, have been completed and permanently stabilized and have been transferred to the appropriate local entity.
- 4) The remaining acreage does not pose a significant threat to the integrity of the infrastructure, adjacent properties, or water quality.
- 5) All permanent storm water quality measures have been implemented and are operational.

Upon verification of the NOT letter, the Edinburgh Building Department shall issue written approval to the project site owner. Upon receipt of this approval, the project site owner shall notify all current individual lot owners and all subsequent individual lot owners of the remaining undeveloped acreage and acreage with construction activity that they re responsible for complying with Section 1.5.2 - General Requirements for Individual Building Lots within a Permitted Project. The remaining individual lot owners do not need to submit an NOI letter or NOT letter. The notice must contain a verified statement that each of the conditions in Items 1-5 of this section have been met. The notice must also inform the individual lot owners of the requirements to:

- 1) Install and maintain appropriate measures to prevent sediment from leaving the individual building lot; and
- 2) Maintain all erosion and sediment control measures that are to remain on-site as part of the construction plan.

# Submittal Requirements Appendix 1-A

Section Description

Location in Plans

PROJE	CT NARRATIVE AND SUPPORTING DOCUMENTS	
1 A	An index indicating the location, in the construction plans, of all	
	information required by this subsection.	
1 B	Description of the nature and purpose of the project.	
	project,	
1 C	Legal description of the project site. The description should be to	
	the nearest quarter section, township, and range, and include the	
	civil township.	
1 D	Soil properties, characteristics, limitations, and hazards	
	associated with the project site and the measures that will be	
	integrated into the project to overcome or minimize adverse soil	
	conditions.	
1 E	General construction sequence of how the project site will be	
	built, including phases of construction.	
1 F	Hydrologic Unit Code (14 Digit) available from the United	
	States Geological Survey (USGS).	
1 G	A reduced plat or project site map showing the lot numbers, lot	
	boundaries, and road layout and names. The reduced map must	
	be legible and submitted on a sheet or sheets no larger than	
	eleven (11) inches by seventeen (17) inches for all phases or	
	sections of the project site.	
1 H	Identification of any other state or federal water quality permits	
	that are required for construction activities associated with the	
	owner's project site.	
2	Y7:	
2	Vicinity map depicting the project site location in relationship to	
	recognizable local landmarks, towns, and major roads, such as a	
	USGS topographic quadrangle map, or county or municipal road	i
EVICTO	map.	
3 A	NG PROJECT SITE LAYOUT	
3 A	Location and name of all wetlands, lakes, and water courses on,	
2 D	or adjacent to, the project site.	77.316
3 B 3 C	Location of all existing structures on the project site.	
3 C	One hundred (100) year floodplains, floodway fringes, and	
3D	floodways. Please note if none exists.	
3D	Soil map of the predominant soil types, as determined by the	
	United States Department of Agriculture (USDA), Natural	
	Resources  Conservation Service (ADCS) Sell Services	
	Conservation Service (NRCS) Soil Survey, or an equivalent	
	publication, or as determined by a soil scientist. A soil legend	
3 E	must be included with the soil map.	
<i>J</i> 15	Identification and delineation of vegetative cover such as grass, weeds, brush, and trees on the project site.	·
3 F	Land use of all adjacent properties.	
J 1.	Land use of an adjacent properties.	
3 G	Existing topography at a contour interval appropriate to indicate	
	drainage patterns.	

# Submittal Requirements Appendix 1-A

**Section** Description

# **Location in Plans**

FINAL	PROJECT SITE LAYOUT	
4 A	Location of all proposed site improvements, including roads,	
	utilities, lot delineation and identification, proposed structures,	,
	and common areas.	
4 B	One hundred (100) year floodplains, floodway fringes, and	
	floodways. Please note if none exists.	
4 C	Proposed final topography, at a contour interval appropriate to	
, 0	indicate drainage patterns.	
GRADI	NG PLAN	
5 A	Delineation of all proposed land disturbing activities, including	
	off-site activities that will provide services to the project site.	
5 B	Location of all soil stockpiles and borrow areas.	
5 C	Information regarding any off-site borrow, stockpile, or disposal	
00	areas that are associated with a project site, and under the control	
	of the project site owner.	
5 D	Existing and proposed topographic information.	10146
	AGE PLAN	
6 A	An estimate of the peak discharge, based on the ten (10) year	
0 11	storm event, of the project site for both preconstruction and post-	
	construction conditions.	
6 B	Location, size, and dimensions of all storm water drainage	
O D	systems such as culverts, storm sewers, and conveyance	
	channels.	
6 C	Locations where storm water may be directly discharged into	
0.0	ground water, such as abandoned wells or sinkholes. Please note	
	if none exists.	
6 D	Locations of specific points where storm water discharge will	
0 D	leave the project site.	
	leave the project site.	
6 E	Name of all receiving waters. If the discharge is to a separate	
0.12	municipal storm sewer, identify the name of the municipal	
	operator and the ultimate receiving water.	
6 F	Location, size, and dimensions of features such as permanent	
01	retention or detention facilities, including existing or manmade	
	wetlands, used for the purpose of storm water management.	
STORM	WATER POLLUTION PREVENTION PLAN ASSOCIATED W	TH CONSTRUCTION
ACTIVI	TIES	III CONSTRUCTION
7 A	Location, dimensions, detailed specifications, and construction	
	details of all temporary and permanent storm water quality	
	measures.	
7 B	Temporary stabilization plans and sequence of implementation.	***************************************
7 C	Permanent stabilization plans and sequence of implementation.	
70	romanom stabilization plans and sequence of implementation.	
7 Di	Temporary and permanent stabilization plans shall include the	
1 171	following:	
	(i) Specifications and application rates for soil amendments and	
	seed mixtures.	
	Sood mixtures,	

# Submittal Requirements Appendix 1-A

# Section Description

### **Location in Plans**

7 Dii	The type and application rate for anchored mulch.			
7 E	Construction sequence describing the relationship between implementation of storm water quality measures and stages of construction activities.			
7 F	Self-monitoring program including plan and procedures.			
7 G	A description of potential pollutant sources associated with the construction activities, which may reasonably be expected to add a significant amount of pollutants to storm water discharges.			
7 H	Material handling and storage associated with construction activity shall meet the spill prevention and spill response requirements in 327 IAC 2-6.1.			
POST-C	CONSTRUCTION STORM WATER POLLUTION PREVENTION	IPLAN		
8 A	A description of potential pollutant sources from the proposed land use, which may reasonably be expected to add a significant amount of pollutants to storm water discharges.			
8 B	Location, dimensions, detailed specifications, and construction details of all post-construction storm water quality measures.			
8 C	A description of measures that will be installed to control pollutants in storm water discharges that will occur after construction activities have been completed. Such practices include infiltration of run-off, flow reduction by use of open vegetated swales and natural depressions, buffer strip and riparian zone preservation, filter strip creation, minimization of land disturbance and surface imperviousness, maximization of open space, and storm water retention and detention ponds.			
8 D	A sequence describing when each post-construction storm water quality measure will be installed.			
8 E	Storm water quality measures that will remove or minimize pollutants from storm water run-off.			
8 F	Storm water quality measures that will be implemented to prevent or minimize adverse impacts to stream and riparian habitat.			
8 G	A narrative description of the maintenance guidelines for all post-construction storm water quality measures to facilitate their proper long term function. This narrative description shall be made available to future parties who will assume responsibility for the operation and maintenance of the post-construction storm water quality measures.			

# Appendix 1-B

# Construction/Stormwater Pollution Prevention Plan Technical Review and Comment (Form 1)

	Project Name:		<del> </del>		County:			
	Plan Submittal Date:	ubmittal Date:			Hydrologic Unit Code:			
	Project Location Description:			• 5				
	Latitude and Longitude:							
Ī	Civil Township:	Quarte	er:	Section:	Township:	Range:		
atio	Project Owner Name:	(873) 20 (15 % NO		Ross to several Reserva-	ช่าสังเราะสาราสารสาสเติดสินาร์ (ค.ศ. 2014			
Ë	Contact:							
Ę.	Address:					:		
t Ir	City:		State:		77			
jec	Phone:	FAX:	State:	E-Mail:	Zip:			
Project Information	in the second se		a stant Additionian	<b>E-Mail:</b> De Adria de Adria, d	n en vietake e ee eesta.	eranista kan ing terapakan sa		
_	Plan Preparer Name:					Mi AMilian arta esa este interior e la		
	Affiliation:							
	Address:							
	City:		State:		Zip:			
L	Phone:	FAX:		E-Mail:				
	Review Date:							
≥	Principal Plan Reviewer:							
vie	Agency:							
Re	Address:							
Plan Review	City:		State:		Zip:			
ā	Phone:	FAX:		E-Mail:	₽up.			
	Assisted By:							
	PLANIS ADEQUATE: A com-	abansiya	law wassiam '	1 1 1 - 2				
_	PLAN IS ADEQUATE: A comprehensive plan review has been completed and it has been determined that the plan satisfies the minimum requirements and intent of 327 IAC 15-5.							
	Please refer to additional inf	formation i	ncluded on t	jun emento anti m ha fallawing naga	166 01 27 / 147 T	<b>3-3.</b>		
						Transfer to the second		
ļ	Submit Notice of Intent (NOI): Attach a copy of this cover page when submitting the NOI to the Indiana  Department of Environmental Management. Construction activities may begin 48 hours following the submittal of							
	the NOI. A copy of the NOI mi	ust also be s	sent to the Re	viewing Authority	(e.g. SWCD, DNR)	nowing the suomittut of		
	the first of the control of the cont	1.37(4) (3.14) (3.14) (3.14)		中274年1月1日本海洋大学市市	for the Contract of the State o	ÉGIA BERRETA BUNGA BENKULÉN-KANPANDA BUNGA CELU		
Ш	A preliminary plan review has b	een comple	eted; a comp	rehensive review	will not be comple	eted within the 28-day		
	review period. The reviewing at revisions to the plan may be requ	athority res	serves the rig	th to perform a c	comprehensive rev	view at a later date and		
	Please refer to additional info	ormation is	ncluded on th	ae following page	(s).			
	Submit Notice of Intent (NO)	I): Attach e	a copy of this	cover page when s	submitting the NOI	to the Indiana		
	Department of Environmental	Managemei	nt. Construc	ction activities may	begin 48 hours for	llowing the submittal of		
Mr.	the NOI. A copy of the NOI mu	ist also be s	ent to the Rev	iewing Authority (	(e.g. SWCD, DNR),	Artali Peri Maji Nobalikan di Kas		
	PLAN IS DEFICIENT: Signific				he plan review.	atherite and stars a property of the sec		
	Please refer to additional info			ne following page	(s).			
	☐ DO NOT file a Notice of Inte	nt for this	project.					
	DO NOT commence land dis	sturbing ac	fivities until :	all deficiencies ar	rbbe vlateunahe a	tossed the plan ve		
	submitted, and notification h	ias been rec	ceived that th	ie minimum requ	iirements have bee	en satisfied.		
П	Artin in the Artin <u>Ini</u> menyada en	solders the dyst	DO DE DANGE EN PROPER	Sevoes Nieds, Salverijas da intre	ally official companies and a	USBANA IND THE WEBSINESS OF		
	That Revisions Dencient 1	in th	nd de maned 1e Plan Revie	or delivered to the Section above.	he Principal Plan	Reviewer identified		

# Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)

	Project Name: 0  Date Reviewed: 01/00/00							
Г				Assessment of Stormwater Pollution Prevention Plan (Sections B & C)				
	Stormwater Pollution Prevention Plan - Construction Component (Section B)							
Adequate	Deficient	Not Applicable		The construction component of the Stormwater Pollution Prevention Plan includes stormwater quality measures to address erosion, sedimentation, and other pollutants associated with land disturbance and construction activities. Proper implementation of the plan and inspections of the construction site are necessary to minimize the discharge of pollutants. The Project Site Owner should be aware that unforeseen construction activities and weather conditions may affect the performance of a practice or the effectiveness of the plan. The plan must be a flexible document, with provisions to modify or substitute practices as necessary.				
			1	Description of potential pollutant sources associated with construction activities				
			2	Sequence describing stormwater quality measure implementation relative to land disturbing activities				
		1	3	Stable construction entrance locations and specifications (at all points of ingress and egress)				
				Sediment control measures for sheet flow areas				
			5	Sediment control measures for concentrated flow areas				
			6	Storm sewer inlet protection measure locations and specifications				
			7	Runoff control measures (e.g. diversions, rock check dams, slope drains, etc.)				
				Storm water outlet protection specifications				
			9	Grade stabilization structure locations and specifications				
			10	Location, dimensions, specifications, and construction details of each stormwater quality measure				
				Temporary surface stabilization methods appropriate for each season (include sequencing)				
				Permanent surface stabilization specifications (include sequencing)				
			13	Material handling and spill prevention plan				
			14	Monitoring and maintenance guidelines for each proposed stormwater quality measure				
				Erosion & sediment control specifications for individual building lots				

# Stormwater Pollution Prevention Plan - Post Construction Component (Section C) The post construction component of the Stormwater Pollution Prevention Plan includes the implementation of stormwater quality measures to address pollutants that will be associated with the final landuse. Post construction stormwater quality measures should be functional upon completion of the project. Long term functionality of the measures are critical to their performance and should be monitored and maintained. Description of pollutants and their sources associated with the proposed land use Sequence describing stormwater quality measure implementation Description of proposed post construction stormwater quality measures (Include a written description of how these measures will reduce discharge of expected pollutants) 4 Location, dimensions, specifications, and construction details of each stormwater quality measure

5 Description of maintenance guidelines for post construction stormwater quality measures

# Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)

	Assessment of Construction Plan Elements (Section A)						
V	The Construction Plan Elements are adequately represented to complete a plan review:  Yes No						
	A	ems checked below are deficient and require submitta	Т	-	et the requirements of the rule.		
- 4	<u>`</u>		<u> </u>	A_			
	1	Index showing locations of required Plan Elements		2	11 by 17 inch plat showing building lot numbers/boundaries and road layout/names		
	3	Narrative describing the nature and purpose of the project		4	Vicinity map showing project location		
	5	Legal Description of the Project Site (Include Latitude and Longitude - NOI Requirement)		6	Location of all lots and proposed site improvements (roads, utilities, structures, etc.)		
	7	Hydrologic unit code (14 Digit)		8	Notation of any State or Federal water quality permits		
	9	Specific points where stormwater discharge will leave the site		10	Location and name of all wetlands, lakes and water courses on and adjacent to the site		
	11	Identification of all receiving waters		12	Identification of notential discharges to ground		
	13	100 year floodplains, floodways, and floodway fringes		14	Pre-construction and post construction estimate of Peak Discharge (10 Year storm event)		
	15	Adjacent landuse, including upstream watershed		16	Locations and approximate houndaries of all		
		Identification of existing vegetative cover		18	Soils map including soil descriptions and limitations		
	1/	Locations, size and dimensions of proposed stormwater systems (e.g. pipes, swales and channels)		20	Plans for any off-site construction activities associated with this project (sewer/water tie-ins)		
	21	Locations of proposed soil stockpiles and/or borrow/disposal areas		22	Existing site topography at an interval appropriate to indicate drainage patterns		
	23	Proposed final topography at an interval appropriate to indicate drainage patterns					

Construction/Stormwater Pollution Prevention Planting No.	an
Project Name: Date Reviewed:	
Date Reviewed.	
Priority Site Information	
The same and a same same same same same same same sa	
Nature and Extent of Construction	
Close Proximity to Sensitive Area	
Steep Topography on Proposed Construction Site	
Close Proximately to Wetlands	
Potential for Direct Runoff to Receiving Waters Not a Priority Site	
Not a Photny Sile	
Construction/Stormwater Pollution Prevention Pla	
Constitution/Stormwater Function Prevention Pre	an Comments
	V.

### Appendix 1-C



# Indiana Department of Environmental Management Notice of Intent (NOI)

Storm Water Runoff Associated with Construction Activity NPDES General Permit Rule 327 IAC 15-5 (Rule 5)

Submission of this Notice of Intent letter constitutes notice that the project site owner is applying for coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit Rule for Storm Water Discharges Associated with Construction Activity. Permitted project site owners are required to comply with all terms and conditions of the General Permit Rule 327 IAC 15-5 (Rule 5).

Check the type of Submittal:   Initial   Amendment,   Renewal   Extension					
Project Name and Location:					
• Project Name: County:					
• Brief Description of Project Location:					
• Latitude					
• Longitude		Township	Range		
• Does all or part of this project lie with System (MS4) as defined in 327 IAC 15-13?	in the ju	arisdictional bound S	daries of a Municipal Separate Storm Sewer s, please name the MS4(s):		
Project Site Owner and Project Contact Info	rmatio	<u>n:</u>			
Company Name (If Applicable):	~				
			Title/Position:		
Address:					
City: State:					
Phone: FAX:					
Ownership Status (check one): Governmenta					
Non-Governmental: Public Private	_	•	<del>-</del> - · · · ·		
Contact Person:					
Address (if different from above):					
City: State:					
Phone: FAX:		***	•••		
Project Description:  ☐ Residential-Single Family ☐ Residential-Multi-F					
Discharge Information:					
• Name of Receiving Water:  (If applicable, name of municipal operator of storthe name of the nearest possible receiving water i	rm sewer	. Please note that e	ven if a retention pond is present on the property,		
Project Acreage:	•	•			
• Total Acreage: Acres Proposed	d Acreag	ge to be Disturbed	: Acres		
• Total Impervious Surface Area (Estimated fo					
Timetable (Maximum of 5 Years):	1	· · · · · · · · · · · · · · · · · · ·			
Start Date: and Estimat	ed End	Date for all Land	Disturbing Activity:		

(Continued on Reverse Side)

### **Construction Plan Certification:**

By signing this Notice of Intent letter, I certify the following:

- A. The storm water quality measures included in the Construction Plan comply with the requirements of 327 IAC 15-5-6.5, 327 IAC 15-5-7, and 327 IAC 15-5-7.5;
- B. the storm water pollution prevention plan complies with all applicable federal, state, and local storm water requirements;
- C. the measures required by section 7 and 7.5 of this rule will be implemented in accordance with the storm water pollution prevention plan;
- D. if the projected land disturbance is One (1) acre or more, the applicable Soil and Water Conservation District or other entity designated by the Department, has been sent a copy of the Construction Plan for review;
- E. storm water quality measures beyond those specified in the storm water pollution prevention plan will be implemented during the life of the permit if necessary to comply with 327 IAC 15-5-7; and
- F. implementation of storm water quality measures will be inspected by trained individuals.

<u>ln</u>	addition to this	<u>s form, I have e</u>	nclosed th	ie Following:		
	Verification by	the reviewing a	agency of	acceptance of	the Construction	Plan

_	5 The state of the Constitution I land.
	Proof of publication in a newspaper of general circulation in the affected area that notified the public that a
	construction activity is to commence, including all required elements contained in 327 IAC 15-5-5 (9).
$\overline{}$	<b>M100.1.1</b>

\$100 check or money order payable to the Indiana Department of Environmental Management. If the project lies solely within the permitted jurisdiction of an MS4 and is regulated by the MS4 under 327 IAC 15-13 – a fee is not required with submittal of this Notice of Intent.

A permit issued under 327 IAC 15-5 is granted by the commissioner for a period of five (5) years from the date coverage commences. Once the five (5) year permit term duration is reached, a general permit issued under this rule will be considered expired, and, as necessary for construction activity continuation, a new Notice of Intent letter would need to be submitted ninety (90) days prior to the termination of coverage.

### **Project Site Owner Responsibility Statement:**

By signing this Notice of Intent letter, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information or violating the provisions of 327 IAC 15-5, including the possibility of fine and imprisonment for knowing violations.

Printed Name of Project Owner	
Signature of Project Owner	Date:
	idual meeting the signatory requirements in 327 IAC 15-4-3(g)
Mail this form to: Indiana Department of Envir	
Office of Water Quality, Stor	m Water (Rule 5) Desk

100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

327 IAC 15-5-6 (a) also requires a copy of the completed Notice of Intent letter be submitted to the local Soil and Water Consequentian District and Market Soil and Market Soil and Market Soil and Market Soil and Water Consequentian District and Market Soil an

327 IAC 15-5-6 (a) also requires a copy of the completed Notice of Intent letter be submitted to the local Soil and Water Conservation District or other entity designated by the Department, where the land disturbing activity is to occur.

Questions regarding the development of the Construction Plan and/or field implementation of 327 IAC 15-5 may be directed to your local Soil and Water Conservation District office or the Department of Natural Resources at 317-233-3870. Questions regarding the Notice of Intent may be directed to the Rule 5 contact person at 317/233-1864 or 800/451-6027 ext 31864.

State Form 47487 (R/ /03)

### Appendix 1-D



# Indiana Department of Environmental Management Notice of Termination (NOT)

Storm Water Runoff Associated with Construction Activity NPDES General Permit Rule 327 IAC 15-5 (Rule 5)

Submission of this Notice of Termination letter constitutes notice to the Commissioner that the project site owner is applying for Termination of Coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit Rule for Storm Water Discharges Associated with Construction Activity.

Project Name and	d Location:		
• Permit Number:			
• Project Name: _		0.0400	County:
• Company Name	(If Applicable):	MARK 1	
Project Site Own	ner's Name (An Individ	lual):	
Address:			
City:	State	e:	Zip:
Phone:	FAX:	E-1	Mail Address (If Available):
	This Notice of Te	rmination is	Being Submitted for the Following:
Select one of th information	e three Options that ap associated with that op	oply to Permit tion, and com	Termination by checking the appropriate box, complete all played the "Project Site Owner Responsibility Statement".
Option # 1			
Certification	for Change of Owners	hip:	
(Does not Appl Originally Perm	y to the Sale of Individu itted)	ial lots within	the Permitted Acreage; only the Sale of the Entire Project Site as
A. The project owner of the	ne project site is:	ger the project	Following: site owner as was designated in my Notice of Intent. The new
Project S	Site Owner's Name (Ar	Individual): _	
City:		State:	Zip:
Phone:	FAX:		E-Mail Address (If Available):
B. I have not	ified the new Project S	Site Owner of	his/her responsibilities to comply with 327 IAC 15-5 and the filing a new Notice of Intent.
Option # 2			-
Certification 1	For Termination of Co	nstruction A	ctivities:
A. All land di site has be	s Notice of Termination sturbing activities, inclean en stabilized; and disturbing activitie	uding construc	ction on all building lots have been completed and the entire

C. all temporary erosion and sediment control measures have been removed; and

D. a copy of this notice has been sent to the appropriate SWCD or other designated entity.

Option #3		
Notice of Termination to Obtain Early Release from Compliance with 327 IAC 15-5		
<ul> <li>By Signing this Notice of Termination, I Certify the Following:</li> <li>A. The remaining, undeveloped acreage does not exceed five (5) acres, with contiguous areas not to exceed one (1) acre.</li> <li>B. A map of the project site, clearly identifying all remaining undeveloped lots, is attached to this letter. The map must be accompanied by a list of names and addresses of individual lot owners or individual lot operators of all undeveloped lots.</li> <li>C. All public and common improvements, including infrastructure, have been completed and permanently stabilized and have been transferred to the appropriate local entity.</li> <li>D. The remaining acreage does not pose a significant threat to the integrity of the infrastructure, adjacent properties, or water quality.</li> <li>E. All permanent storm water quality measures have been implemented and are operational.</li> </ul>		
<ul> <li>Upon Written Notification of the Department the Project Site Owner Certifies that he/she will Notify:</li> <li>A. All current individual lot owners and all subsequent individual lot owners of the remaining undeveloped acreage and acreage with construction activity that they are responsible for complying with section 7.5 of 327 IAC 15-5 (the remaining individual lot owners do not need to submit a Notice of Intent letter or Notice of Termination letter); and</li> <li>B. the individual lot owners of the requirements to install and maintain appropriate measures to prevent sediment from leaving the individual building lot and maintain all erosion and sediment control measures that are to remain on-site as part of the construction plan.</li> </ul>		
Project Site Owner Responsibility Statement:  By signing this Notice of Termination letter, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
Printed Name of Project Site Owner:		
Signature of Project Site Owner: Date:		
Upon written notification by the Department of Environmental Management, the Project Site Owner's termination for coverage under 327 IAC 15-5 shall be considered approved.		
Mail this form to: Indiana Department of Environmental Management Office of Water Quality, Storm Water (Rule 5) Desk 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015		
327 IAC 15-5-8 (b) also requires a copy of the completed Notice of Termination letter be submitted to the local Soil and Water Conservation District or other entity designated by the Department, where the Project Site is located.		

(SWCD, DNR-DSC, or Other Entity Designated by the Department)

The above referenced site has been inspected to determine that the request to terminate this project is compliant with the requirements of 327 IAC 15-5-8.

Signature Printed Name Agency Date

For Agency Use Only

State Form (R/ /03)