



MAYOR CITY OF GARY  
Honorable Karen Freeman Wilson

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## EXHIBIT A

### Gary Storm Water Management Ordinance No. 79-31 and NPDES General Permit Rule 327 IAC 15 -13- 16 (Rule 13) Post Construction Permit Requirements

IDEM General Permit Rule 327 IAC 15-13-16 requires the Gary Storm Water Management District to develop and implement a program to address discharges of post construction storm water run-off from new development and redevelopment areas within the municipal boundaries. Based on this authority, City of Gary Storm Water Management Ordinance No. 79-31 regulates the following:

- A. Discharges of prohibited non-storm water flows into the storm water drainage system.
- B. Storm water drainage improvements related to development of lands located within the City of Gary, Indiana.
- C. Drainage control systems installed during new construction and grading of lots and other parcels of land.
- D. Erosion and sediment control systems installed during new construction and grading of lots and other parcels of land.
- E. The design, construction, and maintenance of storm water drainage facilities and systems.
- F. The design, construction, and maintenance of storm water quality facilities and systems.

**No construction can begin in the City of Gary without applicable approved Storm Water Construction and Post Construction permits. These permits must be obtained and in place for City of Gary Zoning Clearance and Building Permits to be issued.**

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**ATTACHMENT REQUIREMENTS**

ATTACHMENT	METHOD OF STORM WATER DISCHARGE			
	DISCHARGE INTO COMBINED SEWERS <sup>1</sup>	DISCHARGE INTO STORM SEWERS <sup>2</sup>	DISCHARGE INTO WATERWAYS <sup>3</sup>	DISCHARGE BELOW GRADE <sup>4</sup>
I. Storm Water / Sanitary Sewer Fee Submittal Form	Required	Required	Required	Required
II. Storm Water Management Submittal Verification Checklist	Required	Required	Required	Required
III. Application for Storm Water Management Permit	Required	Required	Required	Required
IV. Storm Water Management Summary Form	Required	Required	Required	Required
V. Certification of Registered Professional Engineer Letter	Required	Required	Required	Required
VI. Capacity Certification / Allocation Letter	Required	Required	Not Required	Not Required
VII. General Site Plan	Required	Required	Required	Required
VIII. Drainage Plan Report	Required	Required	Required	Required
IX. Plans and Specifications	Required	Required	Required	Required
X. Erosion Control Plan	Required	Required	Required	Required
XI. Post-Construction Storm Water Management Plan	Required	Required	Required	Required

<sup>1</sup>For storm water systems designed to treat / store / exfiltrate storm water to the maximum extent possible prior to allowing an overflow to a connection into the existing combined sewer system. If required, obtain a permit to tap into the GSD's combined sewer system from the GSD/GSWMD Technical Services Department, telephone (219) 944-1211, Mr. Kola Awosike, P.E. *This method will only be allowed under special circumstances. Please check with the GSWMD Technical Services Department prior to submitting design proposal.*

<sup>2</sup>For storm water systems designed to treat / store storm water to the maximum extent practicable prior to allowing an overflow to a connection into the existing storm sewer system. If required, obtain a permit to tap into the GSWMD's storm sewer systems from the GSD/GSWMD Technical Services Department (219) 944-1211, Mr. Kola Awosike, P.E.

<sup>3</sup>For storm water systems designed to treat/store storm water to the maximum extent practicable prior to allowing overflow into a swale, ditch, surface water, open waterway, etc.

<sup>4</sup>For storm water systems designed to treat / store storm water to the maximum extent practicable through exfiltration below grade methods.

GARY STORM WATER MANAGEMENT DISTRICT

**Storm Water Fee Submittal Form**

(This is not a permit application)

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

Storm Sewer System ( )

Sanitary Sewer System ( )

Assigned Project No: \_\_\_\_\_

Date of Submittal: \_\_\_\_\_

Project Name: \_\_\_\_\_

Township: \_\_\_\_\_

Legal Address: \_\_\_\_\_

Parcel No.: \_\_\_\_\_

\_\_\_\_\_

**Owner/Developer Information**

**Design Firm Information**

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Professional Engineer: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Fax: \_\_\_\_\_

e-mail: \_\_\_\_\_

e-mail: \_\_\_\_\_

As owner, or an authorized representative of the owner, I agree to pay all fees incurred for the above requested reviews.

\_\_\_\_\_  
Printed Name, Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip Code

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Office Use Only:

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**STORM WATER PERMIT APPLICATION FEES** ( ) \$250 Review and Inspection Fee (per acre of site disturbed), i.e., a four (4) acre development would require a \$1,000.00 Permit Review Fee. Minimum fee \$250.00.

A development of one (1) acre or above requires submission of a Rule 5 Permit Application in addition to any Storm Water Permit requirements listed below.(See Exhibit B)

**Review Applied For (Check All That Apply)**

**Use**

- |   |  |
|---|--|
| 1. _____ Flood Control District<br>(Floodway / Flood Plain) | 1. _____ Single or Double Family Residence |
| 2. _____ Fill (Placement of Fill Only)                      | 2. _____ Proposed Subdivision Plan         |
| 3. _____ Storm Water (Check if none above apply)            | 3. _____ Commercial/Industrial/Apartment   |
|   | 4. _____ Other Than Above                  |

FLOODPLAIN DATA: ( ) Floodway ( ) Floodway Fringe ( ) Does Not Apply

**SITE INFORMATION:**

Total Acres of Site: \_\_\_\_\_ Total Disturbed Acres: \_\_\_\_\_ Acreage of Impervious Area(s): \_\_\_\_\_

*Please make checks payable to "Gary Storm Water Management District".*

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**SANITARY SEWER REVIEW** ( ) Review Fee based as follows:

**Review Applied For (Check All That Apply)**

1. \_\_\_\_\_ Wasteload Allocation - \$500.00 fee
2. \_\_\_\_\_ Industrial Discharge Allocation - \$500.00 fee
3. \_\_\_\_\_ Lateral Connection Review – Contact GSD Technical Services Department at (219) 944-1211
4. \_\_\_\_\_ Construction Plan Review - \$1.50/ln ft of sewer.
5. \_\_\_\_\_ Lift Station Plan Review - \$500.00.

Total No. of Units (circle one): \_\_\_\_\_

Single Family, Apartments, Condominiums, Commercial, Industrial, Other

Average Waste Flow: \_\_\_\_\_ GPD

Peak Waste Flow: \_\_\_\_\_ GPD

Total No. of Manholes: \_\_\_\_\_

Total Footage of Sewer and Type (Each Size): \_\_\_\_\_

Total Unsewered Watershed Acreage to Be Served: \_\_\_\_\_

Design Allowance for Inflow and Infiltration: \_\_\_\_\_

The new sanitary sewer will connect to an existing \_\_\_\_\_ inch diameter sewer at: \_\_\_\_\_

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(Please provide an 11x17 copy of that part of the Gary Sanitary District's sewer atlas showing the proposed location of the Project. Highlight connection point to existing sewer system and adjacent streets.)

**Lift Stations:**

**Pump Data**

Discharge Pipe Size: \_\_\_\_\_  
GPM: \_\_\_\_\_  
TDH: \_\_\_\_\_  
HP (max): \_\_\_\_\_  
RPM (max): \_\_\_\_\_  
Voltage: \_\_\_\_\_  
Phase: \_\_\_\_\_

**Wet Well Data**

Depth: \_\_\_\_\_  
Diameter: \_\_\_\_\_  
Inv. Elev.: \_\_\_\_\_  
Capacity: \_\_\_\_\_  
Station Size: \_\_\_\_\_  
Static Head: \_\_\_\_\_

**Force Main Data**

Diameter: \_\_\_\_\_  
Length: \_\_\_\_\_  
Type: \_\_\_\_\_  
Connection Point: \_\_\_\_\_

*Please make checks payable to "Gary Sanitary District".*

GARY, INDIANA  
 STORM WATER MANAGEMENT PERMIT APPLICATION  
 Application No. \_\_\_\_\_

**STORM WATER MANAGEMENT  
 SUBMITTAL VERIFICATION CHECKLIST**

Please submit items in the order listed on this checklist to expedite review. Inside the box for each item, please insert “√” for each item submitted and “NA” for each item that is not applicable.

<b>I. Storm Water / Sanitary Plan Review Submittal Form</b> (A copy of this form is attached.)	
A. Name and address of proposed project.	
B. Owner / Developer’s name, address, telephone and fax.	
C. Design Firm’s name, address, telephone and fax.	
D. Signature of owner or authorized agent including date signed.	
E. Storm water system information.	
F. Included appropriate review fee.	
<b>II. Storm Water Management Submittal Verification Checklist</b> (This form.)	
<b>III. Application for Storm Water Management Permit</b> (A copy of this application is attached.)	
A. Applicant’s name, address, telephone, fax, and e-mail.	
B. Engineer’s name, address, telephone, fax, and e-mail.	
C. Name and address of proposed project.	
D. Method of storm water discharge.	
E. Signature of applicant or authorized agent including date signed.	
<b>IV. Storm Water Management Summary Form</b> (A copy of this form is attached.)	
A. Development Area	

1. Indicate present land use.	
2. Indicate proposed land use.	
3. Indicate outfall and/or outlet location(s) by address and geographical coordinates.	
<b>B. Total Runoff / Flow Rates</b>	
1. Provide the 10-year storm runoff rate (pre-development) for each of the identified basins.	
2. Provide the 100-year storm runoff rate (post-development) for each of the identified basins.	
<b>C. Storage Rate</b>	
1. Provide the parameter values used in the storm water runoff calculations.	
<b>D. Method of Computation / Analysis</b>	
1. Provide a brief description of the computation method(s), hydrograph technique(s) and/or computer modeling methods used to determine storm water runoff.	
<b>E. A registered professional engineer must sign, seal and date this form.</b>	
<b>V. Certification of Registered Professional Engineer Letters</b> (Copies of these letters are attached.)	
<b>A.</b> A registered professional engineer must sign, seal and date the appropriate certification letter. This form must be filled out in its entirety. Utilize form “CS”, “SW”, “STS”, or “BG” as appropriate.	
1. Use Certification of Registered Professional Engineer “CS” if the storm water system was designed to treat/store/exfiltrate storm water to the maximum extent possible prior to allowing an overflow to a connection into the existing combined sewer system.	
2. Use Certification of Registered Professional Engineer “STS” if the storm water system was designed to treat/store storm water to the maximum extent practicable prior to allowing an overflow to a connection into the existing storm sewer system.	

<p>3. Use Certification of Registered Professional Engineer “SW” if the storm water system was designed to treat/store storm water to the maximum extent practicable prior to allowing an overflow into a swale, ditch, surface water, open waterway, etc.</p>	
<p>4. Use Certification of Registered Professional Engineer “BG” if the storm water system was designed to treat/store storm water to the maximum extent practicable through below grade exfiltration methods.</p>	
<p><b>VI. Capacity Certification / Allocation Letter</b> (Copies of these letters are attached.)</p>	
<p>A. The appropriate capacity certification letter must be completed by the professional engineer that designed the system and/or sealed the plans. Utilize form “CS” or “STS” as appropriate. The GSD/GSWMD Director is signatory.</p>	
<p>1. Use Capacity Certification / Allocation Letter “CS” if the storm water system was designed to treat/store/exfiltrate storm water to the maximum extent possible prior to allowing an overflow to a connection into the existing combined sewer system.</p>	
<p>2. Use Capacity Certification Letter “STS” if the storm water system was designed to treat/store storm water to the maximum extent practicable prior to allowing an overflow to a connection into the existing storm sewer system.</p>	
<p><b>VII. General Site Plan</b> (A copy of the format to be used is attached.)</p>	
<p>A. Provide an 8.5-inch x 11-inch site plan of the project drawn to scale showing dimensions of the site with existing and proposed storm drainage facilities.</p>	
<p><b>VIII. Storm Water Quality Management</b></p>	
<p>A. Post-development release rates for development up to and including the 100-year return period storm may not exceed 0.2 cfs per acre of development.</p>	
<p>1. For Below Grade Exfiltration Methods, the post development release rates for developments up to and including the 100-year return period storm shall not exceed the 10-year pre-developed peak runoff rate.</p>	
<p>B. Provide the ratio of the off-site area to the on-site area. If it is larger then 5:1, additional detention will be required by the GSWMD.</p>	
<p>C. Determine if the downstream receiving channels or storm sewer system is adequate to accommodate the post developed release rates. If not, then the allowable release rates shall be reduced to a rate that is permitted by the capacity of the receiving downstream channel or storm sewer system.</p>	

1. If the proposed development makes up only a portion of the undeveloped watershed upstream of the limiting restrictions, the allowable release rate for the development is in director proportions to the ratio of its drainage area to the drainage area of the entire watershed upstream of the restriction.	
D. 100-year storm event runoff flow paths must be shown as hatched area on the plans and 30 feet along the centerline of the flow path contained within permanent drainage easements.	
1. Provide a statement is added to the plat that will refer the viewer to the construction plans to see the entire extent of the overflow path as hatched areas.	
2. No fences or landscaping are in the design of construction within the easement areas that may impede the free flow of storm water.	
3. The lowest grade for all residential, commercial, or industrial buildings is a minimum 1 foot higher then the noted overflow path / ponding elevation.	
E. Provide the flow path from the development outfall(s) to a regulated drain or natural watercourse (as determined by the GSWMD) on an exhibit that includes topographical information and any existing file tile encountered during construction.	
1. Provide all owners of real estate and/or tenants consent in writing to the use of their real estate through recorded easements if the outfall from the storm water drainage system flow through real estate owned by other prior to reaching a publicly regulated rain or watercourse. No approval shall be granted for such drainage system.	
F. Provide compensatory excavation of 1.5 times the floodplain storage lost for all activities within floodplain of streams located in the City of Gary where the drainage area of the stream is equal or larger than one half (1/2) square mile.	
1. Computations shows 1.5 times the provisions of compensatory floodplain storage for 1 year, 50 year and 100 year storm events.	
2. Calculations for floodplain volume is submitted in tabular form showing calculations by cross section. The volume of the floodplain storage under the without-project conditions and the with-project conditions were determined using the average-end-area method with plotted cross-sections at a horizontal and vertical ratio of between 5:1 and 10:1, with the 10- through 100-year flood elevations noted on each cross section.	
G. The calculation methods as well as the type, sizing, and placement of all storm water facilities meet the design criteria, standards, and specifications outlined in the City of Gary Design Standards Manual.	
H. No trees or shrubs will be planted, nor any structures or fences will be constructed in any drainage easement, unless approved by the GSWMD.	
I. If the developer chooses to petition to incorporate the storm system into the City of Gary's system, the following may be included in the petition	
<b>SUBDIVISIONS</b>	
1. All new channels, drain tiles equal to or greater than 12 inches in diameter, inlet and outlet structures of detention and retention ponds, and appurtenances thereto will need proper inspection, and acceptance by the GSWMD before it becomes incorporated into the City of Gary's system.	



2. New drain tile or sewers are placed in a 30 foot easement (15 feet from centerline on each side) and are designated on the record plat as a 30-foot drainage easement. Wider easements will be required by the GSWMD when the depth of the pipe is greater than 6 feet.	
3. A minimum of 25 feet from top of the bank on each side of the new channel is designated on the record plat as a drainage easement.	
4. A minimum of 30 feet beyond the actual foot print (top of bank) of storm water detention facilities is designated as a drainage easement. A minimum 30 foot width easement is also required as access easement, unless the pond is immediately next to a public right-of-way.	
5. 75 foot (each side) drainage easement for County regulated drains already within the City of Gary's system maybe reduced if the drain is re-classified by the Lake County Surveyor as an Urban Drain.	
6. An annual assessment will be set up on each new publicly regulated drain established in the new Subdivision.	
<b>NON-SUBDIVISIONS</b>	
1. Drainage easements of 25 feet from the top of the bank on each side of the channel or each side of the tile is dedicated to the City of Gary. In addition, a minimum of 25-foot width of vegetative filter strip is provided, and maintained by the applicant, along top-of-bank, on each side, within these easements.	
<b>STATE, COUNTY, SCHOOL PROPERTIES</b>	
1. The GSWMD will not be responsible for maintenance of all new channels, swales, drain tiles, inlet and outlet structures of detention and retention ponds, and appurtenances thereto as required by this chapter, that are constructed on the State, County, or school property unless contracted with the GSWMD with reasonable compensation.	
J. No permanent structures will be erected within seventy five feet measured as right angles from a.) The existing top edge of each bank of a County Regulated Open Drain, as determined by the Lake County Surveyor; or b.) The center line of a tiled County Regulated Drain.	
<b>IX. Storm Water Pollution Prevention for Construction Sites</b>	
The GSWMD will require a detailed Storm Water Pollution Prevention Plan (SWPPP), which includes erosion and sediment control measures and materials handling procedures, to be submitted as part of the construction plans and specifications. The following must be adhered to.	
A. For an individual lot where land disturbance is expected to be one (1) acre or more, or if the individual lot is less then one (1) acre but is part of a larger project, the individual lot owner must complete their own NOI (Notice of Intent) letter and ensure that a sufficient construction and storm water pollution prevention plan is completed and submitted in accordance with Chapter 7 the City of Gary Ordinance 79-31; regardless of whether the individual lot is part of a larger permitted project site.	

B. Deep cuts and fills in areas with steep slopes should be avoided wherever possible, and natural contours should be followed as closely as possible.	
C. Existing natural vegetation will be retained and protected wherever possible. Un-vegetated or vegetated areas with less than 70% cover that are scheduled or likely to be left inactive for 15 days or more are temporarily or permanently stabilized.	
D. All activities on a site will be conducted in a logical sequence so that the smallest practical area of land will be exposed for the shortest practical period of time during development.	
E. The length and steepness of designed slopes are minimized to reduce erosion potential. Drainage channels and swales were designed and adequately protected so that their final gradients and resultant velocities will not cause erosion in the receiving channel or at the outlet.	
F. Sediment-laden water which otherwise would flow from the project site shall be treated by erosion and sediment control measures appropriate to minimize sedimentation. A stable construction site access shall be provided at all points of construction traffic ingress and egress to the project site.	
G. Appropriate measures will be implemented to prevent wastes or unused building materials from being carried from a project site by runoff or wind. Identification of areas where concrete truck washout is permissible will be clearly posted at appropriate areas of the site. Wastes and unused materials shall be managed and disposed of in accordance with all applicable State statutes and regulations. Proper storage and handling of materials such as fuels or hazardous wastes, and spill prevention and cleanup measures shall be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality.	
H. Public or private roadways shall be kept cleared of accumulated sediment that is a result of runoff or tracking. Bulk clearing of accumulated 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 statutes and regulations.	
I. Collected runoff leaving the project site will be either discharged 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.	
J. Natural features, including wetlands shall be protected from pollutants associated with storm water runoff.	
K. Off-site construction activities that provide services to a land disturbing project site was considered as a part of the total land disturbance calculation for the project site.	
<b>X. Post-Construction Storm Water Management Plan</b>	
A. Provide a description of the methods that will be conducted after the system is installed to assure that the storm water system is maintained and functioning as designed.	

1. Provide a description of the regular inspection and maintenance program and include a blank maintenance inspection report form.	
2. Provide a sampling plan for storm water systems that will discharge into a combined sewer system.	
3. BMP(s) installed with this project removes 80% of Total Suspended Solids and the ability to address the specific pollutants of concern for the development.	
4. The calculation methods meets the design criteria, standards and specifications outlined in the Indiana Storm Water Quality Manual or the City of Gary Design Standards Manual, and meets the requirements of GSWMD Ordinance No. 79-31.	
5. All storm water quality management systems located outside of the right-of-way shall be incorporated into permanent easements.	
<p>XI. Preliminary Drainage Plan Review and Approval</p> <p>A developer may submit conceptual drainage plans for review by the GSWMD prior to the final permit application submission. Note that any preliminary drainage approval by the GSWMD as a result of such a review may be based on preliminary data and shall not be construed as a final drainage approval or considered binding on either party. The following is a general list of minimum data required for the review of conceptual drainage plans.</p>	
A. Provide two (2) complete sets of conceptual plans showing general project layout, including existing and proposed drainage system and proposed outlets (provide both ½ size and full size drawings).	
B. Provide general descriptions of the existing and proposed drainage systems in narrative form.	
C. Provide watershed boundaries with USGS Contours or best information possible.	
D. Provide existing watercourse or regulated drains.	
E. Provide a letter of intent for obtaining any needed consents, off-site easements, or right-of-ways.	
F. For individual lots disturbing less than 10,000 square feet, developed within a larger permitted project, a formal review and issuance of an Individual Lot Plot Plan Permit will be required before a building permit can be issued. The following information must be submitted to the GSWMD for review and acceptance by the individual lot operator as part of a request for review and issuance of an Individual Lot Plot Plan Permit that must be obtained prior to the issuance of a building permit.	
1. A certified site layout for the subject lot and all adjacent lots showing building pad locations, dimensions, and elevations, and the drainage patterns and swales.	

<p>2. Erosion and sediment control plan that, at a minimum, includes the following:</p> <ul style="list-style-type: none"> <li>a. Installation and maintenance of a stable construction site access.</li> <li>b. Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance.</li> <li>c. Minimize of sediment discharge and tracking from the lot.</li> <li>d. 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.</li> <li>e. Adjacent lots disturbed by an individual lot operator must be repaired and stabilized.</li> <li>f. Self-monitoring program including plan and procedures.</li> </ul>	
<p>3. Name, address, telephone number and list of qualifications of the trained individual in charge of the mandatory storm water pollution prevention self-monitoring program for the project site.</p>	
<p>G. Except for a single family residence, provide assurance in form of an irrevocable letter of credit, a bond, or such other instrument or method of security acceptable in writing by the GSWMD when the storm water management plan has been accepted. The assurance shall be for an amount equal to one hindered ten percent (110%) of the total costs of all storm water management measures for the entire project, with a minimum assurance of \$5,000.</p>	
<p>H. If wetlands are suspected on a site, wetland delineation should be completed in accordance with the methodology established by the U.S. Army Corps of Engineers and wetland addressed in accordance to the requirements of Chapter 6 of the City of Gary Ordinance 79-31.</p>	
<p><b>Please note that this checklist is only designed to expedite the review process by assisting the applicant with verification that the applicant has submitted the required information needed for storm water management permit review and in no way is intended to replace the technical review process, nor is it a substitute for the actual Storm Water Management Permit or Application.</b></p>	

*(Form "CS" for proposed discharge into combined sewers: only under special pre-approved circumstances)*

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION  
Application No. \_\_\_\_\_  
Permit No. \_\_\_\_\_  
**CAPACITY CERTIFICATION / ALLOCATION LETTER (CS)**  
**(This Form "CS" Must be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Director), representing the GSWMD and GSD, in my capacity as Director of each, have the authority to act on behalf of the GSD / GSWMD and certify that:

I have reviewed and understand the requirements of City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and that the storm water collection system proposed, by \_\_\_\_\_ (Owner) meets all applicable requirements. I certify that the storm water flow generated in the area that will be collected by the system will not cause overflowing or bypassing in the combined sewer collection system other than at NPDES authorized discharge points and that there is sufficient capacity in the receiving water pollution treatment / control facility to treat the additional storm water flow and remain in compliance with applicable NPDES permit effluent limitations. I certify that the proposed storm water flow will not result in hydraulic or organic overload of the pollution treatment/control facility. I certify that the proposed storm water treatment/collection system does not include new combined sewers, or new sanitary sewers. I certify that the ability for this storm water treatment/collection system to comply with City of Gary Ordinance No. 79-31, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District is not contingent on water pollution/control facility construction that has not been completed and put into operation. I certify that the project meets the requirements of all applicable rules or laws, regulations, and ordinances. The

information submitted is true, accurate, and complete, to the best of my knowledge and belief.

Storage Volume: \_\_\_\_\_  
**(Volume based on maximum storage / minimum outflow possible)**

Wastewater Treatment Plant: \_\_\_\_\_  
**(Name of WWTP)**

Sewers: \_\_\_\_\_  
**(Owner of Sewers)**

\_\_\_\_\_  
**Executive Director, GSD/GSWMD**

\_\_\_\_\_  
**Date Signed**

*(Form "STS" for proposed discharge into storm sewers)*

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**CAPACITY CERTIFICATION LETTER (STS)**  
**(This Form "STS" Must be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Director), representing the GSWMD and GSD, in my capacity as Director of each, have the authority to act on behalf of the GSD / GSWMD and certify that:

I have reviewed and understand the requirements of City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and that the storm water collection system proposed, by \_\_\_\_\_ (Owner) meets all applicable requirements. I certify that the storm water flow generated in the area that will be collected by the system will not cause overflowing or bypassing in the storm sewer collection system other than at authorized discharge points. I certify that the proposed storm water treatment/collection system does not include new combined sewers, or new sanitary sewers. I certify that the ability for this storm water treatment/collection system to comply with City of Gary Ordinance No. 79-31, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District is not contingent on storm water treatment facility construction that has not been completed and put into operation. I certify that the project meets the requirements of all applicable rules or laws, regulations, and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief.

Storage Volume: \_\_\_\_\_  
**(Volume based on maximum storage / minimum outflow possible)**

Sewers: \_\_\_\_\_  
**(Owner of Sewers)**

\_\_\_\_\_  
**Executive Director, GSD/GSWMD**

\_\_\_\_\_  
**Date Signed**



*(Form "CS" for proposed discharge into combined sewers)*

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**CERTIFICATION OF REGISTERED PROFESSIONAL ENGINEER LETTER (CS)**  
**(This Form "CS" Must be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Individual), representing the project Owner, in my capacity as a registered professional engineer, \_\_\_\_\_ (Indiana Registration Number) certify the following under the penalties for perjury:

The design of this project has been performed under my direction or supervision to assure conformance with City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and the plans and specifications require the construction of said project to be performed in conformance with said ordinance. Computations are provided that show that, at a minimum, the peak runoff rate after development for the 100-year return period storm does not exceed the 10-year pre-development peak runoff rate. Computations are provided that show the required storage volume necessary to limit the system outflow rate to the 10-year pre-development peak runoff rate, to limit the system outflow rate to 50 percent of the 10-year pre-development peak runoff rate, and to limit the system outflow rate to 0 percent of the 10-year pre-development peak runoff rate. Also, Best Management Practices (BMP) devices have been incorporated into this project that will treat, store and attenuate storm water to the maximum extent reasonably possible prior to release into the combined sewer system. Design of the proposed project meets the requirements of all applicable rules or laws, regulations, and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief.

Pre-development Peak Runoff Rate (CFS): \_\_\_\_\_  
(Based on 10-year return period)

Post-development Peak Runoff Rate (CFS): \_\_\_\_\_  
(Based on 100-year return period)

Storage Volume Required (ft<sup>3</sup>): \_\_\_\_\_  
(Based on 10-year pre-development peak run-off rate)

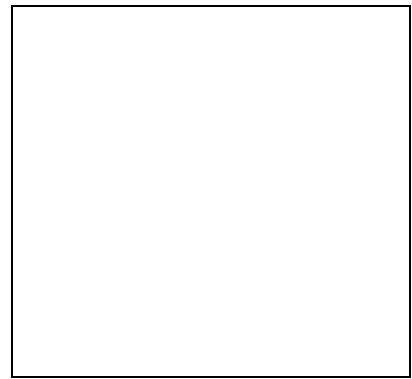
Storage Volume Required (ft<sup>3</sup>): \_\_\_\_\_  
(Based on 50 percent of the 10-year pre-development peak run-off rate)

Storage Volume Required (ft<sup>3</sup>): \_\_\_\_\_  
(Based on 0 percent of the 10-year pre-development peak run-off rate)

\_\_\_\_\_  
**Signature of Person Signing**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Date Signed**



(Certifier's Seal)

*(Form "STS" for proposed discharge into storm sewers)*

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**CERTIFICATION OF REGISTERED PROFESSIONAL ENGINEER LETTER (STS)**  
**(This Form "STS" Must be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Individual), representing the project Owner, in my capacity as a registered professional engineer \_\_\_\_\_ (Indiana Registration Number) certify the following under penalties for perjury:

The design of this project has been performed under my direction or supervision to assure conformance with City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and the plans and specifications require the construction of said project to be performed in conformance with said ordinances. Computations are provided that show that, at a minimum, the peak runoff rate after development for the 100-year return period does not exceed the 10-year pre-development peak runoff rate. Also, Best Management Practice (BMP) devices have been incorporated into this project that will treat, store and attenuate storm water to the maximum extent practicable prior to release into the storm sewer system. The design of the proposed project meets the requirements of all applicable rules, laws, regulations, and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief.

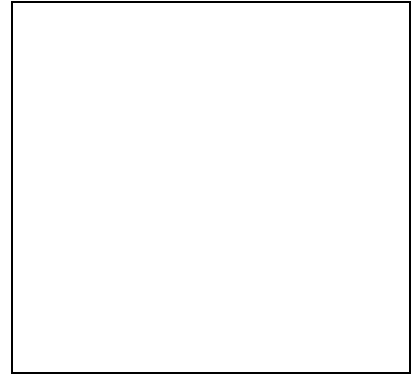
Pre-development Peak Runoff Rate (CFS): \_\_\_\_\_  
(Based on 10-year return period)

Post-development Peak Runoff Rate (CFS): \_\_\_\_\_  
(Based on 100-year return period)

\_\_\_\_\_  
**Signature of Person Signing**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Date Signed**



(Certifier's Seal)

(Form "SW" for proposed discharge into water ways)

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**CERTIFICATION OF REGISTERED PROFESSIONAL ENGINEER LETTER (SW)**  
**(This Form "SW" Should be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Individual), representing the project Owner, in my capacity as a registered professional engineer, \_\_\_\_\_ (Indiana Registration Number) certify the following under the penalties for perjury:

The design of this project has been performed under my direction or supervision to assure conformance with City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and the plans and specifications require the construction of said project to be performed in conformance with said ordinances. Computations show that, at a minimum, the peak runoff rate after development for the 100-year return period does not exceed the 10-year pre-development peak runoff rate. Also, Best Management Practice (BMP) devices have been incorporated into this project that will treat, store and attenuate storm water to the maximum extent practicable prior to release. The design of the proposed project meets the requirements of all applicable laws, rules, regulations, and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief.

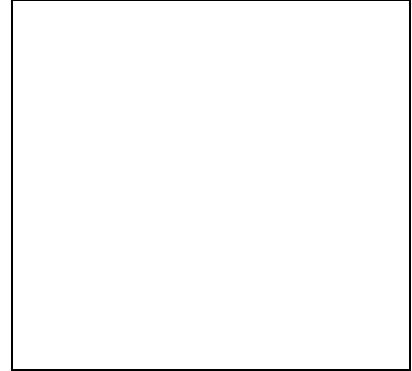
Pre-development Peak Runoff Rate: \_\_\_\_\_  
(Based on 10-year return period)

Post-development Peak Runoff Rate: \_\_\_\_\_  
(Based on 100-year return period)

\_\_\_\_\_  
**Signature of Person Signing**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Date Signed**



(Certifier's Seal)

*(Form "BG" for proposed discharge below grade)*

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**CERTIFICATION OF REGISTERED PROFESSIONAL ENGINEER LETTER (BG)**  
**(This Form "BG" Should be Filled Out in its Entirety)**

Engineer: \_\_\_\_\_

Engineer's Address: \_\_\_\_\_

Engineer's phone, fax and e-mail: \_\_\_\_\_

Owner: \_\_\_\_\_

Owner's Address: \_\_\_\_\_

Owner's phone, fax and e-mail: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

I, \_\_\_\_\_ (Name of Individual), representing the project Owner, in my capacity as a registered professional engineer, \_\_\_\_\_ (Indiana Registration Number) certify the following under penalties for perjury:

The design of this project has been performed under my direction or supervision to assure conformance with City of Gary Ordinance No. 79-31 An Ordinance Establishing a Storm Water Management and Sediment Control Policy for the City of Gary, Indiana, the Gary Sanitary District Sewer Use Ordinance, and any rules promulgated by the Board of Commissioners of the Gary Sanitary District and the Board of Directors of the Gary Storm Water Management District, and the plans and specifications require the construction of said project to be performed in conformance with said ordinances. Computations show that sufficient storage volume required to contain / exfiltrate the peak runoff rate after development for the 100-year return period has been provided. Also, Best Management Practice (BMP) devices have been incorporated into this project that will treat, filter and protect the underground exfiltration system to the maximum extent practicable. The design of the proposed project meets the requirements of all applicable laws, rules, regulations, and ordinances. The information submitted is true, accurate, and complete, to the best of my knowledge and belief.

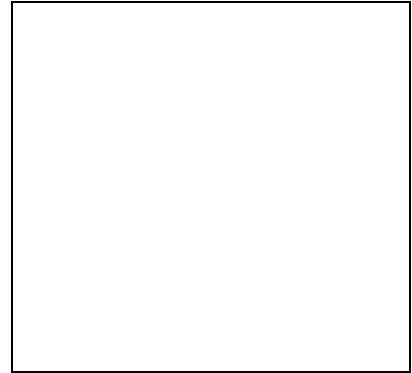
Pre-development Peak Runoff Rate: \_\_\_\_\_  
(Based on 10-year return period)

Post-development Peak Runoff Rate: \_\_\_\_\_  
(Based on 100-year return period)

\_\_\_\_\_  
**Signature of Person Signing**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Date Signed**



(Certifier's Seal)



GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**APPLICATION FOR STORM WATER MANAGEMENT PERMIT**

A. Owner (Name and Address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

E-mail Address \_\_\_\_\_

B. Engineer (Name and Address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

E-mail Address \_\_\_\_\_

C. Name of Proposed Project

\_\_\_\_\_

Address of Proposed Project

\_\_\_\_\_

City \_\_\_\_\_

County \_\_\_\_\_

D. METHOD OF STORM WATER DISCHARGE:

Please select the method of storm water discharge utilized:

1.  **CS** – The storm water system was designed to treat/store/exfiltrate storm water to the maximum extent possible prior to allowing an overflow to a connection into the existing combined sewer system.
2.  **STS** – The storm water system was designed to treat/store storm water to the maximum extent practicable prior to allowing an overflow to a connection into the existing storm sewer system.
3.  **SW** – The storm water system was designed to treat/store storm water to the maximum extent practicable prior to allowing an overflow into a swale, ditch, surface water, open waterway, etc.
4.  **BG** – The storm water system was designed to treat/store storm water to the maximum extent practicable through below grade exfiltration methods.

E. SIGNATURE

Application is hereby made for a permit to authorize the activities described herein. I certify, under the penalties for perjury, that I am fully familiar with all of the information contained in this application, and to the best of my knowledge and belief, such information is true, complete and accurate.

Printed Name of Engineer \_\_\_\_\_

Signature of Engineer \_\_\_\_\_

Date Application Signed \_\_\_\_\_

GARY, INDIANA  
 STORM WATER MANAGEMENT PERMIT APPLICATION  
 Application No. \_\_\_\_\_  
 Permit No. \_\_\_\_\_  
**STORM WATER MANAGEMENT SUMMARY FORM**

**A. DEVELOPMENT AREA**

Present land use \_\_\_\_\_

Proposed land use \_\_\_\_\_

Outfall and/or outlet location(s) \_\_\_\_\_

**B. TOTAL RUNOFF / FLOW RATES**

<u>Basin</u>	<u>10-Year Storm Flow Rate (pre)</u>	<u>100-Year Storm Flow Rate (post)</u>
_____	_____ cfs	_____ cfs
_____	_____ cfs	_____ cfs
_____	_____ cfs	_____ cfs
Total	_____ cfs	_____ cfs

**C. STORAGE RATE**

Retention/detention facility design return period (yrs) \_\_\_\_\_

Release rate return period (yrs) \_\_\_\_\_

Total drainage area (acres) \_\_\_\_\_

Pre-development runoff coefficient \_\_\_\_\_

Pre-development time of concentration (minutes) \_\_\_\_\_

10-year intensity (in/hr) \_\_\_\_\_

Pre-development runoff rate (cfs) \_\_\_\_\_

Post-development runoff coefficient \_\_\_\_\_

Required storage volume (ft<sup>3</sup>) \_\_\_\_\_

Exfiltration rate (in/hr) \_\_\_\_\_

**D. METHOD OF COMPUTATION / ANALYSIS**

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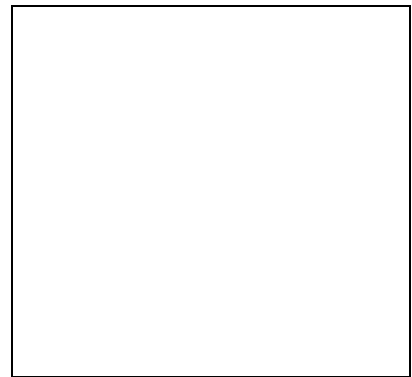
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**E. SIGNATURE**

\_\_\_\_\_  
**Signature of Person Signing**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Date Signed**



(Certifier's Seal)

# **GENERAL SITE PLAN**

(use additional sheets if necessary)

SCALE

Owner Name  
Project Name  
Project Address  
GSWMD App. No.  
GSWMD Permit No.  
Engineer's Name  
Engineer's Address

GARY, INDIANA  
STORM WATER MANAGEMENT PERMIT APPLICATION

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

**POST-CONSTRUCTION STORM WATER MANAGEMENT PLAN**

**A. OPERATIONS AND MAINTENANCE MANUAL**

Each storm water management system must have an operations and maintenance (O&M) plan. A separately bound O&M manual for the storm water management system must be submitted with the storm water management permit application for review by the GSWMD. The approved O&M manual will become a post-construction storm water management plan compliance document for the system when construction is complete.

The O&M manual shall, at a minimum, include the following:

1. Name, address, business phone number, home phone number, fax number, and email address of the storm water management system owner and, if different, operator.
2. Site drawings (8 ½" x 11") showing both plan and cross-section views of the storm water management system and applicable features, including dimensions, easements, outlets, equipment, etc.
3. Required periodic inspection instructions.
4. Routine maintenance instructions.
5. Remedial maintenance instructions.
6. Sediment removal instructions, both narrative and graphical, describing when sediment removal should occur in order to insure that the storm water management system remains effective as a water quality and / or quantity control device.
7. Sampling plan for those storm water systems that connect to the combined sewer system and require sampling.
8. Tabular schedule listing inspection and maintenance tasks and frequency.
9. Blank maintenance inspection report form(s).
10. Statement signed by the owner acknowledging that the owner is responsible for periodic inspection and maintenance of the system, including costs of such.
11. Statement that the owner will perform any maintenance specified by GSWMD inspector.
12. Statement that GSWMD representatives have the right to enter the property to inspect / sample the storm water management system at any reasonable time.

**B. RESPONSIBILITIES**

Routine inspections, operation, and maintenance of the storm water management system are the responsibility of the owner. Appropriate inspection, operation, and maintenance documentation must be generated by the owner, legible and complete copies submitted to the GSWMD annually, and produced to GSWMD upon its request. The granting of an easement to the City of Gary or GSWMD does not alter the property owner's duty to operate and maintain the property's storm water management facilities. Maintenance shall be provided to storm water management facilities to assure continuous design operational capacity of the storm water management facility.

The GSWMD has the right to enter property to inspect / sample the storm water management system. Inspections / sampling of storm water management systems may be performed by the GSWMD at its discretion. In the event the GSWMD finds a system in need of maintenance or repair, the GSWMD will notify the owner of the problem and suggest necessary remedial maintenance or repairs and give the owner a reasonable time frame for completing the maintenance or repairs. If the maintenance or repairs are not completed within the designated time frame, the GSWMD may perform the repairs or maintenance and invoice the owner for all costs incurred by GSWMD for doing the work, including administrative costs associated with procurement and supervision of contractors.

The GSWMD must be notified of any changes in storm water management system ownership, major repairs, or system failure, in writing within 30 days of a change. The O&M manual shall be appropriately revised and copies of all O&M manual revisions and a brief summary of major repairs, system failures, and subsequent corrective action shall be promptly provided to the GSWMD.

#### C. ENFORCEMENT

Failure to comply with the guidelines set forth herein may result in revocation of the storm water management permit until such time that proof of compliance with the post-construction storm water management plan has been submitted to and approved by the GSWMD.

## SAMPLE MAINTENANCE INSPECTION REPORT FORM

Project: \_\_\_\_\_

GSWMD Permit No.: \_\_\_\_\_

Owner Change Since Last Inspection? \_\_\_\_\_ Y \_\_\_\_\_ N

Owner Name and Address: \_\_\_\_\_

Owner Phone Number and Fax Number: \_\_\_\_\_

Project Location: \_\_\_\_\_

Site Status: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Inspector: \_\_\_\_\_

Maintenance Task	Satisfactory / Unsatisfactory	Comments
<b>Sediment Removal Device</b> (Inspect quarterly and after major storms)		
1. Structural soundness		
2. Floatable debris / sediment removal needed		
3. Leaks or spills		
A. Location:		
B. Describe:		
4. Drains clear and functioning		
5. Water depth to sediment		
6. Maintenance performed:		
7. Other (describe)		
<b>Outlet / Overflow Spillway</b> (Inspect annually)		
1. Condition, need for repairs		
2. Evidence of erosion		
3. Other (describe)		
<b>Storm Water Pond</b> (Inspect monthly)		
1. Undesirable vegetative growth		
2. Floatable debris present		
3. Visible pollution		
4. Shoreline problem		
5. Other (describe)		
<b>Other</b> (Inspect monthly)		
1. Complaints from residents		
2. Public hazards (describe)		
3. Odors		

Additional comments:

Actions to be taken and time frame:

***Copies of all maintenance inspection report forms must be submitted to the Gary Storm Water Management District annually within 30 days of the anniversary of the Permit.***



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