COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

OFFICIAL USE ONLY
ID # _____
Date Received _____

PERMIT APPLICATION
NOTICE OF INTENT FOR COVERAGE UNDER THE GENERAL (PAG-2) NPDES PERMIT
OR
APPLICATION FOR AN INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

PLEASE READ THE PERMIT SUMMARY SHEET AND INSTRUCTIONS PROVIDED IN THIS PERMIT APPLICATION PACKAGE BEFORE COMPLETING THIS FORM. COMPLETE THE ATTACHED CHECKLIST AND WORKSHEETS 1 THROUGH 5 REFERENCED AFTER APPENDIX B OF THIS PERMIT APPLICATION. COMPLETE ALL OTHER APPLICABLE WORKSHEETS REFERENCED IN THE APPLICATION CHECKLIST.

☐ **1 acre to less than 5 acres of disturbance with a point source discharge** ☐ **5 acres or larger disturbance**

PLEASE PRINT OR TYPE INFORMATION IN BLACK OR BLUE INK.

CHECK APPROPRIATE BOX	**GENERAL** ☐	**INDIVIDUAL** ☐		
APPLICATION TYPE	**NEW** ☐	**RENEWAL** ☐	**MAJOR MODIFICATION** ☐	**PHASED** ☐

SECTION A. APPLICANT INFORMATION

Applicant's Last Name	First Name	MI	Phone FAX	
Email Address				
Organization Name or Registered Fictitious Name			Phone FAX	
Mailing Address	City		State	ZIP + 4
Co-Applicant's Last Name (if applicable)	First Name	MI	Phone FAX	
Email Address				
Organization Name or Registered Fictitious Name			Phone FAX	
Mailing Address	City		State	ZIP + 4

SECTION B. PROJECT INFORMATION AND SITE ANALYSIS

1. Project Name:
2. Project Description

☐ Residential Subdivision	☐ Sewerage/Water System	☐ Private Road/Residence
☐ Commercial/Industrial	☐ Public Road	☐ Government Facility
☐ Utility Facility/Transmission	☐ Recreational	☐ Remediation/Restoration

3. Total Project Area (Acres): _____

4. Project Location or Physical Address (if available):

5. County Municipality City Boro Twp

☐ ☐ ☐

☐ ☐ ☐

6. Latitude: _____°/ _____'/ _____" Longitude: _____°/ _____'/ _____"

Collection Method: ☐ EMAP ☐ HGIS ☐ GISDR ☐ ITPMP ☐ GPS ☐ WAAS ☐ LORAN

Check the horizontal reference datum (or projection datum) employed in the collection method. EMAP and HGIS (PNDI) have known datum and do not require checking here. ☐ NAD27 ☐ NAD83 ☐ WGS84 (GEO84)

Enter the date of collection if the lat and long coordinates were derived from GPS, WAAS or LORAN. _____ mm _____ dd _____ yyyy

7. U.S.G.S. Quad Map Name _____

8. Existing and Previous Uses of the Land Proposed for Construction (use separate sheet if necessary):

Existing Land Uses: ☐ Agriculture ☐ Forest/Woodland ☐ Barren ☐ Urban ☐ Brownfield ☐ Other

Description: _____

Previous Land Uses: ☐ Agriculture ☐ Forest/Woodland ☐ Barren ☐ Urban ☐ Brownfield ☐ Other

Description: _____

9. **Site Analysis**

Describe how Natural Resources features on the site (Worksheets 2 and 3 referenced in the Pa. Stormwater BMP Manual) were considered in: Location and Design of the project, E & S Plan Design, PCSM Plan Design. (attach additional sheet if necessary)

10. Potential Toxic or Hazardous Pollutants: (Submit the following data if soil contaminant, geology or past or present land use provides a potential for contaminated runoff from the project site) N/A ☐ Use additional sheets if necessary.

Pollutant	Concentration w/Units	Source	Sample Type	Date(s) / Number of Samples

11. **Fill Material**

Based on a cut/fill analysis of the project site, will the site need to import fill, export fill or will the site balance? Be sure to read the instructions before completing this section. Clean Fill can not be placed in or on waters of the Commonwealth.

Check the appropriate box

☐ Import fill – the Operator will, in most situations, be responsible to perform environmental due diligence and determine that all fill imported to the site meets the Department's definition of clean fill. The plan designer must include a note on the drawings to identify the operator(s) responsibility and provide the definition of Clean Fill and Environmental Due Diligence.

☐ Export fill – the Applicant is responsible for performing environmental due diligence at the time this application was submitted to determine that any fill exported from the site will be certified as clean fill.

☐ Balance all cuts and fills with the amount of rock and soil available on the site.

12. Total Disturbed Area (Acres) to be permitted: _____

13. Estimated Timeframe for completion of project: Project Start Date _____ Project End Date _____

14. Estimated Timetable for Phased Projects Build Out (Complete for phased projects only)

Phase No. or Name	Proposed Type of Activity	Total Area	Disturbed Area	Start Date	End Date

15. Stormwater Discharges to (during construction):

Waters of the Commonwealth ☐ Municipal Separate Storm Sewer ☐ Private Storm Sewer ☐ Non Surface Waters ☐

Receiving Water/Watershed Name:	Chapter 93 Receiving Water Classification: (Designated use)	Existing Use (if different from the Designated use)
Name of Municipal Storm Sewer Operator:	Name of Private Storm Sewer Operator:	Other: (including off-site discharges for which documentation is attached to support a legal right to discharge)

SECTION C. E & S AND POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN

Note: For projects involving multiple watershed boundaries, please submit a complete, separate Section C for each additional watershed.

1. Provide a brief summary of proposed BMPs and their performance to manage E & S for the project. If E & S BMPs and their application do not follow the guidelines referenced in the Pa. Erosion and Sediment Pollution Control Program Manual, provide documentation to demonstrate peformance equivalent to, or better than, the BMPs in the Manual.

E & S BMPs

PCSM Plan Information - The PCSM Plan should be designed to maximize volume reduction technologies, eliminate (where possible) or minimize point source discharges to surface waters, preserve the integrity of stream channels, and protect the physical, biological and chemical qualities of the receiving surface water. **The DEP recommends the use of Control Guideline 1 (CG1) referenced in the Pa. Stormwater BMP Manual to achieve this goal.**

Design standards applied to develop the PCSM Plan. Check those that apply.

☐ Act 167 Plan - The attached PCSM plan is consistent with an applicable approved Act 167 Plan. **A letter of consistency from the Municipal or County Engineer should be provided with the application.** Complete and submit all applicable worksheets referenced in the application checklist as part of the permit application for each approved Act 167 Plan.

Complete the following table for all applicable approved Act 167 Stormwater Management Plans. (use additional sheets if necessary)

ACT 167 Plan Name	Date Adopted	Consistency Letter Included
_____	_____	☐

☐ The attached PCSM plan is consistent with all applicable local stormwater management ordinances, including MS4 (NPDES Permit to Discharge Stormwater Through a Municipal Separate Storm Sewer System) ordinances. **A letter of consistency from the Municipal or County Engineer should be provided with the application.** Complete and submit all applicable worksheets referenced in the application checklist as part of the permit application.

Complete the following table for all applicable Municipalities. (use additional sheets if necessary)

Municipality Name	Ordinance Number	Consistency Letter Included
_____	_____	☐

The PCSM Plan must satisfy either subparagraph a **or** b below. Check those that apply.

A. ☐ Act 167 Plan approved on or after January 2005 – The attached PCSM Plan, in its entirety, is consistent with all requirements pertaining to rate, volume, and water quality from an Act 167 Stormwater Management Plan approved by DEP on or after January 2005.

OR

B. The PCSM Plan must satisfy one or both of the following requirements:

☐ PA Stormwater BMP Manual - The attached PCSM plan is consistent with water quality design features and BMPs as presented in the Pennsylvania Stormwater BMP Manual. CG 1 has been met.

☐ Other Design Standard – The attached PCSM plan was developed using partial compliance with the above standards or other standard. Demonstrate/explain in the space provided how this standard meets the criteria described in the PA Comprehensive Stormwater Management Policy Document 392-0300-002.

2. **SUMMARY TABLE FOR SUPPORTING CALCULATION AND MEASUREMENT DATA**
Please reference the Stormwater Methodology used (i.e. SCS Method) _____

	Pre-construction	Post Construction	Net Change
Design storm frequency _____ Rainfall amount _____ inches			
Impervious area (acres)	1	2	3
Volume of stormwater runoff ☐ acre-feet or ☐ cubic feet without planned stormwater BMPs (check appropriate box)	4	5	6
Volume of stormwater runoff ☐ acre-feet or ☐ cubic feet with planned stormwater BMPs (check appropriate box)		7	8
Stormwater peak discharge rate for the design frequency storm (cubic feet per second)	9	10	11

Box 1. **Pre-construction impervious area**: The total acres of impervious area on the project site before construction activities begin, based on land use for five years preceding the planned project.

Box 2. **Post construction impervious area**: The total acres of impervious area on the project site after construction activities have been completed.

Box 3. **Net change of impervious area**: The difference between the acres of impervious area listed in Box 1 and Box 2. Zero or negative values are acceptable.

Box 4. **Pre-construction stormwater runoff volume without planned BMPs**: The amount of stormwater runoff volume from the project site that would result from the design storm occurrence before construction activities begin, based on land use for five years preceding the project.

Box 5. **Post construction stormwater runoff volume without planned BMPs**: The amount of stormwater runoff volume from the project site that would result from the design storm occurrence after construction activities have finished assuming that no stormwater infiltration or retention BMPs have been installed.

Box 6. **Net change in stormwater volume without planned BMPs**: The difference between the amounts of stormwater runoff volume listed in Box 4 and Box 5.

Box 7. **Post construction stormwater runoff volume with planned BMPs**: The amount of stormwater runoff volume from the project site that would result from the design storm occurrence after construction activities have finished and the planned stormwater infiltration or retention BMPs have been installed.

Box 8. **Net change in stormwater runoff volume with planned BMPs**: The difference between the amounts of stormwater runoff volume listed in Box 4 and Box 7.

Box 9. **Pre-construction stormwater discharge rate**: The stormwater runoff discharge rate for the design frequency storm as determined by the land use for the past five years.

Box 10. **Post construction stormwater discharge rate**: The stormwater runoff discharge rate for the design frequency storm event after all planned stormwater BMPs are installed.

Box 11. **Net change stormwater discharge rate**: The difference between the stormwater runoff discharge rates listed in Box 9 and Box 10.

3. **SUMMARY DESCRIPTION OF POST CONSTRUCTION STORMWATER BMPs (consistent with Worksheets 3 and 5 referenced in the Pa. Stormwater BMP Manual)**

Key: **RC = Rate Control** **VC = Volume Control** **WQ = Water Quality**

In the lists below, check the BMPs identified in the PCSM Plan, and their function(s) using the above Key. More than one function may be checked for a BMP. List the stormwater volume and area of runoff to be treated by each BMP type. If any BMP in the PCSM Plan is not listed below, describe it in the space provided after "Other".

BMP	Function(s)	Volume of stormwater treated	Acres treated
☐ Wet ponds	☐ VC ☐ RC ☐ WQ		
☐ Constructed wetlands	☐ VC ☐ RC ☐ WQ		
☐ Retention basins	☐ VC ☐ RC ☐ WQ		
☐ Detention basin	☐ VC ☐ RC ☐ WQ		
☐ Underground detention	☐ VC ☐ RC ☐ WQ		
☐ Dry Extended detention basin	☐ VC ☐ RC ☐ WQ		
☐ Sediment fore bay	☐ VC ☐ RC ☐ WQ		
☐ Infiltration trench	☐ VC ☐ RC ☐ WQ		
☐ Infiltration Berm/Retentive Grading	☐ VC ☐ RC ☐ WQ		
☐ Subsurface Infiltration bed	☐ VC ☐ RC ☐ WQ		
☐ Infiltration basin	☐ VC ☐ RC ☐ WQ		
☐ Pervious pavement	☐ VC ☐ RC ☐ WQ		
☐ Dry well/Seepage pit	☐ VC ☐ RC ☐ WQ		
☐ Bio-infiltration areas	☐ VC ☐ RC ☐ WQ		
☐ Rain gardens/Bio-retention	☐ VC ☐ RC ☐ WQ		
☐ Vegetated swales	☐ VC ☐ RC ☐ WQ		
☐ Constructed filters	☐ VC ☐ RC ☐ WQ		
☐ Protect Sensitive & Special Value Features	☐ VC ☐ RC ☐ WQ		
☐ Protect/Conserve/Enhance Riparian areas	☐ VC ☐ RC ☐ WQ		
☐ Restoration: Buffers/ Landscape/Floodplain	☐ VC ☐ RC ☐ WQ		
☐ Disconnection from storm sewers	☐ VC ☐ RC ☐ WQ		
☐ Rooftop disconnection	☐ VC ☐ RC ☐ WQ		
☐ Vegetated roofs	☐ VC ☐ RC ☐ WQ		
☐ Runoff capture/Reuse	☐ VC ☐ RC ☐ WQ		
☐ Oil/grit separators	☐ WQ		
☐ Water quality inserts/inlets	☐ WQ		
☐ Street sweeping	☐ WQ		
☐ Other _____	☐ VC ☐ RC ☐ WQ		
☐ Other _____	☐ VC ☐ RC ☐ WQ		

4. **OFF SITE DISCHARGE ANALYSIS**

Does the project propose any off-site discharges to areas other than surface waters? ☐ **Yes** ☐ **No**

If yes, describe the type of easement that provides the legal authority for this discharge and a demonstration that the discharge will not cause erosion, damage, or a nuisance to off-site properties.

5. **THERMAL IMPACTS ANALYSIS**

Please explain how thermal impacts associated with this project were avoided.

If thermal impacts cannot be avoided, describe how impacts were minimized and the BMPs that will mitigate such impacts in a manner that will protect and maintain water quality in receiving surface waters in accordance with 25 Pa. Code Chapter 93.

SECTION D. ANTIDEGRADATION ANALYSIS MODULE

This Section is to be completed for Special Protection Watershed Only. (HQ/EV and EV Wetlands)

PART 1 NON-DISCHARGE ALTERNATIVES EVALUATION

The applicant must consider and describe any and all non-discharge alternatives for the entire project area which are environmentally sound and will:

- **Minimize accelerated erosion and sedimentation during the earth disturbance activity**
- **Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality**

E & S Plan	Official Use Only	PCSM Plan	Official Use Only
Check off the environmentally sound non-discharge Best Management Practices (BMPs) listed below to be used prior to, during, and after earth disturbance activities that have been incorporated into your E & S Plan based on your site analysis. For BMPs not checked, provide an explanation of why they were not utilized. (attach additional sheets if necessary)		Check off the environmentally sound non-discharge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into your PCSM Plan based on your site analysis. For BMPs not checked, provide an explanation of why they were not utilized. (attach additional sheets if necessary)	
Non-discharge BMPs ☐ Alternative Siting ☐ Alternative location ☐ Alternative configuration ☐ Alternative location of discharge ☐ Limited Disturbed Area ☐ Limiting Extent & Duration of Disturbance (Phasing, Sequencing) ☐ Vegetated Riparian Buffers (100 ft min) ☐ Other _____		**Non-discharge BMPs** ☐ Alternative Siting ☐ Alternative location ☐ Alternative configuration ☐ Alternative location of discharge ☐ Low Impact Development (LID / BSD) ☐ Vegetated Riparian Buffers (100 ft min) ☐ Infiltration ☐ Water Reuse ☐ Other _____	

Part 2 Antidegradation Best Available Combination of Technologies (ABACT)

If the net change in stormwater discharge from or after construction is not fully managed by non-discharge BMPs, the applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will occur during construction, post-construction or both, and identify the technologies that will be used to ensure that the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to:

E & S Plan	Official Use Only	PCSM Plan	Official Use Only
☐ **Treatment BMPs:** ☐ Sediment basin with skimmer ☐ Sediment basin ratio of 4:1 or greater (flow length to basin width) ☐ Sediment basin with 4-7 day detention ☐ Flocculants ☐ **Land disposal:** ☐ Vegetated filters ☐ Vegetated Riparian buffers <100ft. ☐ Immediate stabilization ☐ **Pollution prevention:** ☐ PPC Plans ☐ Street sweeping ☐ Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials ☐ **Stormwater reuse technologies:** ☐ Sediment basin water for dust control ☐ Sediment basin water for irrigation ☐ **Other** _____		☐ **Treatment BMPs:** ☐ Infiltration Practices ☐ Wet ponds ☐ Created wetland treatment systems ☐ Vegetated swales ☐ Manufactured devices ☐ Bio-retention/infiltration ☐ Green Roofs ☐ **Land disposal:** ☐ Vegetated filters ☐ Vegetated Riparian Buffers <100ft. ☐ Disconnection of roof drainage ☐ Bio-retention/bio-infiltration ☐ **Pollution prevention:** ☐ Street sweeping ☐ Nutrient, pesticide, herbicide or other chemical application plan alternatives ☐ PPC Plans ☐ Non-structural Practices ☐ Land Preservation ☐ Restoration BMPs ☐ **Stormwater reuse technologies:** ☐ Cisterns ☐ Rain barrels ☐ Dry hydrant with underground storage ☐ Spray/Drip Irrigation ☐ **Other** _____	
Are the ABACT BMPs selected sufficient to minimize E & S discharges to the extent that existing or designated surface water uses are protected? ☐ Yes ☐ No. If no, and the project is located in a HQ water, proceed to Part 3.		Are the ABACT BMPs selected sufficient to achieve no net change to the extent that existing or designated surface water uses are protected? ☐ Yes ☐ No. If no, and the project is located in a HQ water, proceed to Part 3.	

Part 3 Social or Economic Justification (SEJ) (for projects in high quality waters only)

If the applicant cannot demonstrate that the net change in discharge will protect the existing quality of the receiving surface waters, for projects in HQ waters, the applicant may pursue the SEJ process for demonstrating that lowering water quality is necessary to accommodate important economic or social development in the area in which the waters are located, in accordance with Chapter 10 of the Water Quality Antidegradation Implementation Guidance Manual, DEP Document ID No. 391-0300-002.

SECTION E. CONSULTANT FOR THIS PROJECT

Last Name	First Name	MI

Title	Consulting Firm	

Mailing Address

City	State	ZIP+4

Email

Phone Ext

FAX

SECTION F. COMPLIANCE HISTORY REVIEW

Is/was the applicant(s) in violation of any permits issued by DEP or any regulated activities within the past five years?

☐ Yes ☐ No

If yes, list each permit or project that is/was in violation and provide compliance status of the activity (use additional sheets to provide information on all permits).

Permit Program or Activity: Permit Number (if applicable):

Brief description of non-compliance:

Steps taken to achieve compliance	Date(s) Compliance Achieved

Current Compliance Status: ☐ In-Compliance ☐ In Non-Compliance

If the applicant is not in compliance with any permit requirement of DEP Regulations or regulated activity, provide a narrative description of how the applicant will achieve compliance with the permit requirement or activity, including the schedule for achieving compliance with appropriate milestones.

SECTION G. PERMIT COORDINATION

Does the applicant (owner and/or operator) have, have pending, or require any other environmental permits for this project and any additional planning requirements?

☐ Yes ☐ No If yes, list each permit or approval, permit number, and description.

Coordination Questions

1. Does the project involve any of the following: Placement of fill, excavation within or a placement of a structure located in, along, across, or projecting into a water course, floodway or body of water (including wetlands)?

   ☐ Yes ☐ No If yes, identify which authorization under Chapter 105 is applicable.

   ☐ Joint Permit ☐ General Permit ☐ Waiver

2. What is your 537 Plan status? Please note that 537 Plan approval is required prior to permit issuance.

3. Is your project associated with a Brownfield's Remediation? ☐ Yes ☐ No If yes, please indicate any coordination to date with the Environmental Cleanup Program (Act 2 or Superfund).

4. Are there any additional permits or approvals that may be required for this project? ☐ Yes ☐ No If yes, please list them.

SECTION H. CERTIFICATION

Applicant Certification

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision by qualified personnel to properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the NPDES permit, and that BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations pursuant to Section 309(c)(4) of the Clean Water Act and, 18 Pa. C.S. §§4903-4904.

Applicant	**Co-Applicant (if applicable)**
_____	_____
Print Name and Title of Person Signing	Print Name and Title of Person Signing
(____) _____	(____) _____
Telephone Number of Person Signing	Telephone Number of Person Signing
_____	_____
Signature of Applicant	Signature of Co-Applicant
_____	_____
Date Signed	Date Signed

Please note below the name, address and telephone number of the individual that should be contacted in the event additional information is required.

Name: _____

Address: _____

Telephone: (____) _____ FAX: (____) _____

Notarization:

Commonwealth of Pennsylvania

County of _____

Sworn to and Subscribed to Before Me This

_____ Day of _____, 20_____

NOTARY

SEAL

_____

Notary Public

My Commission Expires: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

APPLICATION CHECKLIST
GENERAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

Please check the following list to make sure that you have included all the required information. Place a check mark in the column provided for all items completed and/or provided. Failure to provide all of the requested information will delay the processing of the application and may result in the application being placed ON HOLD with NO ACTION, or being considered withdrawn and the application file closed.

THIS CHECKLIST MUST BE COMPLETED AND ENCLOSED WITH YOUR GENERAL PERMIT APPLICATION FORM

	✓CHECKLIST FOR NEW GENERAL NPDES PERMIT APPLICATION			Applicant Check √ If Included	Official Use Only
1.	Fully completed, properly signed and notarized Notice of Intent Form (1 original and 2 copies).			☐	☐
2.	Complete Erosion and Sediment Control Plans. (3 copies) Location: Drawings (D), Narrative (N).			☐	☐
	a. Written Narrative *(Must be labeled "E&S Plan" or "Erosion & Sediment Control Plan", be complete & legible, and be the final plan for construction)* Written Narrative Includes the following:	Location **N**	Page _____	☐	☐
	i. 8.5" X 11" USGS map with outline of project area	Location **N**	Page _____	☐	☐
	ii. Soils information (including hydric soils) Types, depth, slope and locations of soils	Location **N**	Page _____	☐	☐
	iii. Physical characteristics and limitations of soils	Location **N**	Page _____	☐	☐
	iv. Supporting calculations to show anticipated peak flows for the design storms	Location **N**	Page _____	☐	☐
	v. Analysis of the impact that runoff from the project site will have on existing downstream watercourses resistance to erosion	Location **N**	Page _____	☐	☐
	vi. Provide supporting calculations, standard worksheet, and narrative description of the location for all proposed E&S Control BMPs used before, during and after earth disturbance including but not limited to the following:				
	A. Channels	Location **N**	Page _____	☐	☐
	B. Sediment Basins	Location **N**	Page _____	☐	☐
	C. Sediment Traps	Location **N**	Page _____	☐	☐
	D. Filter Fabric Fencing	Location **N**	Page _____	☐	☐
	E. Outlet Protection	Location **N**	Page _____	☐	☐
	G. Other BMPs (Specify) _____	Location **N**	Page _____	☐	☐

				Applicant Check √ If Included	Official Use Only
	H. Other BMPs (Specify) _____	Location **N**	Page _____	☐	☐
b.	Plan Drawings *(Must be labeled "E&S Plan" or "Erosion & Sediment Control Plan", be complete & legible, and be the final plan for construction)* Drawings include the following:	Location **D**	Page _____	☐	☐
	i. Legend for any symbols that may be used on the drawing	Location **D**	Page _____	☐	☐
	ii. Topographic Features including existing contours, improvements, streams, wetlands, watercourses, etc. and sufficient surrounding area	Location **D**	Page _____	☐	☐
	iii. Soil types and locations	Location **D**	Page _____	☐	☐
	iv. Construction techniques or special considerations to address soil limitations	Location **D**	Page _____	☐	☐
	v. Limits of project area, NPDES boundary	Location **D**	Page _____	☐	☐
	vi. Limits of earth disturbance	Location **D**	Page _____	☐	☐
	vii. Proposed alteration including proposed contours and proposed improvements	Location **D**	Page _____	☐	☐
	viii. Maximum during construction drainage areas to hydraulic BMPs	Location **D**	Page _____	☐	☐
	ix. Location of water which may receive runoff and receiving water classification pursuant to Chapter 93 and the "statewide existing use listing"	Location **D**	Page _____	☐	☐
	x. Standard Construction Details for all proposed E&S Control BMPs used before, during and after earth disturbance	Location **D**	Page _____	☐	☐
	xi. Location of BMPs showing final contours are identified	Location **D**	Page _____	☐	☐
	xii. Complete and site specific sequence of BMP installation and removal including activities planned to limit exposed areas	Location **D**	Page _____	☐	☐
	xiii. Procedures or Note requiring the proper recycling or disposal of waste materials associated with the project site	Location **D**	Page _____	☐	☐
	xiv. Maintenance Program including inspection schedule, sediment cleanout levels, repair parameters and time frames, and directions for sediment removal	Location **D**	Page _____	☐	☐
	xv. Note explaining responsibilities for fill materials including definition of environmental due diligence and clean fill	Location **D**	Page _____	☐	☐

Checklist

				Applicant Check √ If Included	Official Use Only
3.	Permit filing fee of $250 payable to the appropriate Clean Water Fund.			☐	☐
4.	Notifications to the local municipality and county governments that specify Acts 67 and 68 Coordination, and that the application is for a general NPDES stormwater permit authorizing the discharge of stormwater during construction activities. (3 copies) A "sample" notification letter is provided on page 8 of the instructions.			☐	☐
5.	Proof of receipt of municipal notifications; copies of certified mail receipts or acknowledgment letters from the local municipality and county government. (3 copies)			☐	☐
6.	The PNDI Review receipt for the project area. Include impact clearance letters if proof of agency coordination is required. (3 copies)			☐	☐
7.	Complete Post Construction Stormwater Management Plan. (3 copies) Location: Drawings (D), Narrative (N).			☐	☐
	a. Written Narrative *(Must be separate from E&S Plan and labeled "PCSM" or Post-Construction Stormwater Management"" and be the final plan for construction)* Written Narrative Includes the following:	Location **N**	Page _____	☐	☐
	i. Site Description & Analysis	Location **N**	Page _____	☐	☐
	ii. Soil types and descriptions (including hydric soils)	Location **N**	Page _____	☐	☐
	iii. Pre-development and post-development drainage area runoff calculations for each drainage area	Location **N**	Page _____	☐	☐
	iv. Routing Analysis to demonstrate peak control for the 1-year through 100-year storm events *(Routing should consider the benefits of BMPs)*	Location **N**	Page _____	☐	☐
	v. Calculations for permanent stormwater BMPs *(including volume of water treated through BMPs)*	Location **N**	Page _____	☐	☐
	vi. Curve Numbers and/or land use coefficients	Location **N**	Page _____	☐	☐
	vii. Infiltration/Geotechnical report and soil infiltration test pit results	Location **N**	Page _____	☐	☐

				Applicant Check √ If Included	Official Use Only
	b. Additional Worksheets **Note: Required Worksheets 1 through 5 are attached after Appendix B. Complete the following worksheets as applicable.**				
	i. Worksheet 6 – Small Site/Small Impervious Area Exception for peak rate Mitigation Calculations ***(If worksheet 6 is not applicable, rate control is required)***	Location **N**	Page _____	☐	☐
	ii. Worksheet 10 – Water Quality Compliance for Nitrate ***(Required if using CG 1)***	Location **N**	Page _____	☐	☐
	iii. Worksheet 11 – BMPs for Pollution Prevention ***(Required if not using CG1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐
	iv. Worksheet 12 – Water Quality Analysis of Pollutant Loading from all Disturbed Areas ***(Required if not using CG1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐
	v. Worksheet 13 – Pollutant Reduction Through BMP Applications ***(Required if not using CG 1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐
	c. Plans/Drawings *(Must be a stand alone separate plan from the E&S Plan and labeled "PCSM" or Post-Construction Stormwater Management"" and be the final plan for construction)*	Location **D**	Page _____	☐	☐
	i. Construction Details for permanent stormwater BMPs including permanent stabilization	Location **D**	Page _____	☐	☐
	ii. Location of BMPs showing final contours are identified	Location **D**	Page _____	☐	☐
	iii. Location of soil types are identified (including hydric soils)	Location **D**	Page _____	☐	☐
	iv. Location and depths of test pits / infiltration testing sites are identified	Location **D**	Page _____	☐	☐
	d. Ownership, Operations, and Maintenance Procedures *(Must be included on drawings)*	Location **D**	Page _____	☐	☐
	i. Applicant or entity (association, company, agency, etc.) listed as responsible party	Location **D**	Page _____	☐	☐

8.	Consistency letter from Municipal or County Engineer (where applicable)			☐	☐
9.	Appendix B Land Use Questions			☐	☐
10.	Complete Required Worksheets 1 – 5 (see worksheets **at the end of** the NPDES Individual Permit Application Checklist)			☐	☐
11.	Checklist for Subsequent Phases (of permitted projects)				
	a Estimated time frame for phased project build-out (update as necessary)			☐	☐
	b Complete E & S Plans for specific phase (3 copies)			☐	☐
	c New Section C and complete PCSM Plan for specific phase (3 copies)			☐	☐
	d Consistency letter from municipal or county engineer (where applicable)			☐	☐
	CHECKLIST FOR GENERAL NPDES PERMIT RENEWALS ONLY			**Applicant Check √ If Included**	**Official Use Only**
1.	Administratively complete, signed, and notarized Notice of Intent Form, including items 1-7. (1 signed original and 2 copies of the NOI/application)			☐	☐

APPLICATION CHECKLIST

NPDES INDIVIDUAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES

Please check the following list to make sure that you have included all the required information. Place a check mark in the column provided for all items completed and/or provided. Failure to provide all of the requested information will delay the processing of the application and may result in the application being placed ON HOLD with NO ACTION, or being considered withdrawn and the application file closed.

THIS CHECKLIST MUST BE COMPLETED AND ENCLOSED WITH YOUR INDIVIDUAL PERMIT APPLICATION FORM

	CHECKLIST FOR NEW INDIVIDUAL NPDES STORMWATER PERMIT APPLICATION			Applicant Check √ If Included	Official Use Only
1.	Fully completed, properly signed and notarized Individual Permit Application (1 original and 2 copies).			☐	☐
2.	Fully completed General Information Form (GIF) (1 original and 2 copies)			☐	☐
3.	Complete Erosion and Sediment Control Plan (3 copies) Location: Drawings (D), Narrative (N).			☐	☐
	a. Written Narrative *(Must be labeled "E&S Plan" or "Erosion & Sediment Control Plan", be complete & legible, and be the final plan for construction)* Written Narrative Includes the following:	Location **N**	Page _____	☐	☐
	i. 8.5" X 11" USGS map with outline of project area	Location **N**	Page _____	☐	☐
	ii. Soils information (including hydric soils) Types, depth, slope and locations of soils	Location **N**	Page _____	☐	☐
	iii. Physical characteristics and limitations of soils	Location **N**	Page _____	☐	☐
	iv. Supporting calculations to show anticipated peak flows for the design storms	Location **N**	Page _____	☐	☐
	v. Analysis of the impact that runoff from the project site will have on existing downstream watercourses resistance to erosion	Location **N**	Page _____	☐	☐
	vi. Provide supporting calculations, standard worksheets, and description of the location for all proposed E&S Control BMPs used before, during and after earth disturbance including but not limited to the following:				
	A. Channels	Location **N**	Page _____	☐	☐
	B. Sediment Basins	Location **N**	Page _____	☐	☐
	C. Sediment Traps	Location **N**	Page _____	☐	☐
	D. Filter Fabric Fencing	Location **N**	Page _____	☐	☐
	E. Outlet Protection	Location **N**	Page _____	☐	☐
	G. Other BMPs (Specify) _____	Location **N**	Page _____	☐	☐
	H. Other BMPs (Specify) _____	Location **N**	Page _____	☐	☐

				Applicant Check √ If Included	Official Use Only
	b. Plan Drawings *(Must be labeled "E&S Plan" or "Erosion & Sediment Control Plan", be complete & legible, and be the final plan for construction)* Drawings include the following:	Location **D**	Page _____	☐	☐
	i. Legend for any symbols that may be used on the drawing	Location **D**	Page _____	☐	☐
	ii. Topographic Features including existing contours, improvements, streams, wetlands, watercourses, etc. and sufficient surrounding area	Location **D**	Page _____	☐	☐
	iii. Soil types and locations	Location **D**	Page _____	☐	☐
	iv. Construction techniques or special considerations to address soil limitations	Location **D**	Page _____	☐	☐
	v. Limits of project area, NPDES boundary	Location **D**	Page _____	☐	☐
	vi. Limits of earth disturbance	Location **D**	Page _____	☐	☐
	vii. Proposed alteration including proposed contours and proposed improvements	Location **D**	Page _____	☐	☐
	viii. Maximum during construction drainage areas to hydraulic BMPs	Location **D**	Page _____	☐	☐
	ix. Location of water which may receive runoff and receiving water classification pursuant to Chapter 93 and the "statewide existing use listing"	Location **D**	Page _____	☐	☐
	x. Standard Construction Details for all proposed E&S Control BMPs used before, during and after earth disturbance	Location **D**	Page _____	☐	☐
	xi. Location of BMPs showing final contours are identified	Location **D**	Page _____	☐	☐
	xii. Complete and site specific sequence of BMP installation and removal including activities planned to limit exposed areas	Location **D**	Page _____	☐	☐
	xiii. Procedures or Note requiring the proper recycling or disposal of waste materials associated with the project site	Location **D**	Page _____	☐	☐
	xiv. Maintenance Program including inspection schedule, sediment cleanout levels, repair parameters and time frames, and directions for sediment removal	Location **D**	Page _____	☐	☐
	xv. Note explaining responsibilities for fill materials including definition of environmental due diligence and clean fill	Location **D**	Page _____	☐	☐
4.	Permit filing fee of $500 payable to the appropriate Clean Water Fund.			☐	☐
5.	Notifications to the local municipality and county governments that specify Acts 67 and 68 Coordination, and that the application is for an individual NPDES stormwater permit authorizing the discharge of stormwater during construction activities. (3 copies) A "sample" notification letter is provided on page 8 of the instructions.			☐	☐

				Applicant Check √ If Included	Official Use Only
6.	Proof of receipt of municipal notifications; copies of certified mail receipts or acknowledgment letters from the local municipality and county government. (3 copies)			☐	☐
7.	Copy of Cultural Resource Notice including PHMC reply or certified mail receipt (for projects disturbing ten acres or more). (3 copies)			☐	☐
8.	The PNDI Review receipt for the project area. Include impact clearance letters if proof of agency coordination is required. (3 copies)			☐	☐
9.	Complete Post Construction Stormwater Management Plan. (3 copies) Location: Drawings (D), Narrative (N).			☐	☐
	a. Written Narrative *(Must be a stand alone, separate plan from the E&S Plan and labeled "PCSM" or Post-Construction Stormwater Management"" and be the final plan for construction)* Written Narrative Includes the following:	Location **N**	Page _____	☐	☐
	i. Site Description & Analysis	Location **N**	Page _____	☐	☐
	ii. Soil types and descriptions (including hydric soils)	Location **N**	Page _____	☐	☐
	iii. Pre-development and post-development drainage area runoff calculations for each drainage area	Location **N**	Page _____	☐	☐
	iv. Routing Analysis to demonstrate peak control for the 1-year through 100-year storm events *(Routing should consider the benefits of BMPs)*	Location **N**	Page _____	☐	☐
	v. Calculations for permanent stormwater BMPs *(including volume of water treated through BMPs)*	Location **N**	Page _____	☐	☐
	vi. Curve Numbers and/or land use coefficients	Location **N**	Page _____	☐	☐
	vii. Infiltration/Geotechnical report and soil infiltration test pit results	Location **N**	Page _____	☐	☐
	b. Additional Worksheets **Note:** Required Worksheets 1 through 5 are attached after Appendix B. Complete and attach the following worksheets where applicable	Location **N**	Page _____	☐	☐
	i. Worksheet 6 – Small Site/Small Impervious Area Exception for peak rate Mitigation Calculations ***(If worksheet 6 is not applicable, rate control is required)***	Location **N**	Page _____	☐	☐
	ii. Worksheet 10 – Water Quality Compliance for Nitrate ***(Required if using CG 1)***	Location **N**	Page _____	☐	☐
	iii. Worksheet 11 – BMPs for Pollution Prevention ***(Required if not using CG1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐

				Applicant Check √ If Included	Official Use Only
	iv. Worksheet 12 – Water Quality Analysis of Pollutant Loading from all Disturbed Areas ***(Required if not using CG1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐
	v. Worksheet 13 – Pollutant Reduction Through BMP Applications ***(Required if not using CG 1 or if applicant is not meeting Nitrate requirements)***	Location **N**	Page _____	☐	☐
	c. Plans/Drawings *(Must be separate from E&S Plan and labeled "PCSM" or Post-Construction Stormwater Management"" and be the final plan for construction)*	Location **D**	Page _____	☐	☐
	i. Standard Details for permanent stormwater BMPs including permanent stabilization	Location **D**	Page _____	☐	☐
	ii. Location of BMPs showing final contours are identified	Location **D**	Page _____	☐	☐
	iii. Location of soil types are identified (including hydric soils)	Location **D**	Page _____	☐	☐
	iv. Location and depths of test pits/infiltration testing sites are identified	Location **D**	Page _____	☐	☐
	d. Ownership, Operations, and Maintenance Procedures *(Must be included on drawings)*	Location **D**	Page _____	☐	☐
	i. Applicant or entity (association, company, agency, etc.) listed as responsible party	Location **D**	Page _____	☐	☐
10.	Consistency letter from Municipal or County Engineer (where applicable)			☐	☐
11	Appendix B Land Use Questions			☐	☐
12	Completed Required Worksheets 1 – 5 (see worksheets at the end of this checklist)			☐	☐
13	Checklist for Subsequent Phases (of permitted projects)				
	a Estimated time frame for phased project build-out (update as necessary)			☐	☐
	b Complete E & S Plans for specific phase (3 copies)			☐	☐
	c New Section C and complete PCSM Plan for specific phase (3 copies)			☐	☐
	d Consistency letter from municipal or county engineer (were applicable)			☐	☐
	CHECKLIST FOR INDIVIDUAL NPDES PERMIT RENEWALS ONLY			**Applicant Check √ If Included**	**Official Use Only**
1.	Resubmit items 1 through 6, 9 and 10. Note: Only one copy of the Erosion and Sediment Control Plan and Post Construction Stormwater Management Plan is required.			☐	☐

APPENDIX A

This letter is provided as an example only. Applicants may draft their own letter of notification. This letter must be modified to meet the specific requirements of the project if the applicant chooses to use the following text.

SAMPLE NOTICE LETTER TO MUNICIPALITY AND COUNTY

date: _____

Dear (Municipal Secretary): or
Dear (County Commissioners):

This municipal notice is to inform you that (I am/we are) are applying for a (General/Individual) NPDES Permit for Stormwater Discharges Associated with Construction Activities from the Pennsylvania Department of Environmental Protection (DEP):

Applicant Contact: _____

Project Location: _____

Project Description: _____

_____

Acts 67, 68 and 127 of 2000 amended the Municipalities Planning Code (MPC) and directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

Enclosed is a complete copy of the permit application form completed by the applicant for this project. Also enclosed is an attached sheet containing answers to the Land Use Information questions found in the DEP General Information Form (GIF). This list of questions and answers is being provided in lieu of a completed GIF. (*This is an optional sentence since the applicant may choose to provide a complete GIF form instead.*) DEP invites you to review the attached application and comment on the accuracy of answers provided with regard to land use aspects of this project; please be specific to DEP and focus on the relationship to zoning ordinances. If you wish to submit comments to DEP to become part of a land use review of this project, you must respond within 30 days to the DEP regional office and appropriate conservation district. If there are no land use comments received by the end of the comment period, DEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

For more information about this land use review process, visit DEP's Web site at www.depweb.state.pa.us, Keyword: "Land Use Reviews."

Sincerely,

Enclosures

APPENDIX B

Land Use Information Questions

1.	Is there a municipal comprehensive plan(s)?	☐ Yes	☐ No
2.	Is there a county comprehensive plan(s)?	☐ Yes	☐ No
3.	Is there a multi-municipal or multi-county comprehensive plan(s)?	☐ Yes	☐ No
4.	Is the proposed project plan consistent with these plan(s)? *If no plan exists, answer "Yes"*.	☐ Yes	☐ No
5.	Is there a municipal zoning ordinance(s)?	☐ Yes	☐ No
6.	Is there a joint municipal zoning ordinance(s)?	☐ Yes	☐ No
7.	Will the proposed project require zoning approval (e.g., special exception, conditional approval, re-zoning, variance)? *If zoning approval has already been received, attach the appropriate documentation.*	☐ Yes	☐ No
8.	Are any zoning ordinances that are applicable to this project currently the subject of any type of legal proceeding?	☐ Yes	☐ No
9.	Will the project be located on a site that has been or is being remediated under DEP's Land Recycling Program?	☐ Yes	☐ No
10.	Will the project result in reclamation of abandoned mine lands through re-mining or as part of DEP's Reclaim PA Program?	☐ Yes	☐ No
11.	Will the project be located in an agricultural security area or an area protected under an agricultural conservation easement?	☐ Yes	☐ No
12.	Will the project be located in a Keystone Opportunity Zone or Enterprise Development Area?	☐ Yes	☐ No
13.	Will the project be located in a Designated Growth Area as defined by the Municipalities Planning Code?	☐ Yes	☐ No

Worksheet 1. General Site Information

INSTRUCTIONS: Fill out Worksheet 1 for each watershed

Date:

Project Name:

Municipality:

County:

Total Area (acres):

Major River Basin:

http://www.dep.state.pa.us/river/Maps/PAbasins.htm

Watershed:

Sub-Basin:

Nearest Surface Water(s) to Receive Runoff:

Chapter 93 – Designated Water Use:

http://www.pacode.com/secure/data/025/chapter93/chap93toc.html

Impaired according to Chapter 303(d) List? Yes ☐ No ☐

http://www.depweb.state.pa.us/watersupply/cwp/view.asp?a=1261&q=480056

List Causes of Impairment:

Is project subject to, or part of:

Municipal Separate Storm Sewer System (MS4) Requirements? Yes ☐ No ☐
http://www.depweb.state.pa.us/watershedmgmt/cwp/view.asp?a=1437&q=519543&watershedmgmtNav=|

Existing or planned drinking water supply? Yes ☐ No ☐

If yes, distance from proposed discharge (miles):

Approved Act 167 Plan? Yes ☐ No ☐
http://www.depweb.state.pa.us/watershedmgmt/cwp/view.asp?a=1437&q=519879

Existing River Conservation Plan? Yes ☐ No ☐

http://www.dcnr.state.pa.us/brc/rivers/riversconservation/registry/

Worksheet 2. Sensitive Natural Resources

INSTRUCTIONS

1. Provide Sensitive Resources Map according to non-structural BMP 5.4.1 in Chapter 5. This map should identify wetlands, woodlands, natural drainage ways, steep slopes, and other sensitive natural areas.

2. Summarize the existing extent of each sensitive resource in the Existing Sensitive Resources Table (below, using Acres). If none present, insert 0.

3. Summarize Total Protected Area as defined under BMPs in Chapter 5.

4. Do not count any area twice. For example, an area that is both a floodplain and a wetland may only be considered once.

EXISTING NATURAL SENSITIVE RESOURCE	MAPPED? Yes/no/n/a	TOTAL AREA (Ac.)	PROTECTED AREA (Ac.)
Waterbodies			
Floodplains			
Riparian Areas			
Wetlands			
Woodlands			
Natural Drainage Ways			
Steep Slopes, 15% - 25%			
Steep Slopes, over 25%			
Other:			
Other:			
TOTAL EXISTING:			

Worksheet 3. Nonstructural BMP Credits

PROTECTED AREA

1.1 Area of Protected Sensitive/Special Value Features (see WS 2) _____ **Ac.**

1.2 Area of Riparian Forest Buffer Protection _____ **Ac.**

3.1 Area of Minimum Disturbance/Reduced Grading _____ **Ac**

TOTAL _____ **Ac**

Site Area	Minus	Protected Area	=	Stormwater Management Area
	-		=	

This is the area that requires stormwater management

VOLUME CREDITS

3.1 Minimum Soil Compaction

Lawn _____ ft^2 x 1/4" x 1/12 = _____ ft^3

_____

Meadow _____ ft^2 x 1/3" x 1/12 = _____ ft^3

3.3 Protect Existing Trees

For Trees within 100 feet of impervious area:

Tree Canopy _____ ft^2 x 1/2" x 1/12 = _____ ft^3

_____ _____

5.1 Disconnect Roof Leaders to Vegetated Areas

For runoff directed to areas protected under 5.8.1 and 5.8.2

Roof Area _____ ft^2 x 1/3" x 1/12 = _____ ft^3

For all other disconnected roof areas

Roof Area _____ ft^2 x 1/4" x 1/12 = _____ ft^3

5.2 Disconnect Non-Roof impervious to Vegetated Areas

For Runoff directed to areas protected under 5.8.1 and 5.8.2

Impervious Area _____ ft^2 x 1/3" x 1/12 = _____ ft^3

For all other disconnected roof areas

Impervious Area _____ ft^2 x 1/4" x 1/12 = _____ ft^3

TOTAL NON-STRUCTURAL VOLUME CREDIT* _____ ft

**For use on Worksheet 5*

Worksheet 4. Change in Runoff Volume for 2-YR Storm Event

PROJECT: _____
Drainage Area: _____
2-Year Rainfall: _____ in

Total Site Area: _____ acres
Protected Site Area: _____ acres
Managed Area: _____ acres

Existing Conditions:

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	S	Ia (0.2*S)	Q Runoff[1] (in)	Runoff Volume[2] (ft^3)
Woodland								
Meadow								
Impervious								
TOTAL:								

Developed Conditions

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	S	Ia (0.2*S)	Q Runoff[1] (in)	Runoff Volume[2] (ft^3)
TOTAL:								

2-Year Volume Increase (ft3):

2-Year Volume Increase = Developed Conditions Runoff Volume – Existing Conditions Runoff Volume

1. Runoff (in) = $Q = (P-0.2S)^2 / (P+0.8S)$ where
   P = 2-Year Rainfall (in)
   S = (1000/ CN)-10
2. Runoff Volume (CF) = Q x Area x 1/12
   Q = Runoff (in)
   Area = Land use area (sq. ft)

Note: Runoff Volume must be calculated for EACH land use type/condition and HSGl.
The use of a weighted CN value for volume calculations is not acceptable.

Worksheet 5. Structural BMP Volume Credits

PROJECT: _____

SUB-BASIN: _____

Required Control Volume (ft^3) – *from Worksheet 4*: _____

Non-structural Volume Credit (ft^3) – *from Worksheet 3*: - _____

Structural Volume Reqmt (ft^3) _____

(Required Control Volume minus Non-structural Credit)

	Proposed BMP	Area (ft^2)	Storage Volume (ft^3)
6.4.1	Porous Pavement		
6.4.2	Infiltration Basin		
6.4.3	Infiltration Bed		
6.4.4	Infiltration Trench		
6.4.5	Rain Garden/Bioretention		
6.4.6	Dry Well / Seepage Pit		
6.4.7	Constructed Filter		
6.4.8	Vegetated Swale		
6.4.9	Vegetated Filter Strip		
6.4.10	Berm		
6.5.1	Vegetated Roof		
6.5.2	Capture and Re-use		
6.6.1	Constructed Wetlands		
6.6.2	Wet Pond / Retention Basin		
6.6.3	Dry Extended Detention Basin		
6.6.4	Water Quality Filters		
6.7.1	Riparian Buffer Restoration		
6.7.2	Landscape Restoration / Reforestation		
6.7.3	Soil Amendment		
6.8.1	Level Spreader		
6.8.2	Special Storage Areas		
Other			

Total Structural Volume (ft^3): _____

Structural Volume Requirement (ft^3): _____

DIFFERENCE _____