



United States Environmental Protection Agency

Stormwater Discharges from Developed Sites

Owner/Developer Long Questionnaire

Survey ID: _____

Please return the completed response no later than [\[date for returning questionnaire\]](#)

An Agency may not conduct or sponsor, and a person is not required to respond to, a collection of information, unless it displays a currently valid OMB control number.

The public reporting and recordkeeping burden for this collection of information is estimated to average 73 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed questionnaire to this address.

General Information

Purpose of the Questionnaire

Stormwater discharges from developed land can negatively impact water quality through increases in stormwater volume and increased pollutant loads to the receiving waters. To strengthen its stormwater regulations, EPA's Office of Water (OW) is considering revisions to the current National Pollutant Discharge Elimination System (NPDES) regulations including the establishment of standards for long term stormwater discharges from developed sites.

To collect data to inform decisions regarding how the nation's stormwater regulations should be strengthened and to support the technical and financial feasibility associated with this rulemaking, EPA is sending the following questionnaire to owners/developers of residential, non-residential, industrial, and commercial sites. This questionnaire will provide EPA with information to:

- Characterize current building and real estate improvement projects including type, location, and size;
- Characterize the prevalence and type of stormwater controls implemented at new development and redevelopment sites to control long term stormwater discharges. These controls include, but are not limited to, practices that retain or infiltrate stormwater onsite (commonly referred to as low impact development practices, or LID) and more traditional stormwater practices (such as ponds); and,
- Characterize the operations and financial condition of owners and developers that could be subject to revised regulations.

Authority

EPA has the authority to administer this questionnaire under section 308 of the Clean Water Act (Federal Water Pollution Control Act, 33 U.S.C. Section 1318). Participation in this questionnaire is mandatory, and you are required to respond. You must retain a copy of the completed questionnaire for your files. EPA may contact you with follow-up questions to clarify your answers. Late filing of the questionnaire, or failure to follow any related EPA instruction, may result in civil penalties, criminal fines, or other sanctions provided by law including the possibility of fines and imprisonment as explained in Section 308 of the Clean Water Act (33 U.S.C., Section 1318).

When to Complete the Questionnaire

The response to this questionnaire must be received by EPA no more than 60 calendar days after receiving it.

If you wish to request an extension, you must do so in writing no later than one week prior to the due date of this questionnaire. Written requests may be e-mailed to Ms. Jan Matuszko at matuszko.jan@epa.gov.

requests access to your data. Note also that information claimed confidential cannot be accessed or used by the industry to evaluate data and analyses supporting the regulations.

Information covered by a claim of confidentiality will be disclosed by EPA only to the extent of, and by means of, the procedures set forth in 40 CFR Part 2, Subpart B. In general, submitted information protected by a business confidentiality claim may be disclosed to other employees, officers, or authorized representatives of the United States concerned with implementing the Clean Water Act. The authorized representatives include employees of other executive branch agencies, who may review CBI during the course of reviewing draft regulations.

Information covered by a claim of confidentiality will be made available to EPA contractors to enable the contractors to perform the work required by their contracts with EPA. All EPA contracts provide that contractor employees use the information only for the purpose of performing the work required by their contracts and will not disclose any CBI to anyone other than EPA without prior written approval from each affected business or from EPA's legal office.

Detailed Instructions for Completing the Questionnaire

Complete the questionnaire considering the following instructions:

- Personnel most knowledgeable about the subject areas covered by a specific section should complete that section of the questionnaire.
- For all questions and sections, read all instructions and definitions carefully. Pay particular attention to the distinction between establishments and firms.
- Do not leave any entry blank. If the answer is zero, write "0" or "zero". If a question is not applicable, write "NA."
- Answer all of the questions in sequence unless you are directed to SKIP forward in the questionnaire. This is important since some questions and/or sections are only applicable to some respondents.
- Use the units specified when responding to questions requesting measurement data (e.g., acres). If not specified and applicable, include units in your response
- The period of interest for the survey is calendar years 2005-2009 unless indicated otherwise.
- Provide the requested information based on data you currently have. EPA is not requesting or recommending that respondents collect new data to provide information for this survey. However, you may need to contact other business establishments with which you were involved on individual projects, such as engineering or design firms, in order to answer some questions. Unless indicated otherwise, provide estimates if actual values are not available.

Certification Statement

The individual responsible for directing or supervising the preparation of the enclosed *Stormwater Discharges from Developed Sites Owner/Developer Long Questionnaire* must read and sign the Certification Statement below before returning both documents to the U.S. Environmental Protection Agency. The certifying official must be an official duly authorized representative. The Certification Statement must be completed and submitted in accordance with the requirements contained in the *Code of Federal Regulations* at 40. CFR 122.22.

I certify under penalty of law that the attached questionnaire was prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, accurate and complete. In those cases where we did not possess the requested information, we have provided best engineering and/or financial estimates or judgment. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment as explained in Section 308 of the Clean Water Act (33 U.S.C., Section 1318).

Signature of Certifying Official

Date

Printed Name of Certifying Official

() _____
Telephone Number

Title of Certifying Official

Glossary of Terms

Term	Definition
Bioretention	A stormwater management practice that consists of an excavated area that is filled with a mixture of soil and organic matter and that is planted with vegetation that is tolerant of inundation and saturated soil conditions. Bioretention includes rain gardens, sidewalk planters, curb extensions and other plant or soil systems designed to filter, infiltrate or evapotranspire stormwater.
Cistern	Large storage devices that are often built below ground, at ground level, or on rooftops, for storing captured stormwater and can be integrated with more sophisticated pumping devices. For example, some cisterns collect stormwater that is subsequently used for non-potable plumbing, such as flushing of toilets, or irrigation applications.
Commercial/Institutional	A project that includes structures designed for use by retail, wholesale, office, hotel, or other service-providing facilities/businesses, including Federal, State, and local government facilities.
Constructed Wetlands	A man-made basin that contains water, a substrate (soil, gravel, rock, organic materials, etc.), plants (vascular and non-vascular), and organisms similar to those usually found in natural wetlands. The number of plants and the biodiversity of a constructed wetland are greater than that of wet retention pond. Constructed wetlands usually use a relatively impermeable subsurface layer to prevent water from seeping into the ground.
Construction Phase	The project phase following land acquisition and land development. Construction of structure(s) occurs during this phase. Activities in this phase also include any legal or marketing activities required to bring the project to completion. Also commonly called vertical construction.
Detention Basin	Practice which hold stormwater temporarily and discharge the stormwater over an extended period of time (hours to days) generally by controlling the size of the discharge volume and flow rate.
Developer	A person, business, or partnership that controls project design and/or land development activities associated with a project. The developer may make improvements to land parcel(s) owned by the developer or on behalf of a separate owner-entity (e.g., the developer may be the land owner's agent).
Establishment	A single, permanent, physical office location where business is conducted and for which revenue, employment, and other records are kept.

Term	Definition
Final Project Value	The value of the project at the time of completion. This value could be the project's sales value or the recorded asset value of the project when has been completed.
Firm	A business organization or entity consisting of one or more domestic establishment locations under common ownership or control.
Green Roof	A vegetative system installed on top of and in addition to the traditional roof system. A green roof includes engineered soil layers (e.g., a waterproof membrane, drainage, high inorganic growing media), and appropriate plant species. Green roofs reduce surface runoff from the rooftop by absorbing stormwater and slowing stormwater flow rates, and provide ancillary benefits such as summer cooling, lowered urban heat island effect, and improved air quality.
Impervious Surface	Low-permeability material such as asphalt or concrete. Common impervious areas include, but are not limited to, roads, rooftops, walkways, patios, driveways, parking lots or storage areas, concrete or asphalt paving, or other surfaces which similarly impede the natural infiltration of storm water.
Industrial	A project that includes structures designed for industrial purposes including, producing, processing, or assembling goods (for example, manufacturing, agricultural, and mining structures).
Infiltration Basin	A shallow rock-filled trench or depression with no outlet intended to detain and then infiltrate stormwater into the underlying soil. Typically stormwater first passes through a swale or other stormwater control before reaching this device.
Land Acquisition	An initial project phase, preceding land development and construction. In this stage, financing is assembled to purchase raw, vacant, un-zoned land parcel(s). This phase may also include project design and planning elements using e.g., architectural services. For redevelopment projects the land has previously been developed and zoned. However, the property made need to be rezoned for a new purpose, and project will require designing and planning as well.
Land Development	The second project phase, following land acquisition and preceding construction. During this phase, raw land is converted into permitted, buildable lot(s) in a process that requires site approvals, hearings, etc. This process can take months to years. Costs incurred during this phase may include "soft" costs for architectural and engineering services, legal work, permits, fees, and testing; and "hard" costs, such as land clearing, installing utilities and roads, and preparing foundations or pads.

Term	Definition
Low Impact Development (LID)	Development that is designed to be hydrologically functional by mimicking pre-development hydrology or hydraulic conditions. This is achieved by using design techniques that infiltrate, filter, evaporate, and store runoff close to its source (e.g. bioretention, rain gardens, cisterns, green roofs).
Manufactured Device	Manufactured devices include a variety of proprietary and non-proprietary stormwater management practices that are available from various suppliers and vendors and are designed to remove pollutants through a combination of filtration, gravity separation, flotation and hydrodynamic processes. Examples include catch basin inserts, filtration units, vaults and separators.
Media Filter	Filters that stormwater passes through for removal of solids. Filters can be made out of sand, peat, foam, crushed glass, textile, or other suitable material.
Mixed Use Project	A project that is designed for more than one land use category (for example, Single-Family Housing and Multi-Family housing, Residential and Commercial, or Commercial and Industrial).
Multi-Family Residential	A project where multiple separate housing units for residential (i.e., non-commercial) inhabitants are contained within one building; also known as multi-dwelling unit. Does not include attached single-family homes, such as townhouses.
New Development	Development that occurs on land where generally no or minimal structures or other impervious surfaces, such as buildings, parking lots, and roads exist, including agricultural, forested, and open/barren land. These are commonly referred to as Greenfield sites.
Owner	The firm, individual, or institutions for which the project is being built. The owner may also act as the developer for a project, or may hire or partner with a separate developer.
Pervious Paving	Pavement composed of a permeable pavement material, which allows distributed infiltration into the underlying soil. There may also be an underlying stone reservoir that temporarily stores the surface runoff before it infiltrates into the underlying soil. Examples include; porous asphalt, permeable concrete, permeable block pavers.
Project	New development or redevelopment of buildings or other real estate improvements on a contiguous site, which may be undertaken by a single entity or an entity partnership/team. A project generally consists of three phases: land acquisition, land development, and construction. It is possible that each entity or partnership actively involved in a project might only control one or two of the project phases, while another entity or partnership may control the other project phase(s).
Remodel	Remodeling is alterations to the interior of a structure, and does not involve the installation of any new impervious surface.

Term	Definition
Redevelopment	Development of sites with existing structures or impervious surfaces. Redevelopment does not include projects that are solely remodeling or alterations to the interior of a structure.
Retention Basin	A retention basin, also called a wet pond, is an impoundment that is designed to maintain a permanent pool of stormwater between storm events. A retention basin differs from a detention basin, which is designed to empty between storm events and does not maintain a permanent pool.
Retention Practices	Stormwater techniques that manage stormwater on-site through infiltration, evapotranspiration or harvesting.
Single-Family Residential	A project in which housing units are designed and maintained for occupancy by only one family. This includes both attached and detached single-family homes.
Stormwater Post Construction Controls	Practices that are installed and maintained to control post construction stormwater discharges.
Swale	A swale, sometimes called a biofilter, is a grass-lined channel that is designed to convey stormwater in shallow flow. Pollutant removal is accomplished through filtration through the vegetation and swales are frequently designed to allow for infiltration of stormwater.
	Stormwater controls that direct stormwater discharges to a treebox, where it can be filtered by the soil and vegetation. Some tree boxes may drain to a channel below, which conveys stormwater to the selected collection system.
Transportation	A project that includes uses such as highways and bridges
Underground Detention	Underground vaults, storage cells, or water piping systems used for stormwater flow rate and volume control. This is an alternative to storage above ground (e.g., pond).
Underground Infiltration	Underground infiltration includes a variety of proprietary and non-proprietary practices that are usually placed under parking lots and streets that temporarily store and infiltrate stormwater. Common materials include corrugated metal pipe, pre-cast concrete and polyvinyl chloride (PVC).
Utility	A project that includes uses such as water and/or gas pipelines, or electricity transmission lines.
Water Body	A water body includes waters of the state, waters of the U.S., and for purposes of this survey, generally includes any surface water such as a stream, river, lake, bay or ocean.

General Information

1. Provide contact information for your establishment.

Establishment's Full Legal Name

Address

Phone/Fax Number

Website

Email

2. Provide contact information for the person to whom EPA should direct follow up calls concerning your responses to this questionnaire if necessary.

Name

Email

Title

Best Time to Contact

Phone/Fax Number

This questionnaire will ask a series of questions about your operations and the projects in which you participated during 2005 – 2009. Prior to responding to each question, please carefully review the *Glossary of Terms* for applicable definitions.

3. Many of the following questions will ask for information for each year that you were in business during 2005 – 2009. Unless specified otherwise, EPA is requesting that you provide information for calendar years 2005-2009. However, for the **financial questions** only (e.g., revenue, project value), you may respond for the calendar year or your fiscal year. Please indicate whether you are reporting **financial** information for the calendar year or your fiscal year by checking one box below.

- Calendar year (Skip to Question 4)
- Fiscal year

If you checked "Fiscal Year", please indicate the first month of your fiscal year.

<input type="checkbox"/> January	<input type="checkbox"/> July
<input type="checkbox"/> February	<input type="checkbox"/> August
<input type="checkbox"/> March	<input type="checkbox"/> September
<input type="checkbox"/> April	<input type="checkbox"/> October
<input type="checkbox"/> May	<input type="checkbox"/> November
<input type="checkbox"/> June	<input type="checkbox"/> December

4a. Did your establishment complete one or more phases of at least one construction, land development or redevelopment project during calendar years 2005 – 2009? If the only work you completed during calendar years 2005 – 2009 was alteration or remodeling of an existing structure or structures, then you should answer “No” to this question.

- Yes
- No (*You have completed the survey. Thank you for your input. Sign the certification statement on page 6 and return to the address indicated on page 3).*

4b. During calendar years 2005 – 2009, was your establishment the owner or developer for at least one project or a phase/portion of at least one project (either as the sole responsible party or as a participant in a joint venture or other multiple party structure)?

- Yes
- No (*You have completed the survey. Thank you for your input. Sign the certification statement on page 6 and return to the address indicated on page 3).*

4c. During calendar years 2005 – 2009, did your establishment complete at least one project that resulted in one or more acres of land disturbance AND/OR that resulted in the installation of 5,000 square feet or more of new impervious surfaces (roads, roofs, etc.)?

- Yes
- No (*You have completed the survey. Thank you for your input. Sign the certification statement on page 6 and return to the address indicated on page 3).*

4c. Were all of your projects completed during calendar year 2005 through 2009 projects for which the area was reclaimed and no impervious surfaces were installed? Examples would be water, gas or utility pipelines or underground electric or telecommunications cables.

- Yes (*You have completed the survey. Thank you for your input. Sign the certification statement on page 6 and return to the address indicated on page 3).*
- No

5. Indicate the state(s)/territories where your establishment has participated in projects at any time during calendar year 2005 through 2009 (check all that apply).

<input type="checkbox"/> AL	<input type="checkbox"/> CO	<input type="checkbox"/> GA	<input type="checkbox"/> IN	<input type="checkbox"/> MD	<input type="checkbox"/> MO	<input type="checkbox"/> NC	<input type="checkbox"/> NY	<input type="checkbox"/> RI	<input type="checkbox"/> VA
<input type="checkbox"/> AK	<input type="checkbox"/> CT	<input type="checkbox"/> HI	<input type="checkbox"/> KS	<input type="checkbox"/> ME	<input type="checkbox"/> MT	<input type="checkbox"/> ND	<input type="checkbox"/> OH	<input type="checkbox"/> SD	<input type="checkbox"/> VT
<input type="checkbox"/> AR	<input type="checkbox"/> DE	<input type="checkbox"/> IA	<input type="checkbox"/> KY	<input type="checkbox"/> MI	<input type="checkbox"/> NM	<input type="checkbox"/> NH	<input type="checkbox"/> OK	<input type="checkbox"/> TN	<input type="checkbox"/> WA
<input type="checkbox"/> AZ	<input type="checkbox"/> DC	<input type="checkbox"/> ID	<input type="checkbox"/> LA	<input type="checkbox"/> MN	<input type="checkbox"/> SC	<input type="checkbox"/> NJ	<input type="checkbox"/> OR	<input type="checkbox"/> TX	<input type="checkbox"/> WI
<input type="checkbox"/> CA	<input type="checkbox"/> FL	<input type="checkbox"/> IL	<input type="checkbox"/> MA	<input type="checkbox"/> MS	<input type="checkbox"/> NE	<input type="checkbox"/> NV	<input type="checkbox"/> PA	<input type="checkbox"/> UT	<input type="checkbox"/> WV
						<input type="checkbox"/> Puerto Rico	<input type="checkbox"/> Other U.S. Territory (specify):		<input type="checkbox"/> WY

6. Is your establishment independently owned and operated (i.e., the establishment is the same entity as the firm)?

- Yes (skip to Question 10)
 No (continue to the next question)

7. Provide contact information for the firm that owns and operates this establishment.

Firm's Full Legal Name

Address

Phone/Fax Number

Website

8. In what state is your parent firm organized as a legal entity?

9. CBI. Complete the table below with your *parent firm's* total annual revenue for 2005-2009. Provide values in dollars and fill in all values; you may round values to the nearest thousand dollars. If your firm was not in business for one or more of the years, enter "N/A" for those years.

Total Firm Revenue (Dollars; may round to nearest thousand)				
Year				
2005	2006	2007	2008	2009

10. Are you a publicly traded company?

- Yes
 No

11. Indicate your type of business organization.

- Sole proprietorship
 Partnership
 Corporation (standard, "C" corporation)
 Subchapter S Corporation
 Limited Liability Corporation
 Other: _____

Establishment Financial Information

12. CBI. Complete the table below with your establishment's annual revenue for 2005-2009. Provide values in dollars and fill-in all values; you may round values to the nearest thousand dollars.

Establishment Revenue (Dollars; may round to nearest thousand)					
Revenue Type	Year				
	2005	2006	2007	2008	2009
Revenue from projects that meet the <i>Question 4 Criteria</i>					
All other revenue*					
Total Revenue**					
*Including, for example, new or redevelopment projects that do not meet the Question 4 Criteria, and expansions or alterations of existing structures.					
**The previous two rows in the table should sum to this value.					

13. CBI. How much of your establishment's annual revenue was generated by performing each of the following roles? Provide values in dollars and fill in all values, indicating not applicable categories with a "0"; you may round values to the nearest thousand dollars.

Revenue (Dollars; may round to nearest thousand)					
Project Role	Year				
	2005	2006	2007	2008	2009
Owner Only					
Developer Only					
Owner & Developer					

14. CBI. How much of your establishment's annual revenue was generated from the following types of activity at any time during 2005 through 2009? Provide values in dollars and fill in all values, indicating not applicable categories with a "0"; you may round values to the nearest thousand dollars.

Revenue (Dollars; may round to nearest thousand)					
Type of Project	Year				
	2005	2006	2007	2008	2009
New Development					
Redevelopment					
Alterations and Expansions					

15. CBI. How much of your establishment’s annual revenue was generated from the following types of projects during the period from 2005 through 2009? Provide values in dollars and fill in all values, indicating not applicable categories with a “0”; you may round values to the nearest thousand dollars.

Revenue (Dollars; may round to nearest thousand)					
Type of Project	Year				
	2005	2006	2007	2008	2009
Single-Family Residential					
Multi-Family Residential					
Commercial/ Institutional					
Industrial					
Transportation					
Mixed Residential (single-family and multi-family)					
Mixed Residential and Commercial/Institutional					
Mixed Commercial/Institutional and Industrial					
Other Mixed Use					

Project Information: Part 1

16. CBI. How many projects that meet the *Question 4 Criteria* was your establishment participating in on the last day of 2009?

17. CBI. How many total projects did your establishment finish participating in during calendar years 2005-2009? For projects meeting the *Question 4 Criteria* enter the number of projects that fall into each in each of the following size and type categories. For those projects that do not meet the *Question 4 Criteria*, enter the number that fall into each type category.

Number of Projects							
Type of Project	Project Size Range for Projects Meeting the Question 4 Criteria						Projects not Meeting the Question 4 Criteria
	Less than 1 Acre	1 – 9.9 Acres	10 – 24.9 Acres	25 – 49.9 Acres	50 – 99.9 Acres	100 Acres or More	
Single-Family Residential							
Multi-Family Residential							
Commercial/Institutional							
Industrial							
Transportation							
Mixed Residential (single-family and multi-family)							
Mixed Residential and Commercial/Institutional							
Mixed Commercial/Institutional and Industrial							
Other Mixed Use							
Total							

18. CBI. For your residential projects that meet the *Question 4 Criteria*, how many projects did your establishment finish participating in at any time during calendar years 2005-2009 in each of the following categories?

Number of Projects that Satisfy the Question 4 Criteria					
Type of Project	Group Projects by Number of Housing Units in Project				
	1-10 Units	10 – 25 Units	25 – 50 Units	50 – 100 Units	>100 Units
Single-Family Residential					
Multi-Family Residential					
Mixed Residential (single-family and multi-family)					
Mixed Residential and Commercial/Institutional					
Other Mixed Use					
Total					

19. To your knowledge, how many projects that you participated in at any time during calendar year 2005 – 2009 that meet the *Question 4 Criteria* incorporated low impact development (LID) practices for post-construction stormwater management?

20. CBI. Complete the table below with the total value of all projects:

- Where your participation in the project ended in the year indicated; and,
- That satisfy the *Question 4 Criteria*.

The project value is the final value at the time when your participation in the project ended. This value could be the project's sales value (whether as a project completed for retail sale or for sale to another party for performance of the next project phase), or the recorded asset value of the project when transferred from work-in-progress status to completion of your establishment's participation in the project. Provide values in dollars and fill in all values; you may round values to the nearest thousand dollars.

Project Value (Dollars; may round to nearest thousand)					
Type of Project	Year				
	2005	2006	2007	2008	2009
Single-Family Residential					
Multi-Family Residential					
Commercial/ Institutional					
Industrial					
Transportation					

Project Value (Dollars; may round to nearest thousand)					
Type of Project	Year				
	2005	2006	2007	2008	2009
Mixed Residential (single-family and multi-family)					
Mixed Residential and Commercial/Institutional					
Mixed Commercial/Institutional and Industrial					
Other Mixed Use					
Total					

Project Information: Part 2 Detailed Information

The next set of questions is meant to help EPA to develop a profile of projects performed during the last five years. Rather than ask each respondent for information on all the projects they participated in during the 2005-2009 time period, EPA has assigned each respondent a random date during this period, and is asking respondents to describe the projects they participated in that were on-going on the specified date. An on-going project is one that was in the land acquisition, land development, or construction phase on the date identified below.

Complete one copy of this section (covering Questions 21- 50) for each project that meets the *Question 4 Criteria* and that was on-going on _____. (*this is a randomly generated date between January 1, 2005 and December 31, 2009*) In the event that you were not responsible for the entire project, provide answers for the phases or portions for which you were directly involved and for general project questions that you know the answer to.

Project Technical Information

21. Project Name or other identifier you use to describe this project:

22. Were you the Owner/Developer for the entire duration of the project or just a phase/portion of the project?

- I was the owner/developer for the entire project. (Skip to 24)
- I was the owner/developer for only a portion of the whole project.

23. Please indicate what portions of the project you were the owner/developer for.

- General Site Clearing/Grubbing
- Grading
- Infrastructure (roads, utilities, etc.) Installation
- Lot Development/Vertical Construction

24. If the property is non-residential and you did not retain ownership after project completion, who did you transfer ownership to?

25. Please provide the location of the project.

Street Name & Address:

Town/City:

State:

ZIP Code:

Latitude:

Longitude:

26. Did you file for coverage under a state or federal general construction permit?

- Yes
- No (Skip to 30)

27. What was the permit number assigned to you by the State or EPA when you filed for an NOI/NOC for the project?

28. What were the project start and end dates as listed on the NOI/NOC?

Start Date _____ End Date _____
(MM/DD/YYYY) (MM/DD/YYYY)

29. What was the actual project start and end date?

Start Date _____ End Date _____
(MM/DD/YYYY) (MM/DD/YYYY)

30. Indicate the project type and approximate size. If more than one type of developed area exists within this project, specify by area.

Developed Area Type	Area of the Project (acres)
Total	
Newly Developed Area	
Single-Family Residential detached	
Single-Family Residential attached	
Multifamily Residential	
Commercial	
Industrial	
Institutional	
Government	
Transportation	
Non-Building	
Redeveloped Area	
Single-Family Residential detached	
Single-Family Residential attached	
Multifamily Residential	
Commercial	
Industrial	
Institutional	
Government	
Transportation	
Non-Building	

31. How many residential dwellings units were constructed as a part of this project? (If none enter 0) _____

32. PRE-Construction Land Cover

Indicate what the land cover of the project area was prior to your development activity. In the event of that you were only responsible for developing a portion of the project, indicate what the land use was when you began your construction activity. Check all that apply.

- Developed (includes buildings, roads, parking lots, etc.). Specify the types of developed areas present below.
 - Residential
 - Commercial
 - Industrial
 - Parking Lot
- Brownfield Area
- Barren/Open
- Forested/Woods
- Shrubland
- Grassland
- Pasture
- Cropland/Farm
- Wetlands
- Other (*Specify* _____)
- Don't Know

33. POST-Construction Land Cover

Indicate the area occupied by each of the following site components. Fill in information for each site component. If not applicable write "NA". If information is not available or unknown for a particular site component, please provide your best estimate or indicate "NK" for Not Known.

(a) Indicate the area occupied by each of the following **impervious** site components. Do not include the footprint of buildings that have a green roof or disconnected spout leading to an infiltration BMP or transportation areas which are constructed of pervious pavers or other pervious materials. Rather, include these areas in response to part (b).

Acres Covered by Impervious Site Components	
Site Component	Area (Acres or % of Total Project Area)
Building Areas/ Rooftops (house, garage, storage structure etc.)	
Roads	
Driveways	
Parking area	
Other Impervious Area, Specify: _____	

(b) Indicate the area occupied by each of the following **pervious** site components.

Acres Covered by Pervious Site Components	
Site Component	Area (Acres or % of Total Project Area)
Pervious paving (includes porous asphalt, pervious concrete, modular block pavers or similar practices)	
Grass lawns, turf grass or other open green space	
Infiltration BMPs (such as bioretention, rain gardens and swales)	
Water bodies including natural ponds and stormwater ponds	
Cropland/Pasture	
Natural vegetation and undisturbed areas (forest, shrubland, grassland, etc)	
Wetlands	
Other pervious area, specify: _____	

34. Is a waterbody located adjacent to the property, or does a waterbody pass through the property?

- Yes No (SKIP to Question 36)

35. Was there a vegetative buffer zone that was either preserved and/or created at the shoreline?

- Yes No

36. Has a soils survey been conducted at the site?

- Yes
 No (Skip to 39)
 Don't Know (Skip to 39)

37. Indicate the approximate distribution of soil types at this site

Type	% Coverage
Clayey soils (clay, clay loam)	
Silty soils (silt, silt loam)	
Loamy soils (loam, sandy loam)	
Sandy soils (sand, loamy sand)	

38. Indicate the approximate distribution of hydrologic soil groups at the site

Soil Group	% Coverage
Group A	
Group B	
Group C	
Group D	

39. To what does the site discharge stormwater (check all that apply)?

- a MS4 owned and operated by a local government, sewer district or other public body
- direct discharge to surface water
- storm sewer/control structure (pond) owned by a private entity
- other, specify: _____

40. Indicate which specific or numeric stormwater performance standards and/or design criteria requirements apply to this project. (Check all that apply.)

- Post-development peak runoff/discharge rate must match pre-development peak runoff/discharge rate for a specified storm return interval or intervals.

- 1 year
- 2 year
- 5 year
- 10 year
- 25 year
- 100 year
- Other (*Specify*) _____

- Detention of a specified storm depth or volume (such as 0.5 inch per acre or 1 inch per impervious acre).

(*Specify*) _____

- Detention of a specified storm volume (such as 1,800 cubic feet per acre or 3,600 cubic feet per impervious acre).

(*Specify*) _____

- Detention of a specified percentile storm event (such as the 80th percentile storm).

(*Specify*) _____

- Retention of a specified storm depth or volume (such as 0.5 inch per acre or 1 inch per impervious acre).

(*Specify*) _____

- Retention of a specified storm volume (such as 1,800 cubic feet per acre or 3,600 cubic feet per impervious acre).

(*Specify*) _____

- Retention of a specified percentile storm event (such as the 80th percentile storm).

(Specify) _____

Pollutant reduction requirement (for example, stormwater control practices must be installed to remove 80% of the post-construction TSS loading and 40% of the post-construction nitrogen loading)

Specify: _____

Channel protection measures (such as a maximum allowable discharge velocity or other metric)

Specify: _____

Infiltration/groundwater recharge requirement (for example, maintain predevelopment groundwater recharge levels or infiltrate the first 0.5 inch of runoff)

Specify: _____

Limits for effluent concentrations of specific pollutants

Specify: _____

Requirements for control of temperature

Specify: _____

Flood control requirements other than the peak discharge rate control and on-site detention/retention requirements specified above.

Specify: _____

Stream buffer requirements (for example, a 50 foot vegetated buffer must be maintained/implemented adjacent to waters of the state)

Specify: _____

Limits on the maximum percent imperviousness for the site, or maximum directly connected impervious surface or other limits on impervious surfaces.

Specify: _____

Other Standards Not Identified Above, Specify: _____

41. Did your firm perform a cost comparison between traditional stormwater post construction controls (i.e. basins) and stormwater post construction controls that retain runoff onsite (also known as low impact development practices which include bioretention, rain gardens, etc) for this project?

Yes No

42. Were stormwater post construction controls that retain runoff onsite planned for this site?

Yes No

43. Were stormwater post construction controls that retain runoff onsite implemented on this site?

Yes No

44. What, if any, challenges did your establishment encounter in implementing stormwater post construction controls that retain runoff onsite? Or if the controls/practices were planned but not implemented, what prevented your establishment from implementing them? Check all that apply.

- No stormwater controls/practices that retain runoff onsite planned or implemented
- Zoning ordinances
- Expense
- Local stormwater regulations/permit requirements
- Site limitations
- Financing requirements
- Lack of local providers with retention practice experience (site designers/engineers, architects, subcontractors and installation, etc.)
- Lack of desirability by site owner or other project participant
- Other _____
- Not Applicable
- None

45. If on-site stormwater post construction controls had not been implemented at the site, how would the additionally available land most likely be used? Check all that apply.

- Additional building units
- Larger building footprint
- Additional connected impervious area such as parking, driveway, or garage
- Additional disconnected impervious area such as a shed
- Additional green space such as lawn
- Additional natural vegetation/undisturbed land
- Stormwater management technique did not have a footprint
- Other _____
- Not Applicable (No on-site stormwater post construction controls/practices)
- Unknown

46. Indicate which of the following stormwater post construction controls have been installed for this project. Check all that apply.

- Detention/retention basins
- Curbs and Gutters
- Storm Sewers
- Catch Basins
- Swales
- Constructed Wetlands
- Wetland Channels
- Underground Detention
- Underground Infiltration
- Manufactured Devices, specify: _____
- Tree Boxes
- Green Roofs
- Bioretention/Rain Gardens
- Infiltration basins/trenches/dry wells

- Porous asphalt
- Permeable concrete
- Permeable modular block pavers
- Sand filters or other types of media filters
- Cisterns
- Rain barrels
- Other _____
- None

47. Provide an estimate of the final value of the project and the estimated cost of the stormwater post construction controls associated with this project. If your participation in the project ended prior to the completion of the construction phase, provide your best approximation.

Project value: \$ _____
Stormwater Post Construction Costs \$ _____

If costs of stormwater controls are unknown, provide an estimate of the percentage of the total construction costs: _____%

Project Financial Information

48. CBI. Please complete the table below regarding your participation in the phases of this project.

	Land Acquisition	Land Development	Project Construction
Check all phases in which your establishment actively participated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indicate your establishment's percent share of ownership in the project (%)	____%	____%	____%

49. CBI. Provide the following financial information for each phase of the project in which you were an active participant.

Land Acquisition and Initial Project Planning and Design	
Item	Cost (\$)
Raw Land Cost	
Fees - Legal, Accounting, Financing, and Permitting incurred during land acquisition phase	
Project Design, Architectural Services, etc.	
Interest or other financing costs incurred during this phase	
Establishment's Overhead	
Other Costs	

Land Development	
Item	Cost (\$)
Acquisition value (if your business participation in the project began at Land Development, what was the cost of purchasing partially developed land).	
Land Development (includes site preparation, site improvements such as paving, water and sewer connections, erosion and sediment control, land preservation and planting etc.)	
Fees - Legal, Accounting, Impact Analysis, Other	
Interest or other financing costs incurred during this phase	
Establishment's Overhead	
Other Costs	

Project Construction	
Item	Cost (\$)
Acquisition value (if your business participation in the project began at Project Construction, what was the cost of purchasing partially developed land)	
Fees - Legal, Accounting, Building Permit and Inspection, Other	
Cost of Construction – Materials, Labor, Services, Construction Contracts, etc.	
Interest or other financing costs incurred during this phase	
Establishment's overhead	
Sale or Other Completion Disposition Costs (e.g., legal fees, accounting fees, marketing fees)	
Other Costs	

50. CBI. Provide information on the financial structure and financing terms for each phase of the project in which you were an active participant. If you were not a participant in that phase leave blank.

Financing Information for Each Project Phase			
Item	Land Acquisition	Land Development	Construction
Primary Debt Financing (first or senior debt)			
Fraction Financed (%):			
Interest Rate, if a fixed rate (%):			
Interest Terms, if not fixed:			
<i>Base Rate (check box):</i>	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:
<i>Increment to Base Rate (%):</i>			

Secondary Debt or Other Fixed Repayment Term Financing			
Description:			
Fraction Financed (%):			
Interest Rate, if a fixed rate (%):			
Interest Terms, if not fixed:			
<i>Base Rate (check box):</i>	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:	<input type="checkbox"/> Prime Rate <input type="checkbox"/> LIBOR <input type="checkbox"/> Other:
<i>Increment to Base Rate (%):</i>			
Equity Financing (Owner's Financing or other Non-Debt, Non-Fixed Repayment Term Financing)			
Fraction Financed (%):			
Other Equity Financing or other Non-Debt, Non-Fixed Repayment Term Financing (e.g., joint venture partner financing or limited partner financing)			
Description:			
Fraction Financed (%):			

Once you have completed a copy of this section for all projects described in the associated instructions on page 19, you have completed the questionnaire. Sign the Certification Statement and refer to instructions for mailing the questionnaire back to the United States Environmental Protection Agency. Thank you.