

# Level 1A: Fundamentals

## Education & Training Certification Requirements for Persons Involved in Land Disturbing Activities

Sponsored By





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# Education & Training Certification Requirements for Persons Involved with Land Disturbing Activity

## Level 1A: Fundamentals

7:30 a.m.	Registration & Program Introduction
8:00 a.m.	Basics of Erosion & Sedimentation
8:30 a.m.	The Georgia Erosion & Sedimentation Act
9:30 a.m.	Stream Impacts
10:00 a.m.	Break
10:15 a.m.	NPDES Permit Requirements
11:15 a.m.	Vegetative Measures
12:15 p.m.	Lunch
1:00 p.m.	Structural Measures
2:45 p.m.	Break
3:00 p.m.	Field Maintenance
3:30 p.m.	Exam
4:30 p.m.	Adjourn



# Checking My Exam Score

- If you receive a score of 70% or greater, you will receive your certification card in the mail within 60 days
- You may check your score on the Georgia Soil & Water Conservation Commission website: [www.gaswcc.org](http://www.gaswcc.org). Please allow time for exams to be scored
- Scores will be posted according to the ID Number you created, your DOB and Last 4 digits of your Social Security # (MMDDYY####)
- If you do not receive communication regarding your certification in 60 days, please contact the:

## **Education & Certification Program**

P.O. Box 8024

Athens, GA 30603

(706) 552-4474

Email: [certification@gaswcc.org](mailto:certification@gaswcc.org)



Insert Tab 1

Basics of Erosion & Sedimentation

Back of Tab

BASICS OF



EROSION & SEDIMENTATION

 Level 1A: Fundamentals July 2016

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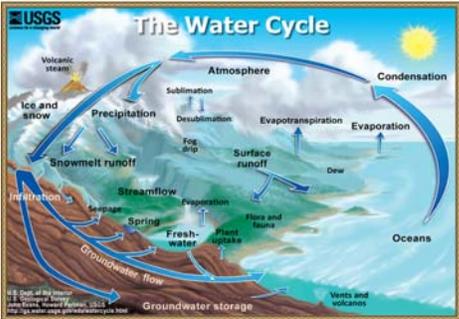
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Hydrologic Cycle

2



The diagram illustrates the hydrologic cycle with various processes: Volcanic steam, Sublimation, Disublimation, Evapotranspiration, Evaporation, Dew, Fog drip, Surface runoff, Precipitation, Snowmelt runoff, Streamflow, Infiltration, Spring, Fresh-water, Groundwater storage, Groundwater flow, Plants and trees, Vents and volcanoes, and Oceans.

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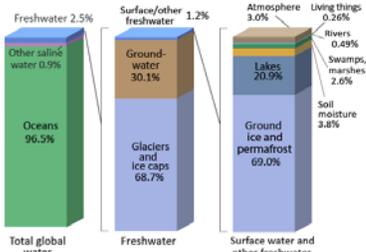
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Where is Earth's Water?

3



Category	Sub-category	Percentage
Total global water	Oceans	96.5%
	Other saline water	0.9%
Freshwater	Glaciers and ice caps	68.7%
	Ground-water	30.1%
Surface water and other freshwater	Ground ice and permafrost	69.0%
	Lakes	20.9%
	Atmosphere	3.0%
	Soil moisture	3.8%
	Living things	0.26%

Source: Igor Shiklomanov's chapter "World fresh water resources" in Peter H. Gleick (editor), 1993, Water in Crisis: A Guide to the World's Fresh Water Resources.  
NOTE: Numbers are rounded, so percent summations may not add to 100.

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### Water Quality

4

- Sediment is the #1 non-point source pollutant



An aerial photograph showing a river with a house and a boat. The river is surrounded by green trees and vegetation. A small boat is visible in the water near the shore.

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### 5 EROSION

Definition  
Types  
Factors

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### 6 Definition

- The process by which the land surface is worn away by the action of water, wind, ice and gravity



A photograph of the Grand Canyon, showing the deep, layered rock formations and the surrounding landscape.

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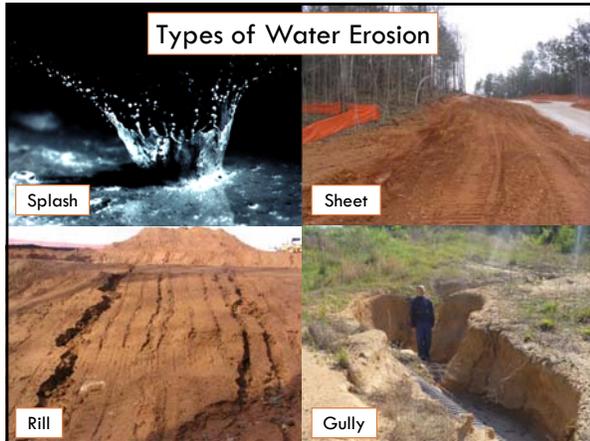
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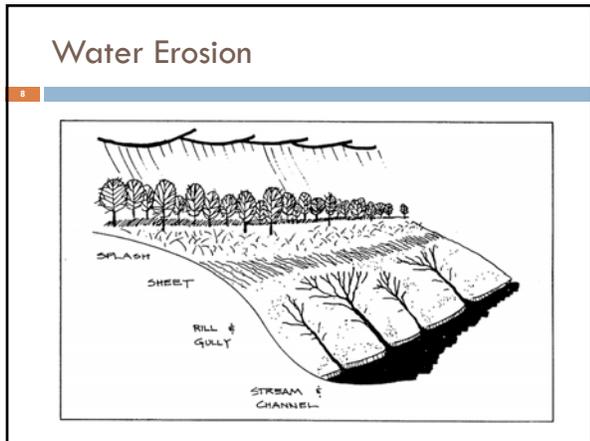
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### Natural (Geologic) Erosion

- Definition
  - Erosion without the interference of human activity that has been occurring since the earth was formed
- Except in some cases of shore and stream channel erosion, the rate is very slow and uniform

A photograph of a natural rock arch in a desert landscape, illustrating natural geologic erosion.

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### Accelerated Erosion

10

- Definition
  - ▣ Alteration of the land surface intensified by human activities (i.e. Farming & Construction)



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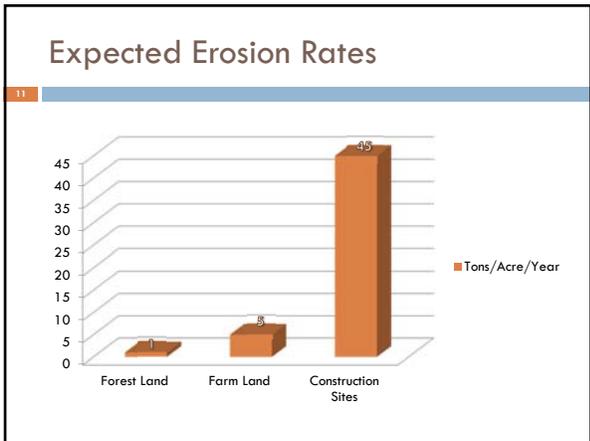
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### Factors Influencing Erosion

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- Climate
  - ▣ The frequency, intensity and duration of rainfall and temperature extremes are principle factors influencing the volume of runoff
- Topography
  - ▣ The size, shape, and slope characteristics of a watershed influence the amount and duration of runoff

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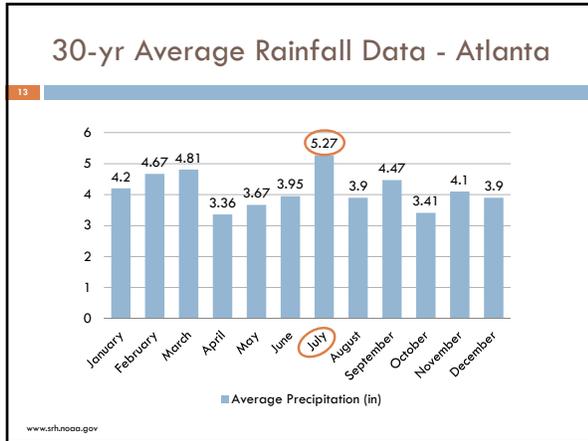
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### Gradient

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- Definition
  - The number of horizontal units per vertical units (i.e. 4:1 or 25%)

The greater the slope length and gradient = the greater the potential for runoff and erosion

1 4:1 4

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### Factors Influencing Erosion

15

- Soils
  - The soil type will determine its vulnerability to erosion

Most Erodible → Least Erodible

Tifton Sand Cecil Clay

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### Factors Influencing Erosion

16

- Vegetative Cover
  - Extremely important factor in reducing erosion
  - It will:
    - Absorb energy of rain drops
    - Bind soil particles
    - Slow velocity of runoff
    - Increase ability to absorb water
    - Remove subsurface water between rainfalls



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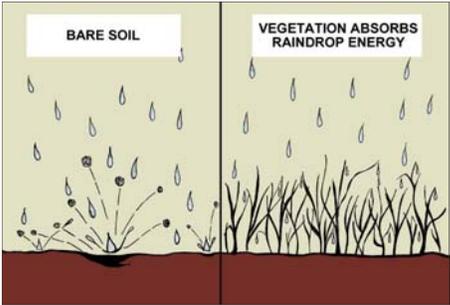
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### Absorb energy of rain drops

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### Bind soil particles

18



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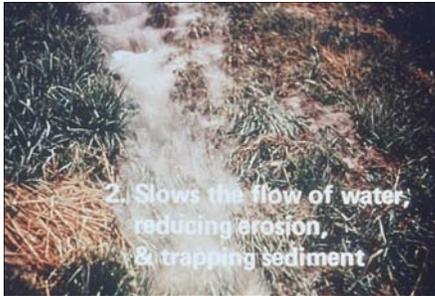
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### Slow velocity of runoff

19



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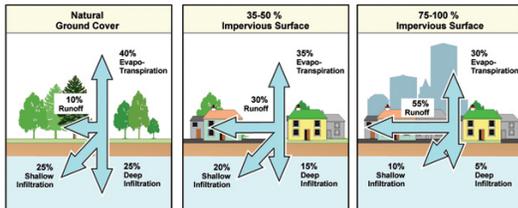
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### Increase absorption

20



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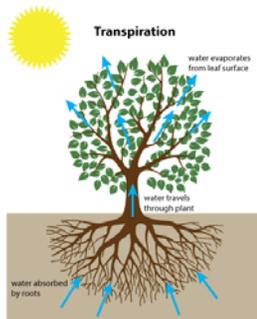
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### Remove subsurface water

21



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22 **SEDIMENTATION**

Definition  
Process  
Everyday Impacts

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23 **Definition**

□ The process by which the eroded material is transported and deposited by water, wind, ice and gravity



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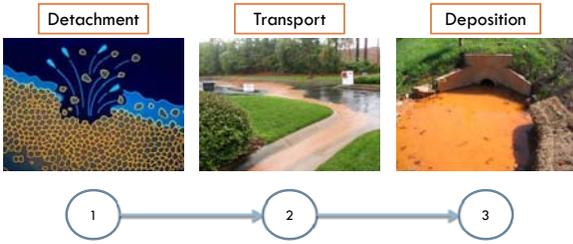
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24 **3 Step Process**

Detachment      Transport      Deposition



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graph LR; 1((1)) --> 2((2)); 2 --> 3((3))
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### Sediment Transport

25



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### Everyday Impacts of Sedimentation

26

1. Increased likelihood of flooding
2. Loss of soil productivity
3. Decreased recreational value
4. Deterioration of water quality
5. Increase costs and maintenance
6. Impacts to wildlife and habitat

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### Increased Likelihood of Flooding

27



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### Loss of Soil Productivity

28



The image consists of two parts. On the right, a man in a blue shirt and hat is kneeling in a field with very few plants, looking at the soil. On the left, a close-up shows a road with a large amount of brown sediment runoff into a drainage ditch.

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### Decreased Recreational Value

29



The image shows a white sign on a post that reads "LAKE CLOSED TO FISHING & SWIMMING". A callout box with an arrow pointing to the sign contains the text "Potential impacts to revenue in the State". The background shows a lake and trees under a blue sky.

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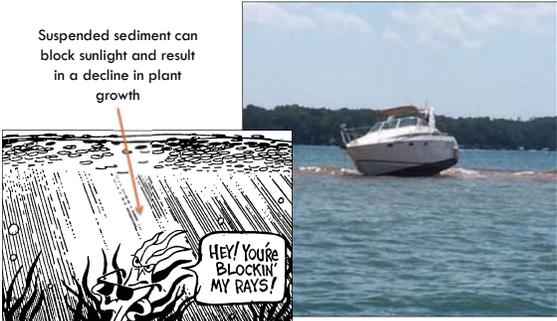
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### Decreased Recreational Value

30

Suspended sediment can block sunlight and result in a decline in plant growth



The image features a boat on a lake. A callout box from a plant in the foreground says "HEY! YOU'RE BLOCKIN' MY RAYS!". To the left, a diagram shows sediment being carried by water, with an arrow pointing to the text "Suspended sediment can block sunlight and result in a decline in plant growth".

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### Deterioration of Water Quality

31



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### Deterioration of Water Quality

32



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### Increased Costs & Maintenance

33



As structures begin to fill with sediment, the flood control storage volume decreases

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### Impacts to Wildlife & Habitat

34

Decreased oxygen levels

Aquatic plant changes

Loss of habitat

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### Summary

35

- Erosion & Sedimentation are natural processes that can be accelerated by human activities
- Erosion = Detachment
- Sedimentation = Deposition
- If accelerated erosion and sedimentation is not controlled properly on land disturbance sites, everyday resources will be impacted and costs will increase

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### 36 Questions?

GSWCC  
Urban Program  
P.O. Box 8024  
Athens, GA 30603  
(706) 552-4474



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Insert Tab 2

GESA

Back of Tab

THE GEORGIA EROSION & SEDIMENTATION ACT OF 1975, AS AMENDED 2015



O.C.G.A. TITLE 12 CHAPTER 7

 Level 1A: Fundamentals July 2016

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2 Overview

- Key Definitions – Slide 7
- LIA Requirements – Slide 13
- Permitting Process – Slide 19
- Enforcement – Slide 25
- Exemptions – Slide 33
- Education & Training – Slide 47

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Key Points

- Erosion in Georgia is the result of several activities including construction, agriculture, forestry, etc.... that convert land from one use to another
- Land disturbing activities are governed on the federal, state, and local level
- GESA is the State Law that may be incorporated into a local ordinance and enforced by a county or municipality
- Sometimes referred to as the “E&S Act”

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## History of GESA

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- On April 24<sup>th</sup>, 1975, the Honorable George Busbee, Governor of the State of Georgia, signed into law as Act 599, the Erosion & Sedimentation Act of 1975 (O.C.G.A. 12-7-1 et. seq.)
- With the passage of the E&S Act, Georgia joined very few states that had adopted legislation specifically designed to protect soil and water resources



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## Intent of GESA

5

- To strengthen and extend the present erosion and sediment control activities and programs of this state
- To provide for the establishment and implementation of a state-wide comprehensive soil erosion and sediment control program
- To conserve and protect the land, water, air, and other resources of the state

O.C.G.A 12-7-2

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## Participating Agencies

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- Local Issuing Authorities (LIA)
- Soil & Water Conservation Districts (SWCD)
- Georgia Soil & Water Conservation Commission (GSWCC)
- Georgia Environment Protection Division (GA EPD)
- Natural Resources Conservation Service (NRCS)

Contact information for each agency can be found in the "Resource Information" section

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**7** Key Definitions

O.C.G.A. 12-7-3

\*A complete listing of all Definitions can be found in the "Resource Information" section

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**8** "Plan"

□ An "Erosion & Sediment Control Plan" is a plan for the control of soil erosion and sediment resulting from a land-disturbing activity



O.C.G.A. 12-7-3(8)

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**9** "Land-disturbing activity"

□ Any activity which may result in soil erosion from water or wind and the movement of sediments into state water or onto lands within the state, including, but not limited to:

- Clearing
- Dredging
- Grading
- Excavating
- Transporting
- Filling of land



O.C.G.A. 12-7-3(9)

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### “Local Issuing Authority”

10

- The governing authority of any county or municipality which is certified pursuant to subsection (a) of Code Section 12-7-8 (Certified by GA EPD)

*Please refer to the “Resource Information” in the back of this section for a complete listing of all local issuing authorities in the State of Georgia*

O.C.G.A. 12-7-3(10)

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### “Manual”

11

- The “Manual for Erosion & Sediment Control in Georgia” is the published guidance of the GSWCC governing the design and practices to be utilized in the protection of this state’s natural resources from erosion and sedimentation which shall be based upon sound engineering principles and repeatable bench and field testing of structural and vegetative best management practices

O.C.G.A. 12-7-3(10.2)

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### Overview Council

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| <ul style="list-style-type: none"> <li>□ Purpose           <ul style="list-style-type: none"> <li>□ Approve the Manual for Erosion &amp; Sediment Control in Georgia prior to publication by GSWCC</li> <li>□ Provide guidance on the installation and maintenance of best management practices for the preparation of plans</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>□ Composed of 9 members           <ul style="list-style-type: none"> <li>□ House of Representatives</li> <li>□ Senate</li> <li>□ GA DOT</li> <li>□ GA EPD</li> <li>□ State &amp; Road Tollway Authority</li> <li>□ Environmental Engineer</li> <li>□ Highway Contracting Industry</li> <li>□ Electric Utility Industry</li> <li>□ Chairperson</li> </ul> </li> </ul> |
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O.C.G.A. 12-7-7.1(f)(1-2)

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13 LIA Requirements & Responsibilities

- O.C.G.A. 12-7-4
- O.C.G.A. 12-7-7
- O.C.G.A. 12-7-8

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Local Ordinance

14

- The EPD may certify a county or municipality as a Local Issuing Authority if the county or municipality enacts an ordinance which meets or exceeds the standards, requirements, and provisions of GESA and the State General Permit
- Any land-disturbing activities by a local issuing authority shall be subject to the same requirements of the ordinances such local issuing authority adopted pursuant to this chapter as are applied to private persons, and the division shall enforce such requirements upon the local issuing authority

O.C.G.A. 12-7-8(a)(3)

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Local Ordinance

15

<ul style="list-style-type: none"> <li>□ Cannot be more stringent for:           <ul style="list-style-type: none"> <li>□ Monitoring</li> <li>□ Reporting</li> <li>□ Inspections</li> <li>□ Design standards</li> <li>□ Turbidity standards</li> <li>□ Education &amp; Training requirements</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>□ May be more stringent for:           <ul style="list-style-type: none"> <li>□ Additional Buffers</li> <li>□ Project size*</li> <li>□ Other related ordinances such as               <ul style="list-style-type: none"> <li>■ Tree protection</li> <li>■ Flood plain protection</li> <li>■ Stormwater management</li> </ul> </li> </ul> </li> </ul>
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\*Project size thresholds with regard to education and training requirements cannot exceed the state general permit

O.C.G.A. 12-7-8(a)(1) O.C.G.A. 12-7-4(a)

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### Responsibilities of Certified LIA

16

- Process applications
- Forward ES&PC plans to SWCD for review
- Issue permits
- Maintain list of active permits
- Conduct inspections
- Enforce ordinance
- Collect fees
- Handle complaints

O.C.G.A. 12-7-7

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### Memorandum of Agreement (MOA)

17

- When a certified LIA demonstrates the capability to review and approve ES&PC plans AND requests an agreement with the SWCD to conduct such review and approval,
- The LIA enters into an agreement with the SWCD & GSWCC to conduct plan review “in-house”
  - ▣ Can result in a quicker turn around time

*Please refer to the “Resource Information” for a complete listing of all LIA’s with a Memorandum of Agreement*

O.C.G.A. 12-7-7(2)(e)

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### LIA Oversight

18

- The SWCD and/or GSWCC shall review semi-annually the actions of certified LIA’s
  - ▣ LIA w/MOA are required to submit additional quarterly reports
- The SWCD and/or GSWCC may provide technical assistance to any county or municipality to improve the effectiveness of their erosion and sedimentation control program
- The GA EPD may periodically review the actions of certified LIA’s

O.C.G.A. 12-7-8(b)

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19 Permitting Process

O.C.G.A. 12-7-9

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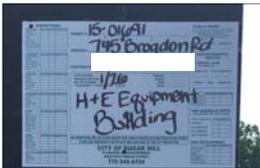
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### LDA Permit

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- All land disturbing activities, not exempt from GESA, must first secure a Land Disturbing Activity (LDA) Permit from the LIA (if applicable)
- It is the responsibility of the property owner/operator to obtain the LDA Permit



\*Local requirements can be more stringent

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### Plan Submittal

21

- An application for a LDA permit shall be accompanied by an Erosion & Sedimentation Control Plan
- The Plan shall contain a certification stating that the plan preparer or the designee thereof visited the site prior to the creation of the plan
- In any event, permits shall be issued no later than 45 days after the application has been filed with the LIA

O.C.G.A. 12-7-9(a-c)

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### Plan Submittal

22

**LIA w/o MOA**

- Owner/Operator
  - ▣ Submits application with Plan
- LIA
  - ▣ Receives application with Plan
  - ▣ Forwards Plan for review within 10 days
- SWCD
  - ▣ Technical review conducted by GSWCC or NRCS
  - ▣ Ratifies the Plan
  - ▣ 35 days upon receipt per submittal to approve or deny

**LIA w/ MOA**

- Owner/Operator
  - ▣ Submits application with Plan
- LIA
  - ▣ Receives application with Plan
  - ▣ Approves or denies the Plan
  - ▣ 45 days upon receipt to issue or deny permit application

Failure to act within timeframe constitutes an automatic approval

O.C.G.A. 12-7-10

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### Plan Submittal

23

**No LIA**

□ Owner/Operator →

- ▣ Submits single copy of the Plan to the GA EPD Watershed Protection Branch
- ▣ Submits second copy to the corresponding GA EPD District office

□ GA EPD

- ▣ GA EPD Watershed Protection Branch reviews the Plan for deficiencies and may provide comments
- ▣ Enforcement conducted by GA EPD District office

EPD does not issue a LDA Permit

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### Plan Submittal

24

**Project not regulated by a Local Issuing Authority**  
(GA DOT, GA Power, Poultry House, Public Drinking Reservoir)

□ Owner/Operator →

- ▣ Submits single copy of the Plan to the GA EPD Watershed Protection Branch
- ▣ Submits second copy to the corresponding GA EPD District office

□ GA EPD

- ▣ GA EPD Watershed Protection Branch reviews the Plan for deficiencies and may provide comments
- ▣ Enforcement conducted by GA EPD District office

EPD does not issue a LDA Permit

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**25** Enforcement Options

- O.C.G.A. 12-7-7
- O.C.G.A. 12-7-11
- O.C.G.A. 12-7-12
- O.C.G.A. 12-7-15

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**26** Possible Actions

- Notice of Violation
- Issuance of Stop Work Order
- Suspension of LDA Permit
- Denial of future LDA Permit applications
- Imposition of civil penalties
- Forfeiture of bonding

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**27** Notice of Violation

□ First & Second Violation

- 1) A written warning is issued to the permittee
- 2) The permittee shall have five (5) days to correct the violation
- 3) If the violation is not corrected within five (5) days, a immediate stop work shall be issued

□ Third Violation

- 1) An immediate stop work order shall be issued

O.C.G.A. 12-7-12(c)

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## Stop Work Order

28

- Immediate Issuance
  - 3<sup>rd</sup> violation
  - Imminent threat to public health
  - Land disturbance without a permit
  - Failure to maintain stream buffer
  - Significant amounts of sediment discharged into state waters
  - Where BMPs have not been properly designed, installed, and maintained
- All Stop Work Orders
  - Effective immediately upon issuance
  - In effect until corrective action or mitigation has occurred
  - Apply to all land-disturbing activity on the site with the exception of the installation and maintenance of all erosion and sediment controls

O.C.G.A. 12-7-12(d)

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## Suspension of LDA Permit

29

- The LDA Permit may be suspended, revoked, or modified by the LIA if the permit holder is not in compliance with the approved Erosion & Sediment Control Plan or if there is any violation

O.C.G.A. 12-7-11(b)

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## Denial of Future LDA Permits

30

- If a permit applicant has had two (2) or more violations of previous permits within three (3) years prior to the date of filing of the application under consideration, the local issuing authority may deny the permit application.

O.C.G.A. 12-7-7(f)(1)

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### Civil Penalties

31

- A maximum penalty of \$2500 for each violation shall be imposed by the municipal or magistrate courts
- Each day during which the violation or failure or refusal to comply continues shall be a separate violation

O.C.G.A. 12-7-15

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### Forfeiture of Bonding

32

- The LIA may require the permit applicant to post a bond in the form of:
  - Government security
  - Cash
  - Irrevocable letter of credit
  - Combination thereof
- Up to \$3000/acre of the proposed land-disturbing activity
- If the applicant doesn't comply with permit, the bond may be forfeited and the proceeds may be used to hire a contractor to stabilize the site and bring it into compliance

O.C.G.A. 12-7-7(f)(2)

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33

### Exemptions

O.C.G.A. 12-7-17

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## Surface Mining

34

□ "Surface mining" means any activity constituting all or part of a process for the removal of minerals, ores, and other solid matter for sale or for processing or for consumption in the regular operation of a business. Tunnels, shafts, borrow pits of less than 1.1 disturbed acres, and dimension stone quarries shall not be considered to be surface mining.



O.C.G.A. 12-4-72(15)

O.C.G.A. 12-7-17(1)

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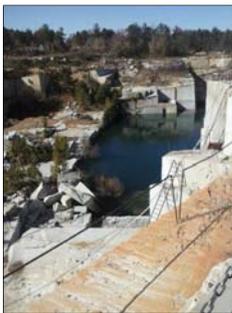
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## Granite Quarrying

35



□ Granite quarrying and the land clearing for such quarrying

O.C.G.A. 12-7-17(2)

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## Minor Land-disturbing activities

36

- Home gardens
- Home Landscaping
- Repairs
- Maintenance
- Fences
- Other related activities which result in minor soil erosion



N/A for activities that are located within the State-mandated Buffer on sites covered by the State General Permits

O.C.G.A. 12-7-17(3)

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## Single-Family Residences

37

- When
  - ▣ Construction disturbs < one (1) acre
  - ▣ Not part of a larger common plan of development
- ES&PC Plan & Buffer requirements still apply



Exempt from LDA Permit only

O.C.G.A. 12-7-17(4)

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## Agricultural Operations

38

- Practices involving the establishment, cultivation, or harvesting of products of the field or orchard
- Preparation and planting of pasture land
- Farm ponds
- Dairy operations
- Livestock & Poultry management practices
- Construction of farm buildings (Not exempt from NPDES)



O.C.G.A. 1-3-3

O.C.G.A. 12-7-17(5)

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## Forestry Practices

39



Forestry Land Management Practices/Silvicultural Practices Exemption Guidelines – March 2010 (epd.georgia.gov)

- Forestry land management practices, including harvesting
- When such activities result in a buffer encroachment, a 3 year moratorium is placed on the entire property

O.C.G.A. 12-7-17(6)

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### NRCS Projects

40

- Projects carried out under the technical supervision of the USDA-NRCS



O.C.G.A. 12-7-17(7)

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### Projects < 1.0 Acre

41

- Any project involving less than one (1) acre of disturbed area unless the land-disturbing activity is:
  - Within a larger common plan of development with a planned disturbance equal to or greater than 1.0 acre
  - Or within 200 ft. of the bank of any perennial stream
- If a project, located in a area with no Certified LIA, is less than one (1) acre AND within 200 ft. of a perennial stream, no plan submittal is required but the buffer requirements would still be applicable

*Check local requirements*

O.C.G.A. 12-7-17(8)

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### Road Projects

42

*Not exempt from NPDES*

- Any projects undertaken or financed by:
  - Department of Transportation
  - GA Highway Authority
  - State Road & Tollway Authority
- Any road construction or maintenance project, or both, undertaken by any county or municipality
- Not exempt if located within a larger common plan of development
  - Becomes secondary permittee; Enforced by LIA

O.C.G.A. 12-7-17(9)

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### Utility Projects

Not exempt from NPDES

43

- Any land-disturbing activities conducted by:
  - Electric Membership Corporation
  - Municipal Electrical System
  - Public Utility under PSC jurisdiction (i.e. Solar Farms & Railroads)
  - Any utility under FERC jurisdiction
  - Cable television systems
- Not exempt if located within a larger common plan of development
  - Becomes secondary permittee; Enforced by LIA

O.C.G.A. 12-7-17(9)

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### Utility Projects

Not exempt from NPDES

44



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### Public Water System Reservoirs

Not exempt from NPDES

45



O.C.G.A. 12-7-17(11)

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46 Education & Training Requirements

O.C.G.A. 12-7-19

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Who must be certified?

47

- Persons involved in land development design, review, permitting, construction, monitoring, or inspection or any land-disturbing activity shall meet the education and training certification requirements, dependent on his or her level of involvement with the process as developed by the Commission in consultation with the GA EPD and the Stakeholder Advisory Board

O.C.G.A. 12-7-19(a)(1)

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Who must be certified on site?

48

- Whenever land-disturbing activities are being conducted on site, each entity or person acting as either a primary, secondary, or tertiary permittee shall have as a minimum one (1) person who is responsible charge of erosion and sedimentation control activities
- Persons or entities involved in projects not requiring a state general permit but otherwise requiring certified personnel on site may contract with certified persons

O.C.G.A. 12-7-19(a)(2-3)

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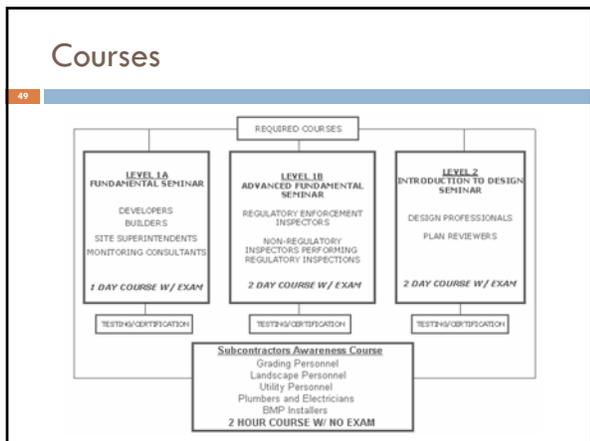
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- ### Subcontractor Awareness Seminar
- 51
- Required for individuals involved in land disturbing activities that are working in a subcontractor capacity for a primary, secondary or tertiary permittee
  - Individuals working in a subcontractor capacity cannot be required to meet any educational requirements that exceed those of a Certified Subcontractor
  - Certified Subcontractor status **DOES NOT** certify an individual to perform the duties of a "certified" person/personnel
  - If an individual is performing "certified" duties, a Level 1A certification is required

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### Subcontractor Awareness Seminar

52

- If an individual is working in a subcontractor capacity and possesses a Level 1A certification they are not required to take the Subcontractor Awareness Seminar
- If an individual is working in a subcontractor capacity and has attended a Level 1A course, they are not required to take the Subcontractor Awareness Seminar. They can:
  - Complete a Subcontractor Awareness Application
  - Submit a Proof of Attendance form from the Level 1A course

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### Certification Cards

53

- Cards are color coded by level of certification for quick reference in the field
  - Level 1A – **Blue**
  - Level 1B – **Red**
  - Level II Plan Reviewer – **Gray**
  - Level II Design Professional – **Tan**
  - Subcontractor Awareness – **White**
- Regulatory inspectors should ask to see certification cards on-site

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### Certification Cards

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### Re-Certification Requirements

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- A certification provided by achieving the requirements established by GSWCC shall expire no later than three (3) years after its issuance
- A certified individual shall be required to attend and participate in at least four (4) hours of approved continuing education courses, as established by GSWCC, every three (3) years
- Individuals may begin taking re-certification courses one (1) year before their initial certification expires
  - Courses taken before the 1 year mark will not count as credit

O.C.G.A. 12-7-19(e)(1-2)

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### Re-Certification Requirements

56

- An individual who wishes to renew their certification shall attend four (4) hours of continuing education (CE) for each certification they wish to renew
- Example
  - John Doe is a Certified Inspector & Certified Plan Reviewer
  - He must attend 4 hours of CE for Level 1B & 4 hours of CE for Level II
- There is no exam for any re-certification course
- Re-certification cards are mailed out two (2) weeks before expiration

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### Course Listings

57

- For additional information and a complete list of upcoming courses
  - <http://www.gaswcc.org/esc-courses.php>

Erosion and Sedimentation Certification Program Recent and Upcoming Courses	
<b>Initial Certification</b>	<b>Recertification:</b>
Apprentices for Subcontractors	Level 1A
Level 1A	Level 1B
Level 1B	Level 2I
Level 2I	Training 1
Training 1	Training 2
Training 2	

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## Summary

58

- GESA is the State Law that governs land-disturbing activities
- All eligible activities must first secure a LDA permit
- Counties and municipalities can become a LIA when certified by the GA EPD
- One person from each entity shall meet the education and certification requirements dependent on their level of involvement

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## Questions?

GSWCC  
Urban Program  
P.O. Box 8024  
Athens, GA 30603  
(706) 552-4474



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Insert Yellow Sheet

Back of Yellow Sheet

**O.C.G.A. § 12-7-1**

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**\*\*\* Current Through the 2015 Regular Session \*\*\***

**TITLE 12. CONSERVATION AND NATURAL RESOURCES**  
**CHAPTER 7. CONTROL OF SOIL EROSION AND SEDIMENTATION**

**O.C.G.A. § 12-7-1 (2015)**

**§ 12-7-1. Short title**

This chapter shall be known and may be cited as the "Erosion and Sedimentation Act of 1975."

**§ 12-7-2. Legislative findings; policy of state and intent of chapter**

It is found that soil erosion and sediment deposition onto lands and into waters within the watersheds of this state are occurring as a result of widespread failure to apply proper soil erosion and sedimentation control practices in land clearing, soil movement, and construction activities and that such erosion and sediment deposition result in pollution of state waters and damage to domestic, agricultural, recreational, fish and wildlife, and other resource uses. It is therefore declared to be the policy of this state and the intent of this chapter to strengthen and extend the present erosion and sediment control activities and programs of this state and to provide for the establishment and implementation of a state-wide comprehensive soil erosion and sediment control program to conserve and protect the land, water, air, and other resources of this state.

**§ 12-7-3. Definitions**

As used in this chapter, the term:

- (1) "Board" means the Board of Natural Resources.
  
- (2) "Buffer" means the area of land immediately adjacent to the banks of state waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.

(2.1) "Coastal marshlands" shall have the same meaning as in Code Section 12-5-282.

(3) "Commission" means the State Soil and Water Conservation Commission.

(4) "Director" means the director of the Environmental Protection Division of the Department of Natural Resources.

(5) "District" means any one of the soil and water conservation districts of this state.

(6) "Division" means the Environmental Protection Division of the Department of Natural Resources.

(7) "Drainage structure" means a device composed of a virtually non-erodible material such as concrete, steel, plastic, or other such material that conveys water from one place to another by intercepting the flow and carrying it to a release point for storm-water management, drainage control, or flood control purposes.

(8) "Erosion and sediment control plan" or "plan" means a plan for the control of soil erosion and sediment resulting from a land-disturbing activity.

(9) "Land-disturbing activity" means any activity which may result in soil erosion from water or wind and the movement of sediments into state water or onto lands within the state, including, but not limited to, clearing, dredging, grading, excavating, transporting, and filling of land but not including agricultural practices as described in paragraph (5) of Code Section 12-7-17.

(9.1) "Larger common plan of development or sale" means a contiguous area where multiple separate and distinct construction activities are occurring under one plan of development or sale. For purposes of this paragraph, "plan" means an announcement; piece of documentation such as a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, or computer design; or physical demarcation such as boundary signs, lot stakes, or surveyor markings, indicating that construction activities may occur on a specific plot.

(10) "Local issuing authority" means the governing authority of any county or municipality which is certified pursuant to subsection (a) of Code Section 12-7-8.

(10.1) "Maintenance" means actions necessary or appropriate for retaining or restoring a currently serviceable improvement to the specified operable condition to achieve its maximum

useful life. Maintenance includes emergency reconstruction of recently damaged parts of a currently serviceable structure so long as it occurs within a reasonable period of time after damage occurs. Maintenance does not include any modification that changes the character, scope, or size of the original design.

(10.2) "Manual for Erosion and Sediment Control in Georgia" or "manual" means the published guidance of the commission governing the design and practices to be utilized in the protection of this state's natural resources from erosion and sedimentation which shall be based foremost upon sound engineering principles and repeatable bench and field testing of structural and vegetative best management practices and which shall have the annual approval of the Erosion and Sediment Control Overview Council established pursuant to Code Section 12-7-7.1.

(10.3) "Operator" means the party or parties that have:

(A) Operational control of construction project plans and specifications, including the ability to make modifications to those plans and specifications; or

(B) Day-to-day operational control of those activities that are necessary to ensure compliance with a storm-water pollution prevention plan for the site or other permit conditions, such as a person authorized to direct workers at a site to carry out activities required by the storm-water pollution prevention plan or to comply with other permit conditions.

(11) "Person" means any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, state agency, municipality or other political subdivision of this state, any interstate body, or any other legal entity.

(12) "Qualified personnel" means any person who meets or exceeds the education and training requirements of Code Section 12-7-19.

(13) "Roadway drainage structure" means a device, such as a bridge, culvert, or ditch, composed of a virtually non-erodible material such as concrete, steel, plastic, or other such material that conveys water under a roadway by intercepting the flow on one side of a traveled way consisting of one or more defined lanes, with or without shoulder areas, and carrying water to a release point on the other side.

(13.1) "Serviceable" means usable in its current state or with minor maintenance but not so degraded as to essentially require reconstruction.

(14) "Soil and water conservation district approved plan" means an erosion and sediment control plan approved in writing by a soil and water conservation district.

(15) "State general permit" means the National Pollution Discharge Elimination System general permit or permits for storm-water runoff from construction activities as is now in effect or as may be amended or reissued in the future pursuant to the state's authority to implement the same through federal delegation under the Federal Water Pollution Control Act, as amended, 33 U.S.C. Section 1251, et seq., and subsection (f) of Code Section 12-5-30.

(16) "State waters" includes any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the state, which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

**§ 12-7-4. Adoption of comprehensive ordinances relating to land-disturbing activities; delegation of responsibility to planning and zoning commission; other local ordinances relating to land development; effect of chapter on design professionals**

(a) The governing authority of each county and each municipality shall adopt a comprehensive ordinance establishing the procedures governing land-disturbing activities which are conducted within their respective boundaries. Such ordinances shall be consistent with the standards provided by this chapter. Local governing authorities shall have the authority, by such ordinance, to delegate in whole or in part the responsibilities of the governing authorities, as set forth in this chapter, to any constitutional or statutory local planning and zoning commission. Where the local governing authority deems it appropriate, it may integrate such provisions with other local ordinances relating to land development including but not limited to tree protection, flood plain protection, stream buffers, or storm-water management; and the properties to which any of the types of ordinances identified in this Code section shall apply, whether or not such ordinances are integrated, shall include without limitation property owned by the local governing authority or by a local school district, except as otherwise provided by Code Section 12-7-17.

(b) Nothing in this chapter shall be construed as to limit or exclude any design professional, including but not limited to any professional engineer or registered land surveyor, or Natural Resource Conservation Service employee, within any county, municipality, or consolidated government in this state from performing such professional services as may be incidental to the practice of his or her profession, including any and all soil erosion and sedimentation control plans, storm-water management reports including hydrological studies, and site plans, when such professional has demonstrated competence through such qualifications, education, experience, and licensing as required for practice in this state by applicable provisions of Title 43 related to such profession; provided, however, that any such person shall be subject to the requirements of Code Section 12-7-19.

#### **§ 12-7-5. Adoption of rules and regulations for localities without ordinances**

The board, by appropriate rules and regulations, shall adopt the procedures governing land-disturbing activities which are conducted in those counties and municipalities which do not have in effect an ordinance conforming to this chapter. Such rules and regulations shall be developed by the division in consultation with the commission and shall contain provisions which meet those minimum requirements set forth in Code Section 12-7-6.

#### **§ 12-7-6. Best management practices; minimum requirements for rules, regulations, ordinances, or resolutions**

(a) (1) Best management practices as set forth in subsection (b) of this Code section shall be required for all land-disturbing activities. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the director or to any other allegation of noncompliance with paragraph (2) of this subsection or any substantially similar terms contained in a permit for the discharge of storm water issued pursuant to subsection (f) of Code Section 12-5-30. As used in this subsection, the terms "proper design" and "properly designed" mean designed in accordance with the hydraulic design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" specified in subsection (b) of this Code section.

(2) A discharge of storm-water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation of any land-disturbing permit issued by a local issuing authority or of any state general permit issued by the division pursuant to subsection (f) of Code Section 12-5-30 for each day on which such discharge results in the turbidity of receiving waters being increased by more than 25 nephelometric turbidity units for waters supporting warm water fisheries or by more than ten nephelometric turbidity units for waters classified as trout waters. The turbidity of the receiving waters shall be measured in accordance with guidelines to be issued by the director. This

paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a larger common plan of development or sale unless the planned disturbance for such construction is equal to or greater than five acres.

(3) Failure properly to design, install, or maintain best management practices shall constitute a violation of any land-disturbing permit issued by a local issuing authority or of any state general permit issued by the division pursuant to subsection (f) of Code Section 12-5-30 for each day on which such failure occurs.

(4) The director may require, in accordance with regulations adopted by the board, reasonable and prudent monitoring of the turbidity level of receiving waters into which discharges from land-disturbing activities occur.

(b) The rules and regulations, ordinances, or resolutions adopted pursuant to this chapter for the purpose of governing land-disturbing activities shall require, as a minimum, protections at least as stringent as the state general permit; and best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control In Georgia" published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, as well as the following:

(1) Stripping of vegetation, regrading, and other development activities shall be conducted in such a manner so as to minimize erosion;

(2) Cut and fill operations must be kept to a minimum;

(3) Development plans must conform to topography and soil type, so as to create the lowest practicable erosion potential;

(4) Whenever feasible, natural vegetation shall be retained, protected, and supplemented;

(5) The disturbed area and the duration of exposure to erosive elements shall be kept to a practicable minimum;

(6) Disturbed soil shall be stabilized as quickly as practicable;

(7) Temporary vegetation or mulching shall be employed to protect exposed critical areas

during development;

(8) Permanent vegetation and structural erosion control measures must be installed as soon as practicable;

(9) To the extent necessary, sediment in run-off water must be trapped by the use of debris basins, sediment basins, silt traps, or similar measures until the disturbed area is stabilized. As used in this paragraph, a disturbed area is stabilized when it is brought to a condition of continuous compliance with the requirements of this chapter;

(10) Adequate provisions must be provided to minimize damage from surface water to the cut face of excavations or the sloping surfaces of fills;

(11) Cuts and fills may not endanger adjoining property;

(12) Fills may not encroach upon natural watercourses or constructed channels in a manner so as to adversely affect other property owners;

(13) Grading equipment must cross flowing streams by the means of bridges or culverts, except when such methods are not feasible, provided, in any case, that such crossings must be kept to a minimum;

(14) Land-disturbing activity plans for erosion and sedimentation control shall include provisions for treatment or control of any source of sediments and adequate sedimentation control facilities to retain sediments on site or preclude sedimentation of adjacent waters beyond the levels specified in subsection (a) of this Code section;

(15) (A) There is established a 25 foot buffer along the banks of all state waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, except:

(i) As provided by paragraphs (16) and (17) of this subsection;

(ii) Where the director determines to allow a variance that is at least as protective of natural resources and the environment;

(iii) Where otherwise allowed by the director pursuant to Code Section 12-2-8;

(iv) Where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented;

(v) Along any ephemeral stream. As used in this division, the term "ephemeral stream" means a stream:

(I) That under normal circumstances has water flowing only during and for a short duration after precipitation events;

(II) That has the channel located above the ground-water table year round;

(III) For which ground water is not a source of water; and

(IV) For which runoff from precipitation is the primary source of water flow; or

(vi) Where shoreline stabilization is installed; provided, however, that this exception shall be limited to the construction of bulkheads and sea walls only to the extent required to prevent the erosion of the shoreline. This exception shall be limited to Lake Oconee and Lake Sinclair and shall be limited to the duration of such construction.

Unless exempted under division (v) of this subparagraph, buffers of at least 25 feet established pursuant to Part 6 of Article 5 of Chapter 5 of this title shall remain in force unless a variance is granted by the director as provided in this paragraph.

(B) No land-disturbing activities shall be conducted within any such buffer; and a buffer shall remain in its natural, undisturbed state of vegetation until all land-disturbing activities on the construction site are completed, except as otherwise provided by this paragraph. Once the final stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation as long as a protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; provided, however, that any person constructing a single-family residence, when such residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time as long as protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed.

(C) On or before December 31, 2004, the board shall adopt rules which contain specific

criteria for the grant or denial by the director of requests for variances. After such date, no variance shall be granted by the director which is not consistent with the criteria contained in such rules. Such rules shall provide, at a minimum, that the director shall consider granting a variance in the following circumstances:

(i) Where a proposed land-disturbing activity within the buffer would require the landowner to acquire a permit from the United States Army Corps of Engineers under Section 404 of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1344, and the Corps of Engineers has approved a mitigation plan to be implemented as a condition of such a permit;

(ii) Where the landowner provides a plan satisfactory to the director that shows that, even with the proposed land-disturbing activity within the buffer, the completed project will result in maintained or improved water quality downstream of the project; or

(iii) Where a project with a proposed land-disturbing activity within the buffer is located in or upstream and within ten linear miles of a stream segment listed as impaired under Section 303(d) of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1313(d) and the landowner provides a plan satisfactory to the director that shows that the completed project will result in maintained or improved water quality in such listed stream segment and that the project has no adverse impact relative to the pollutants of concern in such stream segment.

All projects covered under divisions (i), (ii), and (iii) of this subparagraph shall meet all criteria set forth in rules for specific variance criteria adopted by the board by December 31, 2004.

(D) The buffer shall not apply to the following land-disturbing activities, provided that they occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream; cause a width of disturbance of not more than 50 feet within the buffer; and adequate erosion control measures are incorporated into the project plans and specifications and are implemented:

(i) Stream crossings for water lines; or

(ii) Stream crossings for sewer lines;

(16) There is established a 50 foot buffer, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, along the banks of any

state waters classified as "trout streams" pursuant to Article 2 of Chapter 5 of this title except where a roadway drainage structure must be constructed; provided, however, that small springs and streams classified as trout streams which discharge an average annual flow of 25 gallons per minute or less shall have a 25 foot buffer or they may be piped, at the discretion of the landowner, pursuant to the terms of a rule providing for a general variance promulgated by the board providing for notice to the division or local issuing authority of the location and extent of the piping and prescribed methodology for minimizing the impact of such piping and for measuring the volume of water discharged by the stream. Any such pipe must stop short of the downstream landowner's property, and the landowner must comply with the buffer requirement for any adjacent trout streams. The director may grant a variance from such buffer to allow land-disturbing activity, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented. The following requirements shall apply to any such buffer:

(A) No land-disturbing activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. Once the final stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation as long as a protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; provided, however, that any person constructing a single-family residence, when such residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time as long as protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed;

(B) On or before December 31, 2000, the board shall adopt rules which contain specific criteria for the grant or denial by the director of requests for variances. After such date, no variance shall be granted by the director which is not consistent with the criteria contained in such rules; provided, however, that, should the board fail to adopt rules which contain specific criteria for the grant or denial of requests for variances by the director on or before December 31, 2000, the authority of the director to issue such variances shall be suspended until the board adopts such rules; and

(C) The buffer shall not apply to the following land-disturbing activities, provided that they occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream; cause a width of disturbance of not more than 50 feet within the buffer; and adequate erosion control measures are incorporated into the project plans and specifications and are implemented:

(i) Stream crossings for water lines; or

(ii) Stream crossings for sewer lines; and

(17) (A) There is established a 25 foot buffer along coastal marshlands, as measured horizontally from the coastal marshland-upland interface, as determined in accordance with Part 4 of Article 4 of Chapter 5 of this title, the "Coastal Marshlands Protection Act of 1970," and the rules and regulations promulgated thereunder, except:

(i) Where the director determines to allow a variance that is at least as protective of natural resources and the environment;

(ii) Where otherwise allowed by the director pursuant to Code Section 12-2-8;

(iii) Where an alteration within the buffer area has been authorized pursuant to Code Section 12-5-286;

(iv) For maintenance of any currently serviceable structure, landscaping, or hardscaping, including bridges, roads, parking lots, golf courses, golf cart paths, retaining walls, bulkheads, and patios; provided, however, that if such maintenance requires any land-disturbing activity, adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented;

(v) Where a drainage structure or roadway drainage structure is constructed or maintained; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented;

(vi) On the landward side of any currently serviceable shoreline stabilization structure; and

(vii) For the maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented.

(B) No land-disturbing activity shall be conducted within any such buffer and a buffer shall remain in its current, undisturbed state of vegetation until all land-disturbing activities on the construction site are completed, except as otherwise provided by this paragraph. Once the final

stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation so long as a protective vegetative cover remains to protect water quality and aquatic habitat; provided, however, that any person constructing a single-family residence, when such residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time so long as a protective vegetative cover remains to protect water quality and aquatic habitat.

(C) On or before December 31, 2015, the board shall promulgate rules and regulations that:

(i) Contain criteria for the grant or denial by the director of requests for variances pursuant to this paragraph, including where an alteration within the buffer area has been authorized pursuant to a permit issued by the United States Army Corps of Engineers under Section 404 of the Federal Water Pollution Control Act of 1972, as amended, or Section 10 of the Rivers and Harbors Act of 1899; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; and

(ii) Provide for variances by rule, subject to specified conditions, for certain categories of activities within the buffer that will have minimal impact on the water quality or aquatic habitat of the adjacent marsh, including where the area within the buffer is not more than 500 square feet; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented.

(D) The board may adopt rules and regulations that provide for an expedited process for certain categories of activities within the buffer based on the size, scope, location, and character of the proposed activity within the buffer.

(E) The buffer requirements of this paragraph shall not apply to crossings for utility lines that cause a width of disturbance of not more than 50 feet within the buffer; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented.

(F) The buffer shall not apply to:

(i) Any land-disturbing activity conducted pursuant to and in compliance with a valid and effective land-disturbing permit issued subsequent to April 22, 2014, and prior to December 31, 2015; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or

(ii) Any lot for which the preliminary plat has been approved prior December 31, 2015, if roadways, bridges, or water and sewer lines have been extended to such lot prior December 31, 2015, and if the requirement to maintain a 25 foot buffer would consume at least 18 percent of the high ground of the platted lot otherwise available for development; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented.

(c) Nothing contained in this chapter shall prevent any local issuing authority from adopting rules and regulations, ordinances, or resolutions which contain stream buffer requirements that exceed the minimum requirements in subsection (b) of this Code section.

(d) The fact that land-disturbing activity for which a permit has been issued results in injury to the property of another shall neither constitute proof of nor create a presumption of a violation of the standards provided for in this Code section or the terms of the permit.

**§ 12-7-7. Permit or notice of intent required for land-disturbing activities; approval of application and issuance of permit; denial of permit; bond requirement**

(a) No land-disturbing activities shall be conducted in this state, except those land-disturbing activities provided for in Code Section 12-7-17, without the operator first securing a permit from a local issuing authority or providing notice of intent to the division as required by this Code section.

(b) In those counties and municipalities which are certified as local issuing authorities pursuant to subsection (a) of Code Section 12-7-8:

(1) The application for such permit shall be made to and the permit shall be issued by the governing authority of the county wherein such land-disturbing activities are to occur, in the event that such activities will occur outside the corporate limits of a municipality;

(2) In those instances where such activities will occur within the corporate limits of any municipality, the application for such permit shall be made to and the permit shall be issued by the governing authority of the municipality in which such land-disturbing activities are to occur; and

(3) The local issuing authority shall conduct inspections and enforce the permits it issues.

(c) In those counties and municipalities which are not certified pursuant to subsection (a) of

Code Section 12-7-8, the terms of the state general permit shall apply, those terms shall be enforced by the division, and no individual land-disturbing activity permit under this Code section will be required; provided, however, that notice of intent shall be submitted to the division prior to commencement of any land-disturbing activities under the state general permit in any of such uncertified counties or municipalities.

(d) (1) Fees assessed pursuant to paragraph (5) of subsection (a) of Code Section 12-5-23 shall be calculated and paid by the primary permittee as defined in the state general permit for each acre of land-disturbing activity included in the planned development or each phase of development.

(2) In a jurisdiction that is certified pursuant to subsection (a) of Code Section 12-7-8, half of any such fees levied shall be submitted by the applicant to the local issuing authority and half of such fees shall be submitted to the division; except that any and all fees due from an entity which is required to give notice pursuant to paragraph (9) or (10) of Code Section 12-7-17 shall be submitted in full to the division, regardless of the existence of a local issuing authority in the jurisdiction. In a jurisdiction where there is no local issuing authority, the full fee shall be submitted to the division.

(e) Except as provided in this subsection, no permit shall be issued pursuant to subsection (b) of this Code section unless the erosion and sediment control plan has been approved by the appropriate district as is required by Code Section 12-7-10. When the governing authority of a county or municipality lying within the boundaries of the district demonstrates capabilities to review and approve an erosion and sediment control plan and requests an agreement with the district to conduct such review and approval, the district, with the concurrence of the commission, shall enter into an agreement which allows the governing authority to conduct review and approval without referring the application and plan to the district, if such governing authority meets the conditions specified by the district as set forth in the agreement. A district may not enter into an agreement authorized in this Code section with the governing authority of any county or municipality which is not certified pursuant to subsection (a) of Code Section 12-7-8.

(f) (1) If a permit applicant has had two or more violations of previous permits or this Code section within three years prior to the date of filing of the application under consideration, the local issuing authority may deny the permit application.

(2) The local issuing authority may require the permit applicant to post a bond in the form of government security, cash, irrevocable letter of credit, or any combination thereof up to, but

not exceeding, \$3,000.00 per acre of the proposed land-disturbing activity, prior to issuing the permit. If the applicant does not comply with this Code section or with the conditions of the permit after issuance, the local issuing authority may call the bond or any part thereof to be forfeited and may use the proceeds to hire a contractor to stabilize the site of the land-disturbing activity and bring it into compliance. This subsection shall not apply unless there is in effect an ordinance or statute specifically providing for hearing and judicial review of any determination or order of the local issuing authority with respect to alleged permit violations.

**§ 12-7-7.1. Erosion and sediment control plan prepared; completion; implementation**

(a) As used in this Code section, the term "contractor" means the individual, firm, corporation, or combination thereof or governmental organization contracting with the Department of Transportation or State Road and Tollway Authority for the performance of prescribed work.

(b) (1) In addition to the requirements of Code Section 12-7-6, the Department of Transportation or the State Road and Tollway Authority after July 1, 2003, shall not contract for land-disturbing activity on any construction or maintenance project that will disturb one or more contiguous acres of land until an erosion and sediment control plan for such project has been prepared and accepted pursuant to this Code section.

(2) Through its own forces or by means of the acquisition of professional service pursuant to the provisions of Chapter 22 of Title 50, the Department of Transportation or the State Road and Tollway Authority shall be responsible for the preparation of an erosion and sediment control plan for any construction or maintenance project as required by paragraph (1) of this subsection. Any consultant providing such professional service shall be prequalified by the Department of Transportation as a responsible bidder for the design of erosion and sediment control plans. The division shall assist the Department of Transportation in developing the prequalification approval process for purposes of this subsection.

(c) Upon completion of a proposed plan, the same shall be submitted to the division for review and comment as required by the state general permit.

(d) (1) All bidders for any construction or maintenance project subject to this Code section shall review and submit with their bid proposal a cost estimate as a separate bid for the implementation of the plan, it being understood that the contractor may utilize either its own personnel and resources, qualified subcontractors, or both for implementation of the plan. All contractors and subcontractors for such project shall be prequalified by the Department of Transportation as a responsible bidder for the installation of erosion and sediment control devices in accordance with a plan. The division shall assist the Department of Transportation in

developing the prequalification approval process for purposes of this subsection.

(2) The contractor for a construction or maintenance project subject to this Code section shall be responsible for implementing the plan on the awarded project. Payment to any contractor under any contract for implementing any part or all of any plan shall not be on a lump sum basis; rather, such payment shall be based upon unit prices for specific quantities of work performed pursuant to the approved erosion and sediment control plan plus any additional quantities of completed work necessitated by project conditions affecting erosion and sediment control, including without limitation soil types and weather conditions. Charges for all maintenance and cleaning of erosion and sediment control devices shall likewise be paid on a unit price basis.

(e) (1) Through the services of independent consultants, contractors, or subcontractors, or by its own forces, the Department of Transportation shall monitor the water quality and inspect the installation and maintenance of the best management practices in accordance with the plan. All such consultants, contractors, or subcontractors shall be prequalified by the Department of Transportation as a responsible bidder for the inspection of such best management practices and shall have the necessary expertise to determine that such practices are being installed and maintained in accordance with the plan. The division shall assist the Department of Transportation in developing the prequalification approval process for purposes of this subsection.

(2) Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the director or to any other allegation of noncompliance with paragraph (2) of subsection (a) of Code Section 12-7-6.

(3) If deficiencies in the plan or installation or maintenance of best management practices are discovered during the inspection, the Department of Transportation or the State Road and Tollway Authority shall determine the appropriate corrective action. Further, the Department of Transportation or State Road and Tollway Authority may require the consultant to amend the plan or the contractor to change its procedures by change order or supplemental agreement in order to institute such changes as may be necessary to correct any errors or deficiencies in the plan, the implementation of the plan, or the maintenance of the best management practices.

(4) The division, the Department of Transportation, or the State Road and Tollway Authority shall control or coordinate the work of its employees inspecting any project so as to prevent any delay of, interference with, or hindrance to any contractor performing land-disturbing

activity on any project subject to the provisions of this Code section.

(f) (1) There shall be an Erosion and Sediment Control Overview Council which shall approve the Manual for Erosion and Sediment Control in Georgia prior to publication by the commission. In addition, the council shall provide guidance on the best management practices for implementing any erosion and sediment control plan for purposes of this Code section. The council shall be composed of nine members, including one member of the House of Representatives who shall be appointed by the Speaker of the House of Representatives and serve at the pleasure thereof; one member of the Senate who shall be appointed by the Lieutenant Governor and serve at the pleasure thereof; and seven members who shall be appointed by the Governor and serve at the pleasure thereof, including one employee each from the Department of Transportation, the Environmental Protection Division of the Department of Natural Resources, and the State Road and Tollway Authority, a professional engineer licensed to practice in this state from a private engineering consulting firm practicing environmental engineering, one representative of the highway contracting industry certified by the Department of Transportation, one representative of the electric utility industry, and a chairperson. The council shall meet prior to December 1, 2015, to approve the most current version of the manual and at all other times as necessary to approve any subsequent changes or updates to the manual prior to its implementation. Such meetings shall be held at the call of the chairperson. Each councilmember shall receive a daily allowance in the amount specified in subsection (b) of Code Section 45-7-21; provided, however, that any full-time state employee serving on the council shall draw no compensation but shall receive necessary expenses. The commissioner is authorized to pay such compensation and expenses from department funds.

(2) The council may develop recommendations governing the preparation of plans and the installation and maintenance of best management practices. If a dispute concerning the requirements of this Code section should arise, the Erosion and Sediment Control Overview Council shall mediate the dispute.

(g) Nothing in this Code section shall be construed to affect the division's authority under Article 2 of Chapter 5 of this title, the "Georgia Water Quality Control Act."

**§ 12-7-8. Certification of locality as local issuing authority; periodic review; procedure for revoking certification; enforcement actions**

(a) (1) If a county or municipality has enacted ordinances which meet or exceed the standards, requirements, and provisions of this chapter and the state general permit, except that the standards, requirements, and provisions of the ordinances for monitoring, reporting, inspections, design standards, turbidity standards, education and training, and project size

thresholds with regard to education and training requirements shall not exceed the state general permit requirements, and which are enforceable by such county or municipality, and if a county or municipality documents that it employs qualified personnel to implement enacted ordinances, the director may certify such county or municipality as a local issuing authority for the purposes of this chapter.

(2) A local issuing authority shall regulate both primary and secondary permittees as such terms are defined in the state general permit. Primary permittees shall be responsible for installation and maintenance of best management practices where the primary permittee is conducting land-disturbing activities. Secondary permittees shall be responsible for installation and maintenance of best management practices where the secondary permittee is conducting land-disturbing activities. A local issuing authority must review, revise, or amend its ordinances within 12 months of any amendment to this chapter.

(3) Any land-disturbing activities by a local issuing authority shall be subject to the same requirements of the ordinances such local issuing authority adopted pursuant to this chapter as are applied to private persons, and the division shall enforce such requirements upon the local issuing authority.

(b) The districts or the commission or both shall review semi-annually the actions of counties and municipalities which have been certified as local issuing authorities pursuant to subsection (a) of this Code section. The districts or the commission or both may provide technical assistance to any county or municipality for the purpose of improving the effectiveness of the county's or municipality's erosion and sedimentation control program. The districts or the commission shall notify the division and request investigation by the division if any deficient or ineffective local program is found.

(c) The board, on or before December 31, 2003, shall promulgate rules and regulations setting forth the requirements and standards for certification and the procedures for decertification of a local issuing authority. The division may periodically review the actions of counties and municipalities which have been certified as local issuing authorities pursuant to subsection (a) of this Code section. Such review may include, but shall not be limited to, review of the administration and enforcement of and compliance with a governing authority's ordinances and review of conformance with an agreement, if any, between the district and the governing authority. If such review indicates that the governing authority of any county or municipality certified pursuant to subsection (a) of this Code section has not administered, enforced, or complied with its ordinances or has not conducted the program in accordance with any agreement entered into pursuant to subsection (e) of Code Section 12-7-7, the division shall

notify the governing authority of the county or municipality in writing. The governing authority of any county or municipality so notified shall have 90 days within which to take the necessary corrective action to retain certification as a local issuing authority. If the county or municipality does not take necessary corrective action within 90 days after notification by the division, the division shall revoke the certification of the county or municipality as a local issuing authority.

(d) The director may determine that the public interest requires initiation of an enforcement action by the division. Where such a determination is made and the local issuing authority has failed to secure compliance, the director may implement the board's rules and seek compliance under provisions of Code Sections 12-7-12 through 12-7-15. For purposes of this subsection, enforcement actions taken by the division pursuant to Code Sections 12-7-12 through 12-7-15 shall not require prior revocation of certification of the county or municipality as a local issuing authority.

**§ 12-7-9. Applications for permits; erosion and sediment control plans and data; time for issuance or denial**

(a) Applications for permits shall be submitted in accordance with this chapter and the rules and regulations, ordinances, and resolutions adopted pursuant to this chapter. Such applications shall be accompanied by the applicant's erosion and sediment control plans and by such supportive data as will affirmatively demonstrate that the land-disturbing activity proposed will be carried out in such a manner that the minimum requirements set forth in Code Section 12-7-6 shall be met. All applications shall contain a certification stating that the plan preparer or the designee thereof visited the site prior to creation of the plan or that such a visit was not required in accordance with rules and regulations established by the board.

(b) No permit shall be issued to any applicant unless the local issuing authority affirmatively determines that the plan embracing such activities meets the requirements of Code Section 12-7-6. All applicable fees shall be paid prior to issuance of the land disturbance permit by the local issuing authority.

(c) Permits shall be issued or denied as soon as practicable after the application therefor has been filed with the local issuing authority, but in any event not later than 45 days thereafter.

**§ 12-7-10. Referral of application and plan to district; time for action**

Except as otherwise provided by Code Section 12-7-7, immediately upon receipt of an application for a permit the application and plan for sediment and erosion control shall be referred to the appropriate district wherein such land-disturbing activities are proposed to take

place, for its review and approval or disapproval concerning the adequacy of the erosion and sediment control plan proposed by the applicant. A district shall approve or disapprove a plan within 35 days of receipt. Failure of a district to act within 35 days shall be considered an approval of the pending plan.

**§ 12-7-11. Statement of reasons for denial of permit required; conditions for approval; suspension, revocation, or modification of permit**

(a) Within the time specified by Code Section 12-7-9, the local issuing authority shall issue or deny the permit. The local issuing authority, upon denial of a permit, shall state its reasons for the denial, setting forth specifically wherein such application is found to be deficient. Any land-disturbing activity permitted under this chapter shall be carried out in accordance with this chapter and the ordinance, resolution, or rules and regulations adopted and promulgated pursuant to this chapter. The local issuing authority shall specify on the permit the conditions under which the activity may be undertaken.

(b) The permit may be suspended, revoked, or modified by the local issuing authority, as to all or any portion of the land affected by the plan, upon a finding that the holder or his or her successor in title is not in compliance with the approved erosion and sediment control plan or that the holder or his or her successor in title is in violation of this chapter or any ordinance, resolution, rule, or regulation adopted or promulgated pursuant to this chapter. A holder of a permit shall notify any successor in title to him or her as to all or any portion of the land affected by the approved plan of the conditions contained in the permit.

**§ 12-7-12. Orders directed to violators; stop work order procedures**

(a) Except as provided in subsection (d) of this Code section, whenever the director has reason to believe that a violation of any provision of this chapter, any rule or regulation of the board, or any order of the director has occurred in a county or municipality which is not certified pursuant to subsection (a) of Code Section 12-7-8, the director may issue an order directed to such violator or violators. The order shall specify the provisions of this chapter or the rules or regulations or order alleged to have been violated and may require that land-disturbing activity be stopped until necessary corrective action and mitigation have been taken or may require that necessary corrective action and mitigation be taken within a reasonable time to be prescribed in the order. Any order issued by the director under this Code section shall be signed by the director. Any such order shall become final unless the person or persons named therein request, in writing, a hearing pursuant to Code Section 12-7-16.

(b) Except as provided in subsection (d) of this Code section, whenever a local issuing

authority has reason to believe that a violation of any provision of a local ordinance or resolution has occurred within the jurisdiction of the local issuing authority, the local issuing authority may require that land-disturbing activity be stopped until necessary corrective action and mitigation have been taken or may require that necessary corrective action and mitigation be taken within a reasonable time.

(c) The following procedures shall apply to the issuances of stop work orders:

(1) For the first and second violations of the provisions of this chapter, the director or the local issuing authority shall issue a written warning to the violator. The violator shall have five days to correct the violation. If the violation is not corrected within five days, the director or local issuing authority shall issue a stop work order requiring that land-disturbing activities be stopped until necessary corrective action or mitigation has occurred; provided, however, that, if the violation presents an imminent threat to public health or waters of the state, the director or local issuing authority shall issue an immediate stop work order in lieu of a warning;

(2) For a third and each subsequent violation, the director or local issuing authority shall issue an immediate stop work order; and

(3) All stop work orders shall be effective immediately upon issuance and shall be in effect until the necessary corrective action or mitigation has occurred.

(d) When a violation of this chapter in the form of taking action without a permit, failure to maintain a stream buffer, or significant amounts of sediment, as determined by the local issuing authority or by the director or his or her designee, have been or are being discharged into state waters and where best management practices have not been properly designed, installed, and maintained, a stop work order shall be issued by the local issuing authority or by the director or his or her designee. All such stop work orders shall be effective immediately upon issuance and shall be in effect until the necessary corrective action or mitigation has occurred. Such stop work orders shall apply to all land-disturbing activity on the site with the exception of the installation and maintenance of temporary or permanent erosion and sediment controls.

### **§ 12-7-13. Injunctions**

Whenever, in the judgment of the director, any person has engaged in or is about to engage in any act or practice which constitutes or would constitute a violation of this chapter, the rules and regulations adopted pursuant to this chapter, or any order or permit conditions in a county or municipality which is not certified pursuant to subsection (a) of Code Section 12-7-8, he or she may make application to the superior court of the county where such person resides or, if

such person is a nonresident of the state, to the superior court of the county in which the violative act or practice has been or is about to be engaged in for an order enjoining such act or practice or for an order requiring compliance with this chapter, the rules and regulations adopted pursuant to this chapter, or the order or permit condition. Upon a showing by the director that such person has engaged in or is about to engage in any such violative act or practice, a permanent or temporary injunction, restraining order, or other order shall be granted without the necessity of showing the lack of an adequate remedy at law.

**§ 12-7-14. Actions to restrain imminent danger; emergency orders; duration of effectiveness of orders**

(a) Notwithstanding any other provision of this chapter to the contrary, upon receipt of evidence that certain land-disturbing activities occurring in a municipality or county which is not certified pursuant to subsection (a) of Code Section 12-7-8 are presenting an imminent and substantial danger to the environment or to the health of humans, the director may bring an action as provided in Code Section 12-7-13 to restrain immediately any person causing or contributing to the danger caused by such land-disturbing activities or to take such other action as may be necessary.

(b) If it is not practicable to assure prompt protection of the environment or the health of humans solely by commencement of such a civil action, the director may issue such emergency orders as may be necessary to protect the environment or the health of humans who are or may be affected by such land-disturbing activities. Notwithstanding any other provision of this chapter, such order shall be immediately effective for a period of not more than 48 hours, unless the director brings an action under subsection (a) of this Code section before the expiration of such period. Whenever the director brings such an action within such period, such order shall be effective for such period of time as may be authorized by the court pending litigation or thereafter.

**§ 12-7-15. Civil penalty**

Any person who violates any provision of this chapter, the rules and regulations adopted pursuant to this chapter, or any permit condition or limitation established pursuant to this chapter or who negligently or intentionally fails or refuses to comply with any final or emergency order of the director issued as provided in this chapter shall be liable for a civil penalty not to exceed \$2,500.00 per day. For the purpose of enforcing the provisions of this chapter, notwithstanding any provision in any city charter to the contrary, municipal courts shall be authorized to impose a penalty not to exceed \$2,500.00 for each violation. Notwithstanding any limitation of law as to penalties which can be assessed for violations of

county ordinances, any magistrate court or any other court of competent jurisdiction trying cases brought as violations of this chapter under county ordinances approved under this chapter shall be authorized to impose penalties for such violations not to exceed \$2,500.00 for each violation. Each day during which the violation or failure or refusal to comply continues shall be a separate violation.

#### **§ 12-7-16. Hearings and review**

All hearings on and review of contested matters, orders, or permits issued by or filed against the director and all hearings on and review of any other enforcement actions or orders initiated by the director under this chapter shall be provided and conducted in accordance with subsection (c) of Code Section 12-2-2. The hearing and review procedure provided in this Code section is to the exclusion of all other means of hearings or review.

#### **§ 12-7-17. Exemptions**

This chapter shall not apply to the following activities:

- (1) Surface mining, as the same is defined in Code Section 12-4-72;
- (2) Granite quarrying and land clearing for such quarrying;
- (3) Such minor land-disturbing activities as home gardens and individual home landscaping, repairs, maintenance work, fences, and other related activities which result in minor soil erosion;
- (4) The construction of single-family residences, when such construction disturbs less than one acre and is not a part of a larger common plan of development or sale with a planned disturbance of equal to or greater than one acre and not otherwise exempted under this paragraph; provided, however, that construction of any such residence shall conform to the minimum requirements as set forth in subsection (b) of Code Section 12-7-6 and this paragraph. For single-family residence construction covered by the provisions of this paragraph, there shall be a buffer zone between the residence and any state waters classified as trout streams pursuant to Article 2 of Chapter 5 of this title. In any such buffer zone, no land-disturbing activity shall be constructed between the residence and the point where vegetation has been wrested by normal stream flow or wave action from the banks of the trout waters. For primary trout waters, the buffer zone shall be at least 50 horizontal feet, and no variance to a smaller buffer shall be granted. For secondary trout waters, the buffer zone shall be at least 50 horizontal feet, but the director may grant variances to no less than 25 feet. Regardless of

whether a trout stream is primary or secondary, for first order trout waters, which are streams into which no other streams flow except for springs, the buffer shall be at least 25 horizontal feet, and no variance to a smaller buffer shall be granted. The minimum requirements of subsection (b) of Code Section 12-7-6 and the buffer zones provided by this paragraph shall be enforced by the issuing authority;

(5) Agricultural operations as defined in Code Section 1-3-3 to include those practices involving the establishment, cultivation, or harvesting of products of the field or orchard; the preparation and planting of pasture land; farm ponds; dairy operations; livestock and poultry management practices; and the construction of farm buildings;

(6) Forestry land management practices, including harvesting; provided, however, that when such exempt forestry practices cause or result in land-disturbing or other activities otherwise prohibited in a buffer, as established in paragraphs (15) and (16) of subsection (b) of Code Section 12-7-6, no other land-disturbing activities, except for normal forest management practices, shall be allowed on the entire property upon which the forestry practices were conducted for a period of three years after the completion of such forestry practices;

(7) Any project carried out under the technical supervision of the Natural Resources Conservation Service of the United States Department of Agriculture;

(8) Any project involving less than one acre of disturbed area; provided, however, that this exemption shall not apply to any land-disturbing activity within a larger common plan of development or sale with a planned disturbance of equal to or greater than one acre or within 200 feet of the bank of any state waters, and for purposes of this paragraph, "state waters" excludes channels and drainage ways which have water in them only during and immediately after rainfall events and intermittent streams which do not have water in them year round; provided, however, that any person responsible for a project which involves less than one acre, which involves land-disturbing activity, and which is within 200 feet of any such excluded channel or drainage way must prevent sediment from moving beyond the boundaries of the property on which such project is located and provided, further, that nothing contained in this chapter shall prevent a city or county which is a local issuing authority from regulating any such project which is not specifically exempted by paragraph (1), (2), (3), (4), (5), (6), (7), (9), or (10) of this Code section;

(9) Construction or maintenance projects, or both, undertaken or financed in whole or in part, or both, by the Department of Transportation, the Georgia Highway Authority, or the State Road and Tollway Authority; or any road construction or maintenance project, or both,

undertaken by any county or municipality; provided, however, that construction or maintenance projects of the Department of Transportation or the State Road and Tollway Authority which disturb one or more contiguous acres of land shall be subject to the provisions of Code Section 12-7-7.1; except where the Department of Transportation, the Georgia Highway Authority, or the State Road and Tollway Authority is a secondary permittee for a project located within a larger common plan of development or sale under the state general permit, in which case a copy of a notice of intent under the state general permit shall be submitted to the local issuing authority, the local issuing authority shall enforce compliance with the minimum requirements set forth in Code Section 12-7-6 as if a permit had been issued, and violations shall be subject to the same penalties as violations by permit holders;

(10) Any land-disturbing activities conducted by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission, or distribution of power; except where an electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission, or distribution of power is a secondary permittee for a project located within a larger common plan of development or sale under the state general permit, in which case the local issuing authority shall enforce compliance with the minimum requirements set forth in Code Section 12-7-6 as if a permit had been issued, and violations shall be subject to the same penalties as violations by permit holders; and

(11) Public water system reservoirs.

#### **§ 12-7-18. Effect of chapter on requirements of the "Georgia Water Quality Control Act."**

No provision of this chapter shall authorize any person to violate Article 2 of Chapter 5 of this title, the "Georgia Water Quality Control Act," or the rules and regulations promulgated and approved under said article or to pollute any waters of this state as defined in said article.

#### **§ 12-7-19. Education and training requirements; required programs; instructor qualifications; expiration of certification**

(a) (1) Persons involved in land development design, review, permitting, construction,

monitoring, or inspection or any land-disturbing activity shall meet the education and training certification requirements, dependent on his or her level of involvement with the process, as developed by the commission in accordance with this Code section and in consultation with the division and the Stakeholder Advisory Board created pursuant to Code Section 12-7-20.

(2) On or after May 14, 2007, for each site on which land-disturbing activity occurs, each entity or person acting as either a primary, secondary, or tertiary permittee, as defined in the state general permit, shall have as a minimum one person who is in responsible charge of erosion and sedimentation control activities on behalf of said entity or person and meets the applicable education or training certification requirements developed by the commission present on site whenever land-disturbing activities are conducted on that site. A project site shall herein be defined as any land disturbance site or multiple sites within a larger common plan of development or sale permitted by an owner or operator for compliance with the state general permit.

(3) Persons or entities involved in projects not requiring a state general permit but otherwise requiring certified personnel on site may contract with certified persons to meet the requirements of this chapter.

(4) If a state general permittee who has operational control of land-disturbing activities for a site has met the certification requirements of paragraph (1) of subsection (b) of this Code section, then any person or entity involved in land-disturbing activity at that site and operating in a subcontractor capacity for such permittee shall have until December 31, 2007, to meet those educational requirements specified in paragraph (4) of subsection (b) of Code Section 12-7-19 and shall not be required to meet any educational requirements that exceed those specified in said paragraph.

(b) No less than the following training programs shall be established:

(1) A fundamentals seminar (Level 1) will be established which provides sufficient training to all participants as to the applicable laws, requirements, processes, and latest means and methods recognized by this state to effectively control erosion and sedimentation;

(2) An advanced fundamentals seminar (Level 1) will be established which provides additional details of installation and maintenance of best management practices for both regulatory and non-regulatory inspectors and others;

(3) An introduction to design seminar (Level 2) will be established which provides required

training to design and review a successful erosion, sedimentation, and pollution control plan;

(4) An awareness seminar (Level 1) will be established which does not exceed two hours in duration and which provides information regarding the erosion and sediment control practices and processes in the state and which will include an overview of the systems, laws, and roles of the participants; and

(5) A trainer and instructor seminar will be established for both Level 1 and Level 2 trainers and instructors which will provide the minimum training as to applicable laws and best management practices and design of erosion, sedimentation, and pollution control plans in this state.

(c) Trainer and instructor qualifications will be established with the following minimum requirements:

(1) Level 1 trainers and instructors shall meet at least the following minimum requirements and any other requirements as set by the commission:

(A) Education: four-year college degree or five years' experience in the field of erosion and sediment control;

(B) Experience: five-years' experience in the field of erosion and sediment control. Where years of experience is used in lieu of the education requirement of subparagraph (A) of this paragraph, a total of ten years' field experience is required;

(C) Approval by the commission and the Stakeholder Advisory Board; and

(D) Successful completion of the Level 1 trainer and instructor seminar found in paragraph (5) of subsection (b) of this Code section; and

(2) Level 2 trainers and instructors shall meet at least the minimum requirements of a Level 1 trainer or instructor, any other requirements as set by the commission, and successful completion of the Level 2 trainer and instructor seminar created under paragraph (5) of subsection (b) of this Code section.

(d) In addition to the requirements of subsection (c) of this Code section, the commission shall establish and any person desirous of holding certification must obtain a passing grade as established by the Stakeholder Advisory Board on a final exam covering the material taught in

each mandatory seminar; provided, however, that there shall be no final exam requirement for purposes of paragraph (4) of subsection (b) of this Code section. Final exams may, at the discretion of the commission, serve in lieu of attendance at the seminar. Any person shall be authorized to administer a final examination for any seminar for which he or she was the instructor.

(e) (1) A certification provided by achieving the requirements established by the commission shall expire no later than three years after its issuance.

(2) A certified individual shall be required to attend and participate in at least four hours of approved continuing education courses, as established by the commission, every three years.

(3) A certification may be extended or renewed by meeting requirements established by the commission.

(4) Revocation procedures may be established by the commission in consultation with the division and the Stakeholder Advisory Board.

#### **§ 12-7-20. Creation of Stakeholder Advisory Board; responsibilities; procedures**

(a) There shall be a Stakeholder Advisory Board to consist of not more than 13 members.

(b) Members shall be appointed by the Governor, shall serve at the pleasure thereof, and shall represent the following interests:

(1) The division;

(2) The commission;

(3) Soil and water conservation districts;

(4) The Department of Transportation;

(5) Municipal governments;

(6) County governments;

(7) Public utilities;

- (8) The engineering and design community;
- (9) The construction community;
- (10) The development community;
- (11) The environmental community;
- (12) The Erosion and Sediment Control Overview Council; and
- (13) Educators.

(c) The Stakeholder Advisory Board shall elect one of its members as chairperson. The chairperson shall call all meetings of the Stakeholder Advisory Board.

(d) The Stakeholder Advisory Board shall be responsible for working together with the division and the commission to establish, evaluate, and maintain the education and training program established pursuant to Code Section 12-7-19, including but not limited to reviewing course curricula, educational materials, and exam and testing procedures; evaluating trainer and instructor qualifications; and reviewing audit results performed by the commission.

(e) The Stakeholder Advisory Board may conduct such meetings at such places and at such times as it may deem necessary or convenient to enable it to exercise fully and effectively its powers, perform its duties, and accomplish the objectives and purposes of this Code section. Meetings shall be held on the written notice of the chairperson. The notice of a meeting shall set forth the date, time, and place of the meeting. Minutes shall be kept of all meetings.

(f) A majority of the members shall constitute a quorum of the Stakeholder Advisory Board. The powers and duties of the Stakeholder Advisory Board shall be transacted, exercised, and performed only pursuant to an affirmative vote of a majority of those members present at a meeting at which a quorum is present.

(g) Members of the Stakeholder Advisory Board shall not be entitled to any compensation for the rendering of their services to the Stakeholder Advisory Board.

**12-7-21. Appointment of panel to study controls implemented pursuant to chapter;  
procedure and operation of panel**

Reserved

## **12-7-22. Electronic filing and reporting system**

In order to achieve efficiencies and economies for both the division and the regulated community by the use of electronic filing for certain application and reporting requirements of this chapter and National Pollution Discharge Elimination System permits, the division and the Pollution Prevention Assistance Division of the department shall jointly work toward implementing such an electronic filing and reporting system as soon as practicable and allowable under federal regulations.

Insert Tab 3  
Stream Impacts

Back of Tab

1

# STREAM IMPACTS



## BUFFERS, PERMITS, VARIANCES

 Level 1A: Fundamentals July 2016

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2

## State Waters

State Level

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### Definition

3

- Per O.C.G.A. 12-7-3(16)
  - *“State waters” includes any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the state, which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.*

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### Agency Roles

- GA Environmental Protection Division 
  - Reviews buffer variance applications
  - Issues buffer variances for state-mandated buffers
  - State waters determinations (where there is no certified LIA)
- Local Issuing Authority
  - Can incorporate additional stream buffers (more stringent than state buffers)
  - Can issue variances for their own buffers
  - State water determinations

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### Who Determines State Waters?

- For projects regulated by the Local Issuing Authority (LIA), the LIA is responsible for determining State Waters.
- The Buffer Variance application must include a letter from the LIA, stating that the LIA has visited the site and determined the presence of State Waters that require a buffer.

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### Who Determines State Waters?

- For projects that are exempt from local Erosion & Sediment Control Ordinances and not regulated by a LIA, the GA EPD is responsible for determining State Waters.
- The GA EPD is responsible for reviewing the ES&PC plan, conducting any complaint investigations, and initiating any enforcement actions.

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### Perennial Stream Characteristics

7

- Base flow that maintains stream flow throughout the year under normal circumstances
- Well-developed stream banks
- A channel that is almost always sinuous (winding)
- Evidence of fluctuating high water marks
- Evidence of soil and debris movement (scour) in the channel
- Presence of hydric soils
- Presence of wetland vegetation

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### Perennial Stream Characteristics

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### Intermittent Stream Characteristics

9

- Base flow that is **seasonally present**
- Presence of **crayfish burrows and aquatic insects**
- Well-developed stream banks
- Evidence of fluctuating high water marks
- Evidence of soil and debris movement (scour) in the channel
- Presence of hydric soils
- Presence of wetland vegetation

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### Intermittent Stream Characteristics

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### Ephemeral Stream Characteristics

11

- Flows only in direct response to precipitation
- If there is no flowing water within 48 hours of a rain event, the drainage feature is most probably ephemeral
- No well-defined channel
- Absence of riffles/pools
- A flow area that is almost always straight
- Lack of groundwater-induced base flows
- Lack of hydric soils that dominate the banks
- Lack of wetland vegetation

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### Ephemeral Stream Characteristics

12



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### Common Misconceptions

13

- These factors are not to be considered in State Water Determinations:
  - Whether a stream appears on a topo map as a solid or dashed blue line
  - Whether the stream originates on the property
  - Whether a stream that originates on the property flows into another stream before it leaves the property
  - The duration of flow in the stream
  - The absence of observable aquatic life

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### “Buffer”

14

- Per O.C.G.A. 12-7-3(2)
  - *The area of land immediately adjacent to the banks of State Waters in its natural state of vegetation, which facilitates, when properly vegetated, the protection of water quality and aquatic habitat*
- The State-mandated stream buffers are measured **horizontally** from the point where vegetation has been wrested by “normal stream flow” or “wave action”

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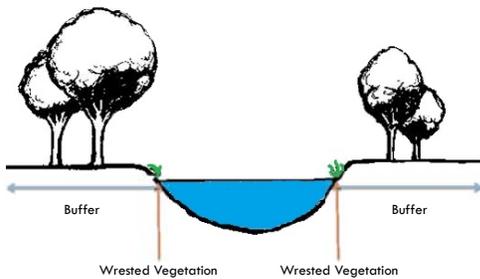
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### Wrested Vegetation

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### Wrested Vegetation

16



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### Normal Stream Flow

17

- Per Rule 391-3-7-.01(w):
  - For non-trout waters only, any stream flow that consists solely of base flow or consists of both base flow and direct runoff during any period of the year.
  - Base Flow – the discharge that enters the stream channel through the soil. This includes spring flow into streams.
  - Direct runoff – the water entering stream channels promptly after rainfalls or snow melts.

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### Stream Buffer Requirements

18

Non-trout	Trout
□ Warm water perennial and intermittent streams: <ul style="list-style-type: none"><li>□ <u>25-ft buffer</u></li></ul>	□ Cold water perennial, intermittent and ephemeral streams: <ul style="list-style-type: none"><li>□ <u>50-ft buffer</u></li></ul>

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### Trout Streams

19

- Primary Trout Waters
  - Streams supporting a self-sustaining population of Rainbow, Brown, or Brook Trout
- Secondary Trout Waters
  - Streams with no evidence of natural trout reproduction but capable of supporting trout throughout the year (i.e. water temperatures will support introduced trout, whether or not the fish reproduce)
- The list of Primary & Secondary trout waters is maintained by the GA EPD. Designations are listed by individual stream segments or watershed.

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### Stream Buffer Exemptions

20

- Stream crossings for water & sewer lines provided
  - It is within 25° of perpendicular to the stream
  - And the disturbance is not more than 50 ft. within the buffer
- Construction of public water system reservoirs
- Drainage Structures – warm water streams only
- Roadway Drainage Structures
- Construction of bulkheads or seawalls on:
  - Lake Sinclair & Lake Oconee

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### Drainage Structure

21

- A device composed of a virtually non-erodible material such as concrete, steel, plastic or other such material that conveys water from one place to another by intercepting the flow and carrying it to a release point for storm water management, drainage control, or flood control purposes.



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### Roadway Drainage Structure

22

- A device such as a bridge, culvert, or ditch, composed of a virtually non-erodible material such as concrete, steel, plastic, or other such material that conveys water under a roadway by intercepting the flow on one side of a traveled roadway consisting of one or more defined lanes, with or without shoulder areas, and carrying water to a release point on the other side.




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### Buffer Variance

23

- The minimum 25-ft or 50-ft undisturbed State-mandated stream buffers shall be maintained, except where the GA EPD Director determines to allow a variance that is at least as protective of natural resources and the environment.
- An buffer variance application must be submitted and will only be considered for the applicable criteria (a-k) delineated in the E&SC Rules & Regulations.
- The GA EPD receives ~220 buffer variance applications/year.

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### Public Notice

24

- Within 60 days of receipt of a complete buffer variance application, the GAEPD will either provide written comments to the applicant or propose to issue a variance.
- The public shall have 30 days from the date of publication of the public notice to comment on the proposed buffer variance.
- The public notice shall describe:
  1. The proposed buffer encroachment
  2. The location of the project
  3. Where the public can view the site plans
  4. Where comments should be sent

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### Coastal Areas

25

- Marshlands – any marshland intertidal area, mud flat, tidal water bottom, or salt marsh in the State within the estuarine area of the state, whether or not the tidewaters reach the littoral areas through natural or artificial watercourses
- The established 25-foot buffer along coastal marshlands is measured horizontally from the coastal-marshlands-upland interface as determined in accordance with the Coastal Marshlands Protection Act of 1970

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### Coastal Areas

26



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### Waters of the U.S.

27

Federal Level

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### Agency Roles

28

- U.S. Army Corps of Engineers 
  - Administers day-to-day program
  - Individual and general permit decisions/issuance
  - Jurisdictional determinations
  - Enforcement
- U.S. Environmental Protection Agency 
  - Develops and interprets policy, guidance, and environmental criteria used in permit applications
  - Determines scope of geographic jurisdiction and applicability of exemptions
  - Has authority to prohibit, deny, or restrict the use of any defined area

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### Waters of the U.S.

29

- Navigable waters
  - Oceans, bays, inlets
- Tributaries
  - Rivers, creeks, ephemeral & intermittent streams, lakes, ponds
- Interstate bodies of water or wetlands
- Wetlands adjacent to the waters listed here
- Special aquatics sites
  - Sanctuaries and refuges, wetlands, mudflats, vegetated shallows, coral reefs, riffle and pool complexes

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### Definitions

30

- Navigable waters
  - Waters subject to the ebb and flow of the tide
  - Has a connection to transportation of interstate commerce
- Interstate commerce
  - Defined as had been used, being used presently, or potential to be used for interstate commerce



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## Section 404 Clean Water Act

31

- Objective
  - ▣ To restore and maintain the chemical, physical, and biological integrity of the waters of the U.S.
- Establishes a program to regulates the discharge of dredged or fill material into waters of the U.S., including wetlands
- A permit must be obtained before any dredged or fill material may be discharged into waters of the U.S.

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## Discharge of Fill Material

32

- Material that has the effect of:
  - ▣ Replacing any portion of a water of the U.S. with dry land
  - ▣ Changing the bottom elevation of any portion of a water of the U.S.
- Fill Material includes:
  - ▣ Rock
  - ▣ Sand
  - ▣ Soil
  - ▣ Clay
  - ▣ Plastics
  - ▣ Construction debris
  - ▣ Wood chips
  - ▣ Overburden from excavation



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## Discharge of Dredged Material

33

- Mechanized land clearing
- Grading
- Excavation with associated discharge



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### Wetland

34

- Definition
  - ▣ Those areas inundated or saturated by surface or ground water at a frequency and duration to support, and that under normal circumstances do support a prevalence of vegetation adapted for life in saturated soil conditions
  - ▣ Wetlands generally include marshes, swamps, bogs, and similar areas; also includes special aquatic sites such as riffle and pool complexes and submerged vegetation

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### Important Wetland Functions

35

- Food chain production
- Habitat, spawning sites, rearing and resting sites for both land and aquatic species
- Protection from wave action and erosion
- Storage area for storm and flood waters
- Natural recharge areas
- Provide natural water filtration and purification

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### Wetland

36



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## How are wetlands determined?

37

- Vegetation Indicators – Hydrophytic Vegetation
  - Cattails, bulrushes, cordgrass, sphagnum moss, arrowheads, willows, mangroves, sedges, rushes, water plantains, bald cypress, and gum
- Soil Indicators – Hydric soils
  - Soils that were developed in conditions where soil oxygen is limited by the presence of saturated soil for long periods during the growing season
- Hydrology Indicators
  - The presence of water at or above the soil surface for a sufficient period of the year to significantly influence the plant types and soils in the area

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## Summary

38

- Make no assumption when it comes to working near “State waters” or “Waters of the U.S.”
- Plan Ahead
  - Most buffer variances and permits take 3-4 months to be issued
- Buffer variances are issued by the GA EPD
- Permits for working within the flow of the water are issued by the USACE
- Contact information for each Regulatory agency can be found in the “Resource Information” section

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## Questions?

GSWCC  
Urban Program  
P.O. Box 8024  
Athens, GA 30603  
(706) 552-4474



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Insert Yellow Sheet

Back of Yellow Sheet

**RULES  
OF  
GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

**CHAPTER 391-3-7  
EROSION AND SEDIMENTATION CONTROL**

**TABLE OF CONTENTS**

391-3-7-.01 Definitions  
391-3-7-.02 Repealed  
391-3-7-.03 Repealed  
391-3-7-.04 Repealed  
391-3-7-.05 Buffer Variance Procedures and Criteria  
391-3-7-.06 Turbidity Limits for Stormwater Runoff Discharges  
391-3-7-.07 Inspection and Compliance  
391-3-7-.08 Enforcement  
391-3-7-.09 Local Issuing Authorities  
391-3-7-.10 Site Visit Required  
391-3-7-.11 Coastal Marshlands Buffer Variance Procedures and  
Criteria.

**391-3-7-.01 Definitions**

The following definitions shall apply in the interpretation and enforcement of these rules and regulations unless otherwise specifically stated.

(a) “Best Management Practices” means a collection of structural measures and vegetative practices which, when properly designed, installed and maintained, will provide effective erosion and sedimentation control and are designed in accordance with the design specifications contained in the “Manual for Erosion and Sediment Control in Georgia.” Best Management Practices also include, but are not limited to, design specifications from the most recent publications of the Georgia Stormwater Management Manual and Coastal Stormwater Supplement to the Georgia Stormwater Management Manual.

(b) “Certification” means an action by the Division that states in writing that a local issuing authority has met the criteria established in these rules and regulations.

(c) “Certified Personnel” means any person who meets or exceeds the education and training requirements of Code Section 12-7-19.

(d) “Coastal Marshlands” shall have the same meaning as in Code Section 12-5-282.

(e) “Complaint Investigation Process” means a process followed by a local issuing authority or the Division when dealing with inquiries, complaints or concerns about land disturbing activities.

(f) “Decertification” means an action by the Division that states in writing that a local issuing authority has failed to meet the criteria established in these rules and regulations.

(g) “Department” means the Department of Natural Resources of the State of Georgia.

(h) “Director” means the Director of the Environmental Protection Division.

(i) “District” means the appropriate local Soil and Water Conservation District.

(j) “Division” means the Environmental Protection Division of the Department of Natural Resources.

(k) “Erosion” means the process by which land surface is worn away by the action of wind, water, ice, or gravity.

(l) “Erosion, Sedimentation and Pollution Control Plan” or “Plan” means a plan for the control of soil erosion and sediment resulting from a land disturbing activity.

(m) “Infrastructure Project” means construction activities that are not part of a common development that include the construction, installation and maintenance of roadway and railway projects and conduits, pipes, pipelines, substations, cables, wires, trenches, vaults, manholes, and similar or related structures or devices for the conveyance of natural gas (or other types of gas), liquid petroleum products, electricity, telecommunications (telephone, data television, etc.), water or sewage.

(n) “Land Disturbing Activity” means any activity which may result in soil erosion and the movement of sediments into State waters or onto lands within the State, including but not limited to clearing, dredging, grading, excavating, transporting, and filling of land, but not including those practices to the extent described in O.C.G.A. 12-7-17.

(o) “Local Issuing Authority” means the governing authority of any county or municipality that is certified pursuant to these rules and regulations and O.C.G.A. 12- 7-8(a).

(p) “Maintenance” means actions necessary or appropriate for retaining or restoring a currently serviceable improvement to the specified operable condition to achieve its maximum useful life. Maintenance includes emergency reconstruction of recently damaged parts of a currently serviceable structure so long as it occurs within a reasonable period of time after damage occurs. Maintenance does not include any modification that changes the character, scope or size of the original design.

(q) “Major Buffer Impact” means any impact that does not meet the definition of “Minor Buffer Impact.”

(r) “Minor Buffer Impact” means an impact that upon completion yields no additional above ground, man-made materials or structures within the buffer, maintains the original grade, and results in less than 5,000 square feet of buffer impacts per stream crossing and/or less than 5,000 square feet of buffer impacts per individual area of encroachment for each project.

(s) “Permit” means the authorization necessary to conduct a land disturbing activity under the provisions of these rules and regulations.

(t) “Person” means any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, State agency, municipality or other political subdivision or the State, any interstate body or any other legal entity.

(u) “Project” means the entire area of the proposed development site, regardless of the size of the area to be disturbed.

(v) "Sediment" means solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by wind, water, ice, or gravity as a product of erosion.

(w) "Sedimentation" means the action or process of forming or depositing sediment.

(x) "Serviceable" means usable in its current state or with minor maintenance but not so degraded as to essentially require reconstruction.

(y) "Soil and Water Conservation District Approved Plan" means an erosion, sedimentation and pollution control plan approved in writing by the Soil and Water Conservation District in which the proposed land disturbing activity will take place.

(z) "Stabilization" means the process of establishing an enduring soil cover of vegetation and/or mulch or other ground cover and/or installing temporary or permanent structures for the purpose of reducing to a minimum the erosion process and the resultant transport of sediment by wind, water, ice or gravity.

(aa) "State Waters" means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural and artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation, except as may be defined in O.C.G.A. 12-7-17(7).

(bb) "Stream Bank" means the confining cut of a stream channel and is usually identified as the point where the normal stream flow has wrested the vegetation. For nontrout waters, the normal stream flow is any stream flow that consists solely of base flow or consists

of both base flow and direct runoff during any period of the year. Base flow results from groundwater that enters the stream channel through the soil. This includes spring flows into streams. Direct runoff is the water entering stream channels promptly after rainfalls or snow melts.

(cc) “Trout Streams” means all streams or portions of streams within the watershed as designated by the Division under the provisions of the Georgia Water Quality Control Act, O.C.G.A. 12-5-20 et seq. Streams designated as primary trout waters are defined as water supporting a self-sustaining population of rainbow, brown or brook trout. Streams designated as secondary trout waters are those in which there is no evidence of natural trout reproduction, but are capable of supporting trout throughout the year. First order trout waters are streams into which no other streams flow except springs.

(dd) “Watercourse” means any natural or artificial waterway, stream, river, creek, channel, ditch, canal, conduit, culvert, drain, gully, ravine, or wash in which water flows either continuously or intermittently, having a definite channel, bed and bank, and includes any area adjacent thereto which is subject to inundation by reason of overflow or floodwater.

(ee) “Water Quality” means the chemical, physical, and biological characteristics of the State’s water resources.

Authority: O.C.G.A. Secs. 12-7-1 et seq.

#### **391-3-7-.05 Buffer Variance Procedures and Criteria**

(1) Buffers on state waters are valuable in protecting and conserving land and water resources; therefore, buffers should be protected. The buffer variance process will apply to all projects legally eligible for variances and to all state waters having vegetation wrested from the channel by normal stream flow,

provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented. Rule 391-3-7-.05 does not apply to coastal marshlands. The following activities do not require application to or approval from the Division:

(a) stream crossings for water lines or stream crossing for sewer lines that occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer; or

(b) where drainage structures must be constructed within the twenty-five (25) foot buffer area of any state water not classified as a trout stream; or

(c) where roadway drainage structures must be constructed within the twenty-five (25) foot buffer area of any state waters or the fifty (50) foot buffer of any trout stream; or

(d) construction of bulkheads or sea walls on Lake Oconee and Lake Sinclair where required to prevent erosion at the shoreline; or

(e) construction of public water system reservoirs.

(2) Variance applications will be reviewed by the Director only where the applicant provides reasonable evidence that impacts to the buffer have been avoided or minimized to the fullest extent practicable and only in the following cases:

(a) The project involves the construction or repair of an existing infrastructure project or a structure that, by its nature, must be located within the buffer. Such structures include, but are not limited to, dams, public water supply intake structures, detention/retention ponds, waste water discharges, docks including access ways, boat launches including access ways, and stabilization of areas of public access to water; or

- (b) The project will result in the restoration or enhancement to improve water quality and/or aquatic habitat quality; or
- (c) Buffer intrusion is necessary to provide reasonable access to a property or properties; or
- (d) The intrusion is for water and sewer lines that cannot reasonably be placed outside the buffer, and stream crossings and vegetative disturbance are minimized; or
- (e) Crossing for utility lines, including but not limited to gas, liquid, power, telephone, and other pipelines, provided that the number of crossings and the amount of vegetative disturbance are minimized; or
- (f) Recreational foot trails and viewing areas, providing that impacts to the buffer are minimal; or
- (g) The project involves construction of one (1) single family home for residential use by the owner of the subject property and, at the time of adoption of this rule, there is no opportunity to develop the home under any reasonable design configuration unless a buffer variance is granted. Variances will be considered for such single family homes only if construction is initiated or local government approval is obtained prior to January 10, 2005; or
- (h) For non-trout waters, the proposed land disturbing activity within the buffer will require a permit from the United States Army Corps of Engineers under Section 404 of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1344, and the Corps of Engineers has approved a mitigation plan to be implemented as a condition of such a permit; or
- (i) For non-trout waters, a plan is provided for buffer intrusion that shows that, even with the proposed land disturbing activity within

the buffer, the completed project will result in maintained or improved water quality downstream of the project; or

(j) For non-trout waters, the project with a proposed land disturbing activity within the buffer is located in, or upstream and within ten linear miles of, a stream segment listed as impaired under Section 303(d) of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1313(d) and a plan is provided that shows that the completed project will result in maintained or improved water quality in such listed stream segment and that the project has no adverse impact relative to the pollutants of concern in such stream segment; or

(k) The proposed land disturbing activity within the buffer is not eligible for a permit from the United States Army Corps of Engineers under Section 404 of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1344, but includes required mitigation in accordance with current EPD “Stream Buffer Variance Mitigation Guidance” document, and involves:

1. piping, filling, or re-routing of non-trout waters that are not jurisdictional Waters of the U.S.; or
  2. stream buffer impacts due to new infrastructure projects adjacent to state waters (jurisdictional and non-jurisdictional Waters of the U.S.). This criterion shall not apply to maintenance and/or modification to existing infrastructure, which are covered under 391-3-7.05(2)(a).
- (3) If the buffer impact will be minor, the buffer variance request shall include the following information at a minimum:
- (a) Site map that includes locations of all state waters, wetlands, floodplain boundaries and other natural features, as determined by field survey.

- (b) Description of the shape, size, topography, slope, soils, vegetation and other physical characteristics of the property.
- (c) Dated and numbered detailed site plan that shows the locations of all structures, impervious surfaces, and the boundaries of the area of soil disturbance, both inside and outside of the buffer. The exact area of the buffer to be impacted shall be accurately and clearly indicated.
- (d) Description of the project, with details of the buffer disturbance, including estimated length of time for the disturbance and justification for why the disturbance is necessary.
- (e) Calculation of the total area and length of the buffer disturbance.
- (f) Letter from the issuing authority (if other than the Division and as applicable) stating that the issuing authority has visited the site and determined the presence of state waters that require a buffer and that a stream buffer variance is required as per the local erosion and sedimentation control ordinance.
- (g) Erosion, sedimentation and pollution control plan.
- (h) Re-vegetation plan as described in the most recent publication of the Division's guidance book, "Streambank and Shoreline Stabilization" and/or a plan for permanent vegetation as per the "Manual for Erosion and Sedimentation Control in Georgia."
- (i) For projects within the buffer of or upstream and within one linear mile of impaired stream segments on Georgia's "305(b)/303(d) List Documents (Final)," documentation that the project will have no adverse impacts relative to the pollutants of concern and if applicable, documentation that the project will be in compliance with the TMDL Implementation Plan(s).

(j) Any other reasonable information related to the project that the Division deems necessary to effectively evaluate the variance request.

(k) Applications must be on the most current forms provided by the Division.

(4) If the buffer impact will be major, the buffer variance request shall include all of the information in Sections (3)(a) thru (k) above, with the exception of (3)(h). A buffer variance request for major buffer impacts shall also include the following additional information:

(a) For variance requests made under Section (2)(h):

1. Joint Public Notice (JPN), if it is an individual permit;
2. Pre-Construction Notification (PCN), if it is a Nationwide Permit;
3. Mitigation calculations; and
4. Permit approval from the United States Army Corps of Engineers.

(b) Buffer mitigation plan addressing impacts to critical buffer functions, including water quality and floodplain, watershed and ecological functions based on an evaluation of existing buffer conditions and predicted post construction buffer conditions pursuant to Section (7)(c) herein.

(c) Plan for stormwater control once site stabilization is achieved, when required by a local stormwater ordinance.

(d) For variance requests made under Sections (2)(i) and (2)(j), the application shall include the following water quality information:

1. Documentation that post-development stormwater management systems to conform to the minimum standards for water quality, channel protection, overbank flood protection and extreme flood protection as established in the Georgia Stormwater Management Manual or the equivalent and if applicable, the Coastal Stormwater Supplement to the Georgia Stormwater Management Manual.

2. Documentation that existing water quality will be maintained or improved based on predicted pollutant loading under pre- and post-development conditions as estimated by models accepted by the Division.

(e) For variance requests made under Section (2)(j), if the proposed project is in, or upstream and within ten linear miles of impaired stream segments on Georgia's "305(b)/303(d) List Documents (Final)," documentation that the project will have no adverse impacts relative to the pollutants of concern and if applicable, documentation that the project will be in compliance with the TMDL Implementation Plan(s).

(f) For variance requests made under Section (2)(k)1., the application shall include documentation from the United States Army Corps of Engineers verifying the water bodies identified in the application are non-jurisdictional waters of the United States under Section 404 of the Clean Water Act.

(5) Upon receipt of a completed application in accordance with Sections 391-3-7-.05(3) or 391-3-7-.05(4), the Division shall consider the completed application and the following factors in determining whether to issue a variance:

(a) Locations of state waters, wetlands, floodplain boundaries and other natural features as determined by field surveys.

(b) Shape, size, topography, slope, soils, vegetation and other physical characteristics of the property.

(c) Location and extent of buffer intrusion.

(d) Whether reasonable alternative project designs, such as the use of retaining walls, are possible which do not require buffer intrusion or which require less buffer intrusion.

(e) Whether issuance of the variance, with the required mitigation plan, re-vegetation plan and/or plan for permanent vegetation, is at least as protective of natural resources and the environment (including wildlife habitat).

(f) The current condition of the existing buffer, to be determined by:

1. The extent to which existing buffer vegetation is disturbed;
2. The hydrologic function of the buffer; and
3. Stream characteristics such as bank vegetative cover, bank stability, prior channel alteration or sediment deposition.

(g) The extent to which the encroachment into the buffer may reasonably impair buffer functions.

(h) The value of mitigation activities conducted pursuant to this rule, particularly Subsections 391-3-7-.05(7)(c) and 391-3-7-.05(7)(d) herein, and shall take regional differences into consideration on-site or downstream, to be determined by development techniques or other measures that will contribute to the maintenance or improvement of water quality, including the use of low impact designs and integrated best management practices, and reduction in effective impervious surface area.

(i) The long-term water quality impacts of the proposed variance, as well as the construction impacts. And for applications made

under Subsections 391-3- 7.05(2)(i) and 391-3-7-.05(2)(j), the following criteria, which reflect regional differences in the state, shall be used by the Director to assist in determining whether the project seeking a variance will, when completed and with approved mitigation, result in maintained or improved water quality downstream of the project and minimal net impact to the buffer:

1. Division will assume that the existing water quality conditions are commensurate with an undeveloped forested watershed unless the applicant provides documentation to the contrary. If the applicant chooses to provide baseline documentation, site and/or stream reach specific water quality, habitat, and/or biological data would be needed to document existing conditions. If additional data are needed to document existing conditions, the applicant may need to submit a monitoring plan and have it approved by the Division prior to collecting any monitoring data. Existing local data may be used, if available and of acceptable quality to the Division.

2. The results of the predicted pollutant loading under pre- and post-development conditions as estimated by models accepted by the Division indicate that existing water quality conditions will be maintained or improved.

(j) For applications made under Section 391-3-7-.05(2)(j), for which a land disturbing activity is proposed within the buffer of a 303(d) listed stream, or upstream and within 10 linear miles of a 303(d) listed stream, the results of the model demonstrate that the project has no adverse impact relative to the pollutants of concern in such stream segment.

(6) Within 60 days of receipt of a complete buffer variance application, the Division will either provide written comments to the applicant or propose to issue a variance. When the Division proposes to issue a variance, it will issue a public notice. The public notice shall describe the proposed buffer encroachment, the

location of the project, where the public can review site plans, and where comments should be sent. The public shall have 30 days from the date of publication of the public notice to comment on the proposed buffer variance.

(7) In all cases in which a buffer variance is issued, the following conditions shall apply:

(a) The variance shall be the minimum reduction in buffer width necessary to provide relief. Streams shall not be piped if a buffer width reduction is sufficient to provide relief.

(b) Disturbance of existing buffer vegetation shall be minimized.

(c) Mitigation is required for all major buffer impacts and shall offset the buffer encroachment and any loss of buffer functions. Where lost functions cannot be replaced, mitigation shall provide other buffer functions that are beneficial. Buffer functions include, but are not limited to:

1. temperature control (shading);
2. streambank stabilization;
3. trapping of sediments, if any;
4. removal of nutrients, heavy metals, pesticides and other pollutants;
5. aquatic habitat and food chain;
6. terrestrial habitat, food chain and migration corridor; and
7. buffering of flood flows.

(d) Mitigation should be on-site when possible. Depending on site conditions, acceptable forms of mitigation may include but are not limited to:

1. Restoration of the buffer to a naturally vegetated state to the extent practicable, or to current existing conditions;
2. Bioengineering of channels to reduce bank erosion and improve habitat;
3. Creation or restoration of wetlands;
4. Stormwater management systems to better maintain the pre-development flow regime (with consideration given to downstream effects) that exceeds the requirements of applicable ordinances at the time of application;
5. Reduction in pollution sources, such as on-site water quality treatment or improving the level of treatment of septic systems;
6. Other forms of mitigation that protect or improve water quality and/or aquatic wildlife habitat;
7. An increase in buffer width elsewhere on the property;
8. Mitigation as required under a Clean Water Act Section 404 or Nationwide permit issued by the U.S. Army Corps of Engineers;
9. Stormwater management systems described in the most recent publication of the Georgia Stormwater Management Manual and the Coastal Stormwater Supplement to the Georgia Stormwater Management Manual;
10. Mitigation as described in the most recent publication of the Division's guidance document, Stream Buffer Mitigation Guidance.

(e) Forms of mitigation that are *not* acceptable include:

1. Activities that are already required by the Georgia Erosion and Sedimentation Act, such as the minimal use of best management practices;
2. Activities that are already required by other federal, state and local laws, except as described in 391-3-7.05(7)(d) above. U.S. Army Corps of Engineers mitigation is acceptable.

(f) The Division will not place a condition on a variance that requires a landowner to deed property or the development rights of property to the state or to any other entity. The landowner may voluntarily preserve property or the development rights of property as a mitigation option with the agreement of the Division.

(8) If the approved buffer impacts are not completed within five years of the date issued, buffer variances issued on or after the effective date of this rule will become null and void.

The applicant may request a buffer variance time extension only if the approved buffer impacts will not be completed prior to the buffer variance expiration date. The buffer variance time extension, if granted, can be for a period of up to five years. If the applicant can demonstrate that a time extension for a period of greater than five years is reasonable, the Director may grant a buffer variance time extension for a reasonable period of greater than five years. A buffer variance time extension may be issued only once.

The buffer variance time extension must be requested in writing at least 90 calendar days prior to the buffer variance expiration date with justifiable cause demonstrated. Once an approved buffer variance expires, it is no longer eligible for a time extension.

Time extension requests will be reviewed by the Division. The Division will either provide written comments to the applicant or propose to issue a buffer variance time extension within 60 days of receipt of a time extension request. If there are any other changes to the original buffer variance application, the Division shall issue a public notice in accordance with Section 391-3-7-.05(6).

If a variance issued by the Director is acceptable to the issuing authority, the variance shall be included as a condition of permitting and therefore becomes a part of the permit for the proposed land disturbing activity project. If a stream buffer variance is not acceptable to the issuing authority, the issuing authority may issue a land disturbing permit without allowing encroachment into the buffer.

(9) A general variance is provided for piping of trout streams with an average annual flow of 25 gpm or less.

(10) To obtain this general variance in Section 391-3-7.05(9) for encroaching on the buffer of a trout stream, the applicant must submit information to the issuing authority or EPD if there is no issuing authority demonstrating that the average annual flow in the stream is 25 gpm or less. There are two acceptable methods for making this determination.

(a) The USGS unit area runoff map may be used to determine the threshold acreage that will produce an average annual flow of 25 gpm or less.

(b) The applicant may submit a hydrologic analysis certified by a Registered Professional Engineer or Geologist that presents information sufficient to estimate that the average annual flow of each stream to be piped is 25 gpm or less with a high level of certainty.

(11) Any stream piping performed in accordance with this general variance in Section 391-3- 7.05(9) shall be subject to the following terms:

(a) The total length of stream that is piped in any one property shall not exceed 200 feet.

(b) Any project that involves more than 200 ft of piping will require an individual variance for the entire project. The general variance may not be applied to a portion of a project; e.g., it is not permissible to pipe 200 ft of a stream under the general variance and seek an individual variance for an additional length of pipe.

(c) The downstream end of the pipe shall terminate at least 25 ft before the property boundary.

(d) The applicant for a Land Disturbing Activity Permit shall notify the appropriate issuing authority of the precise location and extent of all streams piping as part of the land disturbing activity permit application. The issuing authority (if other than the Division) shall compile this information and convey it to the Division annually.

(e) Where piping of a stream increases the velocity of stream flow at the downstream end of the pipe, appropriate controls shall be employed to reduce flow velocity to the predevelopment level. Plans for such controls must be submitted as part of the land disturbing activity permit.

Authority: O.C.G.A. Sec. 12-7-6.

**391-3-7-.11 Coastal Marshlands Buffer Variance Procedures and Criteria.**

(1) Buffers on state waters are valuable in protecting and conserving land and water resources. Therefore, there is

established a 25 foot buffer along coastal marshlands, as measured horizontally from the coastal marshland-upland interface, except:

- (a) Where the Director determines to allow a variance that is at least as protective of natural resources and the environment under the variance criteria in 391-3-7-.11(2) through (7) or under the variance by rule criteria in 391-3-7-.11(9); or
- (b) Where otherwise allowed by the Director pursuant to O.C.G.A. §12-2-8; or
- (c) Where an alteration within the buffer area has been authorized pursuant to O.C.G.A. §12-5-286; or
- (d) For maintenance of any currently serviceable structure, landscaping, or hardscaping, including bridges, roads, parking lots, golf courses, golf cart paths, retaining walls, bulkheads, and patios; provided, however, that if such maintenance requires any land-disturbing activity, adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or
- (e) Where a drainage structure or roadway drainage structure is constructed or maintained; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or
- (f) On the landward side of any currently serviceable shoreline stabilization structure; or
- (g) For the maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or

(h) Crossings for utility lines that cause a width of disturbance of not more than 50 feet within the buffer; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or

(i) Any land-disturbing activity conducted pursuant to and in compliance with a valid and effective land-disturbing permit issued subsequent to April 22, 2014, and prior to December 31, 2015; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented; or

(j) Any lot for which the preliminary plat has been approved prior to December 31, 2015 if roadways, bridges, or water and sewer lines have been extended to such lot prior to the effective date of this Act and if the requirement to maintain a 25 foot buffer would consume at least 18 percent of the high ground of the platted lot otherwise available for development; provided, however, that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented.

(2) The buffer variance process will apply to all projects legally eligible for variances, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented. Variance applications will be reviewed by the Director only in the following cases:

(a) The project involves the construction or repair of an existing infrastructure project or a structure that, by its nature, must be located within the buffer. Such structures include, but are not limited to, dams, public water supply intake structures, detention/retention ponds, waste water discharges, docks including access ways, boat launches including access ways and stabilization of areas of public access to water; or

- (b) The project will result in the restoration or enhancement to improve water quality and/or aquatic habitat quality; or
- (c) Buffer intrusion is necessary to provide reasonable access to a property or properties; or
- (d) The intrusion is for utility lines within or adjacent to existing utility or transportation right of ways or that cannot reasonably be placed outside the buffer, and crossings and vegetative disturbance are minimized; or
- (e) Crossing for utility lines, including but not limited to gas, liquid, power, telephone, and other pipelines, provided that the number of crossings and the amount of vegetative disturbance are minimized; or
- (f) Recreational foot trails and viewing areas, providing that impacts to the buffer are minimal; or
- (g) The project involves construction of one (1) single family home for residential use by the owner of the subject property and, at the time of adoption of this rule, there is no opportunity to develop the home under any reasonable design configuration unless a buffer variance is granted. Variances will be considered for such single family homes only if construction is initiated or local government approval is obtained prior to January 10, 2005; or
- (h) The proposed land disturbing activity within the buffer will require a permit from the United States Army Corps of Engineers under Section 404 of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1344, and the Corps of Engineers has approved a mitigation plan to be implemented as a condition of such a permit; or

(i) A plan is provided for buffer intrusion that shows that, even with the proposed land disturbing activity within the buffer, the completed project will result in maintained or improved water quality; or

(j) The proposed land disturbing activity includes an alteration within the buffer that has been authorized pursuant to a permit issued by the United States Army Corps of Engineers under Section 404 of the Federal Water Pollution Control Act of 1972, as amended, or Section 10 of the Rivers and Harbors Act of 1899; or

(k) The proposed land disturbing activity within the buffer is not eligible for a permit from the United States Army Corps of Engineers under Section 404 of the federal Water Pollution Control Act Amendment of 1972, 33 U.S.C. Section 1344, and involves:

1. Piping, filling, or re-routing of waters that are not jurisdictional Waters of the U.S.; or

2. Buffer impacts due to new infrastructure projects adjacent to state waters (jurisdictional and non-jurisdictional Waters of the U.S.). This criterion shall not apply to maintenance and/or modification to existing infrastructure.

(3) Except as provided in 391-3-7-.11(9), if the buffer impact will be minor, the buffer variance request shall include the following information at a minimum:

(a) Site map that includes locations of all state waters, wetlands, floodplain boundaries and other natural features, as determined by field survey.

(b) Description of the shape, size, topography, slope, soils, vegetation and other physical characteristics of the property.

(c) Dated and numbered detailed site plan that shows the locations of all structures, impervious surfaces, and the boundaries of the area of soil disturbance, both inside and outside of the buffer. The exact area of the buffer to be impacted shall be accurately and clearly indicated.

(d) Description of the project, with details of the buffer disturbance, including estimated length of time for the disturbance and justification for why the disturbance is necessary.

(e) Calculation of the total area and length of the buffer disturbance.

(f) Letter from the issuing authority (if other than the Division and as applicable) stating that the issuing authority has visited the site and determined the presence of coastal marshlands that require a buffer and that a buffer variance is required.

(g) Erosion, sedimentation and pollution control plan.

(h) Re-vegetation plan as described in the most recent publication of the Division's guidance book, "Streambank and Shoreline Stabilization", or the "Hydromodification Best Management Practice Manual for Coastal Georgia," and/or a plan for permanent vegetation as per the "Manual for Erosion and Sedimentation Control in Georgia."

(i) For projects within the buffer of or upstream and within one linear mile of an impaired water body on Georgia's "305(b)/303(d) List Documents (Final)," documentation that the project will have no adverse impacts relative to the pollutants of concern and if applicable, documentation that the project will be in compliance with the TMDL Implementation Plan(s).

(j) Applications must be on the most current forms provided by the Division.

(4) If the buffer impact will be major, the buffer variance request shall include all of the information in 391-3-7-.11(3)(a) through (j) above, with the exception of 391-3-7-.11(3)(h). A buffer variance request for major buffer impacts shall also include the following additional information:

(a) For variance requests made under 391-3-7-.11(2)(h) or (j):

1. Joint Public Notice (JPN), if it is an individual permit;
2. Pre-Construction Notification (PCN), if it is a Nationwide Permit;
3. Mitigation calculations; and
4. Permit approval from the United States Army Corps of Engineers.

(b) Buffer mitigation plan addressing impacts to critical buffer functions, including water quality and floodplain, watershed and ecological functions based on an evaluation of existing buffer conditions and predicted post construction buffer conditions pursuant to 391-3-7-.11(7)(c) herein.

(c) Plan for stormwater control once site stabilization is achieved, when required by a local stormwater ordinance.

(d) For variance requests made under 391-3-7-.11(2)(i), the application shall include the following water quality information:

1. Documentation that post-development stormwater management systems to conform to the minimum standards for water quality, channel protection, overbank flood protection and extreme flood protection as established in the Georgia Stormwater Management Manual or the equivalent and if applicable, the Coastal Stormwater Supplement to the Georgia Stormwater Management Manual.

2. Documentation that existing water quality will be maintained or improved based on predicted pollutant loading under pre- and post-development conditions as estimated by models accepted by the Division.

(e) For variance requests made under 391-3-7-.11(2)(k)1., the application shall include documentation from the United States Army Corps of Engineers verifying the water bodies identified in the application are non-jurisdictional waters of the United States under Section 404 of the Clean Water Act.

(5) Upon receipt of a complete application, the Division shall consider the complete application and the following factors in determining whether to issue a variance:

(a) Locations of state waters, wetlands, coastal marshlands, floodplain boundaries and other natural features as determined by field surveys.

(b) Shape, size, topography, slope, soils, vegetation and other physical characteristics of the property.

(c) Location and extent of buffer intrusion.

(d) Whether reasonable alternative project designs, such as the use of retaining walls are possible which do not require buffer intrusion or which require less buffer intrusion.

(e) Whether issuance of the variance, with the required mitigation plan, re-vegetation plan and/or plan for permanent vegetation, is at least as protective of natural resources and the environment.

(f) The current condition of the existing buffer, to be determined by:

1. The extent to which existing buffer vegetation is disturbed;

2. The hydrologic function of the buffer; and

3. Hydrologic functional characteristics such as bank vegetative cover, bank stability, or prior channel alteration.

(g) The extent to which the encroachment into the buffer may reasonably impair buffer functions.

(h) The value of mitigation activities conducted pursuant to this rule, particularly 391-3-7-.11(7)(c) and (d) herein, development techniques or other measures that will contribute to the maintenance or improvement of water quality, including the use of low impact designs and integrated best management practices, and reduction in effective impervious surface area.

(i) The long-term water quality impacts of the proposed variance, as well as the construction impacts. And for applications made under 391-3-7-.11(2)(i), the following criteria shall be used by the Director to assist in determining whether the project seeking a variance will, when completed and with approved mitigation, result in maintained or improved water quality downstream of the project and minimal net impact to the buffer:

1. The Division will assume that the existing water quality conditions are commensurate with an undeveloped maritime forested watershed unless the applicant provides documentation to the contrary. If the applicant chooses to provide baseline documentation, site specific water quality, habitat, and /or biological data would be needed to document existing conditions. If additional data are needed to document existing conditions, the applicant may need to submit a monitoring plan and have it approved by the Division prior to collecting any monitoring data. Existing local data may be used, if available and of acceptable quality to the Division.

2. The results of the predicted pollutant loading under pre- and post-development conditions as estimated by models accepted by the Division indicate that existing water quality conditions will be maintained or improved.

(j) For applications made under 391-3-7-.11(2)(i), for which a land disturbing activity is proposed within the buffer of a 303(d) listed water body, or upstream and within one linear mile of a 303(d) listed water body, the results of the model demonstrate that the project has no adverse impact relative to the pollutants of concern.

(6) Within 60 days of receipt of a complete buffer variance application, the Division will either provide written comments to the applicant or propose to issue a variance. When the Division proposes to issue a variance, it will issue a public notice. The public notice shall describe the proposed buffer encroachment, the location of the project, where the public can review site plans, and where comments should be sent. The public shall have 30 days from the date of publication of the public notice to comment on the proposed buffer variance.

(7) In all cases in which a buffer variance is issued, the following conditions shall apply:

(a) The variance shall be the minimum reduction in buffer width necessary to provide relief.

(b) Disturbance of existing buffer vegetation shall be minimized.

(c) Mitigation is required for all major buffer impacts and shall offset the buffer encroachment and any loss of buffer functions. Where lost functions cannot be replaced, mitigation shall provide other buffer functions that are beneficial. Buffer functions include, but are not limited to:

1. temperature control (shading);

2. bank stabilization;
3. trapping of sediments, if any;
4. removal of nutrients, heavy metals, pesticides and other pollutants;
5. aquatic habitat and food chain;
6. terrestrial habitat, food chain and migration corridor;
7. buffering of flood flows; and
8. maintenance of salinity through buffering of freshwater flows.

(d) Mitigation should be on-site when possible. Depending on site conditions, acceptable forms of mitigation may include, but are not limited to:

1. Restoration of the buffer to a naturally vegetated state to the extent practicable, or to current existing conditions. Information on natural vegetation in Coastal Georgia is available from the University of Georgia Marine Extension Service at <http://marex.uga.edu/ecoscapes/> or <http://www.caes.uga.edu/extension/bryan/anr/documents/nativeplantlist.pdf>;
2. Bioengineering of channels to reduce bank erosion and improve habitat;
3. Creation or restoration of wetlands;
4. Stormwater management systems to better maintain the pre-development flow regime (with consideration given to downstream

effects) that exceeds the requirements of applicable ordinances at the time of application;

5. Reduction in pollution sources, such as on-site water quality treatment or improving the level of treatment of septic systems;
6. Other forms of mitigation that protect or improve water quality and/or aquatic wildlife habitat;
7. An increase in buffer width elsewhere on the property;
8. Mitigation as required under a Clean Water Act Section 404 or Nationwide permit issued by the U.S. Army Corps of Engineers; or
9. Stormwater management systems described in the most recent publication of the Georgia Stormwater Management Manual and the Coastal Stormwater Supplement to the Georgia Stormwater Management Manual.

(e) Forms of mitigation that are *not* acceptable include:

1. Activities that are already required by the Georgia Erosion and Sedimentation Act, such as the minimal use of best management practices;
2. Activities that are already required by other federal, state and local laws, except as described in 391-3-7-.11(7)(d) above. U.S. Army Corps of Engineers mitigation is acceptable.

(f) The Division will not place a condition on a variance that requires a landowner to deed property or the development rights of property to the state or to any other entity. The landowner may voluntarily preserve property or the development rights of property as a mitigation option with the agreement of the Division.

(g) If a variance issued by the Director is acceptable to the issuing authority, the variance shall be included as a condition of permitting and therefore becomes a part of the permit for the proposed land disturbing activity project. If a buffer variance is not acceptable to the issuing authority, the issuing authority may issue a land disturbing permit without allowing encroachment into the buffer.

(8) A buffer variance will expire five years after the effective date, unless a request for an extension is submitted prior to the expiration date, with justifiable cause demonstrated.

The applicant may request a buffer variance time extension only if the approved buffer impacts will not be completed prior to the buffer variance expiration date. The buffer variance time extension, if granted, can be for a period of up to five years. If the applicant can demonstrate that a time extension for a period of greater than five years is reasonable, the Director may grant a buffer variance time extension for a reasonable period of greater than five years.

Time extension requests will be reviewed by the Division. The Division will either provide written comments to the applicant or propose to issue a buffer variance time extension within 60 days of receipt of a time extension request. If there are any significant changes to the original buffer variance application, the Division shall issue a public notice in accordance with 391-3-7-.11(6).

**(9) Variance By Rule**

(a) Notwithstanding any other provision of these Rules, the following activities have minimal impact on the water quality or aquatic habitat of the adjacent coastal marshland and therefore are deemed to have an approved buffer variance.

1. Activities where the area within the buffer is not more than 500 square feet.
  2. Activities that have a “Minor Buffer Impact” as defined in 391-3-7-.01(r), provided that the total area of buffer impacts is less than 5,000 square feet. A proposed development site may not be subdivided into smaller projects or phases to circumvent the 5,000 square feet limitation.
- (b) Bank and shoreline stabilization structures are not eligible for coverage under the variance by rule.
- (c) Notification shall be made at least 14 days prior to the commencement of land-disturbing activities to provide the Division an opportunity to review the activity to ensure it meets the applicable criteria. Unless notified by the Division to the contrary, an applicant who submits a notification in accordance with 391-3-7-.11(9) is authorized to encroach into the buffer 14 days after the notification form is received by the Division. A buffer variance by rule expires if the buffer impacts are not completed within two years after the notification form is received by the Division. The Director may deny coverage under this variance by rule and require submittal of an application for an individual variance based on the review of the documentation submitted or other information. Persons failing to notify the Director of such activities shall be deemed to be operating without a variance.
- (d) Notification for a variance by rule is to be submitted by return receipt certified mail (or similar service that provides confirmation of receipt) to both the Division and to the Local Issuing Authority in jurisdictions authorized to issue Land Disturbance Permits.
- (e) An individual variance will be required for any activity that does not qualify for a variance by rule.

(f) Any notification for a variance by rule shall include the following:

1. Description of the activity, with details of the buffer disturbance, including area and length of the buffer to be impacted and estimated length of time for the disturbance.
2. Photographs of the area that will be affected by the proposed activity.
3. Notice of a land-disturbing activity to be covered by a variance by rule must be on the most current forms provided by the Division.

(g) Any variance by rule shall be subject to the following requirements:

1. The following information shall be maintained onsite until final stabilization of the site is complete:
  - i. Site plan that shows the locations of all structures, impervious surfaces, and the boundaries of the area of soil disturbance, both inside and outside of the buffer. The exact area and length of the buffer to be impacted shall be accurately and clearly indicated.
  - ii. Documentation that adequate erosion control measures are incorporated into the project plans and specifications.
2. Disturbance of existing buffer vegetation shall be minimized.
3. Final stabilization of the site must include a re-vegetation plan as described in the most recent publication of the Division's guidance book, "Streambank and Shoreline Stabilization." It is recommended that vegetation be native riparian vegetation.

4. Temporary vegetative measures must be implemented within 14 calendar days following the completion of any soil disturbance and the site shall be stabilized at the end of every day until project completion.

5. Proper and full implementation of the erosion control measures in 391-3-7-.11(9)(g)1.ii.

6. Post construction stormwater management practices should be considered. Best management practices can be found in the latest edition of the Georgia Stormwater Management Manual or the Coastal Supplement to the Georgia Stormwater Management Manual.

7. All other applicable federal, state, and local laws, rules and ordinances, including erosion and sedimentation control must be fully complied with prior to commencement of project construction.

8. For a variance by rule under 391-3-7-.11(9)(a)1., cumulative impacts shall not exceed 500 square feet within a 5 year period.

9. Any activity that does not meet the requirements of 391-3-7-.11(9)(g) is in violation of the variance by rule.

Authority: O.C.G.A. Sec. 12-7-6.

Insert Tab 4

NPDES

Back of Tab

NPDES  
GENERAL PERMITS



STORM WATER DISCHARGES  
FROM CONSTRUCTION ACTIVITY

 Level 1A: Fundamentals July 2016

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2 Overview

- Coverage – Slide 5
- Notice of Intent – Slide 20
- Special Conditions – Slide 31
- ES&PC Plan – Slide 42
- Notice of Termination – Slide 85

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What is NPDES?

3

National Pollutant Discharge Elimination System



Created by the Federal Clean Water Act to control water pollution by regulating the discharge of pollutants to surface waters



The GA EPD has been "authorized" by the U.S. EPA to issue NPDES General Permits within the State

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### 3 NPDES General Permits

- GAR100001 – Stand Alone
- GAR100002 – Infrastructure
- GAR100003 – Common Development

- The Permits became effective on September 24, 2013
  - ▣ Revised July 1, 2016
  - ▣ Valid for 5 years (Expires July 31, 2018)
- Permits are available @
  - ▣ [www.epd.georgia.gov](http://www.epd.georgia.gov)
  - ▣ [www.gaswcc.georgia.gov](http://www.gaswcc.georgia.gov)

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5

### Part I. Coverage Under The Permit

- Permit Area
- Eligibility
- Definitions

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### Coverage Under the Permit

- Permit Area
  - ▣ These permits regulate **point source discharges of storm water** to the waters of the State of Georgia from construction activities
- Eligibility
  - (1) Construction activities that will result in land disturbance **equal to or greater than one (1) acre**
  - (2) Construction activities involving **less than one (1) acre** which are a part of a larger common development (i.e. greater than one (1) acre)

Part I.A.

Part I.C.

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### “Construction Activity”

7

- The disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities
- Does not include agricultural and silvicultural practices, but does include agricultural buildings

Part I.B.

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### “Stand Alone Construction” (GAR100001)

8

- Construction activities that are not part of a common development where the primary permittee chooses not to use secondary permittees



Part I.B.

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### “Infrastructure Construction” (GAR100002)

9

- Construction activities that are not part of a common development that include the construction, installation, and maintenance of roadway and railway projects and conduits, pipes, pipelines, substations, cables, wires, trenches, vaults, manholes, and similar or related structures for the conveyance of natural gas, liquid petroleum products, electricity, telecommunications, water, storm water, or sewage

Part I.B.

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## “Infrastructure Construction”

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## Infrastructure Eligibility

11

- Infrastructure construction projects that will result in contiguous land disturbance equal to or greater than one (1) acre
- Contiguous areas of land disturbances includes those areas of land disturbances solely separated by:
  - Drilling & Boring activities
  - Waters of the State and adjacent State buffers
  - Roadways and/or Railways and/or Intersections

Part I.C.1(a)

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## Infrastructure Eligibility

12

- Coverage under this permit is not required for infrastructure construction projects that consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and the hydraulic capacity
- Must comply with the following conditions:
  1. No mass grading
  2. Stabilized by the end of each day
  3. Duration of < 120 calendar days
  4. Final Stabilization at the end of the project

Part I.C.1(c)

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### Infrastructure Eligibility

13

- Coverage under this permit is not required for infrastructure road construction projects that consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and vehicular capacity
- Must comply with the following conditions:
  1. No mass grading
  2. Stabilized by the end of each day
  3. Duration of < 120 calendar days
  4. Final Stabilization at the end of the project

Part I.C.1(d)

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### “Common Development” (GAR100003)

14

- A contiguous area where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development on or after August 1, 2000



Part I.B.

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### Permittees

15

- “Primary Permittee”
  - The Owner or Operator or both of a tract of land for a construction project subject to the permit
- “Secondary Permittee”
  - An owner, individual builder, utility company, or utility contractor that conducts a construction activity within a common development with an existing primary permittee
- “Tertiary Permittee”
  - The Owner or Operator of remaining lot(s) within a common development conducting a construction activity where the primary permittee and all secondary permittees have submitted a Notice of Termination or where a primary permittee no longer exists

Part I.B.

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### “Best Management Practices” (BMPs)

16

- Schedules of activities
  - Prohibitions of practices
  - Maintenance procedures
  - Treatment requirements
  - Operating procedures
  - Practices to control spillage or leaks, sludge or waste disposal, or drainage from raw material storage
  - **Sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation**
- These practices are consistent with, and no less stringent than, those practices contained in the “Manual for Erosion & Sediment Control in Georgia” (Manual) published by the State Soil & Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia

Part I.B.

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### “Design Professional”

17

- A professional licensed in the State of Georgia in the field of:
  - Engineering
  - Architecture
  - Landscape Architecture
  - Forestry
  - Geology
  - Land Surveying
- A person that is a Certified Professional in Erosion & Sediment Control (CPESC) with a current certification by EnviroCert International, Inc.



Part I.B.

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### “Certified Personnel”

18

- A person who has successfully completed the appropriate certification course approved by GSWCC
  - Level 1A – Contractors, Builders, Superintendents, Consultants
  - Level 1B – Regulatory Inspectors
  - Level II – Design Professionals or Plan Reviewers

*A “Certified Person” shall be on-site at all times when land-disturbing activities are being conducted*

Part I.B.

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19

## “Normal Business Hours”

- Monday thru Friday, 8:00 a.m. to 5:00 p.m.
- Excluding:
  - Non-working Saturday
  - Non-working Sunday
  - Non-working Federal Holiday

Part I.B.

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20

## Part II. Notice of Intent Requirements

- Deadlines
- Submittal
- Fees

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## Deadlines – Initial NOI

21

- For new construction sites, the permittee shall submit a Notice of Intent (NOI) at least 14 days prior to the commencement of construction activities
- The “Initial Notification” should be checked
- Applicable to primary, secondary, and tertiary permittees

Part II.A.1.

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### Tertiary Permittee Submittal Options

25

- Option (1)
  - The permittee may submit a NOI for each individual lot and a new ES&PC Plan for each individual lot. For each NOI submitted, the Tertiary Permittee must submit a Notice of Termination
- Option (2)
  - If the permittee's total land disturbance with the construction site is less than 5 acres and the total land disturbance within the individual lot(s) is less than 1 acre, the permittee may submit a single NOI and ES&PC Plan for a typical individual lot(s). A Notice of Termination is required for each individual lot

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### Tertiary Permittee Submittal Options

26

- Option (3)
  - The permittee may submit a single NOI – Initial Notification for the entire construction site and a new ES&PC plan for the entire construction site
  - The permittee may submit the NOI – Initial Notification as either a Primary or Tertiary
  - A single Notice of Termination is required at the end
- The Primary Permittee must notify the legal title holders of each remaining lot(s) that these lot Owners will become Tertiary Permittee(s) – applicable to all lots, including lots that are less than one acre

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### Utility Companies Submittal Options

27

- A Utility Company may submit an annual Blanket Notice of Intent covering all construction activities within common developments statewide on or before January 15<sup>th</sup> of the year in which coverage is desired
- A copy of the Blanket NOI shall be provided to the primary permittee not more than seven (7) days prior to the commencement of construction activities by the Utility Company at each site

Part II.B.2(i)

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### NPDES General Permit Fees

28

- The Primary Permittee is solely responsible for the payment of fees for all planned land disturbing activities, including all land disturbing activities within a Common Development that will be conducted by the Secondary Permittees and/or Tertiary Permittees.

Part II.D.

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### NPDES General Permit Fees

29

**II. CONSTRUCTION SITE ACTIVITY INFORMATION AND FEE CALCULATIONS**

Start Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_

Is this construction activity regulated by a certified Local Issuing Authority?  Yes  No

If Yes, Name of Local Issuing Authority: \_\_\_\_\_

NOTE: Instructions for fee calculations have been provided on Pages 6 - 7

	Acres	X	Fee	TOTAL FEE
<input type="checkbox"/> Acres Disturbed (in the nearest 1/10th acre) regulated by a certified Local Issuing Authority	_____	X	\$40	Fee: _____
<input type="checkbox"/> Acres Disturbed (in the nearest 1/10th acre) in an area with no certified Local Issuing Authority	_____	X	\$80	Fee: _____
<input type="checkbox"/> Acres Disturbed (in the nearest 1/10th acre) by an entity or activity exempt from a certified Local Issuing Authority's regulation pursuant to statute	_____	X	\$80	Fee: _____

**PLEASE MAKE CHECKS PAYABLE TO: Department of Natural Resources - EPD**

Do not mail cash. NAME ON CHECK/MONEY ORDER: \_\_\_\_\_

Do not include fees payable to the Local Issuing Authority. CHECK/MONEY ORDER NUMBER: \_\_\_\_\_

CHECK/MONEY ORDER AMOUNT: \_\_\_\_\_

Page 2

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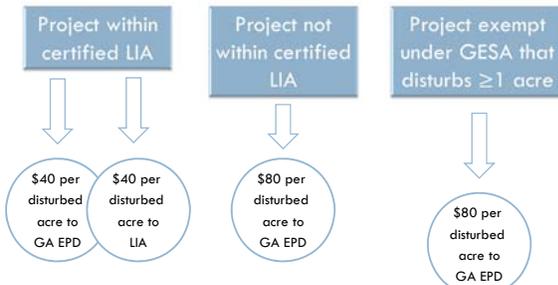
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### NPDES General Permit Fees

30




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31 **Part III. Special Conditions**

Biota Impaired Stream Segment  
TMDL Implementation Plan

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32 **Criteria**

Discharges into, or within One Mile Upstream of and within the Same Watershed as, Any Portion of a Biota Impaired Stream Segment

- Impaired Stream Segment(s) with criteria:
  - **Bio F** (Impaired Fish Community) and/or
  - **Bio M** (Impaired Macroinvertebrate Community) within
  - **Category 4a, 4b, or 5** and the potential cause is
  - Either "**NP**" (nonpoint source) or "**UR**" (urban runoff)

Part III.C.




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33 **Impaired Streams**

- The ES&PC Plan must include at least four (4) BMPs for those areas of the site which discharge to the Impaired Stream Segment
- Part III.C.2. (a) – (u)




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## Exclusions

37

- These impaired stream requirements are not applicable to the following:
  - ▣ Tertiary permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each lot is less than one (1) acre
  - ▣ Those discharges located within one (1) linear mile, but are not located within the watershed of any portion of that impaired stream segment

Part III.C.

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## Resource Information

38

- Georgia's 305(b)/303(d) List Documents (Final) can be viewed @ <http://epd.georgia.gov/georgia-305b303d-list-documents>
- Georgia's 305(b)/303(d) Impaired Streams can be viewed @ <http://www.gaswcc.org/maps2/>
- GIS Data Sets are available on the GA EPD website in ESRI Geodatabase 9.1 & ESRI Shapefile format @ <http://epd.georgia.gov/geographic-information-systems-gis-databases-and-documentation>

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## 305(b)/303(d) Map

39



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**TMDL Implementation Plan**

40

**Total Maximum Daily Load**

The ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan if the TMDL Implementation Plan for sediment was finalized at least 6 months prior to the permittee's submittal of the NOI

The list of TMDL Implementation Plans can viewed on the GA EPD website @ [www.epd.georgia.gov](http://www.epd.georgia.gov)

Part II.C.1.

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**TMDL Implementation Plan**

41

**Total Maximum Daily Load**

If no site-specific conditions or requirements have been included in the TMDL Implementation Plan for the applicable stream segments:

*"NPDES construction activities are considered a significant source of pollution and compliance with the Permits should lead to sediment loading for construction sites at or below applicable targets"*

Part II.C.1.

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42

**Part IV. ES&PC Plan**

- Stream Buffer Exemptions
- Compliance
- Contents of the ES&PC Plan
- Inspections
- Sampling

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### Stream Buffer Exemptions

43

- Stream crossings for water & sewer lines provided
  - ▣ It is within 25° of perpendicular to the stream
  - ▣ And the disturbance is not more than 50 ft. within the buffer
- Ephemeral Streams – excluding Trout streams
- Drainage Structures – warm water streams only
- Roadway Drainage Structures
- Construction of bulkheads or seawalls on:
  - ▣ Lake Sinclair & Lake Oconee

Part IV.(i)

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### Stream Buffer Exemptions

44



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### Stream Buffer Exemptions

45



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### Stream Buffer Exemptions

46

- Public Drinking Water System Reservoirs



Part IV.(j)(1)

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### Stream Buffer Exemptions

47

- Stream crossings for Utility Lines for any EMC, municipal electrical system (MES) or public utility under the regulatory jurisdiction of the PSC and/or FERC or any Cable Television System
- Right-of-Way Posts, Guy Wires, Anchors, Survey Markers and the replacement or maintenance of existing utility structures (1) undertaken by any EMC/MES or public utility under the regulatory jurisdiction of the PSC and/or FERC or (2) undertaken by DOT, GA Highway Authority, State Road & Tollway Authority or any municipality or county.

Part IV.(j)

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### Stream Buffer Exemptions

48

- Maintenance, repair and/or upgrade of SWCD Watershed Dams when under the technical supervision of USDA-NRCS



Part IV.(j)(8)

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### Coastal Marshlands Exemptions

49

- Public drinking water system reservoirs
- Utility line crossings
  - Not more than 50 ft. width of disturbance within the buffer
- Aerial utility line crossings
  - Does not exceed 100 linear ft.
  - Constructed to minimize the number of crossings
  - Disturbance to underlying vegetation is minimized
  - Vegetation is re-established in bare areas
- Fences

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### Coastal Marshlands Exemptions

50

- Right-of-Way Posts, Guy Wires, Anchors, Survey Markers and the replacement or maintenance of existing utility structures (1) undertaken by any EMC/MES or public utility under the regulatory jurisdiction of the PSC and/or FERC or (2) undertaken by DOT, GA Highway Authority, State Road & Tollway Authority or any municipality or county.

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### ES&PC Plan

51

- A site-specific Erosion, Sedimentation and Pollution Control Plan shall be designed, installed, and maintained for the entire construction activity
- The ES&PC Plan must be prepared by a certified "design professional" as defined by the permit




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### Signature

52

- The ES&PC Plan shall be signed in accordance with Part IV. and be retained on site (or a readily accessible location)
- The primary permittee of a common development shall ensure
  - ▣ That each secondary permittee is provided with a copy of the Plan
  - ▣ That each secondary permittee signs the Plan
  - ▣ That each secondary permittee understand their role in implementing the Plan

Part IV.B.1.

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### Keeping Plans Current

53

- The primary permittee(s) shall amend their Plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on BMPs with a hydraulic component
- Amendments must be certified by the “design professional”
- **Hydraulic Component**
  - ▣ BMPs where the design is based upon rainfall intensity, duration and return frequency of storms

Part IV.C.

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### 50+ Acre Sites

54

- For sites that are equal to or greater than 50 acres disturbed, regardless of the existence of a LIA, the following is required:
  - ▣ A single copy of the Plan shall be submitted to the appropriate GA EPD District Office

Part IV.A.4.b.

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### 50+ Acre Sites

55

- Stand Alone
  - ▣ The Plan shall limit the amount of disturbed area to no greater than 50 acres at any one time
- Infrastructure
  - ▣ There is no limitation on the amount of disturbed area
- Common Development
  - ▣ The Plan shall limit the amount of disturbed area to no greater than 50 acres for each individual permittee at any one time, and no more than 50 contiguous acres total at any one time

Part IV.D.3.

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### 50+ Acre Sites

56

- The GA EPD will approve or disapprove such requests within 35 days of receipt
- If the GA EPD approves a request to disturb 50 acres or more at any one time, at least four (4) BMPs from Part III.C.2. (a) – (u) shall be included on the Plan

Part IV.D.3.

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### 7-Day Letter

57

- For Stand Alone, Common Development & non-linear Infrastructure construction activities, the “design professional” who prepared the ES&PC Plan must inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days after installation
- The “design professional” must report the results of the inspection to the permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report.

Part IV.A.5.

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## 7-Day Letter

58

- Alternatively, for linear infrastructure construction activities, the “design professional” who prepared the ES&PC Plan must inspect the installation of the sediment storage requirements and perimeter control BMPs for the **INITIAL PHASED SUB-PART OR SEGMENT (> 10% of total disturbed area but not < one (1) acre) of the linear infrastructure project and ALL SEDIMENT BASINS** within seven (7) days after installation.
- The “design professional” must report the results of the inspection to the permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report.

Part IV.A.5.

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## Contents of the Plan

59



- The ES&PC Plan shall include “BMPs”, including sound conservation and engineering practices, which are consistent with, and no less stringent than the “Manual”

Part IV.D.

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## Permittee Inspections

60

Daily	Weekly & After ≥½” Rainfall	Monthly
<ul style="list-style-type: none"> <li>□ Petroleum storage areas</li> <li>□ Locations where vehicles enter and exit the site</li> <li>□ Measure rainfall every 24 hours except any non-working Saturday, Sunday and Federal Holiday until a NOT is filed (N/A for Secondary Permittees)</li> </ul>	<ul style="list-style-type: none"> <li>□ Disturbed areas</li> <li>□ Areas used for storage of materials that are exposed to precipitation</li> <li>□ Structural control measures (BMPs)</li> <li>□ Discharge points</li> </ul>	<ul style="list-style-type: none"> <li>□ Areas of the site that have undergone “final stabilization”</li> <li>□ Discharge Points</li> </ul>

For Infrastructure Construction projects, these inspections are required every 14 days and after ½” rainfall

Part IV.D.4.a-c.(1-4)

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### Sampling Requirements

67

- These permits require the sampling of nephelometric turbidity in receiving water(s), outfalls, or combination thereof
- Applicable to
  - ▣ Primary permittees – Total planned disturbance equal to or greater than one (1) acre
  - ▣ Secondary permittees – **N/A**
  - ▣ Tertiary permittees – Total planned disturbance equal to or greater than five (5) acres

Part IVD.6.

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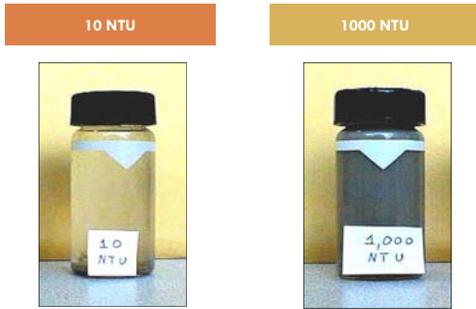
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### Nephelometric Turbidity Units

68



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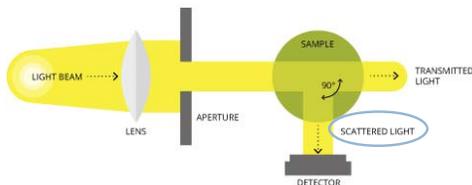
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### Nephelometric Turbidity Units

69

Measurement of the amount of light passing through a sample of water



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### Sampling Methodology

70

- The analytical method included on the ES&PC Plan must include quality control/quality assurance procedures
- The narrative on the ES&PC Plan must include a precise sampling methodology for each sampling location
- All sampling shall be collected by “grab samples” and analyzed in accordance with the methodology and test procedures established by 40 CFR Part 136 & “NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-011”

Part IV.D.6.

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### Sampling

71

- Containers should be labeled prior to collection
- Large, well cleaned glass or plastic jars should be used for collecting samples
- The samples should be taken from the center of the receiving water
- The container should be held so that it faces upstream
- The samples should be kept free of floating debris
- Samples should be analyzed within 48 hours after collection



Part IV.D.6.

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### Sample Methodology

72

#### Outfall Sampling Methodology

- A rationale must be included on the Plan for the NTU limit(s) selected from Appendix B rationale

#### Receiving Waters Methodology

- The increase in turbidity from the Upstream sample to the Downstream sample shall not be more than:
  - ≤ 10 NTUs (Cold Water)
  - ≤ 25 NTUs (Warm Water)

Part III.D.5.

Part III.D.4.

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### Appendix B Rationale

**Waters Supporting Warm Water Fisheries**

Surface Water Drainage Area square miles

Site Size <small>acres</small>	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	7	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01 +	50	50	50	50	50	100	200	100

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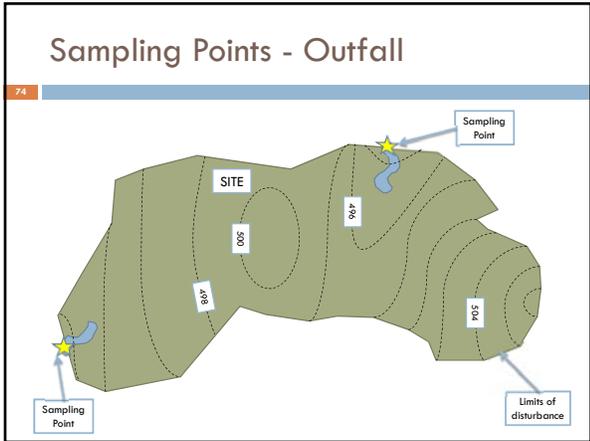
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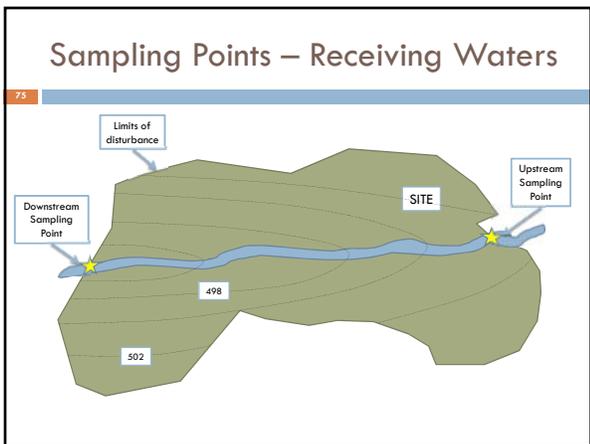
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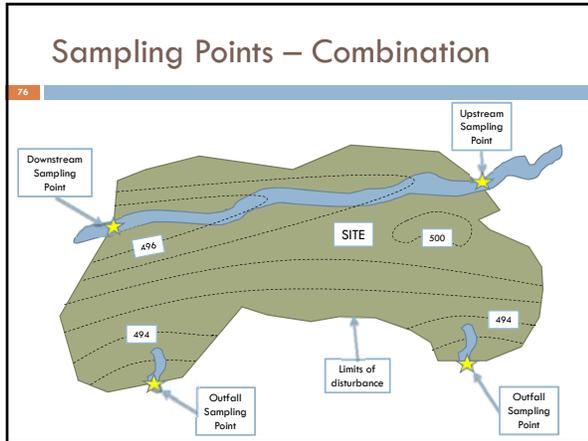
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### Sampling Frequency

77

□ Samples from the following qualifying events shall be taken no more than twelve (12) hours after the beginning of the storm water discharge:

- 1) The first rain event that reaches or exceeds 0.5 inch after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations
- 2) The first rain event that reaches or exceeds 0.5 inch either ninety (90) days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT

Part IV.D.6.d.3(a-b)

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### Additional Sampling

78

□ If any BMPs on site are not properly designed, installed, and maintained, turbidity samples shall be taken for each subsequent rain event that reaches or exceeds 0.5 inch until the selected turbidity standard is attained or inspections determine that BMPs have been installed and maintained properly

Part IV.D.6.d.3(c)

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### Sampling Frequency

79

- Where sampling is required but not possible (or not required because there was no discharge), the primary permittee, or the tertiary permittee, must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations

Part IV.D.6.d.3(d)

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### Reporting of Results

80

- Reports should include the following:
  - The rainfall amount, date, location and time of sampling
  - The name of the certified personnel who performed the sampling
  - The date and time the analyses were performed
  - The name of the certified personnel who performed the analyses
  - References and written procedures
  - Results of the analyses, including instrument readouts
  - Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU"
  - Certification statement that sampling was conducted per the plan

Part IV.E.2.(a-i)

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### Reporting of Results

81

- The permittee is required to submit sampling results to the GA EPD District Office by the 15<sup>th</sup> day of the month following the sampling event
- Reports should be submitted by return receipt certified mail (or similar service)



Part IV.E.1.

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85 **Part VI. Termination of Coverage**

Eligibility  
Contents  
Submittal

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86 **Notice of Termination**

**NOTICE OF TERMINATION**  
VERSION 2015  
State of Georgia  
Department of Natural Resources  
Environmental Protection Division  
No State Coverage Under the NPDES General Permit  
To Discharge Storm Water Associated With Construction Activity  
THESE PERMITS EXPIRE JULY 31, 2016

**PERMIT TYPE (Check Only One)**

- General
- Construction
- Commercial

**PERMITTEE TYPE (Check Only One and Complete)**

- Primary Permittee
- Secondary Permittee (Applicable only to General NPDES Permit No. GA00000)
- Tertiary Permittee (Applicable only to General NPDES Permit No. GA00000)

Applicable to all permittees

Part VI.A.1.

- Eligibility
  - All planned construction activities have been completed
  - Where the entire site has undergone final stabilization
  - All storm water discharges have ceased
  - The site is in compliance with the permit
  - All temporary BMPs have been removed

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87 **“Final Stabilization”**

□ All soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the “Manual” (excluding a crop of annual vegetation and seeding of target perennials appropriate for the regions)

Part I.B.

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### Termination Eligibility

88

- The primary permittee of a **Common Development** may submit a Notice of Termination, even if all planned construction activities have not been completed, if and only if:
  - Construction activities have ceased for ninety (90) days
  - Final stabilization has been implemented by the primary and all secondary permittees
  - All secondary permittees have submitted a NOT
  - The site is in compliance with the Permit
  - All temporary BMPs have been removed

Part VI.A.1.

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### Termination Eligibility

89

- The primary permittee of a **Infrastructure Construction** project may submit a Notice of Termination for each phase of the project, not to exceed four (4) phases
- The disturbed acreage for each phase must be equal or greater than 25% of the total disturbed acreage – except for the final phase
- For the final phase, the disturbed acreage must be equal to or greater than 10% of the total estimated disturbed acreage

Part VI.A.1.

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### Contents

90

- The project site name and location – must correspond to NOI
- The owner/operator's legal name, address, telephone, and email
- Indication whether permittee is primary, secondary, or tertiary
- The name of the receiving water(s)
- Copies of all sampling reports
- Copy of NOI
- Signed Certification Statement

Part VI.B.

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## Submittal

91

- All Notices of Termination shall be submitted by return receipt mail to the appropriate GA EPD District Office **AND** Local Issuing Authority (LIA) in jurisdictions authorized to issue Land Disturbing Activity (LDA) permits

Part VI.C.

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## Summary

92

- NPDES Permits govern land disturbance of one (1) acre or more and individual lots within a common development
- Notice of Intent has to be submitted fourteen (14) days prior to the commencement of construction activities
- All ES&PC Plan contents can be found in Part IV. of the permits
- Notice of Termination can only be filed once the site has reached final stabilization

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## Questions?

GSWCC  
Urban Program  
P.O. Box 8024  
Athens, GA 30603  
(706) 552-4474



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Insert Yellow Sheet

Back of Yellow Sheet

**State of Georgia  
Department of Natural Resources  
Environmental Protection Division**

**Authorization To Discharge Under The  
National Pollutant Discharge Elimination System  
Storm Water Discharges Associated With Construction Activity  
For Stand Alone Construction Projects**

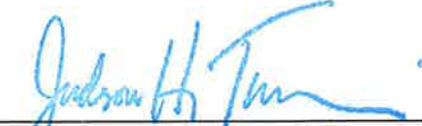
In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Clean Water Act, as amended (33 U.S.C.1251 et seq.), hereinafter called the "Clean Water Act," and the Rules and Regulations promulgated pursuant to each of these Acts, new and existing storm water point sources within the State of Georgia that are required to have a permit, upon submittal of a Notice of Intent, are authorized to discharge storm water associated with construction activity to the waters of the State of Georgia in accordance with the limitations, monitoring requirements and other conditions set forth in Parts I through VI hereof.

This permit shall become effective on September 24, 2013.

This permit and the authorization to discharge shall expire at midnight, July 31, 2018.

Signed this 23rd day of September 2013



  
\_\_\_\_\_  
Director,  
Environmental Protection Division

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## Part I. COVERAGE UNDER THIS PERMIT

### A. Permit Area.

This permit regulates point source discharges of storm water to the waters of the State of Georgia from construction activities, as defined in this permit.

**B. Definitions.** All terms used in this permit shall be interpreted in accordance with the definitions as set forth in the Georgia Water Quality Control Act (Act) and the Georgia Rules and Regulations for Water Quality Control Chapter 391-3-6 (Rules), unless otherwise defined in this permit:

1. "Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
2. "Buffer" means the area of land immediately adjacent to the banks of State waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.
3. "Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the State Soil and Water Conservation Commission.
4. "Commencement of Construction" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities.
5. "Common Development" means a contiguous area where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development.
6. "Construction Activity" means the disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities which may result in soil erosion. Construction activity does not include agricultural and silvicultural practices, but does include agricultural buildings.
7. "CPESC" means Certified Professional in Erosion and Sediment Control with current certification by EnviroCert International, Inc. ([www.EnviroCertIntl.org](http://www.EnviroCertIntl.org)).
8. "Design Professional" means a professional licensed by the State of Georgia in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a Certified Professional in Erosion and Sediment Control (CPESC) with a current certification by EnviroCert International, Inc. Design Professionals shall practice in a manner that complies with applicable Georgia law governing professional licensure.
9. "CWA" means Federal Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972).
10. "Director" means the Director of the Environmental Protection Division or an authorized representative.
11. "Division" means the Environmental Protection Division of the Department of Natural Resources.
12. "Erosion" means the process by which land surface is worn away by the action of wind, water, ice or gravity.

13. "Erosion, Sedimentation and Pollution Control Plan" or "Plan" means a plan for the control of soil erosion, sediment and pollution resulting from a construction activity.
14. "Filling" means the placement of any soil or solid material either organic or inorganic on a natural ground surface or an excavation.
15. "Final Stabilization" means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).
16. "General Contractor" means the operator of the stand alone construction or site.
17. "Impossible" means the monitoring location(s) are either physically or legally inaccessible, or access would cause danger to life or limb.
18. "Landfill" means an area of land or an excavation in which waste materials are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well or waste pile as defined by Georgia NPDES General Permit GAR000000, and which area of land or excavation must be certified by EPD before it can begin waste disposal operations.
19. "Landfill Cell(s)" means a defined area within a landfill where waste materials are permanently disposed and that must be certified by EPD for use before such cell(s) can begin receiving waste materials after which those activities associated with waste receipt and disposal in the landfill cell(s) shall not be considered construction activity as defined by this permit.
20. "Local Issuing Authority" means the governing authority of any county or municipality which is certified pursuant to Official Code of Georgia Section 12-7-8(a).
21. "Mass Grading" means the movement of earth by mechanical means to alter the gross topographic features (elevations, slopes, etc.) to prepare a site for final grading and the construction of facilities (buildings, roads, parking, etc.).
22. "Nephelometric Turbidity Unit (NTU)" means a numerical unit of measure based upon photometric analytical techniques for measuring the light scattered by fine particles of a substance in suspension.
23. "NOI" means Notice of Intent to be covered by this permit (see Part II).
24. "Normal Business Hours" means Monday thru Friday, 8:00 AM to 5:00 PM, excluding any non-working Saturday, non-working Sunday and non-working Federal holiday.
25. "NOT" means Notice of Termination (see Part VI).
26. "Operator" means the entity that has the primary day-to-day operational control of those activities at the construction site necessary to ensure compliance with Erosion, Sedimentation and Pollution Control Plan requirements and permit conditions.
27. "Other Water Bodies" means ponds, lakes, marshes and swamps which are waters of the State.

28. "Outfall" means the location where storm water, in a discernible, confined and discrete conveyance, leaves a facility or construction site or, if there is a receiving water on site, becomes a point source discharging into that receiving water.

29. "Owner" means the legal title holder to the real property on which is located the facility or site where construction activity takes place.

30. "Permittee" means any entity that has submitted a Notice of Intent.

31. "Phase" or "Phased" means sub-parts or segments of construction projects where the sub-part or segment is constructed and stabilized prior to completing the entire construction site.

32. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure or container from which pollutants are or may be discharged. This term also means sheetflow which is later conveyed via a point source to waters of the State. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

33. "Primary Permittee" means the Owner or the Operator or both of a tract of land for a construction project subject to this permit.

34. "Proper design" and "properly designed" means designed in accordance with the design requirements and specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the Manual as approved by the State Soil and Water Conservation Commission up until the date of NOI submittal.

35. "Receiving Water(s)" means all perennial and intermittent waters of the State into which the runoff of storm water from a construction activity will actually discharge, either directly or indirectly.

36. "Roadway Project(s)" means traveled ways including but not limited to roads, sidewalks, multi-use paths and trails, and airport runways and taxiways. This term also includes the accessory components to a roadway project that are necessary for the structural integrity of the roadway and the applicable safety requirements. These accessory components include but are not limited to slopes, shoulders, storm water drainage ditches and structures, guardrails, lighting, signage, cameras and fences and exclude subsequent landscaping and beautification projects.

37. "Sediment" means solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by, wind, water, ice, or gravity as a product of erosion.

38. "Sedimentation" means the action or process of forming or depositing sediment.

39. "Sheetflow" means runoff which flows over the ground surface as a thin, even layer, not concentrated in a channel.

40. "Site" or "Construction Site" means a facility of any type on which construction activities are occurring or are to occur which may result in the discharge of pollutants from a point source into the waters of the State.

41. "Stand Alone Construction" or "Stand Alone Construction Project" means construction activities that are not part of a common development where the primary permittee chooses not to use secondary permittees.

42. "Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

43. "Structural Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by utilizing the mechanical properties of matter for the purpose of either changing the surface of the land or storing, regulating or disposing of runoff to prevent excessive sediment loss.

44. "Sub-contractor" means an entity employed or retained by the permittee to conduct any type of construction activity (as defined in this permit) at a stand alone construction site. Sub-contractors must complete the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19. Sub-contractors are not permittees unless they meet the definition of either a primary, secondary or tertiary permittee.

45. "Surface Water Drainage Area" means the hydrologic area starting from the lowest downstream point where the storm water from the construction activity enters the receiving water(s) and following the receiving water(s) upstream to the highest elevation of land that divides the direction of water flow. This boundary will connect back with the storm water entrance point. Boundary lines follow the middle of the highest ground elevation or halfway between contour lines of equal elevation.

46. "Trout Streams" means waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

47. "Utility Company or Utility Contractor" means, for purposes of this Permit, an entity or sub-contractor that is responsible, either directly or indirectly, for the construction, installation, and maintenance of conduits, pipes, pipelines, cables, wires, trenches, vaults, manholes, and similar structures or devices for the conveyance of natural gas (or other types of gas), liquid petroleum products, electricity, telecommunications (telephone, data, television, etc.), water, storm water or sewage.

48. "USGS Topographic Map" means a current quadrangle, 7½ minute series map prepared by the United States Department of the Interior, Geological Survey.

49. "Vegetative Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by covering the soil with: (1) permanent seeding, sprigging or planting, producing long-term vegetative cover; (2) temporary seeding, producing short-term vegetative cover; or (3) sodding, covering areas with a turf of perennial sod forming grass.

50. "Waters Supporting Warm Water Fisheries" means all waters of the State that sustain, or have the potential to sustain, aquatic life but excluding trout streams.

51. "Waters of Georgia" or "Waters of the State" means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, wetlands, and all other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

### **C. Eligibility.**

**1. Construction Activities.** This permit authorizes, subject to the conditions of this permit:

a. all discharges of storm water associated with stand alone construction projects that will result in land disturbance equal to or greater than one (1) acre occurring on or before, and continuing after, the effective date of this permit, (henceforth referred to as existing storm water discharges from construction activities) except for discharges identified under Part I.C.3.;

b. all discharges of storm water associated with stand alone construction projects that will result in land disturbance equal to or greater than one (1) acre occurring after the effective date of this permit, (henceforth referred to as storm water discharges from construction activities); and

c. coverage under this permit is not required for discharges of storm water associated with minor land disturbing activities (such as home gardens and individual home landscaping, repairs, maintenance work, fences and other related activities which result in minor soil erosion) conducted outside of the 25 foot buffer along the banks of all State waters requiring a buffer and outside of the 50 foot buffer along the banks of all State waters classified as 'trout streams' requiring a buffer on individual residential lots sold to homeowners where all planned construction activities on that lot have been completed and have undergone final stabilization.

**2. Mixed Storm Water Discharges.** This permit may only authorize a storm water discharge from a construction site or construction activities mixed with a storm water discharge from an industrial source or activity other than construction where:

- a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;
- b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
- c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing such discharges and the discharges are in compliance with a different NPDES permit.

**3. Limitations on Coverage.** The following storm water discharges from construction sites are not authorized by this permit:

- a. storm water discharges associated with an industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization;
- b. discharges that are mixed with sources of non-storm water other than discharges which are identified in Part III.A.2. of this permit and which are in compliance with Part IV.D.7. (non-storm water discharges) of this permit;
- c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges; and
- d. storm water discharges from construction sites that the Director (EPD) has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.

**4. Compliance with Water Quality Standards.** No discharges authorized by this permit shall cause violations of Georgia's in-stream water quality standards as provided by the Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03.

#### **D. Authorization.**

1. Any person desiring coverage under this permit must submit a Notice of Intent (NOI) to the EPD and the NOI must be received by the EPD in accordance with the requirements of Part II, using NOI forms provided by the EPD (or an exact photocopy thereof), in order for storm water discharges from construction sites to be authorized.
2. Unless notified by the Director to the contrary, a permittee who submits an NOI in accordance with the requirements of this permit is authorized to discharge storm water from construction sites under the terms and

conditions of this permit fourteen (14) days after the date that the NOI is postmarked. The Director may deny coverage under this permit and require submittal of an application for an individual NPDES permit or alternative general NPDES permit based on a review of the NOI or other information. Should the Director deny coverage under this permit, coverage under this permit is authorized until the date specified in the notice of denial by the Director.

3. Where a new permittee is to begin work on-site after an NOI for the facility/construction site has been submitted, that new permittee must submit a new NOI in accordance with Part II.

**E. Continuing Obligations of Permittees.** Unless and until responsibility for a site covered under this permit is properly terminated according to the terms of the permit, the current permittee remains responsible for compliance with all applicable terms of the permit and for any violations of said terms.

## **Part II. NOTICE OF INTENT REQUIREMENTS**

### **A. Deadlines for Notification.**

1. Except as provided in Part II.A.2., II.A.3. and II.A.5., Owners or Operators or both who intend to obtain coverage under this general permit for storm water discharges from a construction site (where construction activities begin after issuance of this permit), shall submit a Notice of Intent (NOI) in accordance with the requirements of this Part at least fourteen (14) days prior to the commencement of construction activities.

2. For sites where construction activities, subject to this permit, are occurring on the effective date of this permit, the Owner or Operator or both shall submit a re-issuance NOI for an existing construction site in accordance with the requirements of this part no later than ninety (90) days after the effective date of this permit. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.

3. A discharger is not precluded from submitting an NOI in accordance with the requirements of this part after the dates provided in Parts II.A.1. or II.A.2. of this permit. In such instances, EPD may bring an enforcement action for failure to submit an NOI in a timely manner or for any unauthorized discharges of storm water associated with construction activity that have occurred on or after the dates specified in Part II.A.1. and II.A.2.

4. Where an Owner or an Operator or both changes after an NOI has been filed, the subsequent Owner or Operator or both must file a change of information NOI in accordance with this Part by the earlier to occur of (a) seven (7) days before beginning work at the facility/construction site or (b) thirty (30) days from acquiring legal title to the facility/construction site. In the event a lender or other secured creditor acquires legal title to the facility/construction site, such party must file a change of information NOI in accordance with this Part by the earlier to occur of (a) seven (7) days before beginning work at the facility/construction site; or (b) thirty (30) days from acquiring legal title to the facility/construction site. Stabilization and BMP installation and/or maintenance measures of a disturbed site, by the subsequent Owner or Operator, may occur in advance of filing a new NOI, without violation of this permit. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.

5. For sites where construction activities will result in land disturbance equal to or greater than one (1) acre that are required as a result of storm- or emergency-related repair work, the Owner or Operator or both shall notify the appropriate EPD District Office within three (3) days of commencement of said construction activities. The Owner

or Operator or both shall submit the NOI to the appropriate EPD district office as soon as possible after the storm- or emergency-related event but no later than fourteen (14) days after the commencement of construction activities and shall submit the Plan in accordance with Part IV.A.6.

## **B. Notice of Intent Contents.**

**1. Primary Permittee.** A single Notice of Intent for the primary permittee (i.e., one NOI signed by the Owner or the Operator or both) shall be signed in accordance with Part V.G.1. of this permit and shall include the following information:

- a. The project construction site name, GPS location (decimal degrees) of construction exit, construction site location (e.g., street address), city (if applicable) and county of the construction site for which the notification is submitted. The construction site location information must be sufficient to accurately locate the construction site;
- b. The Owner's legal name, address, telephone number and email address; and if available, the Operator's legal name, address, telephone number and email address; and if applicable, the Duly Authorized Representative's legal name and/or position name, telephone number and email address;
- c. The name, telephone number and email address of the individual to whom the permittee has assigned the responsibility for the daily operational control (i.e., construction superintendent, etc.) of the construction site;
- d. The name of the initial receiving water(s) or if unnamed the first named blue line stream indicated on the appropriate USGS Topographic map, and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4, and the permittee's determination of whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org);
- e. The name of the receiving water(s) located within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s) shown on Georgia's most current "305(b)/303(d) List Documents (Final)" for the criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) at [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html);
- f. An estimate of project start date and completion date, a schedule for the timing of the various construction activities, the number of acres of the site on which soil will be disturbed, and the surface water drainage area (if applicable). For projects that began on or before the effective date of this permit, the start date must be the actual start date of construction;
- g. The following certification shall be signed in accordance with Part V.G.1. of this permit:

"I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all requirements of this permit."
- h. The type of construction activity category (from those listed on the NOI) conducted at the site;

i. The location of the receiving water(s) or outfall(s) or a combination of receiving water(s) and outfall(s) to be sampled on a map or drawing of appropriate scale. When it is determined by the primary permittee that some or all of the outfall(s) will be sampled, the applicable nephelometric turbidity unit (NTU) selected from Appendix B (i.e., based upon the size of the construction site and the surface water drainage area) must be shown for each outfall to be sampled.

j. For stand alone construction disturbing more than 50 acres, which began after the effective date of this permit, include a single copy of the Erosion, Sedimentation, and Pollution Control Plan;

k. NOIs may be submitted for separate phases of projects with a total planned disturbance greater than 5.0 acres, provided that each phase shall not be less than 1.0 acre. Phased NOIs shall include all documentation required by this permit for each phase, including fees; and

l. Any other information specified on the NOI in effect at the time of submittal.

**C. Notice of Intent Submittal.** NOIs are to be submitted by return receipt certified mail (or similar service) to both the appropriate EPD District Office according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by EPD then the NOI may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated alternative location from commencement of construction until such time as a Notice of Termination (NOT) is submitted in accordance with Part VI.

**D. Fees.** Any applicable fees shall be submitted by the **Primary Permittee** in accordance with Rules and Regulations for Water Quality Control (Rules) promulgated by the Board of Natural Resources. By submitting an NOI for coverage under this permit the primary permittee agrees to pay any fees required, now or in the future, by such Rules authorized under O.C.G.A. Section 12-5-23(a)(5)(A), which allows the Board of Natural Resources to establish a fee system. Fees may be assessed on land disturbing activity proposed to occur on or after the effective date of this permit and shall be paid in accordance with such Rules.

**E. Renotification.** Upon issuance of a new or different general permit for some or all of the storm water discharges covered by this permit, the permittee is required to notify the EPD of their intent to be covered by the new or different general permit. The permittee must submit a new Notice of Intent in accordance with the notification requirements of the new or different general permit.

### **PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS**

#### **A. Prohibition on Non-Storm Water Discharges.**

1. Except as provided in Part I.C.2. and III.A.2., all discharges covered by this permit shall be composed entirely of storm water.

2. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharge is explicitly listed in the Erosion, Sedimentation and Pollution Control Plan and is in compliance with Part IV.D.7.; discharges from fire fighting activities; fire hydrant flushing; potable water sources including water line flushing; irrigation drainage; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials or pollutants.

3. This permit does not authorize the discharge of soaps or solvents used in vehicle and equipment washing.
4. This permit does not authorize the discharge of wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.

**B. Releases in Excess of Reportable Quantities.**

1. The discharge of hazardous substances or oil in the storm water discharge(s) from a site shall be prevented. This permit does not relieve the permittee of the reporting requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR Part 117 and 40 CFR Part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 or 40 CFR 302 occurs during a 24 hour period, the permittee is required to notify EPD at (404) 656-4863 or (800) 241-4113 and the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 and 40 CFR 302 as soon as he/she has knowledge of the discharge.
2. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

**C. Discharges into, or within One Mile Upstream of and within the Same Watershed as, Any Portion of a Biota Impaired Stream Segment.**

Any permittee who intends to obtain coverage under this permit for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of this permit if the Impaired Stream Segment has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's 305(b)/303(d) List Documents (Final)" can be viewed on the EPD website, [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html).

1. If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee's submittal of the NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee's discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to a permittee's discharge(s) to the Impaired Stream Segment, then the permittee must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website, [www.gaepd.org](http://www.gaepd.org).
2. In order to ensure that the permittee's discharge(s) do not cause or contribute to a violation of State water quality standards, the Plan must include at least four (4) of the following best management practices (BMPs) for those areas of the site which discharge into or within one (1) linear mile upstream and within the same watershed as the Impaired Stream Segment:
  - a. During all construction activities as defined in this permit, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width pursuant to this section.

- b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
- c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
- d. A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted.
- e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize all areas left disturbed for more than seven (7) calendar days in accordance with Part III.D.1. of this permit.
- f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of this permit.
- g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6(a)(1).
- h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
- i. Limit the amount of area disturbed at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
- j. Use "Dirt II" techniques available on the EPD website, [www.gaepd.org](http://www.gaepd.org), (e.g., seep berms, sand filters, anionic PAM) to model and manage all construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
- k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of 6 (six) inches to document improved levels of soil carbon after final stabilization of the construction site.
- l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
- m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan.
- n. Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
- o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within all construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
- p. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever construction storm water (including sheet flow) may be discharged.
- q. Conduct soil tests to identify and to implement site-specific fertilizer needs.

- r. Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3). (a) – (c) of this permit.
- s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
- t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission).
- u. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included in the Plan.

#### **D. Management Practices and Permit Violations.**

1. Best management practices, as set forth in this permit, are required for all construction activities, and must be implemented in accordance with the design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the Director or to any other allegation of noncompliance with Part III.D.3. and Part III.D.4.

2. Except as required to install the initial sediment storage requirements and perimeter control BMPs as described in Part IV.D.3., the initial sediment storage requirements and perimeter control BMPs must be installed and implemented prior to conducting any other construction activities (e.g., clearing, grubbing and grading) within the construction site or when applicable, within phased sub-parts or segments of the construction site. Failure to comply shall constitute a violation of this permit for each day on which construction activities occur. The design professional who prepared the Plan must inspect the initial sediment storage requirements and perimeter control BMPs in accordance with Part IV.A.5. within seven (7) days after installation.

3. Failure to properly design, install, or maintain best management practices shall constitute a violation of this permit for each day on which such failure occurs. BMP maintenance as a result of the permittee's routine inspections shall not be considered a violation for the purposes of this paragraph. If during the course of the permittee's routine inspection BMP failures are observed which have resulted in sediment deposition into Waters of the State, the permittee shall correct the BMP failures and shall submit a summary of the violations to EPD in accordance with Part V.A.2. of this permit.

4. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such discharge results in the turbidity of receiving water(s) being increased by more than ten (10) nephelometric turbidity units for waters classified as trout streams or more than twenty-five (25) nephelometric turbidity units for waters supporting warm water fisheries, regardless of a permittee's certification under Part II.B.1.i. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed.

5. When the permittee has elected to sample outfall(s), the discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding the value selected from Appendix B applicable to the construction site. As set forth therein, the nephelometric turbidity unit (NTU) value shall be selected from Appendix B based upon the size of the construction site, the surface water drainage area and whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

#### **Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN**

A site-specific Erosion, Sedimentation and Pollution Control Plan (Plan) shall be designed, installed and maintained for the entire construction activity covered by this permit. The Erosion, Sedimentation and Pollution Control Plan must be prepared by a design professional as defined by this permit. All persons involved in Plan preparation shall have completed the appropriate certification course, pursuant to O.C.G.A. 12-7-19 (b), approved by the State Soil and Water Conservation Commission. The design professional preparing the Plan must include and sign the following certification in the Plan:

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001."

The Plan shall include any additional certifications regarding the design professional's site visit in accordance with the Rules for Erosion and Sedimentation Control promulgated by the Board of Natural Resources:

"I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision."

The Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and O.C.G.A. 12-7-6, as well as the following:

(i). Except as provided in Part IV.(iii). below, no construction activities shall be conducted within a 25 foot buffer along the banks of all State waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where bulkheads and seawalls must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair.. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) stream crossings for water lines and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (3) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, (b) native riparian vegetation is re-

- established in any bare or disturbed areas within the buffer and (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,
- (4) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
  - (5) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification;
  - (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit;
  - (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
  - (8) Maintenance (excluding dredging), repair and/or upgrade of Soil and Water Conservation District watershed dams when under the technical supervision of the USDA Natural Resources Conservation Service.

(ii). No construction activities shall be conducted within a 50 foot buffer, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, along the banks of any State waters classified as 'trout streams' except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-7-6, or where a roadway drainage structure must be constructed; provided, however, that small springs and streams classified as 'trout streams' which discharge an average annual flow of 25 gallons per minute or less shall have a 25 foot buffer or they may be piped, at the discretion of the permittee, pursuant to the terms of a rule providing for a general variance promulgated by the Board of Natural Resources including notification of such to EPD and the Local Issuing Authority of the location and extent of the piping and prescribed methodology for minimizing the impact of such piping and for measuring the volume of water discharged by the stream. Any such pipe must stop short of the downstream permittee's property, and the permittee must comply with the buffer requirement for any adjacent trout streams. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) stream crossings for water lines and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width

- of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (3) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, (b) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,
  - (4) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
  - (5) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification,
  - (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit ,
  - (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken by any electric membership corporation or municipal electrical system or any public utility under the, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
  - (8) Maintenance (excluding dredging), repair and/or upgrade of Soil and Water Conservation District watershed dams when under the technical supervision of the USDA Natural Resources Conservation Service.

(iii). Except as provided above, for buffers required pursuant to Part IV.(i). and (ii)., no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit.

Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan must be prepared by the primary permittee for the stand alone construction project.

**A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.
2. For construction activities that began on or before the effective date of this permit and were subject to the regulations under the previous permit, the permittee(s) shall continue to operate under the existing Plan.
3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the stand alone development that corresponds with the NOI being submitted and the primary permittee(s) shall implement the Plan on or before the day construction activities begin.
4. Additional Plan Submittals.
  - a. For all projects identified under Part I.C.1.b., which begin after the effective date of this permit, in a jurisdiction where there is no certified Local Issuing Authority regulating that project, a single copy of the Plan must be submitted to the EPD Watershed Protection Branch and a second copy of the Plan must be submitted to the appropriate EPD District Office prior to or concurrent with the NOI submittal. The second copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device. The EPD Watershed Protection Branch will review Plans for deficiencies using the applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted.
  - b. For sites that are equal to or greater than 50 acres of disturbed area, regardless of the existence of a certified Local Issuing Authority in the jurisdiction, one of the following submissions is also required:
    - (i) for all projects which begin after the effective date of this permit a single copy of the NOI and a single copy of the Plan shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.
    - (ii) for all projects which began on or before the effective date of this permit single copy of the NOI and a single copy of the Plan, if amended, shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.
  - c. For all projects where the construction activity as indicated on the existing NOI has changed, the amended Plans must be submitted in accordance with Part IV.A.4.a. In addition, the permittee must file a change of information NOI in accordance with Part II.
5. For stand alone projects that begin construction activity after the effective date of this permit, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

6. For storm- or emergency-related repair work, the permittee shall implement appropriate BMPs and certified personnel (provided by the primary permittee) shall inspect at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater. If the storm- or emergency-related repair work will not be completed within sixty (60) days of commencement of construction activity, a single copy of the Plan shall be submitted to EPD and the permittee shall comply with all requirements of this permit on the sixty-first (61st) day.

#### **B. Signature and Plan Review.**

1. The Erosion, Sedimentation and Pollution Control Plan shall be signed in accordance with Part IV., and be retained on the site (or, if not possible, at a readily accessible location) which generates the storm water discharge in accordance with Part IV.F. of this permit.

2. The primary permittee shall make Plans available upon request to the EPD; to designated officials of the local government reviewing soil erosion and sediment control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system.

3. EPD may notify the primary permittee at any time that the Plan does not meet one or more of the minimum requirements of this Part. Within seven (7) days of such notification (or as otherwise provided by EPD), the primary permittee shall make the required changes to the Plan and shall submit to EPD either the amended Plan or a written certification that the requested changes have been made.

**C. Keeping Plans Current.** The primary permittee(s) shall amend their Plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on BMPs with a hydraulic component (i.e., those BMPs where the design is based upon rainfall intensity, duration and return frequency of storms) or if the Plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part IV.D.3. Amendments to the Plan must be certified by a design professional as provided in this permit.

**D. Contents of Plan.** The Erosion, Sedimentation and Pollution Control Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, as well as the following:

**1. Checklist.** Each plan shall include a completed Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the applicable Checklist as approved by the State Soil and Water Conservation Commission up until the date of the NOI submittal. The applicable checklists are available on the EPD website, [www.gaepd.org](http://www.gaepd.org).

**2. Site description.** Each site-specific Plan shall provide a description of pollutant sources and other information as indicated:

a. A description of the nature of the construction activity;

b. A detailed description and chart or timeline of the intended sequence of major activities which disturb soils for major portions of the site (i.e., initial sediment storage requirements and perimeter BMPs, clearing and grubbing activities, excavation activities, grading activities, infrastructure activities, immediate and final stabilization activities);

- c. Estimates of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;
- d. An estimate of the runoff coefficient or peak discharge flow of the site prior to the construction activities and after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;
- e. A site-specific map indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, an outline of areas which are not to be disturbed, the location of major structural and nonstructural controls identified in the Plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and
- f. Identify the receiving water(s) and areal extent of wetland acreage at the site;

**3. Controls.** Each Plan shall include a description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase Plan. The Plan will include appropriate staging and access requirements for construction equipment. Plans submitted after the effective date of this permit shall limit the amount of disturbed area to no greater than 50 acres at any one time without prior written authorization from the appropriate EPD District Office according to the schedule in Appendix A of this permit. EPD will approve or disapprove such requests within 35 days of receipt. Failure of EPD to act within 35 days shall be considered an approval of such requests. If the EPD District Office approves a request to disturb 50 acres or more at any one time, the Plan must include at least four (4) of the best management practices listed in Part III.C.2. of this permit.

The Plan will clearly describe for each major activity identified in Part IV.D.2.b. appropriate control measures and the timing during the construction process that the measures will be implemented. The primary permittee is encouraged to utilize the document, *Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites*, EPA 833-R-060-04, May 2007 ([www.epa.gov/npdes/pubs/sw\\_swppp\\_guide.pdf](http://www.epa.gov/npdes/pubs/sw_swppp_guide.pdf)), when preparing the Plan. The description and implementation of controls shall address the following minimum components:

a. Erosion and sediment controls.

(1). Stabilization measures. A description of interim and permanent stabilization measures, including site-specific scheduling of the implementation of the measures. Site plans should ensure that existing vegetation is preserved and that disturbed portions of the site are stabilized. Stabilization measures may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the Plan. Except as provided in paragraphs IV.D.3.(a).(1).(a) and (b). below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

(a). Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable.

(b). Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g., the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of site by the 14th day after construction activity temporarily ceased.

(2). Structural practices. A description of structural practices to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

(3). Sediment basins. For common drainage locations a temporary (or permanent) sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 1800 cubic feet (67 cubic yards) of storage area per acre drained does not apply to flows from off-site areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. For drainage locations where a temporary sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent controls is not attainable, sediment traps, silt fences, wood mulch berms or equivalent sediment controls are required for all side slope and down slope boundaries of the construction area. When the sediment fills to a volume at most of 22 cubic yards per acre for each acre of drainage area, the sediment shall be removed to restore the original design volume. This sediment must be properly disposed. Sediment basins may not be feasible at some construction projects. Careful consideration must be used to determine when a sediment basin cannot be used and/or when 67 cubic yards of storage per acre drained is not attainable and a written justification explaining the decision(s) must be included in the Plan. Perennial and intermittent waters of the State shall not be used for temporary or permanent sediment detention.

When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. Outlet structures that withdraw water from the surface are temporary BMPs and must be removed prior to submitting a Notice of Termination. For construction activities where the NOI was submitted prior to January 1, 2014, this requirement of the permit is not applicable.

(4). Alternative BMPs. The use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the State Soil and Water Conservation Commission).

(5). High performance BMPs. The use of infiltration trenches, seep berms, sand filters, dry wells, polyacrylamide, etc. for minimizing point source discharges except for large rainfall events is encouraged.

b. Storm water management. A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of

such structures after the construction activities have been completed and the site has undergone final stabilization. Operators are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site.

(1). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on-site; and sequential systems (which combine several practices). The Plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed pre-development levels.

(2). Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel for the purpose of providing a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., no significant changes in the hydrological regime of the receiving water(s)).

(3). Installation and use of Green Infrastructure approaches and practices that mimic natural processes and direct storm water where it can be infiltrated, evapotranspired or re-used with significant utilization of soils and vegetation rather than traditional hardscape collection, conveyance and storage structures are encouraged to the maximum extent practicable. Green Infrastructure practices or approaches include permeable or porous paving, vegetated swales instead of curbs and gutters, green roofs, tree boxes, rain gardens, constructed wetlands, infiltration planters, vegetated median strips, protection and enhancement of riparian buffers and floodplains, and the overall reduction in site disturbance and impervious area. Design information on Green Infrastructure practices and other ways to manage storm water can be found in the Georgia Stormwater Management Manual ([www.georgiastormwater.com](http://www.georgiastormwater.com)) and the Georgia Green Growth Guidelines ([www.coastalgadnr.org/cm/green/guide](http://www.coastalgadnr.org/cm/green/guide)). Additional information on Green Infrastructure can be found at [water.epa.gov/infrastructure/greeninfrastructure/index.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm).

c. Other controls.

(1). Waste disposal. Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The Plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

(2). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(3). Nothing in this permit relieves a permittee from any obligation to comply with all applicable State and local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(4). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(5). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is

prohibited. Additional information about best management practices for concrete washout is available at [www.epa.gov/npdes/pubs/concretewashout.pdf](http://www.epa.gov/npdes/pubs/concretewashout.pdf).

(6) All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

#### 4. Inspections.

##### a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking.. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

**5. Maintenance.** The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

**6. Sampling Requirements.** This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. *Sample Type.* All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water

Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

- (1). Sample containers should be labeled prior to collecting the samples.
- (2). Samples should be well mixed before transferring to a secondary container.
- (3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- (4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.
- (5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

*c. Sampling Points.*

- (1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:
  - (a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
  - (b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.
  - (c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
  - (d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
  - (e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

*d. Sampling Frequency.*

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

\*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

**7. Non-storm water discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

#### **E. Reporting.**

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of the certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

## **F. Retention of Records.**

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

## **Part V. STANDARD PERMIT CONDITIONS**

### **A. Duty to Comply.**

1. Each permittee must comply with all applicable conditions of this permit. Any permit noncompliance constitutes a violation of the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or for denial of a permit renewal application. Failure of a primary permittee to comply with any applicable term or condition of this permit shall not relieve any other primary permittee from compliance with their applicable terms and conditions of this permit.

2. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown in Part II.C. within fourteen (14) days of his/her discovery of the violation.

3. Penalties for violations of permit conditions. The Federal Clean Water Act and the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) provide that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine or by imprisonment, or by both. The Federal Clean Water Act and the Georgia Water Quality Control Act also provide procedures for imposing civil penalties which may be levied for violations of the Acts, any permit condition or limitation established pursuant to the Acts, or negligently or intentionally failing or refusing to comply with any final or emergency order of the Director.

**B. Continuation of the Expired General Permit.** This permit expires on the date shown on the cover page of this permit. However, an expired general permit continues in force and effect until a new general permit is issued, final and effective.

**C. Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**D. Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**E. Duty to Provide Information.** The permittee shall furnish to the Director; a State or local agency approving soil erosion and sedimentation control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system, any information which is requested to determine compliance with this permit. In the case of information submitted to the EPD such information shall be considered public information and available under the Georgia Open Records Act.

**F. Other Information.** When the permittee becomes aware that he failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report required to be submitted to the EPD, the permittee shall promptly submit such facts or information.

**G. Signatory Requirements.** All Notices of Intent, Notice of Terminations, inspection reports, sampling reports or other reports requested by the EPD shall be signed as follows:

1. All Notices of Intent and Notices of Termination shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this permit, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public facility: by either a principal executive officer or ranking elected official; and

d. Changes to authorization. If an authorization under Part II.B. is no longer accurate, a change of information NOI satisfying the requirements of Part II.B. must be submitted to the EPD prior to or together with any inspection reports, sampling reports, or other reports requested by the EPD to be signed by a person described above or by a duly authorized representative of that person.

2. All inspection reports, sampling reports, or other reports requested by the EPD shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person(s) described above and submitted to the EPD;
- b. The authorization specifies either an individual or a position having responsibility for specified operation(s) of the regulated facility or activity, such as the position of manager, Operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may be either a named individual or any individual occupying a named position); and
- c. *Certification.* Reports delineated in Part V.G.2. shall be signed by the permittee or duly authorized representative and shall make the following certification:

"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**H. Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Georgia Hazardous Waste Management Act, O.C.G.A. § 12-8-60, et seq. or under Chapter 14 of Title 12 of the Official Code of Georgia Annotated; nor is the Operator relieved from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act or Section 106 of Comprehensive Environmental Response Compensation And Liability Act.

**I. Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

**J. Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

**K. Other Applicable Environmental Regulations and Laws.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act. Nothing in this permit, unless explicitly stated, exempts the permittee from compliance with other applicable local, state and federal ordinances, rules, regulations, and laws. Furthermore, it is not a defense to compliance with this permit that a local government authority has approved the permittee's Erosion, Sedimentation and Pollution Control Plan or failed to take enforcement action against the permittee for violations of the Erosion, Sedimentation and Pollution Control Plan, or other provisions of this permit.

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

**L. Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the

permittee to achieve compliance with the conditions of this permit and with the required plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

**M. Inspection and Entry.** The permittee shall allow the Director or an authorized representative of EPA, EPD or to designated officials of the local government reviewing soil erosion and sediment control plans, grading plans, or storm water management plans; or, in the case of a construction site which discharges through a municipal separate storm sewer system, an authorized representative of the municipal operator of the separate storm sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit; and
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

**N. Permit Actions.** This permit may be revoked and reissued, or terminated for cause including but not limited to changes in the law or regulations. The filing of a request by the permittee for termination of the permit, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## Part VI. TERMINATION OF COVERAGE

**A. Notice of Termination Eligibility.** Notice of Termination signed in accordance with Part V.G.1. of this permit must be submitted:

1. For construction activities, by the permittee where the entire stand alone development has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. For construction activities where the primary permittee has elected to submit NOIs for separate phases of the stand alone development, the phase or phases of the stand alone development on the NOT shall correspond to the phase or phases on the NOI.
2. By the Owner or Operator when the Owner or Operator of the site changes. Where storm water discharges will continue after the identity of the Owner or Operator changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator of the permitted site as to the requirements of this permit.

### **B. Notice of Termination Contents:**

1. The NPDES permit number for the storm water discharge associated with construction activity identified by the Notice of Termination (i.e., GAR100001 – Stand Alone);
2. The project construction site name, GPS location (decimal degrees) of construction exit t, construction site location, city (if applicable) and county of the construction site for which the notification is submitted. This information must correspond to the similar information as provided on the NOI. Where an address for the construction site is not available, the construction site location information must be sufficient to accurately locate the construction site;

3. The owner's legal name, address, telephone number and email address and the operator's legal name, address, telephone and email address;
4. The name of the initial receiving water(s), and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4;
5. Copies of all sampling reports and/or a written justification why sampling was not conducted. Copies of all sampling reports may be submitted as a Portable Document Format (PDF) file on CD-ROM or other storage device;
6. Copy of the permittee's most current Notice of Intent;
7. Any other information specified on the NOT in effect at the time of submittal; and
8. The following certification signed in accordance with Part V.G.1. (signatory requirements):

"I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control; and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

**C. Notice of Termination Submittal.** All Notices of Termination by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate EPD District Office according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by the EPD then the Notice of Termination may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

## APPENDIX A

### EPD DISTRICT OFFICES

All required correspondence, including but not limited to the Notice of Intent, Notice of Terminations, certifications, Erosion, Sedimentation and Pollution Control Plans and any other reports, shall be sent to the following District Offices of EPD.

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8687  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354  
(404) 675-6240

## APPENDIX B

### Nephelometric Turbidity Unit (NTU) TABLES

#### Trout Streams

Surface Water Drainage Area, square miles

		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
	25.01-50	25	25	25	50	75	100	300	500
	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100

#### Waters Supporting Warm Water Fisheries

Surface Water Drainage Area, square miles

		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.



- of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (3) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that:
    - (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer,
    - (b) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and
    - (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,
  - (4) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
  - (5) stream crossings for aerial utility lines, provided that:
    - (a) the new utility line right-of-way width does not exceed 100 linear feet,
    - (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer,
    - (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and
    - (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification,
  - (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that:
    - (a) the area of land disturbance does not exceed 100 square feet per structure,
    - (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure,
    - (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and
    - (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit
  - (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken by any electric membership corporation or municipal electrical system or any public utility under the, provided that:
    - (a) the area of land disturbance does not exceed 100 square feet per structure,
    - (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure,
    - (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and
    - (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
  - (8) Maintenance (excluding dredging), repair and/or upgrade of Soil and Water Conservation District watershed dams when under the technical supervision of the USDA Natural Resources Conservation Service.

(iii). Except as provided in Part IV(iv) below, no construction activities shall be conducted within a 25 foot buffer along coastal marshlands, as measured horizontally from the coastal marshland-upland interface, as determined in accordance with Part 4 of Article 4 of Chapter 5 of Title 12, the "Coastal Marshlands Protection Act of 1970, and the rules and regulations promulgated thereunder, except where the director determines to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where otherwise allowed by the director pursuant to Code Section 12-2-8, or where an alteration within the buffer area has been authorized pursuant to Code Section 12-5-286, or for maintenance of any currently serviceable structure, landscaping, or hardscaping, including bridges, roads, parking lots, golf courses, golf cart paths, retaining walls,

bulkheads, and patios, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or where a drainage structure or roadway drainage structure is constructed or maintained, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or on the landward side of any currently serviceable shoreline stabilization structure, or for the maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented:

- (1) Public drinking water system reservoirs,
- (2) Crossings for utility lines that cause a width of disturbance of not more than 50 feet within the buffer
- (3) Any land-disturbing activity conducted pursuant to and in compliance with a valid and effective land-disturbing permit issued subsequent to April 22, 2014, and prior to December 31, 2015,
- (4) Any lot for which the preliminary plat has been approved prior to December 31, 2015 if roadways, bridges, or water and sewer lines have been extended to such lot prior to the effective date of this Act and if the requirement to maintain a 25 foot buffer would consume at least 18 percent of the high ground of the platted lot otherwise available for development,
- (5) Buffer crossings for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the Jurisdictional Line and cause a width of disturbance of not more than 50 feet within the buffer, and vegetation is re-established in any bare or disturbed areas within the buffer,
- (6) Crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification;
- (7) Right-of-way posts, guy wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit;
- (8) Right-of-way posts, guy wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way by any electric membership corporation or municipal electrical system or any public utility under the regulator jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) vegetation is re-established in any bare or disturbed areas within the buffer

and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and

- (9) Maintenance (excluding dredging), repair and/or upgrade of Soil and Water Conservation District watershed dams when under the technical supervision of the USDA Natural Resources Conservation Service

(iii.iv.) Except as provided above, for buffers required pursuant to Part IV.(i), (ii) and (iii), no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed or marsh.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit.

Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan must be prepared by the primary permittee for the stand alone construction project.

#### **A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.
2. For construction activities that began on or before the effective date of this permit and were subject to the regulations under the previous permit, the permittee(s) shall continue to operate under the existing Plan.
3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the stand alone development that corresponds with the NOI being submitted and the primary permittee(s) shall implement the Plan on or before the day construction activities begin.
4. Additional Plan Submittals.

Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:**  
Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Carroll, Clayton, Coweta, DeKalb,

Information shall be submitted to:

Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114

Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8687  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354  
(404) 675-6240  
2 Martin Luther King Jr. Drive  
Suite 1152 East  
Atlanta, Georgia 30334  
404-463-1511

Insert Yellow Sheet

Back of Yellow Sheet

**State of Georgia  
Department of Natural Resources  
Environmental Protection Division**

**Authorization To Discharge Under The  
National Pollutant Discharge Elimination System  
Storm Water Discharges Associated With Construction Activity  
For Infrastructure Construction Projects**

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Clean Water Act, as amended (33 U.S.C.1251 et seq.), hereinafter called the "Clean Water Act," and the Rules and Regulations promulgated pursuant to each of these Acts, new and existing storm water point sources within the State of Georgia that are required to have a permit, upon submittal of a Notice of Intent, are authorized to discharge storm water associated with construction activity to the waters of the State of Georgia in accordance with the limitations, monitoring requirements and other conditions set forth in Parts I through VI hereof.

This permit shall become effective on September 24 2013.

This permit and the authorization to discharge shall expire at midnight, July 31, 2018.

Signed this 23rd day of September 2013.



  
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Director,  
Environmental Protection Division

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## Part I. COVERAGE UNDER THIS PERMIT

### A. Permit Area.

This permit regulates point source discharges of storm water to the waters of the State of Georgia from construction activities, as defined in this permit.

**B. Definitions.** All terms used in this permit shall be interpreted in accordance with the definitions as set forth in the Georgia Water Quality Control Act (Act) and the Georgia Rules and Regulations for Water Quality Control Chapter 391-3-6 (Rules), unless otherwise defined in this permit:

1. "Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
2. "Buffer" means the area of land immediately adjacent to the banks of State waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.
3. "Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the State Soil and Water Conservation Commission.
4. "Commencement of Construction" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities.
5. "Construction Activity" means the disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities which may result in soil erosion. Construction activity does not include agricultural and silvicultural practices, but does include agricultural buildings.
6. "CPESC" means Certified Professional in Erosion and Sediment Control with current certification by EnviroCert International, Inc. ([www.EnviroCertIntl.org](http://www.EnviroCertIntl.org)).
7. "CWA" means Federal Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972).
8. "Design Professional" means a professional licensed by the State of Georgia in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a Certified Professional in Erosion and Sediment Control (CPESC) with a current certification by EnviroCert International, Inc. Design Professionals shall practice in a manner that complies with applicable Georgia law governing professional licensure.
9. "Director" means the Director of the Environmental Protection Division or an authorized representative.
10. "Division" means the Environmental Protection Division of the Department of Natural Resources.
11. "Erosion" means the process by which land surface is worn away by the action of wind, water, ice or gravity.
12. "Erosion, Sedimentation and Pollution Control Plan" or "Plan" means a plan for the control of soil erosion, sediment and pollution resulting from a construction activity.

13. "Filling" means the placement of any soil or solid material either organic or inorganic on a natural ground surface or an excavation.
14. "Final Stabilization" means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use.
15. "General Contractor" means the operator of the infrastructure construction or site.
16. "Impossible" means the monitoring location(s) are either physically or legally inaccessible, or access would cause danger to life or limb.
17. "Infrastructure Construction" or "Infrastructure Construction Project" means construction activities that are not part of a common development that include the construction, installation and maintenance of roadway and railway projects and conduits, pipes, pipelines, substations, cables, wires, trenches, vaults, manholes and similar or related structures for the conveyance of natural gas (or other types of gas), liquid petroleum products, electricity, telecommunications (telephone, data, television, etc.), water, storm water or sewage.
18. "Infrastructure Company" or "Infrastructure Contractor" means, for the purposes of this Permit, an entity or sub-contractor that is responsible, either directly or indirectly, for infrastructure construction or an infrastructure construction project.
19. "Local Issuing Authority" means the governing authority of any county or municipality which is certified pursuant to Official Code of Georgia Section 12-7-8(a).
20. "Mass Grading" means the movement of earth by mechanical means to alter the gross topographic features (elevations, slopes, etc.) to prepare a site for final grading and the construction of facilities (buildings, roads, parking, etc.).
21. "Nephelometric Turbidity Unit (NTU)" means a numerical unit of measure based upon photometric analytical techniques for measuring the light scattered by fine particles of a substance in suspension.
22. "NOI" means Notice of Intent to be covered by this permit (see Part II).
23. "Normal Business Hours" means Monday thru Friday, 8:00 AM to 5:00 PM, excluding any non-working Saturday, non-working Sunday and non-working Federal holiday.
24. "NOT" means Notice of Termination (see Part VI).
25. "Operator" means the entity that has the primary day-to-day operational control of those activities at the construction site necessary to ensure compliance with Erosion, Sedimentation and Pollution Control Plan requirements and permit conditions.
26. "Other Water Bodies" means ponds, lakes, marshes and swamps which are waters of the State.
27. "Outfall" means the location where storm water, in a discernible, confined and discrete conveyance, leaves a facility or construction site or, if there is a receiving water on site, becomes a point source discharging into that receiving water.

28. "Owner" means the legal title holder to the real property on which is located the facility or site where construction activity takes place. For purposes of this permit, this definition does not include the legal title holder to property on which the only construction activity planned and being conducted is by a infrastructure company or infrastructure contractor and the legal title holder has no significant control over design and implementation of the construction activity.
29. "Permittee" means any entity that has submitted a Notice of Intent.
30. "Phase" or "Phased" means sub-parts or segments of infrastructure construction projects where the sub-part or segment is constructed and stabilized prior to completing the entire construction site.
31. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure or container from which pollutants are or may be discharged. This term also means sheetflow which is later conveyed via a point source to waters of the State. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.
32. "Primary Permittee" means the Owner or the Operator or both of a tract of land for a construction project subject to this permit.
33. "Proper design" and "properly designed" means designed in accordance with the design requirements and specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the Manual as approved by the State Soil and Water Conservation Commission up until the date of NOI submittal.
34. "Receiving Water(s)" means all perennial and intermittent waters of the State into which the runoff of storm water from a construction activity will actually discharge, either directly or indirectly.
35. "Roadway Project(s)" means traveled ways including but not limited to roads, sidewalks, multi-use paths and trails, and airport runways and taxiways. This term also includes the accessory components to a roadway project that are necessary for the structural integrity of the roadway and the applicable safety requirements. These accessory components include but are not limited to slopes, shoulders, storm water drainage ditches and structures, guardrails, lighting, signage, cameras and fences and exclude subsequent landscaping and beautification projects.
36. "Sediment" means solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by, wind, water, ice, or gravity as a product of erosion.
37. "Sedimentation" means the action or process of forming or depositing sediment.
38. "Sheetflow" means runoff which flows over the ground surface as a thin, even layer, not concentrated in a channel.
39. "Site" or "Construction Site" means a facility of any type on which construction activities are occurring or are to occur which may result in the discharge of pollutants from a point source into the waters of the State.
40. "Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
41. "Structural Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by utilizing the mechanical properties of matter for the purpose of either changing the surface of the land or storing, regulating or disposing of runoff to prevent excessive sediment loss.
42. "Sub-contractor" means an entity employed or retained by the permittee to conduct any type of construction activity (as defined in this permit) at an infrastructure construction site. Sub-contractors must complete the

appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19. Sub-contractors are not permittees unless they meet the definition of either a primary, secondary or tertiary permittee.

43. "Surface Water Drainage Area" means the hydrologic area starting from the lowest downstream point where the storm water from the construction activity enters the receiving water(s) and following the receiving water(s) upstream to the highest elevation of land that divides the direction of water flow. This boundary will connect back with the storm water entrance point. Boundary lines follow the middle of the highest ground elevation or halfway between contour lines of equal elevation.

44. "Trout Streams" means waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

45. "USGS Topographic Map" means a current quadrangle, 7½ minute series map prepared by the United States Department of the Interior, Geological Survey.

46. "Vegetative Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by covering the soil with: (1) permanent seeding, sprigging or planting, producing long-term vegetative cover; (2) temporary seeding, producing short-term vegetative cover; or (3) sodding, covering areas with a turf of perennial sod forming grass.

47. "Waters Supporting Warm Water Fisheries" means all waters of the State that sustain, or have the potential to sustain, aquatic life but excluding trout streams.

48. "Waters of Georgia" or "Waters of the State" means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, wetlands, and all other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

### **C. Eligibility.**

**1. Construction Activities.** This permit authorizes, subject to the conditions of this permit:

a. all discharges of storm water associated with infrastructure construction projects that will result in contiguous land disturbances equal to or greater than one (1) acre occurring on or before, and continuing after, the effective date of this permit, (henceforth referred to as existing storm water discharges from construction activities) except for discharges identified under Part I.C.3. Contiguous means areas of land disturbances that are in actual contact to create a connected, uninterrupted area of land disturbance. However, for purposes of this permit, contiguous areas of land disturbances include those areas of land disturbances solely separated by drilling and boring activities, waters of the State and adjacent State-mandated buffers, roadways and/or railways. In addition, contiguous areas of land disturbances include all areas of land disturbances at a sole roadway intersection and/or junction;

b. all discharges of storm water associated with infrastructure construction projects that will result in contiguous land disturbances equal to or greater than one (1) acre occurring after the effective date of this permit, (henceforth referred to as storm water discharges from construction activities), except for discharges identified under Part I.C.3. Contiguous means areas of land disturbances that are in actual contact to create a connected, uninterrupted area of land disturbance. However, for purposes of this permit, contiguous areas of land disturbances include those areas of land disturbances solely separated by drilling and boring activities, waters of the State and adjacent State-mandated buffers, roadways and/or railways. In addition, contiguous areas of land disturbances include all areas of land disturbances at a sole roadway intersection and/or junction;

c. coverage under this permit is not required for discharges of storm water associated with infrastructure construction projects that consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and the hydraulic capacity, as applicable. The permittee shall, as a minimum, implement and maintain best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity is being conducted. In order to be eligible for this exemption the project must comply with the following conditions: (1) no mass grading shall occur on the project, (2) the project shall be stabilized by the end of each day with temporary or permanent stabilization measures, (3) the project shall have a duration of less than 120 calendar days, and (4) final stabilization must be implemented at the end of the maintenance project; and

d. coverage under this permit is not required for discharge of storm water associated with railroad construction projects and emergency re-construction conducted pursuant to the Federal Railway Safety Act, the Interstate Commerce Commission Termination Act and which consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and the hydraulic capacity, as applicable. The construction activity should, at a minimum, implement and maintain best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation consistent with the requirements of the Federal Railway Safety Act and applicable requirements of the Clean Water Act.

**2. Mixed Storm Water Discharges.** This permit may only authorize a storm water discharge from a construction site or construction activities mixed with a storm water discharge from an industrial source or activity other than construction where:

a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;

b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and

c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing such discharges and the discharges are in compliance with a different NPDES permit.

**3. Limitations on Coverage.** The following storm water discharges from construction sites are not authorized by this permit:

a. storm water discharges associated with an industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization;

b. discharges that are mixed with sources of non-storm water other than discharges which are identified in Part III.A.2. of this permit and which are in compliance with Part IV.D.7. (non-storm water discharges) of this permit;

c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges; and

d. storm water discharges from construction sites that the Director (EPD) has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.

**4. Compliance with Water Quality Standards.** No discharges authorized by this permit shall cause violations of Georgia's in-stream water quality standards as provided by the Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03.

**D. Authorization.**

1. Any person desiring coverage under this permit must submit a Notice of Intent (NOI) to the EPD and the NOI must be received by the EPD in accordance with the requirements of Part II, using NOI forms provided by the EPD (or an exact photocopy thereof), in order for storm water discharges from construction sites to be authorized.
2. Unless notified by the Director to the contrary, a permittee who submits an NOI in accordance with the requirements of this permit is authorized to discharge storm water from construction sites under the terms and conditions of this permit fourteen (14) days after the date that the NOI is postmarked. The Director may deny coverage under this permit and require submittal of an application for an individual NPDES permit or alternative general NPDES permit based on a review of the NOI or other information. Should the Director deny coverage under this permit, coverage under this permit is authorized until the date specified in the notice of denial by the Director.
3. Where a new permittee is to begin work on-site after an NOI for the facility/construction site has been submitted, that new permittee must submit a new NOI in accordance with Part II.

**E. Continuing Obligations of Permittees.** Unless and until responsibility for a site covered under this permit is properly terminated according to the terms of the permit, the current permittee remains responsible for compliance with all applicable terms of the permit and for any violations of said terms.

**Part II. NOTICE OF INTENT REQUIREMENTS**

**A. Deadlines for Notification.**

1. Except as provided in Part II.A.2., II.A.3. and II.A.5., Owners or Operators or both who intend to obtain coverage under this general permit for storm water discharges from a construction site (where construction activities begin after issuance of this permit), shall submit a Notice of Intent (NOI) in accordance with the requirements of this Part at least fourteen (14) days prior to the commencement of construction activities.
2. For sites where construction activities, subject to this permit, are occurring on the effective date of this permit, the Owner or Operator or both shall submit a re-issuance NOI for an existing construction site in accordance with the requirements of this part no later than ninety (90) days after the effective date of this permit. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.
3. A discharger is not precluded from submitting an NOI in accordance with the requirements of this part after the dates provided in Parts II.A.1. or II.A.2. of this permit. In such instances, EPD may bring an enforcement action for failure to submit an NOI in a timely manner or for any unauthorized discharges of storm water associated with construction activity that have occurred on or after the dates specified in Part II.A.1. and II.A.2.
4. Where an Owner or an Operator or both changes after an NOI has been filed, the subsequent Owner or Operator or both must file a change of information NOI in accordance with this Part by the earlier to occur of (a) seven (7) days before beginning work at the facility/construction site; or (b) thirty (30) days from acquiring legal title to the facility/construction site. In the event a lender or other secured creditor acquires legal title to the facility/construction site, such party must file a change of information NOI in accordance with this Part by the earlier to occur of (a) seven (7) days before beginning work at the facility/construction site; or (b) thirty (30) days

from acquiring legal title to the facility/construction site. Stabilization and BMP installation and/or maintenance measures of a disturbed site, by the subsequent Owner or Operator, may occur in advance of filing a new NOI, without violation of this permit. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.

5. For sites where construction activities will result in land disturbance equal to or greater than one (1) acre that are required as a result of storm- or emergency-related repair work, the Owner or Operator or both shall notify the appropriate EPD District Office within three (3) days of commencement of said construction activities. The Owner or Operator or both shall submit the NOI to the appropriate EPD District Office as soon as possible after the storm- or emergency-related event but no later than fourteen (14) days after the commencement of construction activities and shall submit the Plan in accordance with Part IV.A.6.

## **B. Notice of Intent Contents.**

**1. Primary Permittee.** A single Notice of Intent for the primary permittee (i.e., one NOI signed by the Owner or the Operator or both) shall be signed in accordance with Part V.G.1. of this permit and shall include the following information:

- a. The project construction site name, GPS locations (decimal degrees) of the beginning and end of the infrastructure project, construction site location, city (if applicable) and county of the construction site for which the notification is submitted. The construction site location information must be sufficient to accurately locate the construction site;
- b. The Owner's legal name, address, telephone number and email address; and if available, the Operator's legal name, address, telephone number and email address; and if applicable, the Duly Authorized Representative's legal name and/or position name, telephone number and email address;
- c. The name, telephone number and email address of the individual to whom the permittee has assigned the responsibility for the daily operational control (i.e., construction superintendent, etc.) of the construction site;
- d. The name of the initial receiving water(s) or if unnamed, the first named blue line stream indicated on the appropriate USGS Topographic map, and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4, and the permittee's determination of whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).
- e. The name of the receiving water(s) located within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s) shown on Georgia's most current "305(b)/303(d) List Documents (Final)" for the criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) at [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html);
- f. An estimate of project start date and completion date, a schedule for the timing of the various construction activities, the number of acres of the site on which soil will be disturbed, and the surface water drainage area (if applicable). For projects that began on or before the effective date of this permit, the start date must be the actual start date of construction;

g. The following certification shall be signed in accordance with Part V.G.1. of this permit:

"I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all permit requirements."

h. The type of construction activity category (from those listed on the NOI) conducted at the site;

i. The location of the receiving water(s) or outfall(s) or a combination of receiving water(s) and outfall(s) to be sampled on a map or drawing of appropriate scale. When it is determined by the primary permittee that some or all of the outfall(s) will be sampled, the applicable nephelometric turbidity unit (NTU) selected from Appendix B (i.e., based upon the size of the construction site and the surface water drainage area) must be shown for each outfall to be sampled.

j. For infrastructure projects disturbing more than 50 acres, which began after the effective date of this permit, include a single copy of the Erosion, Sedimentation and Pollution Control Plan;

k. NOIs may be submitted for separate phases of projects with a total planned disturbance greater than 5.0 acres, provided that each phase shall not be less than 1.0 acre. Phased NOIs shall include all documentation required by this permit for each phase, including fees; and

l. Any other information specified on the NOI in effect at the time of submittal.

**C. Notice of Intent Submittal.** NOIs are to be submitted by *return receipt certified mail* (or similar service) to both the appropriate EPD District Office according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by EPD then the NOI may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated alternative location from commencement of construction until such time as a Notice of Termination (NOT) is submitted in accordance with Part VI.

**D. Fees.** Any applicable fees shall be submitted by the **Primary Permittee** in accordance with Rules and Regulations for Water Quality Control (Rules) promulgated by the Board of Natural Resources. By submitting an NOI for coverage under this permit the primary permittee agrees to pay any fees required, now or in the future, by such Rules authorized under O.C.G.A. Section 12-5-23(a)(5)(A), which allows the Board of Natural Resources to establish a fee system. Fees may be assessed on land disturbing activity proposed to occur on or after the effective date of this permit and shall be paid in accordance with such Rules.

**E. Renotification.** Upon issuance of a new or different general permit for some or all of the storm water discharges covered by this permit, the permittee is required to notify the EPD of their intent to be covered by the new or different general permit. The permittee must submit a new Notice of Intent in accordance with the notification requirements of the new or different general permit.

### **PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS**

#### **A. Prohibition on Non-Storm Water Discharges.**

1. Except as provided in Part I.C.2. and III.A.2., all discharges covered by this permit shall be composed entirely of storm water.
2. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharge is explicitly listed in the Erosion, Sedimentation and Pollution Control Plan and is in compliance with Part IV.D.7.; discharges from fire fighting activities; fire hydrant flushing; potable water sources including water line flushing; irrigation drainage; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials or pollutants.
3. This permit does not authorize the discharge of soaps or solvents used in vehicle and equipment washing.
4. This permit does not authorize the discharge of wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.

#### **B. Releases in Excess of Reportable Quantities.**

1. The discharge of hazardous substances or oil in the storm water discharge(s) from a site shall be prevented. This permit does not relieve the permittee of the reporting requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR Part 117 and 40 CFR Part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 or 40 CFR 302 occurs during a 24 hour period, the permittee is required to notify EPD at (404) 656-4863 or (800) 241-4113 and the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 and 40 CFR 302 as soon as he/she has knowledge of the discharge.

This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

#### **C. Discharges into, or within One Mile Upstream of and within the Same Watershed as, Any Portion of a Biota Impaired Stream Segment.**

Any permittee who intends to obtain coverage under this permit for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of this permit if the Impaired Stream Segment has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's 305(b)/303(d) List Documents (Final)" can be viewed on the EPD website, [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html).

1. If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee's submittal of the NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee's discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to an permittee's discharge(s) to the Impaired Stream Segment, then the permittee must

incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website, [www.gaepd.org](http://www.gaepd.org).

2. In order to ensure that the permittee's discharge(s) do not cause or contribute to a violation of State water quality standards, the Plan must include at least four (4) of the following best management practices (BMPs) for those areas of the site which discharge into or within one (1) linear mile upstream and within the same watershed as the Impaired Stream Segment:

- a. During all construction activities as defined in this permit, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width pursuant to this section.
- b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
- c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
- d. A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted.
- e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize all areas left disturbed for more than seven (7) calendar days in accordance with Part III.D.1. of this permit.
- f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of this permit.
- g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6(a)(1).
- h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
- i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
- j. Use "Dirt II" techniques available on the EPD website, [www.gaepd.org](http://www.gaepd.org) (e.g., seep berms, sand filters, anionic PAM) to model and manage all construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
- k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of 6 (six) inches to document improved levels of soil carbon after final stabilization of the construction site.
- l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
- m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan.

- n. Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
- o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within all construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
- p. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever construction storm water (including sheet flow) may be discharged.
- q. Conduct soil tests to identify and to implement site-specific fertilizer needs.
- r. Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).. (a) – (c) of this permit.
- s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
- t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission).
- u. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.

#### **D. Management Practices and Permit Violations.**

1. Best management practices, as set forth in this permit, are required for all construction activities, and must be implemented in accordance with the design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the Director or to any other allegation of noncompliance with Part III.D.3. and Part III.D.4.

2. Except as required to install the initial sediment storage requirements and perimeter control BMPs as described in Part IV.D.3., the initial sediment storage requirements and perimeter control BMPs must be installed and implemented prior to conducting any other construction activities (e.g., clearing, grubbing and grading) within the construction site or when applicable, within phased sub-parts or segments of the construction site. Failure to comply shall constitute a violation of this permit for each day on which construction activities occur. The design professional who prepared the Plan must inspect the initial sediment storage requirements and perimeter control BMPs in accordance with Part IV.A.5. within seven (7) days after installation.

3. Failure to properly design, install, or maintain best management practices shall constitute a violation of this permit for each day on which such failure occurs. BMP maintenance as a result of the permittee's routine inspections shall not be considered a violation for the purposes of this paragraph. If during the course of the permittee's routine inspection BMP failures are observed which have resulted in sediment deposition into waters of the State, the permittee shall correct the BMP failures and shall submit a summary of the violations to EPD in accordance with Part V.A.2. of this permit.

4. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such discharge results in the turbidity of receiving water(s) being increased by more than ten (10) nephelometric

turbidity units for waters classified as trout streams or more than twenty-five (25) nephelometric turbidity units for waters supporting warm water fisheries, regardless of a permittee's certification under Part II.B.1.i.

5. When the permittee has elected to sample outfall(s), the discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding the value selected from Appendix B applicable to the construction site. As set forth therein, the nephelometric turbidity unit (NTU) value shall be selected from Appendix B based upon the size of the construction site, the surface water drainage area and whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

#### **Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN**

A site-specific Erosion, Sedimentation and Pollution Control Plan (Plan) shall be designed, installed and maintained for the entire construction activity covered by this permit. The Erosion, Sedimentation and Pollution Control Plan must be prepared by a design professional as defined by this permit. All persons involved in Plan preparation shall have completed the appropriate certification course, pursuant to O.C.G.A. 12-7-19 (b), approved by the State Soil and Water Conservation Commission. The design professional preparing the Plan must include and sign the following certification in the Plan:

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

The Plan shall include any additional certifications regarding the design professional's site visit in accordance with the Rules for Erosion and Sedimentation Control promulgated by the Board of Natural Resources;

"I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision."

The Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and O.C.G.A. 12-7-6, as well as the following:

(i). Except as provided in Part IV.(iii). below, no construction activities shall be conducted within a 25 foot buffer along the banks of all State waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where bulkheads and seawalls must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) fences,
- (3) stream crossings for water lines and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (4) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, (b) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,,
- (5) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 200 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification;
- (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
- (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit.

(ii). No construction activities shall be conducted within a 50 foot buffer, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, along the banks of any State waters classified as 'trout streams' except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-7-6, or where a roadway drainage structure must be constructed; provided, however, that small springs and streams classified as 'trout streams' which discharge an average annual flow of 25 gallons per minute or less shall have a 25 foot buffer or they may be piped, at the discretion of the permittee, pursuant to the terms of a rule providing for a general variance promulgated by the Board of Natural Resources including notification of such to EPD and the Local Issuing Authority of the location and extent of the piping and prescribed methodology for minimizing the impact of such piping and for measuring the volume of water discharged by the stream. Any such pipe must stop short of the downstream permittee's property, and the permittee must comply with the buffer requirement for any adjacent trout streams. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) fences,
- (3) stream crossings for water lines and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (4) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, (b) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,
- (5) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 200 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification; and
- (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
- (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit.

(iii). Except as provided above, for buffers required pursuant to Part IV.(i). and (ii)., no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit.

Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan must be prepared by the primary permittee for the infrastructure construction project.

**A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.

2. For construction activities that began on or before the effective date of this permit and were subject to the regulations under the previous permit, the permittee(s) shall continue to operate under the existing Plan.

3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the infrastructure development that corresponds with the NOI being submitted and the primary permittee(s) shall implement the Plan on or before the day construction activities begin.

4. Additional Plan Submittals.

a. For all projects identified under Part I.C.1.b., in a jurisdiction where there is no certified Local Issuing Authority regulating that project, a single copy of the Plan must be submitted to the EPD Watershed Protection Branch and a second copy of the Plan must be submitted to the appropriate EPD District Office prior to or concurrent with the NOI submittal. The second copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device. The EPD Watershed Protection Branch will review Plans for deficiencies using the applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted

b. For sites that are equal to or greater than 50 acres of disturbed area, regardless of the existence of a certified Local Issuing Authority in the jurisdiction, one of the following submissions is also required:

- (i) for all projects which begin after the effective date of this permit a single copy of the NOI and a single copy of the Plan shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.
- (ii) for all projects which began on or before the effective date of this permit single copy of the NOI and a single copy of the Plan, if amended, shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.

c. For all projects where the construction activity as indicated on the existing NOI has changed, the amended Plans must be submitted in accordance with Part IV.A.4.a. In addition, the permittee must file a change of information NOI in accordance with Part II.

5. For infrastructure projects that begin construction activity after the effective date of this permit, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days after installation. Alternatively, for linear infrastructure projects, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect (a) the installation of the sediment storage requirements and perimeter control BMPs for the "initial segment" of the linear infrastructure project and (b) all sediment basins within the entire linear infrastructure project within seven (7) days after installation. For the purposes of the specific requirements in Part IV.A.5., the disturbed acreage of the "initial segment" of a linear infrastructure project must be equal to or greater than 10% of the total estimated disturbed acreage for the linear infrastructure project but not less than one (1) acre. The

design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

6. For storm- or emergency-related repair work, the permittee shall implement appropriate BMPs and certified personnel (provided by the primary permittee) shall inspect at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater. If the storm- or emergency-related repair work will not be completed within sixty (60) days of commencement of construction activity, a single copy of the Plan shall be submitted to EPD and the permittee shall comply with all requirements of this permit on the sixty-first (61st) day.

### **B. Signature and Plan Review.**

1. The Erosion, Sedimentation and Pollution Control Plan shall be signed in accordance with Part IV., and be retained on the site (or, if not possible, at a readily accessible location) which generates the storm water discharge in accordance with Part IV.F. of this permit.

2. The primary permittee shall make Plans available upon request to the EPD; to designated officials of the local government reviewing soil erosion and sedimentation control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system.

3. EPD may notify the primary permittee at any time that the Plan does not meet one or more of the minimum requirements of this Part. Within seven (7) days of such notification (or as otherwise provided by EPD), the primary permittee shall make the required changes to the Plan and shall submit to EPD either the amended Plan or a written certification that the requested changes have been made.

**C. Keeping Plans Current.** The primary permittee(s) shall amend their Plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on BMPs with a hydraulic component (i.e., those BMPs where the design is based upon rainfall intensity, duration and return frequency of storms) or if the Plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part IV.D.3. of this permit. Amendments to the Plan must be certified by a design professional as provided in this permit.

**D. Contents of Plan.** The Erosion, Sedimentation and Pollution Control Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, as well as the following:

**1. Checklist.** Each plan shall include a completed Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the applicable Checklist as approved by the State Soil and Water Conservation Commission up until the date of the NOI submittal. The applicable checklists are available on the EPD website, [www.gaepd.org](http://www.gaepd.org).

**2. Site description.** Each site-specific Plan shall provide a description of pollutant sources and other information as indicated:

- a. A description of the nature of the construction activity;

- b. A detailed description and chart or timeline of the intended sequence of major activities which disturb soils for major portions of the site (i.e., initial sediment storage requirements and perimeter BMPs, clearing and grubbing activities, excavation activities, grading activities, infrastructure activities, immediate and final stabilization activities);
- c. Estimates of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;
- d. An estimate of the runoff coefficient or peak discharge flow of the site prior to the construction activities and after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;
- e. A site-specific map or series of drawings indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, an outline of areas which are not to be disturbed, the location of major structural and nonstructural controls identified in the Plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and
- f. Identify the receiving water(s) and areal extent of wetland acreage at the site;

**3. Controls.** Each Plan shall include a description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase Plan. The Plan will include appropriate staging and access requirements for construction equipment. The Plan will clearly describe for each major activity identified in Part IV.D.2.b., appropriate control measures and the timing during the construction process that the measures will be implemented. The primary permittee is encouraged to utilize the document, *Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites*, EPA 833-R-060-04, May 2007 ([www.epa.gov/npdes/pubs/sw\\_swppp\\_guide.pdf](http://www.epa.gov/npdes/pubs/sw_swppp_guide.pdf)), when preparing the Plan. The description and implementation of controls shall address the following minimum components:

a. Erosion and sediment controls.

(1). **Stabilization measures.** A description of interim and permanent stabilization measures, including site-specific scheduling of the implementation of the measures. Site plans should ensure that existing vegetation is preserved and that disturbed portions of the site are stabilized. Stabilization measures may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the Plan. Except as provided in paragraphs IV.D.3.(a).(1).(a) and (b) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

(a). Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable.

(b). Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g., the total time period that construction activity is temporarily

ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of site by the 14th day after construction activity temporarily ceased.

(2). Structural practices. A description of structural practices to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

(3). Sediment basins. For common drainage locations a temporary (or permanent) sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 1800 cubic feet (67 cubic yards) of storage area per acre drained does not apply to flows from off-site areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. For drainage locations where a temporary sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent controls is not attainable, sediment traps, silt fences, wood mulch berms or equivalent sediment controls are required for all side slope and down slope boundaries of the construction area. When the sediment fills to a volume at most of 22 cubic yards per acre for each acre of drainage area, the sediment shall be removed to restore the original design volume. This sediment must be properly disposed. Sediment basins may not be feasible at some construction projects. Careful consideration must be used to determine when a sediment basin cannot be used and/or when 67 cubic yards of storage per acre drained is not attainable and a written justification explaining the decision(s) must be included in the Plan. Perennial and intermittent waters of the State shall not be used for temporary or permanent sediment detention.

When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. Outlet structures that withdraw water from the surface are temporary BMPs and must be removed prior to submitting Notice of Termination. For construction activities where the NOI was submitted prior to January 1, 2014, this requirement of the permit is not applicable.

(4). Alternative BMPs. The use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the State Soil and Water Conservation Commission).

(5). High performance BMPs. The use of infiltration trenches, seep berms, sand filters, dry wells, polyacrylamide, etc. for minimizing point source discharges except for large rainfall events is encouraged.

b. Storm water management. A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Operators are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site.

(1). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on-site; and sequential systems (which combine several practices). The Plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed pre-development levels.

(2). Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel for the purpose of providing a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., no significant changes in the hydrological regime of the receiving water(s)).

(3). Installation and use of Green Infrastructure approaches and practices that mimic natural processes and direct storm water where it can be infiltrated, evapotranspired or re-used with significant utilization of soils and vegetation rather than traditional hardscape collection, conveyance and storage structures are encouraged to the maximum extent practicable. Green Infrastructure practices or approaches include permeable or porous paving, vegetated swales instead of curbs and gutters, green roofs, tree boxes, rain gardens, constructed wetlands, infiltration planters, vegetated median strips, protection and enhancement of riparian buffers and floodplains, and the overall reduction in site disturbance and impervious area. Design information on Green Infrastructure practices and other ways to manage storm water can be found in the Georgia Stormwater Management Manual ([www.georgiastormwater.com](http://www.georgiastormwater.com)) and the Georgia Green Growth Guidelines ([www.coastalgadnr.org/cm/green/guide](http://www.coastalgadnr.org/cm/green/guide)). Additional information on Green Infrastructure can be found at [water.epa.gov/infrastructure/greeninfrastructure/index.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm).

c. Other controls.

(1). Waste disposal. Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The Plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

(2). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(3). Nothing in this permit relieves a permittee from any obligations to comply with all applicable State and/or local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(4). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(5). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at [www.epa.gov/npdes/pubs/concretewashout.pdf](http://www.epa.gov/npdes/pubs/concretewashout.pdf).

(6) All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

#### 4. Inspections.

##### a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily

available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

**5. Maintenance.** The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

**6. Sampling Requirements.** This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the infrastructure construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations for each representative stormwater outfall. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. *Sample Type.* All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

*c. Sampling Points.*

(1). For construction activities the primary permittee must sample all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or all outfalls into such streams and other water bodies, or a combination thereof. However, provided for in and in accordance with Part IV.D.6.c.(2). of this permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outfalls, or a combination thereof. Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures,, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in

planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use.

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

(2). For infrastructure construction projects, the permittee is not required to sample a perennial or intermittent stream or other water bodies (or the associated outfall, if applicable) if the design professional preparing the Plan certifies that an increase in the turbidity of a specific identified receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water. A written justification and detailed analysis shall be prepared by the design professional justifying such proposed sampling. A summary chart of the justification and analysis for the representative sampling must be included on the Plan. The justification and analysis shall include the location and description of the specified sampled and un-sampled receiving water and shall contain a detailed comparison and discussion of each such receiving water in the following areas:

(a). site land disturbances and characteristics;

(b). receiving water watershed sizes and characteristics; and

(c). site and watershed runoff characteristics utilizing the methods in Appendix A-1 (United States Department of Agriculture Soil Conservation Service's TR-55, Urban Hydrology for Small Watersheds) of the most recent version of the "Manual for Erosion and Sedimentation Control in Georgia" for the various precipitation events and any other such considerations necessary to show that the increase in the turbidity of a specific identified sampled receiving water will be representative of the increases in the turbidity of a specific identified un-sampled receiving waters.

(3). For infrastructure construction projects, when the permittee determines that some receiving water(s) will not be sampled due to representative sampling, the design professional making this determination and preparing the Plan must include and sign the following certification in the Plan:

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

(4). For infrastructure construction projects, if at any time during the life of the project a selected receiving water no longer represents another receiving water, then the permittee shall sample the latter receiving water until selection of an alternative representative receiving water.

(5). For infrastructure construction projects, if at any time during the life of the project a receiving water is determined not to be represented as certified in the Plan, the permittee shall sample that receiving water until a Notice of Termination is submitted or until the applicable phase is stabilized in accordance with this permit.

(6). For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1).(g).

*d. Sampling Frequency.*

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible. .

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit. after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e).. Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

\*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

**7. Non-storm water discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

#### **E. Reporting.**

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of the certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

#### **F. Retention of Records**

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

## **Part V. STANDARD PERMIT CONDITIONS**

### **A. Duty to Comply.**

1. Each permittee must comply with all applicable conditions of this permit. Any permit noncompliance constitutes a violation of the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or for denial of a permit renewal application. Failure of a primary permittee to comply with any applicable term or condition of this permit shall not relieve any other primary permittee from compliance with their applicable terms and conditions of this permit.
2. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown in Part II.C. within fourteen (14) days of his/her discovery of the violation.
3. Penalties for violations of permit conditions. The Federal Clean Water Act and the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) provide that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine or by imprisonment, or by both. The Federal Clean Water Act and the Georgia Water Quality Control Act also provide procedures for imposing civil penalties which may be levied for violations of the Acts, any permit condition or limitation established pursuant to the Acts, or negligently or intentionally failing or refusing to comply with any final or emergency order of the Director.

**B. Continuation of the Expired General Permit.** This permit expires on the date shown on the cover page of this permit. However, an expired general permit continues in force and effect until a new general permit is issued, final and effective.

**C. Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**D. Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**E. Duty to Provide Information.** The permittee shall furnish to the Director; a State agency approving soil erosion and sedimentation control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm

sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system, any information which is requested to determine compliance with this permit. In the case of information submitted to the EPD such information shall be considered public information and available under the Georgia Open Records Act.

**F. Other Information.** When the permittee becomes aware that he/she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report required to be submitted to the EPD, the permittee shall promptly submit such facts or information.

**G. Signatory Requirements.** All Notices of Intent, Notice of Terminations, inspection reports, sampling reports, or other reports requested by the EPD shall be signed as follows:

1. All Notices of Intent and Notices of Termination shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this permit, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public facility: by either a principal executive officer or ranking elected official; and

d. Changes to authorization. If an authorization under Part II.B. is no longer accurate, a change of information NOI satisfying the requirements of Part II.B. must be submitted to the EPD prior to or together with any inspection reports, sampling reports, or other reports requested by the EPD to be signed by a person described above or by a duly authorized representative of that person.

2. All inspection reports, sampling reports, or other reports requested by the EPD shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person(s) described above and submitted to the EPD;

b. The authorization specifies either an individual or a position having responsibility for specified operation(s) of the regulated facility or activity, such as the position of manager, Operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may be either a named individual or any individual occupying a named position); and

c. *Certification.* Reports delineated in Part V.G.2. shall be signed by the permittee or duly authorized representative and shall make the following certification:

"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**H. Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Georgia Hazardous Waste Management Act, O.C.G.A. § 12-8-60, et seq. or under Chapter 14 of Title 12 of the Official Code of Georgia Annotated; nor is the Operator relieved from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act or Section 106 of Comprehensive Environmental Response Compensation And Liability Act.

**I. Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

**J. Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

**K. Other Applicable Environmental Regulations and Laws.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act. Nothing in this permit, unless explicitly stated, exempts the permittee from compliance with other applicable local, state and federal ordinances, rules, regulations, and laws. Furthermore, it is not a defense to compliance with this permit that a local government authority has approved the permittee's Erosion, Sedimentation and Pollution Control Plan or failed to take enforcement action against the permittee for violations of the Erosion, Sedimentation and Pollution Control Plan, or other provisions of this permit.

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

**L. Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the required plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

**M. Inspection and Entry.** The permittee shall allow the Director or an authorized representative of EPA or EPD or, in the case of a construction site which discharges through a municipal separate storm sewer system with an NPDES permit, an authorized representative of the municipal operator of the separate storm sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

**N. Permit Actions.** This permit may be revoked and reissued, or terminated for cause including but not limited to changes in the law or regulations. The filing of a request by the permittee for termination of the permit, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## **Part VI. TERMINATION OF COVERAGE**

**A. Notice of Termination Eligibility.** Notice of Termination signed in accordance with Part V.G.1. of this permit must be submitted:

1. For infrastructure construction projects, by the permittee where the entire project has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. The permittee may also submit a Notice of Termination for each phase of the infrastructure project, not to exceed four (4) phases, that have undergone final stabilization and all storm water discharges associated with construction activity for that phase authorized by this permit have ceased. Except for the final phase, the disturbed acreage for each phase must be equal to or greater than 25% of the total estimated disturbed acreage for the infrastructure project. For the final phase, the disturbed acreage for the final phase must be equal to or greater than 10% of the total estimated disturbed acreage for the infrastructure project. The Notice of Termination for each phase of the infrastructure project must include the GPS locations (decimal degrees) of the beginning and end of each phase and if applicable, a map identifying significant landmarks.

2. By the Owner or Operator or both when the Owner or Operator or both of the site changes. Where storm water discharges will continue after the identity of the Owner or Operator or both changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator or both of the permitted site as to the requirements of this permit.

### **B. Notice of Termination Contents:**

1. The NPDES permit number for the storm water discharge associated with construction activity identified by the Notice of Termination (i.e., GAR100002 – Infrastructure);
2. The project construction site name, site location, GPS locations (decimal degrees) of the beginning and end of the infrastructure construction project or if applicable, of each phase in accordance with Part VI.A.1., construction site location and if applicable, a map identifying significant landmarks, city (if applicable) and county of the site for which the notification is submitted. This information must correspond to the similar information as provided on the NOI. The construction site location information must be sufficient to accurately locate the construction site;
3. The owner's legal name, address, telephone number and email address and the operator's legal name, address, telephone and email address;
4. The name of the receiving water(s), and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4;
5. Copies of all sampling reports and/or a written justification why sampling was not conducted. Copies of all sampling reports may be submitted as a Portable Document Format (PDF) file on CD-ROM or other storage device;
6. Copy of the permittee's most current Notice of Intent;
7. Any other information specified on the NOT in effect at the time of submittal; and
8. The following certification signed in accordance with Part V.G.1. (signatory requirements):

"I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or ; (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control; and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

**C. Notice of Termination Submittal.** All Notices of Termination by this permit shall be submitted by *return receipt certified mail* (or similar service) to the appropriate EPD District Office according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by the EPD then the Notice of Termination may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

## APPENDIX A

### EPD DISTRICT OFFICES

All required correspondence, including but not limited to the Notice of Intent, Notice of Terminations, certifications, Erosion, Sedimentation and Pollution Control Plans and any other reports, shall be sent to the following District Offices of EPD.

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354  
(404) 675-6240

## APPENDIX B

### Nephelometric Turbidity Unit (NTU) TABLES

#### Trout Streams

		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
	25.01-50	25	25	25	50	75	100	300	500
	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100

#### Waters Supporting Warm Water Fisheries

		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

- (1) public drinking water system reservoirs,
- (2) fences,
- (3) stream crossings for water lines and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer
- (4) stream crossings for any utility lines of any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, (b) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (c) the entity is not a secondary permittee for a project located within a common development or sale under this permit,
- (5) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 200 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification; and
- (6) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and
- (7) right-of-way posts, guy-wires, anchors, survey markers and the replacement or maintenance of existing utility structures within the current right-of-way undertaken by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) native riparian vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit.

(iii). Except as provided in Part IV(iv) below, no construction activities shall be conducted within a 25 foot buffer along coastal marshlands, as measured horizontally from the coastal marshland-upland interface, as determined in accordance with Part 4 of Article 4 of Chapter 5 of Title 12, the "Coastal Marshlands Protection Act of 1970, and the rules and regulations promulgated thereunder, except where the director determines to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where otherwise allowed by the director pursuant to Code Section 12-2-8, or where an alteration within the buffer area has been authorized pursuant to Code Section 12-5-286, or for maintenance of any currently serviceable structure, landscaping, or hardscaping, including bridges, roads, parking lots, golf courses, golf cart paths, retaining walls,

bulkheads, and patios, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or where a drainage structure or roadway drainage structure is constructed or maintained, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or on the landward side of any currently serviceable shoreline stabilization structure, or for the maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented:

- (1) Public drinking water system reservoirs,
- (2) Crossings for utility lines that cause a width of disturbance of not more than 50 feet within the buffer
- (3) Any land-disturbing activity conducted pursuant to and in compliance with a valid and effective land-disturbing permit issued subsequent to April 22, 2014, and prior to December 31, 2015,
- (4) Any lot for which the preliminary plat has been approved prior to December 31, 2015 if roadways, bridges, or water and sewer lines have been extended to such lot prior to the effective date of this Act and if the requirement to maintain a 25 foot buffer would consume at least 18 percent of the high ground of the platted lot otherwise available for development,
- (5) Fences
- (6) Crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification;
- (7) Right-of-way posts, guy wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way undertaken or financed in whole or in part by the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority or undertaken by any county or municipality, provided that: (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit;
- (8) Right-of-way posts, guy wires, anchors, survey markers and the replacement and maintenance of existing utility structures within the current right-of-way by any electric membership corporation or municipal electrical system or any public utility under the regulator jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in Code Section 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution of power, provided that (a) the area of land disturbance does not exceed 100 square feet per structure, (b) the area of buffer vegetation to be cut (not grubbed) does not exceed 1,000 square feet per structure, (c) vegetation is re-established in any bare or disturbed areas within the buffer and (d) the entity is not a secondary permittee for a project located within a common development or sale under this permit; and

(iii. iv.) Except as provided above, for buffers required pursuant to Part IV.(i), (ii) and (iii), no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed or marsh.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit.

Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan must be prepared by the primary permittee for the infrastructure construction project.

#### **A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.

2. For construction activities that began on or before the effective date of this permit and were subject to the regulations under the previous permit, the permittee(s) shall continue to operate under the existing Plan.

3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the infrastructure development that corresponds with the NOI being submitted and the primary permittee(s) shall implement the Plan on or before the day construction activities begin.

4. Additional Plan Submittals.

c. coverage under this permit is not required for discharges of storm water associated with infrastructure construction projects that consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and the hydraulic capacity, as applicable. The permittee shall, as a minimum, implement and maintain best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity is being conducted. In order to be eligible for this exemption the project must comply with the following conditions: (1) no mass grading shall occur on the project, (2) the project shall be stabilized by the end of each day with temporary or permanent stabilization measures, (3) the project shall have a duration of less than 120 calendar days, and (4) final stabilization must be implemented at the end of the maintenance project; and

d. coverage under this permit is not required for discharges of storm water associated with infrastructure road construction projects that consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and vehicular capacity, as applicable. The permittee shall, as a minimum, implement and maintain best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity is being conducted. In order to be eligible for this exemption the project must comply with the following conditions: (1) no mass grading shall occur on the project, (2) the project shall be stabilized by the end of each day with temporary or permanent stabilization measures, (3) the project shall have a duration of less than 120 calendar days, and (4) final stabilization must be implemented at the end of the maintenance project; and

de. coverage under this permit is not required for discharge of storm water associated with railroad construction projects and emergency re-construction conducted pursuant to the Federal Railway Safety Act, the Interstate Commerce Commission Termination Act and which consist solely of routine maintenance for the original purpose of the facility that is performed to maintain the original line and grade and the hydraulic capacity, as applicable. The construction activity should, at a minimum, implement and maintain best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation consistent with the requirements of the Federal Railway Safety Act and applicable requirements of the Clean Water Act.

**2. Mixed Storm Water Discharges.** This permit may only authorize a storm water discharge from a construction site or construction activities mixed with a storm water discharge from an industrial source or activity other than construction where:

a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;

b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and

c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general

Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:**  
Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Carroll, Clayton, Coweta, DeKalb,

Information shall be submitted to:

Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:**  
Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Bartow, Catoosa, Chattooga,

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8687  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
4220 International Parkway, Suite 404  
Atlanta, Georgia 30354  
(404) 675-6240  
2 Martin Luther King Jr. Drive  
Suite 1152 East  
Atlanta, Georgia 30334  
404-463-1511



Insert Yellow Sheet

Back of Yellow Sheet

**State of Georgia  
Department of Natural Resources  
Environmental Protection Division**

**Authorization To Discharge Under The  
National Pollutant Discharge Elimination System  
Storm Water Discharges Associated With Construction Activity  
For Common Developments**

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Clean Water Act, as amended (33 U.S.C.1251 et seq.), hereinafter called the "Clean Water Act," and the Rules and Regulations promulgated pursuant to each of these Acts, new and existing storm water point sources within the State of Georgia that are required to have a permit, upon submittal of a Notice of Intent, are authorized to discharge storm water associated with construction activity to the waters of the State of Georgia in accordance with the limitations, monitoring requirements and other conditions set forth in Parts I through VI hereof.

This permit shall become effective on September 24, 2013.

This permit and the authorization to discharge shall expire at midnight, July 31, 2018.

Signed this 23rd day of September 2013.



  
\_\_\_\_\_  
Director,  
Environmental Protection Division

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## **Part I. COVERAGE UNDER THIS PERMIT**

### **A. Permit Area.**

This permit regulates point source discharges of storm water to the waters of the State of Georgia from construction activities, as defined in this permit.

**B. Definitions.** All terms used in this permit shall be interpreted in accordance with the definitions as set forth in the Georgia Water Quality Control Act (Act) and the Georgia Rules and Regulations for Water Quality Control Chapter 391-3-6 (Rules), unless otherwise defined in this permit:

1. "Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
2. "Blanket NOI" means a Notice of Intent to be used by utility companies and/or utility contractors acting as secondary permittees that covers all construction activities in common developments during the calendar year for which the NOI is submitted.
3. "Buffer" means the area of land immediately adjacent to the banks of State waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.
4. "Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the State Soil and Water Conservation Commission.
5. "Commencement of Construction" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities.
6. "Common Development" means a contiguous area where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development on or after August 1, 2000.
7. "Construction Activity" means the disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities which may result in soil erosion. Construction activity does not include agricultural and silvicultural practices, but does include agricultural buildings.
8. "CPESC" means Certified Professional in Erosion and Sediment Control with current certification by EnviroCert International, Inc. ([www.EnviroCertIntl.org](http://www.EnviroCertIntl.org)).
9. "CWA" means Federal Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972).
10. "Design Professional" means a professional licensed by the State of Georgia in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a Certified Professional in Erosion and Sediment Control (CPESC) with a current certification by EnviroCert International, Inc. Design Professionals shall practice in a manner that complies with applicable Georgia law governing professional licensure.
11. "Director" means the Director of the Environmental Protection Division or an authorized representative.

12. "Division" means the Environmental Protection Division of the Department of Natural Resources.
13. "Erosion" means the process by which land surface is worn away by the action of wind, water, ice or gravity.
14. "Erosion, Sedimentation and Pollution Control Plan" or "Plan" means a plan for the control of soil erosion, sediment and pollution resulting from a construction activity.
15. "Filling" means the placement of any soil or solid material either organic or inorganic on a natural ground surface or an excavation.
16. "Final Stabilization" means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region).
17. "General Contractor" means the operator of the common development or site.
18. "Impossible" means the monitoring location(s) are either physically or legally inaccessible, or access would cause danger to life or limb.
19. "Landfill" means an area of land or an excavation in which waste materials are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well or waste pile as defined by Georgia NPDES General Permit GAR000000, and which area of land or excavation must be certified by EPD before it can begin waste disposal operations.
20. "Landfill Cell(s)" means a defined area within a landfill where waste materials are permanently disposed and that must be certified by EPD for use before such cell(s) can begin receiving waste materials after which those activities associated with waste receipt and disposal in the landfill cell(s) shall not be considered construction activity as defined by this permit.
21. "Local Issuing Authority" means the governing authority of any county or municipality which is certified pursuant to Official Code of Georgia Section 12-7-8(a).
22. "Mass Grading" means the movement of earth by mechanical means to alter the gross topographic features (elevations, slopes, etc.) to prepare a site for final grading and the construction of facilities (buildings, roads, parking, etc.).
23. "Nephelometric Turbidity Unit (NTU)" means a numerical unit of measure based upon photometric analytical techniques for measuring the light scattered by fine particles of a substance in suspension.
24. "NOI" means Notice of Intent to be covered by this permit (see Part II).
25. "NOT" means Notice of Termination (see Part VI).
26. "Operator" means the entity that has the primary day-to-day operational control of those activities at the construction site necessary to ensure compliance with Erosion, Sedimentation and Pollution Control Plan and permit conditions.
27. "Other Water Bodies" means ponds, lakes, marshes and swamps which are waters of the State.

28. "Outfall" means the location where storm water, in a discernible, confined and discrete conveyance, leaves a facility or site or, if there is a receiving water on site, becomes a point source discharging into that receiving water.
29. "Owner" means the legal title holder to the real property on which is located the facility or site where construction activity takes place.
30. "Permittee" means any entity that has submitted a Notice of Intent.
31. "Phase" or "Phased" means sub-parts or segments of construction projects where the sub-part or segment is constructed and stabilized prior to completing the entire construction site.
32. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure or container from which pollutants are or may be discharged. This term also means sheetflow which is later conveyed via a point source to waters of the State. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.
33. "Primary Permittee" means the Owner or the Operator or both of a tract of land for a construction project subject to this permit.
34. "Proper design" and "properly designed" means designed in accordance with the design requirements and specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the Manual as approved by the State Soil and Water Conservation Commission up until the date of NOI submittal.
35. "Receiving Water(s)" means all perennial and intermittent waters of the State into which the runoff of storm water from a construction activity will actually discharge, either directly or indirectly.
36. "Secondary Permittee" means an owner, individual builder, utility company, or utility contractor that conducts a construction activity within a common development with an existing primary permittee.
37. "Sediment" means solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by, wind, water, ice, or gravity as a product of erosion.
38. "Sedimentation" means the action or process of forming or depositing sediment.
39. "Service Line" means the final connection installed by a utility company or utility contractor between a structure and the closest main and/or trunk line.
40. "Sheetflow" means runoff which flows over the ground surface as a thin, even layer, not concentrated in a channel.
41. "Site" or "Construction Site" means a facility of any type on which construction activities are occurring or are to occur which may result in the discharge of pollutants from a point source into the waters of the State.
42. "Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
43. "Structural Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by utilizing the mechanical properties of matter for the purpose of either changing the surface of the land or storing, regulating or disposing of runoff to prevent excessive sediment loss.
44. "Sub-contractor" means an entity employed or retained by the permittee to conduct any type of construction activity (as defined in this permit) at a site or common development. Sub-contractors must complete the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance

with the provisions of O.C.G.A. 12-7-19. Sub-contractors are not permittees unless they meet the definition of either a primary, secondary or tertiary permittee.

45. "Surface Water Drainage Area" means the hydrologic area starting from the lowest downstream point where the storm water from the construction activity enters the receiving water(s) and following the receiving water(s) upstream to the highest elevation of land that divides the direction of water flow. This boundary will connect back with the storm water entrance point. Boundary lines follow the middle of the highest ground elevation or halfway between contour lines of equal elevation.

46. "Tertiary Permittee" means either the Owner or Operator of a remaining lot(s) within a common development (as defined in this permit) conducting a construction activity where the primary permittee and all secondary permittees have submitted a Notice of Termination in accordance with Part VI.A.2. of this permit (excluding utility companies and/or utility contractors working under a Blanket NOI) or where a primary permittee no longer exists.

47. "Trout Streams" means waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

48. "USGS Topographic Map" means a current quadrangle, 7½ minute series map prepared by the United States Department of the Interior, Geological Survey.

49. "Utility Company or Utility Contractor" means, for purposes of this Permit, an entity or sub-contractor that is responsible, either directly or indirectly, for the construction, installation, and maintenance of conduits, pipes, pipelines, cables, wires, trenches, vaults, manholes, and similar structures or devices for the conveyance of natural gas (or other types of gas), liquid petroleum products, electricity, telecommunications (telephone, data, television, etc.), water, storm water or sewage.

50. "Vegetative Erosion and Sediment Control Practices" means measures for the stabilization of erosive or sediment producing areas by covering the soil with: (1) permanent seeding, sprigging or planting, producing long-term vegetative cover; (2) temporary seeding, producing short-term vegetative cover; or (3) sodding, covering areas with a turf of perennial sod forming grass.

51. "Waters Supporting Warm Water Fisheries" means all waters of the State that sustain, or have the potential to sustain, aquatic life but excluding trout streams.

52. "Waters of Georgia" or "Waters of the State" means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, wetlands, and all other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

### **C. Eligibility.**

**1. Construction Activities.** This permit authorizes, subject to the conditions of this permit:

- a. all discharges of storm water associated with common plans of development, or other construction activity where the primary permittee chooses to use secondary permittees, that will result in land disturbance equal to or greater than one (1) acre occurring on or before, and continuing after, the effective date of this permit, (henceforth referred to as existing storm water discharges from construction activities) except for discharges identified under Part I.C.3. Storm water discharges from construction activities involving less than one (1) acre where the primary permittee used secondary or tertiary permittees which are part of a larger common development (i.e., greater than one (1) acre; henceforth referred to as existing common development) occurring on or before, and continuing after, the effective date of this permit are authorized subject to the conditions of this permit;

b. all discharges of storm water associated with common plans of development, or other construction activity where the primary permittee chooses to use secondary permittees, that will result in land disturbance equal to or greater than one (1) acre occurring after the effective date of this permit, (henceforth referred to as storm water discharges from construction activities), except for discharges identified under Part I.C.3. Storm water discharges from construction activities involving less than one (1) acre where the primary permittee uses secondary permittees or tertiary permittees which are part of a larger common development (i.e., greater than one (1) acre) are authorized subject to the conditions of this permit; and

c. coverage under this permit is not required for discharges of storm water associated with minor land disturbing activities (such as home gardens and individual home landscaping, repairs, maintenance work, fences and other related activities which result in minor soil erosion) conducted outside of the 25 foot buffer along the banks of all State waters requiring a buffer and outside of the 50 foot buffer along the banks of all State waters classified as 'trout streams' requiring a buffer on individual residential lots sold to homeowners where all planned construction activities on that lot have been completed and have undergone final stabilization.

**2. Mixed Storm Water Discharges.** This permit may only authorize a storm water discharge from a construction site or construction activities mixed with a storm water discharge from an industrial source or activity other than construction where:

a. the industrial source or activity other than construction is located on the same site as the construction activity and is an integral part of the construction activity;

b. the storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and

c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing such discharges and the discharges are in compliance with a different NPDES permit.

**3. Limitations on Coverage.** The following storm water discharges from construction sites are not authorized by this permit:

a. storm water discharges associated with an industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization;

b. discharges that are mixed with sources of non-storm water other than discharges which are identified in Part III.A.2. of this permit and which are in compliance with Part IV.D.7. (non-storm water discharges) of this permit;

c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges; and

d. storm water discharges from construction sites that the Director (EPD) has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.

**4. Compliance with Water Quality Standards.** No discharges authorized by this permit shall cause violations of Georgia's in-stream water quality standards as provided by the Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03.

#### **D. Authorization.**

1. Any person desiring coverage under this permit as either a primary permittee, a secondary permittee or a tertiary permittee must submit a Notice of Intent (NOI) to the EPD and the NOI must be received by the EPD in accordance with the requirements of Part II, using NOI forms provided by the EPD (or an exact photocopy thereof), in order for storm water discharges from construction sites to be authorized. A Notice of Intent for secondary permittee coverage can be submitted either concurrently with or after the submittal of a Notice of Intent by the primary permittee.
2. Unless notified by the Director to the contrary, a permittee (either primary, secondary or tertiary) who submits an NOI in accordance with the requirements of this permit is authorized to discharge storm water from construction sites under the terms and conditions of this permit fourteen (14) days after the date that the NOI is postmarked. The Director may deny coverage under this permit and require submittal of an application for an individual NPDES permit or alternative general NPDES permit based on a review of the NOI or other information. Should the Director deny coverage under this permit, coverage under this permit is authorized until the date specified in the notice of denial by the Director.
3. Where a new primary or secondary permittee is to begin work on-site after an NOI for the facility/construction site has been submitted, that new primary or secondary permittee must submit a new NOI in accordance with Part II. A secondary permittee is not required to submit a new NOI or re-submit an NOI when a new primary permittee is named.

**E. Continuing Obligations of Permittees.** Unless and until responsibility for a site covered under this permit is properly terminated according to the terms of the permit, the current permittee remains responsible for compliance with all applicable terms of the permit and for any violations of said terms.

## **Part II. NOTICE OF INTENT REQUIREMENTS**

### **A. Deadlines for Notification.**

1. Except as provided in Part II.A.2., II.A.3. and II.A.5., Owners or Operators or both who intend to obtain coverage under this general permit for storm water discharges from a construction site (where construction activities begin after issuance of this permit), shall submit a Notice of Intent (NOI) in accordance with the requirements of this Part at least fourteen (14) days prior to the commencement of construction activities.
2. For sites where construction activities, subject to this permit, are occurring on or before the effective date of this permit, the Owner or Operator or both shall submit a re-issuance NOI for an existing construction site in accordance with the requirements of this part no later than ninety (90) days after the effective date of this permit. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.
3. A discharger is not precluded from submitting an NOI in accordance with the requirements of this part after the dates provided in Parts II.A.1. or II.A.2. of this permit. In such instances, EPD may bring an enforcement action for failure to submit an NOI in a timely manner or for any unauthorized discharges of storm water associated with construction activity that have occurred on or after the dates specified in Part II.A.1. and II.A.2.
4. Where an Owner or an Operator or both changes after an NOI has been filed, the subsequent Owner or Operator or both must file a change of information NOI in accordance with this Part by the earlier of (a) seven (7) days before beginning work at the facility/construction site or (b) thirty (30) days from acquiring legal title to the facility/construction site. In the event a lender or other secured creditor acquires legal title to the facility/construction site, such party must file a change of information NOI in accordance with this Part by the

earlier to occur of (a) seven (7) days before beginning work at the facility/construction site; or (b) thirty (30) days from acquiring legal title to the facility/construction site. Stabilization and BMP installation and/or maintenance measures of a disturbed site, by the subsequent Owner or Operator, may occur in advance of filing a new NOI, without violation of this permit. A secondary permittee is not required to submit a change of information NOI when a new primary permittee is named. Failure to comply with this requirement shall constitute a violation of the Georgia Water Quality Control Act for each day until the Owner or Operator or both submit an initial NOI for a new construction site in accordance with Part II.A.1., comply with the special conditions in Part III., prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV., and pay all applicable fees in accordance with Part II.D.

5. For sites where construction activities will result in land disturbance equal to or greater than one (1) acre that are required as a result of storm- or emergency-related repair work, the Owner or Operator or both shall notify the appropriate EPD District Office within three (3) days of commencement of said construction activities. The Owner or Operator or both shall submit the NOI to the appropriate EPD district office as soon as possible after the storm- or emergency-related event but no later than fourteen (14) days after the commencement of construction activities and shall submit the Plan in accordance with Part IV.A.6.

## **B. Notice of Intent Contents.**

**1. Primary Permittee.** A single Notice of Intent for the primary permittee (i.e., one NOI signed by the Owner or the Operator or both) shall be signed in accordance with Part V.G.1. of this permit and shall include the following information:

- a. The project construction site name, GPS location (decimal degrees) of construction exit, construction site location (e.g., street address), common development name (if applicable), city (if applicable) and county of the construction site for which the notification is submitted. The construction site location information must be sufficient to accurately locate the construction site;
- b. The Owner's legal name, address, telephone number and email address; and if available, the operator's legal name, address, telephone number and email address; and if applicable, the Duly Authorized Representative's legal name and/or position name, telephone number and email address;
- c. The name, telephone number and email address of the individual to whom the permittee has assigned the responsibility for the daily operational control (i.e., construction superintendent, etc.) of the construction site;
- d. The name of the initial receiving water(s) or if unnamed the first named blue line stream indicated on the appropriate USGS Topographic map, and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4, and the permittee's determination of whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).
- e. The name of the receiving water(s) located within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s) shown on Georgia's most current "305(b)/303(d) List Documents (Final)" for the criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) at [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html);
- f. An estimate of project start date and completion date, a schedule for the timing of the various construction activities, the number of acres of the site on which soil will be disturbed and the surface

water drainage area (if applicable). For projects that began on or before the effective date of this permit, the start date must be the actual start date of construction;

g. The following certification shall be signed in accordance with Part V.G.1. of this permit:

"I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all requirements of this permit."

h. An estimate of the number of secondary permittees, if applicable;

i. The type of construction activity category (from those listed on the NOI) conducted at the site;

j. The location of the receiving water(s) or outfall(s) or a combination of receiving water(s) and outfall(s) to be sampled on a map or drawing of appropriate scale. When it is determined by the primary permittee that some or all of the outfall(s) will be sampled, the applicable nephelometric turbidity unit (NTU) selected from Appendix B (i.e., based upon the size of the common development construction site and the surface water drainage area) must be shown for each outfall to be sampled.

k. For construction activities disturbing more than 50 acres, which began after the effective date of this permit, include a single copy of the Erosion, Sedimentation, and Pollution Control Plan;

l. NOIs may be submitted for separate phases of projects with a total planned disturbance greater than 5.0 acres, provided that each phase shall not be less than 1.0 acre. Phased NOIs shall include all documentation required by this permit for each phase, including applicable fees, and

m. Any other information specified on the NOI in effect at the time of submittal.

**2. Secondary Permittee.** The Notice of Intent for each secondary permittee shall be signed in accordance with Part V.G.1. of this permit. The Notice of Intent shall include the following information:

a. The project construction site name, construction site location (e.g., street address), common development name (if applicable), lot number(s) (if applicable), city (if applicable) and county of the construction site for which the notification is submitted. The construction site location information must be sufficient to accurately locate the construction site;

b. The secondary permittee's legal name, address, telephone number and email address and if applicable, the Duly Authorized Representative's legal name and/or position name, telephone number and email address;

c. The name, address, telephone number and email address of the primary permittee (as shown on the primary permittee's NOI);

d. If this submittal is by a blanket secondary permittee, the legal name, address, telephone number and email address of the utility sub-contractor;

e. The name, telephone number and email address of the individual to whom the secondary permittee has assigned the responsibility for the daily operational control of the construction site;

f. The name of the initial receiving water(s) or if unnamed, the first named blue line stream indicated on the appropriate USGS Topographic map, and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer

system and the name of the receiving water(s) which receives the discharge from the MS4, and the permittee's determination of whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

g. The name of the receiving water(s) located within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s) shown on Georgia's most current "305(b)/303(d) List Documents (Final)" for the criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) at [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html);

h. An estimate of project start date and completion date of the construction activity by the entity making this submission, and an estimate of the number of acres of the site on which soil will be disturbed by the entity making this submission. For projects that began on or before the effective date of this permit, the start date must be the actual start date of construction;

i. A certification that the provisions of the primary permittee's Erosion, Sedimentation and Pollution Control Plan applicable to the secondary permittee's activities will be adhered to while conducting any construction activity at this site. (A copy of the Plans should not be included with the NOI submission by the secondary permittee);

j. The type of construction activity category (from those listed on the NOI) conducted at the site for this submission;

k. Any other information specified on the NOI in effect at the time of submittal; and

l. As an alternative to submitting a project specific NOI in accordance with subparts a. through k. above, a utility company may submit an annual Blanket Notice of Intent covering all construction activities within common developments statewide on or before January 15 of the year in which coverage is desired, except for calendar year 2013 in which case the Blanket NOI shall be submitted within sixty (60) days of the permit effective date, but in no case less than seven (7) days before commencement of construction activities. The Blanket NOI will contain the information contained in subparts b, d, i and j above. A copy of the Blanket NOI or equivalent written contact information shall be provided to the primary permittee not more than seven (7) days prior to the commencement of construction activities by the secondary permittee at each site. The primary permittee shall provide appropriate means for posting this information or otherwise making it publicly accessible.

**3. Tertiary Permittee.** The Notice of Intent for each tertiary permittee shall be signed in accordance with Part V.G.1. of this permit and shall include the following information:

a. The project construction site name, GPS location (decimal degrees) of construction exit, construction site location (e.g., street address), common development name (if applicable), lot number(s) (if applicable), city (if applicable) and county of the construction site for which the notification is submitted. The construction site location information must be sufficient to accurately locate the construction site;

b. The Owner's legal name, address, telephone number and email address; and if available, the operator's legal name, address, telephone number and email address; and if applicable, the Duly Authorized Representative's legal name and/or position name, telephone number and email address;

c. If available, the original primary permittee's legal name, address, telephone number and email address;

d. The name, telephone number and email address of the individual to whom the permittee has assigned the responsibility for the daily operational control (i.e., construction superintendent, etc.) of the construction site;

e. The name of the initial receiving water(s) or if unnamed, the first named blue line stream indicated on the appropriate USGS Topographic map, and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4, and the permittee's determination of whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org);

f. The name of the receiving water(s) located within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "partially supporting" or "not supporting" its designated use(s) shown on Georgia's most current "305(b)/303(d) List Documents (Final)" listed for Biota due to sediment (i.e., "Bio F" or "Bio M") and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) at [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html). This requirement of this permit is not applicable to tertiary permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre;

g. An estimate of project start date and completion date, a schedule for the timing of the various construction activities, the number of acres of the site on which soil will be disturbed and the surface water drainage area (if applicable);

h. The following certification shall be signed in accordance with Part V.G.1. of this permit:

"I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all requirements of this permit."

i. The type of construction activity category (from those listed on the NOI) conducted at the site;

j. The location of the receiving water(s) or outfall(s) or a combination of receiving water(s) and outfall(s) to be sampled on a map or drawing of appropriate scale. When it is determined by the tertiary permittee that some or all of the outfall(s) will be sampled, the applicable nephelometric turbidity unit (NTU) selected from Appendix B (i.e., based upon the size of the construction site and the surface water drainage area) must be shown for each outfall to be sampled;

k. For construction activities disturbing more than 50 acres, which began after the effective date of this permit, include a single copy of the Erosion, Sedimentation, and Pollution Control Plan;

l. NOIs may be submitted for separate phases of projects with a total planned disturbance greater than 5.0 acres, provided that each phase shall not be less than 1.0 acre. Phased NOIs shall include all documentation required by this permit for each phase; and

m. Any other information specified on the NOI in effect at the time of submittal.

**C. Notice of Intent Submittal.** NOIs are to be submitted by *return receipt certified mail* (or similar service) to both the appropriate District office of the EPD according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by EPD then

the NOI may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a Notice of Termination (NOT) is submitted in accordance with Part VI.

**D. Fees.** Any applicable fees shall be submitted by the **Primary Permittee** in accordance with Rules and Regulations for Water Quality Control (Rules) promulgated by the Board of Natural Resources. By submitting an NOI for coverage under this permit the primary permittee agrees to pay any fees required, now or in the future, by such Rules authorized under O.C.G.A. Section 12-5-23(a)(5)(A), which allows the Board of Natural Resources to establish a fee system. Fees may be assessed on land disturbing activity proposed to occur on or after the effective date of this permit and shall be paid in accordance with such Rules.

**E. Renotification.** Upon issuance of a new or different general permit for some or all of the storm water discharges covered by this permit, the permittee is required to notify the EPD of their intent to be covered by the new or different general permit. The permittee must submit a new Notice of Intent in accordance with the notification requirements of the new or different general permit.

### **PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS**

#### **A. Prohibition on Non-Storm Water Discharges.**

1. Except as provided in Part I.C.2. and III.A.2., all discharges covered by this permit shall be composed entirely of storm water.
2. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharge is explicitly listed in the Erosion, Sedimentation and Pollution Control Plan and is in compliance with Part IV.D.7.; discharges from fire fighting activities; fire hydrant flushing; potable water sources including water line flushing; irrigation drainage; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials or pollutants.
3. This permit does not authorize the discharge of soaps or solvents used in vehicle and equipment washing.
4. This permit does not authorize the discharge of wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.

#### **B. Releases in Excess of Reportable Quantities.**

1. The discharge of hazardous substances or oil in the storm water discharge(s) from a site shall be prevented. This permit does not relieve the permittee of the reporting requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR Part 117 and 40 CFR Part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 or 40 CFR 302 occurs during a 24 hour period, the permittee is required to notify EPD at (404) 656-4863 or (800) 241-4113 and the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of Georgia's Oil or Hazardous Material Spills or Releases Act (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 and 40 CFR 302 as soon as he/she has knowledge of the discharge.
2. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

**C. Discharges into, or within One Mile Upstream of and within the Same Watershed as, Any Portion of a Biota Impaired Stream Segment.**

The requirements of Part III.C. of this permit are not applicable to utility companies and utility contractors if they are secondary permittees provided that the utility companies and utility contractors implement the applicable best management practices detailed in the primary permittee's Plan. The requirements of Part III.C. of this permit are not applicable to tertiary permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre.

Any permittee who intends to obtain coverage under this permit for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of this permit if the Impaired Stream Segment has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's 305(b)/303(d) List Documents (Final)" can be viewed on the EPD website, [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html).

1. If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee's submittal of the NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee's discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to a permittee's discharge(s) to the Impaired Stream Segment, then the permittee must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website, [www.gaepd.org](http://www.gaepd.org).

2. In order to ensure that the permittee's discharge(s) do not cause or contribute to a violation of State water quality standards, the Plan must include at least four (4) of the following best management practices (BMPs) for those areas of the site which discharge to the Impaired Stream Segment:

- a. During all construction activities as defined in this permit, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width pursuant to this section.
- b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
- c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
- d. A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted.
- e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize all areas left disturbed for more than seven (7) calendar days in accordance with Part III.D.1. of this permit.
- f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of this permit.

- g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6(a)(1).
- h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
- i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
- j. Use "Dirt II" techniques available on the EPD website, [www.gaepd.org](http://www.gaepd.org) (e.g., seep berms, sand filters, anionic PAM) to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
- k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of 6 (six) inches to document improved levels of soil carbon after final stabilization of the construction site.
- l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
- m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan.
- n. Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
- o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within all construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
- p. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever construction storm water (including sheet flow) may be discharged.
- q. Conduct soil tests to identify and to implement site-specific fertilizer needs.
- r. Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a) – (c), Part IV.D.4.b.(3). (a) – (c) or Part IV.D.4.c.(3).(a) – (c) of this permit, as applicable.
- s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
- t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission).
- u. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any State mandated buffer areas from such calculations). All calculations must be included in the Plan.

#### **D. Management Practices and Permit Violations.**

1. Best management practices, as set forth in this permit, are required for all construction activities, and must be implemented in accordance with the design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the Director or to any other allegation of noncompliance with Part III.D.3. and Part III.D.4.
2. Except as required to install the initial sediment storage requirements and perimeter control BMPs as described in Part IV.D.3., the initial sediment storage requirements and perimeter control BMPs must be installed and implemented prior to conducting any other construction activities (e.g., clearing, grubbing and grading) within the construction site or when applicable, within phased sub-parts or segments of the construction site. Failure to comply shall constitute a violation of this permit for each day on which construction activities occur. The design professional who prepared the Plan must inspect the initial sediment storage requirements and perimeter control BMPs in accordance with Part IV.A.5. within seven (7) days after installation.
3. Failure to properly design, install, or maintain best management practices shall constitute a violation of this permit for each day on which such failure occurs. BMP maintenance as a result of the permittee's routine inspections shall not be considered a violation for the purposes of this paragraph. If during the course of the permittee's routine inspection BMP failures are observed which have resulted in sediment deposition into Waters of the State, the permittee shall correct the BMP failures and shall submit a summary of the violations to EPD in accordance with Part V.A.2. of this permit.
4. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such discharge results in the turbidity of receiving water(s) being increased by more than ten (10) nephelometric turbidity units for waters classified as trout streams or more than twenty-five (25) nephelometric turbidity units for waters supporting warm water fisheries, regardless of a permittee's certification under Part II.B.1.j. and Part II.B.3.j.
5. When the permittee has elected to sample outfall(s), the discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding the value selected from Appendix B applicable to the construction site. As set forth therein, the nephelometric turbidity unit (NTU) value shall be selected from Appendix B based upon the size of the construction site, the surface water drainage area and whether the receiving water(s) supports warm water fisheries or is a trout stream as indicated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org).

#### **Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN**

A site-specific Erosion, Sedimentation and Pollution Control Plan (Plan) shall be designed, installed and maintained for the phase or phases of the common development covered by this permit. The Erosion, Sedimentation and Pollution Control Plan must be prepared by a design professional as defined by this permit. All persons involved in Plan preparation shall have completed the appropriate certification course, pursuant to O.C.G.A. 12-7-19 (b), approved by the State Soil and Water Conservation Commission. The design professional preparing the Plan must include and sign the following certification in the Plan:

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling

of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100003.”

The Plan shall include any additional certifications regarding the design professional's site visit in accordance with the Rules for Erosion and Sedimentation Control promulgated by the Board of Natural Resources:

“I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.”

The Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the “Manual for Erosion and Sediment Control in Georgia” (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and O.C.G.A. 12-7-6, as well as the following:

(i). Except as provided in Part IV.(iii). below, no construction activities shall be conducted within a 25 foot buffer along the banks of all State waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where bulkheads and seawalls must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) stream crossings for water and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer,
- (3) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer, and
- (4) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification.

(ii). No construction activities shall be conducted within a 50 foot buffer, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, along the banks of any State waters classified as 'trout streams' except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-7-6, or where a roadway drainage structure must be constructed; provided, however, that small springs and streams classified as 'trout streams' which discharge an average annual flow of 25 gallons per minute or less shall have a 25 foot buffer or they may be piped, at the discretion of the permittee, pursuant to the terms of a rule providing for a general variance promulgated by the Board of Natural Resources including notification of such to EPD and the Local Issuing Authority of the location and extent of the piping and prescribed methodology for minimizing the impact of such piping and for measuring the volume of water discharged by the stream. Any such pipe must stop short of the downstream permittee's property, and the permittee must comply with the buffer requirement for any adjacent trout streams. The buffer shall not apply to

the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) stream crossings for water and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer,
- (3) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer,
- (4) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification.

(iii). Except as provided above, for buffers required pursuant to Part IV.(i). and (ii)., no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit.

Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan for a common development must be prepared by the primary permittee for all sites within the common development whether or not all of the sites within the common development are owned or operated by a single entity or by multiple entities. The Erosion, Sedimentation and Pollution Control Plan must address the best management practices for the phase or phases of the common development which includes all sites (i.e., individual home lots, out-parcels, etc) regardless of who owns or operates the individual sites.

The primary permittee must provide a copy of the Plan or applicable portions of the Plan and copy of the primary permittee's most current Notice of Intent to each secondary permittee prior to the secondary permittee conducting any construction activity. Any revisions to the Plan and/or the Notice of Intent must be provided to the secondary permittees in a timely manner. A written acknowledgment of receipt of the Plan and Notice of Intent must be made by the secondary permittee and a copy of such be retained in the primary permittee's records in accordance with Part IV.F. of this permit. If the primary permittee changes after the Plan is prepared and implemented, any subsequent primary permittee must ensure that the Plan complies with all terms and conditions of this permit and that each secondary permittee is provided with any revisions to the Plan and Notice of Intent made by the new primary permittee. A written acknowledgment of receipt of the Plan or amendments to the Plan and Notice of Intent must be made by the secondary permittee and a copy of such be retained in the new primary permittee's records in accordance with Part IV.F. of this permit.

**A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.
2. For construction activities that began on or before the effective date of this permit and were subject to regulations under the previous general permit, the permittee(s) shall continue to operate under the existing Plan.
3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the common development that corresponds with the NOI being submitted and the primary and all secondary permittee(s) shall implement the applicable portion of the Plan on or before the day construction activities begin.
4. Additional Plan Submittals.
  - a. For all projects identified under Part I.C.1.b., which begin after the effective date of this permit, in a jurisdiction where there is no certified Local Issuing Authority regulating that project, a single copy of the Plan must be submitted to the EPD Watershed Protection Branch and a second copy of the Plan must be submitted to the appropriate EPD District Office prior to or concurrent with the NOI submittal. The second copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device. The EPD Watershed Protection Branch will review Plans for deficiencies using the applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted.
  - b. For sites that are equal to or greater than 50 acres of disturbed area, regardless of the existence of a certified Local Issuing Authority in the jurisdiction, one of the following submissions is also required:
    - (i) For all projects which begin after the effective date of this permit a single copy of the NOI and a single copy of the Plan shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.
    - (ii) For all projects which began on or before the effective date of this permit single copy of the NOI and a single copy of the Plan, if amended, shall be submitted to the appropriate EPD District Office. This copy of the Plan may be submitted to the appropriate EPD District Office as a Portable Document Format (PDF) file on CD-ROM or other storage device.
  - c. For all projects where the construction activity as indicated on the existing NOI has changed, the amended Plans must be submitted in accordance with Part IV.A.4.a. In addition, the permittee must file a change of information NOI in accordance with Part II.
5. For common developments that begin construction activity after the effective date of this permit, the primary permittee and tertiary permittee(s) must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required. This requirement of this permit is not applicable to tertiary permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre.

6. For storm- or emergency-related repair work, the permittee shall implement appropriate BMPs and certified personnel (provided by the primary permittee) shall inspect at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater. If the storm- or emergency-related repair work will not be completed within sixty (60) days of commencement of construction activity, a single copy of the Plan shall be submitted to EPD and the permittee shall comply with all requirements of this permit on the sixty-first (61st) day.

## **B. Signature and Plan Review.**

1. The Erosion, Sedimentation and Pollution Control Plan shall be signed in accordance with Part IV., and be retained on the site (or, if not possible, at a readily accessible location) which generates the storm water discharge in accordance with Part IV.F. of this permit. The primary permittee shall ensure, as provided for elsewhere in this permit, that each secondary permittee is provided with a copy of the Plan and that the secondary permittee understands their role in implementing the Plan. The secondary permittee shall sign the Plan or the portion of the Plan applicable to their site in accordance with Part V.G.1. and the Plan or applicable portion thereof shall be retained on the site or be readily available at a designated alternate location from the date of project initiation to the date of final stabilization.

2. The primary permittee and tertiary permittee(s) shall make Plans available upon request to the EPD; to designated officials of the local government reviewing soil erosion and sediment control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system. A secondary shall make the Plan or portion of the Plan applicable to their site available upon request to the EPD; to the local government reviewing soil erosion and sediment control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system. The Plan must be submitted to EPD or to the local government within three business days of such notification or within an alternate time frame established by EPD.

3. EPD may notify the primary, secondary or tertiary permittee at any time that the Plan does not meet one or more of the minimum requirements of this Part. Within seven (7) days of such notification (or as otherwise provided by EPD), the primary or tertiary permittee shall make the required changes to the Plan and shall submit to EPD either the amended Plan or a written certification that the requested changes have been made. For sites commencing construction on or before the effective date of this permit, EPD may notify the secondary permittee at any time that the Plan does not meet one or more of the minimum requirements of this permit. Within seven (7) days of such notification (or as otherwise provided by EPD), the secondary permittee shall implement the required changes to the Plan and shall submit to EPD either the amended Plan or a written certification that the requested changes have been made. For sites commencing construction after the effective date of this permit, when EPD notifies a secondary permittee of any Plan deficiencies, the secondary permittee must notify the primary permittee within 24-hours of the deficiencies. The primary permittee must amend the Plan in accordance with this paragraph to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to any and all affected secondary permittees within this seven (7) day period. The secondary permittees must implement any new Plan requirements within 48-hours of notification by the primary permittee.

**C. Keeping Plans Current.** The primary, secondary or tertiary permittees, as applicable, shall amend their Plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on BMPs with a hydraulic component (i.e., those BMPs where the design is based upon rainfall intensity, duration and return frequency of storms) or if the Plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part IV.D.3. of this permit. Amendments to the Plan must be certified by a design professional as provided in this permit. Secondary permittees must notify the primary permittee within 24-hours of becoming aware of any suspected BMP designed deficiencies which are not effective in controlling the discharge of pollutants from the secondary permittee's site. The primary permittee must evaluate whether these

deficiencies exist within 48-hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with this paragraph to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittees within this seven (7) day period. The secondary permittee(s) must implement any new Plan requirements affecting their site(s) within 48-hours of notification by the primary permittee. Notwithstanding the foregoing, the primary or tertiary permittee remains responsible for insuring that the Plan, as appropriate, meets the requirements of this permit.

**D. Contents of Plan.** The Erosion, Sedimentation and Pollution Control Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, as well as the following:

**1. Checklist.** Each plan shall include a completed Erosion, Sedimentation and Pollution Control Plan Checklist established by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and amendments to the applicable Checklist as approved by the State Soil and Water Conservation Commission up until the date of the NOI submittal. The applicable checklists are available on the EPD website, [www.gaepd.org](http://www.gaepd.org).

**2. Site description.** Each site-specific Plan shall provide a description of pollutant sources and other information as indicated:

a. A description of the nature of the construction activity;

b. A detailed description and chart or timeline of the intended sequence of major activities which disturb soils for major portions of the site (i.e., initial sediment storage requirements and perimeter BMPs, clearing and grubbing activities, excavation activities, grading activities, utility activities, immediate and final stabilization activities). This requirement of this permit is not applicable to tertiary permittees with Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre.;

c. Estimates of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;

d. An estimate of the runoff coefficient or peak discharge flow of the site prior to the construction activities and after construction activities are completed and existing data describing the soil or the quality of any discharge from the site. This requirement of this permit is not applicable to tertiary permittees with Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre.;

e. A site-specific map indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, an outline of areas which are not to be disturbed, the location of major structural and nonstructural controls identified in the Plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water;

f. Identify the receiving water(s) and areal extent of wetland acreage at the site; and

g. For Plans prepared by a primary permittee for a common development, a list of the names and addresses of all secondary permittees must be included in the Plan and be amended as appropriate. These amendments are not subject to the design professional certification requirements specified in Part IV.C.

**3. Controls.** Each Plan shall include a description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase Plan. The Plan will include appropriate staging and access requirements for construction equipment. Plans submitted after the effective date of this permit shall limit the amount of disturbed area to no greater than 50 acres for each individual permittee (i.e., primary, secondary or tertiary permittees) at any one time, and to no more than 50 contiguous acres total at any one time, without prior written authorization from the appropriate EPD District Office according to the schedule in Appendix A of this permit. EPD will approve or disapprove such requests within 35 days of receipt. Failure of EPD to act within 35 days shall be considered an approval of such requests. If the EPD District Office approves a request to disturb 50 acres or more at any one time, the Plan must include at least four (4) of the best management practices listed in Part III.C.2. of this permit.

The Plan will clearly describe for each major activity identified in Part IV.D.1.b. appropriate control measures and the timing during the construction process that the measures will be implemented. The primary permittee and tertiary permittee(s) are encouraged to utilize the document, Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites, EPA 833-R-060-04, May 2007 ([www.epa.gov/npdes/pubs/sw\\_swppp\\_guide.pdf](http://www.epa.gov/npdes/pubs/sw_swppp_guide.pdf)), when preparing the Plan. The description and implementation of controls shall address the following minimum components:

a. Erosion and sediment controls.

(1). Stabilization measures. A description of interim and permanent stabilization measures, including site-specific scheduling of the implementation of the measures. Site plans should ensure that existing vegetation is preserved and that disturbed portions of the site are stabilized. Stabilization measures may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the Plan. Except as provided in paragraphs IV.D.3.(a).(1).(a) and (b) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

(a). Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable.

(b). Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (i.e., the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of site by the 14th day after construction activity temporarily ceased.

(2). Structural practices. A description of structural practices to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

(3). Sediment basins. For common drainage locations a temporary (or permanent) sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 1800 cubic feet (67 cubic yards) of storage area per acre drained does not apply to flows from off-site areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. For drainage locations where a temporary sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent controls is not attainable, sediment traps, silt fences, wood mulch berms or equivalent sediment controls are required for all side slope and down slope boundaries of the construction area. When the sediment fills to a volume at most of 22 cubic yards per acre for each acre of drainage area, the sediment shall be removed to restore the original design volume. This sediment must be properly disposed. Sediment basins may not be feasible at some construction projects. Careful consideration must be used to determine when a sediment basin cannot be used and/or 67 cubic yards of storage per acre drained is not attainable and a written justification explaining the decision(s) must be included in the Plan. Perennial and intermittent waters of the State shall not be used for temporary or permanent sediment detention.

When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. Outlet structures that withdraw water from the surface are temporary BMPs and must be removed prior to submitting a Notice of Termination. For construction activities where the NOI was submitted prior to January 1, 2014, this requirement of the permit is not applicable.

(4). Alternative BMPs. The use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the State Soil and Water Conservation Commission).

(5). High performance BMPs. The use of infiltration trenches, seep berms, sand filters, dry wells, polyacrylamide, etc. for minimizing point source discharges except for large rainfall events is encouraged.

b. Storm water management. A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Operators are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site.

(1). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on-site; and sequential systems (which combine several practices). The Plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed pre-development levels.

(2). Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel for the purpose of providing a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are

maintained and protected [e.g. no significant changes in the hydrological regime of the receiving water(s)].

(3). Installation and use of Green Infrastructure approaches and practices that mimic natural processes and direct storm water where it can be infiltrated, evapotranspired or re-used with significant utilization of soils and vegetation rather than traditional hardscape collection, conveyance and storage structures are encouraged to the maximum extent practicable. Green Infrastructure practices or approaches include permeable or porous paving, vegetated swales instead of curbs and gutters, green roofs, tree boxes, rain gardens, constructed wetlands, infiltration planters, vegetated median strips, protection and enhancement of riparian buffers and floodplains, and the overall reduction in site disturbance and impervious area. Design information on Green Infrastructure practices and other ways to manage storm water can be found in the Georgia Stormwater Management Manual ([www.georgiastormwater.com](http://www.georgiastormwater.com)) and the Georgia Green Growth Guidelines ([www.coastalgadnr.org/cm/green/guide](http://www.coastalgadnr.org/cm/green/guide)). Additional information on Green Infrastructure can be found at [water.epa.gov/infrastructure/greeninfrastructure/index.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm).

c. Other controls.

(1). Waste disposal. Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The Plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

(2). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or common development.

(3). Nothing in this permit relieves a permittee from any obligation to comply with all applicable State and local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(4). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(5). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at [www.epa.gov/npdes/pubs/concretewashout.pdf](http://www.epa.gov/npdes/pubs/concretewashout.pdf).

(6) All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

#### 4. Inspections.

a. Primary Permittee.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4).. These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The primary permittee must amend the Plan in accordance with Part IV.D.4.b.(5). when a secondary permittee notifies the primary permittee of any Plan deficiencies.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5).. of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

b. Secondary Permittee.

(1). Each day when any type of construction activity has taken place at a secondary permittee's site, certified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(2). Certified personnel (provided by the utility companies and utility contractors if they are secondary permittees) shall inspect the following each day any type of construction activity has taken place at the construction site: (a) areas of the construction site disturbed by the utility companies and utility contractors that have not undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region; (b) areas used by the utility companies and utility contractors for storage of materials that are exposed to precipitation that have not undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the utility companies and utility contractors' construction activities shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors when they are secondary permittees performing service line installations or when conducting repairs on existing line installations.

(3). Certified personnel (provided by the secondary permittee) shall inspect the following at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the secondary permittee's construction site ; (b) areas used by the secondary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the secondary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.b.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(4). Certified personnel (provided by the secondary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of their sites that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(5). Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24-hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48-hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within this seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48-hours of notification by the primary permittee.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.b.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and /or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations or when conducting repairs on existing line installations.

c. Tertiary Permittee.

(1). Each day when any type of construction activity has taken place at a tertiary permittee's site, certified personnel provided by the tertiary permittee shall inspect: (a) all areas used by the tertiary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the tertiary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the tertiary permittee) shall inspect at least the following once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the tertiary permittee's construction site ; (b) areas used by the tertiary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the tertiary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a

seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.c.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(4). Certified personnel (provided by the tertiary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of their sites that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following the inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.c.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

**5. Maintenance.** The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

**6. Sampling Requirements.** This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This section is applicable to primary permittees with a total planned disturbance equal to or greater than one (1) acre and tertiary permittees with a total planned disturbance equal to or greater than five (5) acres. This section is not applicable to secondary permittees. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the common development; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm

water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). The analytical method used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. *Sample Type.* All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. *Sampling Points.*

(1). For construction activities the primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

- (a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
- (b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.
- (c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
- (d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
- (e). The sampling container should be held so that the opening faces upstream.
- (f). The samples should be kept free from floating debris.
- (g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region).
- (h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

*d. Sampling Frequency.*

- (1). The primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall within forty-five (45) minutes or as soon as possible. .
- (2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
- (3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that allows for sampling during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the primary permittee, in accordance with Part IV.D.4.a.(6),, or the tertiary permittee, in accordance with Part IV.D.4.c.(6),, must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

\*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

**7. Non-storm water discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

#### **E. Reporting.**

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of the certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The applicable permittees shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

#### **F. Retention of Records.**

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Each secondary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by this permit;
- c. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit; and
- d. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit.

3. Each tertiary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.c. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and.
- g. Daily rainfall information collected in accordance with Part IV.D.4.c.(2). of this permit.

4. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

## **Part V. STANDARD PERMIT CONDITIONS**

### **A. Duty to Comply.**

1. Each permittee must comply with all applicable conditions of this permit. Any permit noncompliance constitutes a violation of the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or for denial of a permit renewal application. Failure of a primary permittee, secondary permittee or tertiary permittee to comply with any applicable term or condition of this permit shall not relieve any other primary, secondary or tertiary permittee from compliance with their applicable terms and conditions of this permit.

2. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown in Part II.C. within fourteen (14) days of his/her discovery of the violation.

3. Penalties for violations of permit conditions. The Federal Clean Water Act and the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) provide that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine or by imprisonment, or by both. The Federal Clean Water Act and the Georgia Water Quality Control Act also provide procedures for imposing civil penalties which may be levied for violations of the Acts, any permit condition or limitation established pursuant to the Acts, or negligently or intentionally failing or refusing to comply with any final or emergency order of the Director.

**B. Continuation of the Expired General Permit.** This permit expires on the date shown on the cover page of this permit. However, an expired general permit continues in force and effect until a new general permit is issued, final and effective.

**C. Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**D. Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**E. Duty to Provide Information.** The permittee shall furnish to the Director; a State or local agency approving soil erosion and sedimentation control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the local government operating the municipal separate storm sewer system, any information which is requested to determine compliance with this permit. In the case of information submitted to the EPD such information shall be considered public information and available under the Georgia Open Records Act.

**F. Other Information.** When the permittee becomes aware that he/she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report required to be submitted to the EPD, the permittee shall promptly submit such facts or information.

**G. Signatory Requirements.** All Notices of Intent, Notice of Terminations, inspection reports, sampling reports, or other reports requested by the EPD shall be signed as follows:

1. All Notices of Intent and Notices of Termination shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this permit, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures; or

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public facility: by either a principal executive officer or ranking elected official; and

d. Changes to authorization. If an authorization under Part II.B. is no longer accurate, a change of information NOI satisfying the requirements of Part II.B. must be submitted to the EPD prior to or together with any inspection reports, sampling reports, or other reports requested by the EPD to be signed by a person described above or by a duly authorized representative of that person.

2. All inspection reports, sampling reports, or other reports requested by the EPD shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person(s) described above and submitted to the EPD;

b. The authorization specifies either an individual or a position having responsibility for specified operation(s) of the regulated facility or activity, such as the position of manager, Operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may be either a named individual or any individual occupying a named position); and

c. *Certification.* Reports delineated in Part V.G.2. shall be signed by the permittee or duly authorized representative and shall make the following certification:

"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**H. Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Georgia Hazardous Waste Management Act, O.C.G.A. § 12-8-60, et seq. or under Chapter 14 of Title 12 of the Official Code of Georgia Annotated; nor is the Operator relieved from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act or Section 106 of Comprehensive Environmental Response Compensation And Liability Act.

**I. Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

**J. Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

**K. Other Applicable Environmental Regulations and Laws.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act. Nothing in this permit, unless explicitly stated, exempts the permittee from compliance with other applicable local, state and federal ordinances, rules, regulations, and laws. Furthermore, it is not a defense to compliance with this permit that a local government authority has approved the permittee's Erosion, Sedimentation and Pollution Control Plan or failed to take enforcement action against the permittee for violations of the Erosion, Sedimentation and Pollution Control Plan, or other provisions of this permit.

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

**L. Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the required plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by an permittee only when necessary to achieve compliance with the conditions of the permit.

**M. Inspection and Entry.** The permittee shall allow the Director or an authorized representative of EPA, EPD or to designated officials of the local government reviewing soil erosion and sediment control plans, grading plans, or storm water management plans; or, in the case of a construction site which discharges through a municipal separate storm sewer system, an authorized representative of the municipal operator of the separate storm sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit; and

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

**N. Permit Actions.** This permit may be revoked and reissued, or terminated for cause including but not limited to changes in the law or regulations. The filing of a request by the permittee for termination of the permit, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## **Part VI. TERMINATION OF COVERAGE**

**A. Notice of Termination Eligibility.** Notice of Termination signed in accordance with Part V.G.1. of this permit must be submitted:

1. For construction activities, by the primary permittee where the entire common development has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. For construction activities where the primary permittee has elected to submit NOIs for separate phases of the common development, the phase or phases of the common development on the NOT shall correspond to the phase or phases on the NOI.

In addition, if the primary permittee decides not to proceed with all permitted construction activities, the primary permittee may submit a Notice of Termination, if and only if, (a) all construction activities have ceased for a minimum of 90 days; (b) final stabilization has been implemented by the primary permittee and by all secondary permittee(s); (c) all secondary permittees have submitted a NOT signed in accordance with Part V.G.1. of this permit (excluding utility companies and/or utility contractors working under a Blanket NOI);(d) the site is in compliance with this permit; and (e) all temporary BMPs have been removed .

2. After the filing of the Notice of Termination, the primary permittee shall notify by written correspondence with **return receipt certified mail** (or similar service) to the subsequent legal title holder of each remaining lot(s) that these lot Owners or Operators will become tertiary permittees for purposes of this permit and these tertiary permittees will be responsible for off-site best management practices, as applicable.

(i). If a person currently owns or purchases one or more of the remaining undeveloped lots within a common development for the purpose of engaging in construction activity in which a Notice of Termination has been filed by the primary permittee and all secondary permittees (excluding utility companies and/or utility contractors working under a Blanket NOI) or where a primary permittee no longer exists, then the person must file a Notice of Intent as a tertiary permittee (as set forth in Part II.B.3.). Except as provided in Part IV.A.2., a tertiary permittee must prepare and submit a new Erosion, Sedimentation and Pollution Control Plan in accordance with Part IV. If the total land disturbance within the tertiary permittee's construction site is less than five (5) acres and the total land disturbance within the individual lot(s) is less than one (1) acre, a tertiary permittee may submit a single Notice of Intent and an Erosion, Sedimentation and Pollution Control Plan(s) for a typical individual lot(s).EPD may notify the tertiary permittee at any time that the Plan does not meet one or more of the minimum requirements of the permit. The tertiary permittee must correct and implement any required changes to the Plan in accordance with Part IV.B.3. of this permit within the time frame established by EPD.

(ii). Tertiary permittees must submit a Notice of Termination when their sites within a common development have undergone final stabilization, all storm water discharges from their construction activities have ceased, their construction sites are in compliance with this permit and all temporary BMPs have been removed. If the total land disturbance within the tertiary permittee's construction site is less than five (5) acres, tertiary permittees may also submit a Notice of Termination for each individual lot

resulting in land disturbance of less than one (1) acre with a Plan for a typical individual lot within the tertiary permittee's construction site.

3. By the Owner or Operator or both when the Owner or Operator of the site changes. Where storm water discharges will continue after the identity of the Owner or Operator or both changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator or both of the permitted site as to the requirements of this permit;
4. By secondary permittees when their sites within a common development have undergone final stabilization, all storm water discharges from their construction activities have ceased, their sites are in compliance with this permit and all temporary BMPs have been removed; and
5. By secondary permittees working under a Blanket NOI postmarked no later than January 15 of the subsequent year in which the NOI was filed. The NOT shall contain the information contained in Part II. B. 2. a., b., c. and h.

**B. Notice of Termination Contents:**

1. The NPDES permit number for the storm water discharge associated with construction activity identified by the Notice of Termination (i.e., GAR100003 – Common Development);
2. The project construction site name, GPS location (decimal degrees) of construction exit of the project or if applicable, of each typical lot in accordance with Part VI.A.6., construction site location, common development name (if applicable), lot number(s) (if applicable), city (if applicable) and county of the construction site for which the notification is submitted. This information must correspond to the similar information as provided on the NOI. Where an address for the construction site is not available, the construction site location information must be sufficient to accurately locate the construction site;
3. The owner's legal name, address, telephone number and email address and the operator's legal name, address, telephone and email address;
4. An indication as to whether the permittee is a primary, secondary or tertiary permittee;
5. When the NOT is submitted by a secondary permittee, the primary permittee's legal name, address, telephone number and email address;
6. A listing of the legal name, address, telephone number and email address of all secondary permittees at the site for which this notification is submitted, if applicable;
7. The name of the receiving water(s), and when the discharge is through a municipal separate storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4;
8. When sampling is required by this permit, copies of all sampling reports and/or a written justification why sampling was not conducted. Copies of all sampling reports may be submitted as a Portable Document Format (PDF) file on CD-ROM or other storage device;
9. Copy of the permittee's most current Notice of Intent;
10. Any other information specified on the NOT in effect at the time of submittal; and
11. The following certification signed in accordance with Part V.G.1. (signatory requirements):

"I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control. If I am a primary permittee filing this Notice of Termination under Part VI.A.2. of this permit, I will notify by written correspondence to the subsequent legal title holder of any remaining lots that these lot Owners or Operators will become tertiary permittees for purposes of this permit and I will provide these tertiary permittees with the primary permittee's Erosion, Sedimentation and Pollution Control Plan and Notice of Termination. I understand that by submitting this Notice of Termination, that I am no longer authorized to discharge storm water associated with construction activity by the general permit, and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

**C. Notice of Termination Submittal.** All Notices of Termination by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate EPD District Office according to the schedule in Appendix A of this permit and to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. If an electronic submittal service is provided by the EPD then the Notice of Termination may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

## APPENDIX A

### EPD DISTRICT OFFICES

All required correspondence, including but not limited to the Notice of Intent, Notice of Terminations, certifications, Erosion, Sedimentation and Pollution Control Plans and any other reports, shall be sent to the following District Offices of EPD.

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354  
(404) 675-6240

## APPENDIX B

### Nephelometric Turbidity Unit (NTU) TABLES

#### Trout Streams

		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
	25.01-50	25	25	25	50	75	100	300	500
	50.01-100	20	25	25	35	59	75	150	300
	100.01 +	20	20	25	25	25	50	60	100

#### Waters Supporting Warm Water Fisheries

		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01 +	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications are implemented:

- (1) public drinking water system reservoirs,
- (2) stream crossings for water and sewer lines, provided that the stream crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer,
- (3) buffer crossing for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer,
- (4) stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized); and (d) native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the stream crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification.

(iii). Except as provided in Part IV(iv) below, no construction activities shall be conducted within a 25 foot buffer along coastal marshlands, as measured horizontally from the coastal marshland-upland interface, as determined in accordance with Part 4 of Article 4 of Chapter 5 of Title 12, the "Coastal Marshlands Protection Act of 1970, and the rules and regulations promulgated thereunder, except where the director determines to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where otherwise allowed by the director pursuant to Code Section 12-2-8, or where an alteration within the buffer area has been authorized pursuant to Code Section 12-5-286, or for maintenance of any currently serviceable structure, landscaping, or hardscaping, including bridges, roads, parking lots, golf courses, golf cart paths, retaining walls, bulkheads, and patios, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or where a drainage structure or roadway drainage structure is constructed or maintained, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented, or on the landward side of any currently serviceable shoreline stabilization structure, or for the maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation, provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented. The buffer shall not apply to the following activities provided that adequate erosion control measures are incorporated into the project plans and specifications and such measures are fully implemented:

- (1) Public drinking water system reservoirs.
- (2) Crossings for utility lines that cause a width of disturbance of not more than 50 feet within the buffer
- (3) Any land-disturbing activity conducted pursuant to and in compliance with a valid and effective land-disturbing permit issued subsequent to April 22, 2014, and prior to December 31, 2015.
- (4) Any lot for which the preliminary plat has been approved prior to December 31, 2015 if roadways, bridges, or water and sewer lines have been extended to such lot prior to the effective date of this Act and if the requirement to maintain a 25 foot buffer would consume at least 18 percent of the high ground of the platted lot otherwise available for development.

- (5) Buffer crossings for fences, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the Jurisdictional Line and cause a width of disturbance of not more than 50 feet within the buffer, and vegetation is re-established in any bare or disturbed areas within the buffer.
- (6) Crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of crossings and disturbances to the buffer, (c) only trees and tree debris are removed from within the buffer resulting in only minor soil erosion (i.e., disturbance to underlying vegetation is minimized), and (d) vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a description of the crossings with details of the buffer disturbance including area and length of buffer disturbance, estimated length of time of buffer disturbance, and justification;

(iii.iv.) Except as provided above, for buffers required pursuant to Part IV.(i), (ii) and (iii), no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land-disturbing activities on the construction site are completed. During coverage under this permit, a buffer cannot be thinned or trimmed of vegetation and a protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed or marsh.

The Erosion, Sedimentation and Pollution Control Plan shall identify all potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site. In addition, the Plan shall describe and the applicable permittee shall ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction activity at the site and to assure compliance with the terms and conditions of this permit. The applicable permittee must implement and maintain the provisions of the Plan required under this part as a condition of this permit. Except as provided in Part IV.A.2., a single Erosion, Sedimentation and Pollution Control Plan must be prepared by the primary permittee for the common development construction project.

#### **A. Deadlines for Plan Preparation and Compliance.**

1. Except as provided in Part IV.A.2. and Part IV.A.6., the Erosion, Sedimentation and Pollution Control Plan shall be completed prior to submitting the NOI and prior to conducting any construction activity by any permittee.
2. For construction activities that began on or before the effective date of this permit and were subject to the regulations under the previous permit, the permittee(s) shall continue to operate under the existing Plan.
3. For construction activities that begin after the effective date of this permit, the primary permittee shall be required to prepare the Plan for that phase of the common development that corresponds with the NOI being submitted and the primary permittee(s) shall implement the Plan on or before the day construction activities begin.
4. Additional Plan Submittals.

(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8687  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(912) 430-4144

**H. For facilities/construction sites required to submit Plans required under Part IV.A.4.a. of this Permit:**

Information shall be submitted to: Watershed Protection Branch  
Environmental Protection Division  
~~4220 International Parkway, Suite 101~~  
~~Atlanta, Georgia 30354~~  
~~(404) 675-6240~~  
2 Martin Luther King Jr. Drive  
Suite 1152 East  
Atlanta, Georgia 30334  
404-463-1511



Insert Yellow Sheet

Back of Yellow Sheet

For Official Use Only

# NOTICE OF INTENT

**VERSION June 2015**

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

For Coverage Under the 2013 Re-Issuance of the NPDES General Permits  
To Discharge Storm Water Associated With Construction Activity

**THESE PERMITS EXPIRE JULY 31, 2018**

## PRIMARY PERMITTEE

\*\*\*\*Instructions for this form are included on Page 6.\*\*\*\*

### NOTICE OF INTENT (Check Only One):

- Initial Notification - (New Facility/Construction Site)
- Change of Information - (Existing Facility/Construction Site)

### COVERAGE DESIRED (Select Only One):

- GAR 100001 Stand Alone
- GAR 100002 Infrastructure
- GAR 100003 Common Development

### I. SITE/OWNER/OPERATOR INFORMATION

Project Construction Site Name: \_\_\_\_\_

For **GAR100001 Stand Alone** or **GAR 100003 Common Development** Project, enter GPS Location of Construction Exit in dec deg:  
To convert to Decimal Degrees, please see <http://www.fcc.gov/encyclopedia/degrees-minutes-seconds-tofrom-decimal-degrees>

Latitude (Dec Deg)  Longitude (Dec Deg)

For **GAR100002 Infrastructure** Project, enter GPS Locations of the Beginning and End of the Infrastructure Project in dec deg:

Latitude  Longitude

Latitude  Longitude

Construction Site Location (e.g., street address): \_\_\_\_\_

City (applicable if the site is located within the jurisdictional boundaries of the municipality): \_\_\_\_\_

County or Counties: \_\_\_\_\_

Common Development Name (applicable only to General NPDES Permit No. GAR100003): \_\_\_\_\_

Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative(s) (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Operator's Name (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address : \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

**II. CONSTRUCTION SITE ACTIVITY INFORMATION AND FEE CALCULATIONS**

Start Date:

Completion Date:

Is this construction activity regulated by a certified Local Issuing Authority?  Yes  No

If Yes, Name of Local Issuing Authority: \_\_\_\_\_

**NOTE: Instructions for fee calculations have been provided on Pages 6 - 7**

					<b>TOTAL FEE</b>
<input type="radio"/> Acres Disturbed (to the nearest 1/10th acre) regulated by a certified Local Issuing Authority	Acres <input type="text"/>	X	<input type="text" value="40"/>	Fee	<input type="text" value="\$0.00"/>
<input type="radio"/> Acres Disturbed (to the nearest 1/10th acre) in an area with no certified Local Issuing Authority	Acres <input type="text"/>	X	<input type="text" value="80"/>	Fee	<input type="text" value="\$0.00"/>
<input type="radio"/> Acres Disturbed (to the nearest 1/10th acre) By an entity or activity exempt from a certified Local Issuing Authority's regulation pursuant to statute	Acres <input type="text"/>	X	<input type="text" value="80"/>	Fee	<input type="text" value="\$0.00"/>

**PLEASE MAKE CHECKS PAYABLE TO: Department of Natural Resources - EPD**

**Do not mail cash.**

**Do not include fees payable to the Local Issuing Authority.**

NAME ON CHECK/MONEY ORDER

CHECK/MONEY ORDER NUMBER

CHECK/MONEY ORDER AMOUNT



- F. Does the facility/construction site discharge storm water into an Impaired Stream Segment where a Total Maximum Daily Load (TMDL) Implementation Plan for "sediment" was finalized at least six (6) months prior to the submittal of the Initial NOI? (Check Only One): \*\* See <http://epd.georgia.gov/total-maximum-daily-loadings> for the list of waters with TMDL Implementation Plans.

Yes Name of Impaired Stream Segment(s):

No

**IV. ATTACHMENTS (Applicable Only to Initial Notifications for New Facilities/Construction Sites)**

Indicate if the items listed below are attached to this Notice of Intent:

- Location map identifying the receiving water(s), outfall(s) or combination thereof to be monitored. Include a written description and location map identifying the Impaired Stream Segment(s) when applicable.
- Erosion, Sedimentation and Pollution Control Plan (if the project is greater than 50 acres regardless of the existence of a certified Local Issuing Authority in the jurisdiction *OR* if the project is in a jurisdiction where there is no certified Local Issuing Authority regulating that project regardless of acreage). May be submitted via DVD/CD.
- Written authorization from the appropriate EPD District Office if the Plan disturbs more than 50 acres at any one time for each individual permittee (i.e., primary, secondary or tertiary permittees), or more than 50 contiguous acres total at any one time (applicable only to General NPDES Permits No. GAR100001 and No. GAR100003).

**ATTACHMENTS (Applicable Only to Change of Information Notifications for Existing Facilities/Construction Sites)**

Indicate if the items listed below are attached to this Notice of Intent:

- Copy of NOI previously submitted for coverage under the 2013 re-issuance of the NPDES General Permits to Discharge Storm Water Associated With Construction Activity.
- Copy of the amended Plan as per Part IV.A.4.c. of the Permit for projects where the construction activity as indicated on the Notice of Intent has changed.

**V. CERTIFICATIONS (Owner or Operator or Both to Sign as Applicable)**

A. By signing below, I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all applicable requirements of this permit.

**AND**

B. By signing below, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Owner's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

and/or

Operator's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

**IMPORTANT!!!**

This NOI is not Valid if:

1. Form is incomplete or fields are missing information.
2. Signatures by owner and/or operator are missing in Section V Certifications.
3. Signed copies are not received at EPD District Address. See Pages 9-10 for addresses.
4. Check/money order not received at EPD P.O. Box address listed below.

**DO NOT MAIL CASH.**

**HOW TO SUBMIT THIS NOTIFICATION**

1. Complete this form electronically and then print and sign. You cannot save data typed into this form and you cannot submit this form electronically. Please retain a copy of the completed and signed form for your records.
2. Mail the signed copy with the applicable attachments to the appropriate EPD District Office (mailing addresses listed on Pages 9 - 10). Do not send checks/money orders to the EPD District Offices.
3. If fees are required, print and sign a second copy of this completed form. **DO NOT MAIL CASH.** Make check/money order payable to: **Department of Natural Resources - EPD.**
4. Mail the check/money order with the second copy of the completed and signed form to:

**EPD - Construction Land Disturbance Fees  
P.O. Box 932858  
Atlanta, GA 31193-2858**

# INSTRUCTIONS

## NOTICE OF INTENT - PRIMARY PERMITTEE

### For Coverage Under the 2013 Re-Issuance of the NPDES General Permits To Discharge Storm Water Associated With Construction Activity

**THESE PERMITS EXPIRE JULY 31, 2018**

Please print or type the Notice of Intent (NOI) form. Any NOI that contains illegible or incomplete information will not be accepted, will be returned and the construction site will not be granted Permit coverage. All information requested on the NOI must be submitted in order for the NOI to be valid. Any information requested on the NOI that is not applicable to the primary permittee or to the construction site must be marked "N/A." Please do not leave any sections blank in the NOI.

**Who must file a Notice of Intent Form** - The Owner and/or Operator of a facility/construction site that has a discharge of storm water where construction activities occur must apply for a National Pollutant Discharge Elimination System (NPDES) Permit. The Georgia Environmental Protection Division (EPD) re-issued the General NPDES Permits for Storm Water Discharges Associated with Construction Activity on September 24, 2013. The Permits are available for review at the EPD District Offices and on the EPD website at [epd.georgia.gov](http://epd.georgia.gov). It is highly recommended that the permittees read and understand the terms and conditions of the Permits prior to submitting a NOI. Please contact the appropriate EPD District Office listed on the following pages for assistance in completing the NOI.

**Where to file a Notice of Intent Form** - The NOI and the attachments, as applicable, must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first five pages of this document with the applicable attachments.

#### **Section I - Site/Owner/Operator Information**

The construction site name and location information (i.e., GPS location of construction exit, street address, city, county) must be sufficient to accurately locate the construction site. If the construction site does not have a street address, please provide sufficient information to accurately locate the construction site. If additional space is needed, attach the location information to the NOI.

A duly authorized representative may be either a named individual or any individual occupying a named position that the primary permittee has authorized to sign certification statements, inspection reports, sampling reports or other reports requested by EPD.

The facility/construction site contact is the person who the primary permittee has assigned the responsibility for the daily on-site operational control.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the primary permittee or to the construction site must be mark "N/A."

#### **Section II – Construction Site Activity Information and Fee Calculations**

The Primary Permittee is solely responsible for the payment of fees for all **planned** land disturbing activities, including all land disturbing activities within a common development planned by the Secondary Permittees and/or Tertiary Permittees. Estimated disturbed acreage is the total number of acres, to nearest tenth (1/10<sup>th</sup>) acre. Only the Primary Permittee is responsible for paying the NPDES General Permit fees.

If the Primary Permittee has already paid the applicable fees, the Primary Permittee does not pay any additional NPDES General Permit fees, unless the scope of work covered under the NPDES General Permit so paid for is increased.

For land disturbing activities submitting an *Initial* Notice of Intent *in an area with no certified Local Issuing Authority* **OR** *for land disturbing activities not regulated by a certified Local Issuing Authority*, the Primary Permittee shall pay a fee of **\$80 per acres disturbed** to EPD (to the nearest tenth (1/10<sup>th</sup>) acre).

Land disturbing activities not regulated by a certified Local Issuing Authority include, but are not limited to:

- Construction of public water system reservoirs.
- Land disturbing activities conducted by any electric membership corporation or municipal electrical system or any public under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in O.C.G.A. §36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission or distribution power, except when the project is located within a common development as described in the NPDES General Permits.
- Construction of agricultural buildings (e.g., barns, poultry houses).
- Construction or maintenance projects undertaken or financed by the Department of Transportation, the Georgia Highway Authority, the State Road and Tollway Authority, or any county or municipality, except when the Department of Transportation, the Georgia Highway Authority or the State Road and Tollway Authority is a Secondary Permittee within a common development.
- Projects carried out under the technical supervision of the Natural Resources Conservation Service of the United States Department of Agricultural.

For land disturbing activities submitting an *Initial* Notice of Intent *regulated by a certified Local Issuing Authority*, the Primary Permittee shall pay a fee of **\$40 per acres disturbed** to EPD **AND** a fee of **\$40 per acres disturbed** to the Local Issuing Authority (to the nearest tenth (1/10<sup>th</sup>) acre). Payments to the Local Issuing Authority should be made in the manner specified by the Local Issuing Authority and should not be submitted to EPD. The NPDES General Permit fees are **in addition** to any local land disturbing activity fees that are required by the Local Issuing Authority.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the primary permittee or to the construction site must be mark "N/A."

Make checks/money orders payable to: **Department of Natural Resources - EPD**

### **Section III - Receiving Water Information**

"Trout Streams" are waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [epd.georgia.gov](http://epd.georgia.gov). "Waters Supporting Warm Water Fisheries" are all waters of the State that sustain, or have the potential to sustain, aquatic life but exclude "Trout Streams."

If the facility/construction site discharges storm water directly or indirectly to the receiving water(s), and not through a municipal separate storm sewer system (MS4), enter the name of the receiving water(s) and indicate whether the water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

If the facility/construction site discharges storm water to a municipal separate storm sewer system (MS4), enter the name of the owner/operator of the MS4 (e.g., city name or county name) and the name of the receiving water(s) at the point of discharge from the MS4. A MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that is owned and/or operated by a city or county which is designed or used for collecting or conveying storm water. It may be necessary to contact the city or county that owns and/or operates the MS4 to determine the name of the receiving water(s). Indicate whether the receiving water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

Any permittee who intends to obtain coverage under the Permits for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of the Permits if the Impaired Stream Segment has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's 2012 and subsequent "305(b)/303(d) List Documents (Final)" can be viewed on the EPD website at <https://epd.georgia.gov/georgia-305b303d-list-documents>. Attach a written description and location map identifying the Impaired Stream Segment(s).

If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee's submittal of the Initial NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee's discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to the permittee's discharge(s) to the Impaired Stream Segment, then the permittee must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website at [epd.georgia.gov](http://epd.georgia.gov).

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the primary permittee or to the construction site must be mark "N/A."

**Section V – Certifications**

The owner and/or operator (or both) must sign the Notice of Intent certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Intent forms. A Notice of Intent form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Intent form. Federal and State regulations require that the Notice of Intent form be signed as follows:

For a corporation, by a responsible corporate officer;

For a partnership or sole proprietorship, by a general partner or the proprietor; and

For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## GEORGIA EPD DISTRICT OFFICES

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144

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For Official Use Only

# NOTICE OF INTENT

## VERSION 2013

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

For Coverage Under the 2013 Re-Issuance of the  
NPDES General Permits No. GAR100003 To Discharge Storm Water  
Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

### SECONDARY PERMITTEE GAR100003 - Common Development

**NOTICE OF INTENT (Check Only One):**

- Initial Notification (New Facility/Construction Site)
- Re-Issuance Notification (Existing Facility/Construction Site and Postmarked Before December 24, 2013)
- Change of Information (Existing Facility/Construction Site, if the NOI was submitted after September 24, 2013)

**I. SITE/SECONDARY PERMITTEE INFORMATION**

Project Construction Site Name: \_\_\_\_\_

Construction Site Location (*information must be sufficient to accurately locate the construction site*):

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

Subdivision Name (*if applicable*): \_\_\_\_\_

Lot Number(s) (*if applicable*): \_\_\_\_\_

Common Development Name: \_\_\_\_\_

Construction Site Location (*e.g., street address*): \_\_\_\_\_

City: \_\_\_\_\_  
(*applicable if the site is located within the jurisdictional boundaries of the municipality*)

County: \_\_\_\_\_

Secondary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative(s) (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Primary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**II. CONSTRUCTION SITE ACTIVITY INFORMATION**

Start Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Completion Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Estimated Disturbed Acreage (acres, to the nearest tenth (1/10<sup>th</sup>) acre): \_\_\_\_\_

Will the Secondary Permittee disturb more than 50 acres at any one time ? (Check Only One)

- YES - \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Date of EPD Written Authorization (month/date/year)
- NO
- N/A – if the Initial NOI was submitted prior to August 1, 2008 for the General NPDES Permit No. GAR100003 for Common Development construction activities.

Construction Activity Type:

- Commercial     Industrial     Municipal/Institutional     Mixed Use     Water Quality/Aquatic Habitat Restoration
- Linear     Utility     Residential     Agricultural Buildings     Other \_\_\_\_\_

**III. RECEIVING WATER INFORMATION**

A. Name of Initial Receiving Water(s): \_\_\_\_\_

- Trout Stream     Water Supporting Warm Water Fisheries

B. Name of MS4 Owner/Operator (if applicable): \_\_\_\_\_

Name of Receiving Water(s): \_\_\_\_\_

- Trout Stream     Water Supporting Warm Water Fisheries

- C. Does the facility/construction site discharge storm water into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" listed for the criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) ? (Check Only One):
- YES, Name of Impaired Stream Segment(s): \_\_\_\_\_
  - NO
  - N/A – if the Initial NOI was submitted prior to October 31, 2008 for the General NPDES Permit No. GAR100003 for Common Development construction activities.
  - N/A – if the secondary permittees are utility companies and utility contractors and implementing the applicable best management practices detailed in the primary permittee's Plan.
- D. Does the facility/construction site discharge storm water into an Impaired Stream Segment where a Total Maximum Daily Load (TMDL) Implementation Plan for "sediment" was finalized at least six (6) months prior to the submittal of the Initial NOI ? (Check Only One):
- YES, Name of Impaired Stream Segment(s): \_\_\_\_\_
  - NO
  - N/A – if the Initial NOI was submitted prior to October 31, 2008 for the General NPDES Permit No. GAR100003 for Common Development construction activities.
  - N/A – if the secondary permittees are utility companies and utility contractors, and implementing the applicable best management practices detailed in the primary permittee's Plan.

**IV. ATTACHMENTS (Applicable Only to Initial Notifications for New Facilities/Construction Sites)**

Indicate if the items listed below are attached to this Notice of Intent:

- \_\_\_\_\_ Copies of the Primary Permittee's most current Notice of Intent.
- \_\_\_\_\_ Written description and location map identifying the Impaired Stream Segment(s) when applicable.
- \_\_\_\_\_ Written authorization from the appropriate EPD District Office if the Secondary Permittee plans to disturb more than 50 acres at any one time.

**ATTACHMENTS (Applicable Only to Re-Issuance Notifications for Existing Facilities/Construction Sites)**

Indicate if the item listed below is attached to this Notice of Intent:

- \_\_\_\_\_ Copy of NOI previously submitted for coverage under the 2008 re-issuance of the NPDES General Permits to Discharge Storm Water Associated With Construction Activity.

**ATTACHMENTS (Applicable Only to Change of Information Notifications for Existing Facilities/Construction Sites)**

Indicate if the items listed below are attached to this Notice of Intent:

- \_\_\_\_\_ Copy of NOI previously submitted for coverage under the 2013 re-issuance of the NPDES General Permits to Discharge Storm Water Associated With Construction Activity.
- \_\_\_\_\_ Copy of the amended Plan as per Part IV.A.4.c. of the Permit for projects where the construction activity as indicated on the Notice of Intent has changed.

V. Does this project require another type of permit from EPD?

YES – if yes, indicate what type of permit \_\_\_\_\_

NO

**VI. CERTIFICATIONS (Secondary Permittee)**

\_\_\_\_\_ I certify that I will adhere to the Primary Permittee's Erosion, Sedimentation and Pollution Control Plan (Plan) or the portion of the Plan applicable to my construction activities and comply with all applicable requirements of this permit.

\_\_\_\_\_ I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Owner's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

Operator's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

# INSTRUCTIONS

## NOTICE OF INTENT - SECONDARY PERMITTEE

### For Coverage Under the 2013 Re-Issuance of the NPDES General Permits No. GAR100003 To Discharge Storm Water Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

Please print or type the Notice of Intent (NOI) form. Any NOI that contains illegible or incomplete information will not be accepted, will be returned and the construction site will not be granted Permit coverage. All information requested on the NOI must be submitted in order for the NOI to be valid. Any information requested on the NOI that is not applicable to the secondary permittee or to the construction site must be marked "N/A." Please do not leave any sections blank in the NOI.

**Who must file a Notice of Intent Form** - The owner of a facility/construction site within a common development that has a discharge of storm water where construction activities occur must apply for a National Pollutant Discharge Elimination System (NPDES) Permit. The Georgia Environmental Protection Division (EPD) re-issued the General NPDES Permits for Storm Water Discharges Associated with Construction Activity for Common Developments on September 24, 2013. The NPDES General Permit No. GAR100003 is available for review at the EPD District Offices and on the EPD website, [www.gaepd.org](http://www.gaepd.org). It is highly recommended that the permittees read and understand the terms and conditions of this Permit prior to submitting a NOI. Please contact the appropriate EPD District Office as listed on the following pages for assistance in completing the NOI.

**Where to file a Notice of Intent Form** - The NOI and the attachments, as applicable, must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first four pages of this document with the applicable attachments.

#### **Section I - Site/Secondary Permittee Information**

The construction site name and location information (i.e., GPS location of construction exit, subdivision name, lot number(s), common development name, street address, city, county) must be sufficient to accurately locate the construction site. If the construction site does not have a street address, please provide sufficient information to accurately locate the construction site. If additional space is needed, attach the location information to the NOI.

A duly authorized representative may be either a named individual or any individual occupying a named position that the secondary permittee has authorized to sign certification statements, inspection reports, sampling reports or other reports requested by EPD.

The facility/construction site contact is the person who the secondary permittee has assigned the responsibility for the daily on-site operational control.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the secondary permittee or to the construction site must be mark "N/A."

#### **Section II – Construction Site Activity Information**

For construction activities that began prior to the effective date of the Permits, the start date (*month/date/year*) must be the actual start date of construction activities.

Estimated disturbed acreage is the total number of acres, *to the nearest tenth (1/10<sup>th</sup>) acre*, that will be disturbed by the secondary permittee.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the secondary permittee or to the construction site must be mark "N/A."

### **Section III - Receiving Water Information**

“Trout Streams” are waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org). “Waters Supporting Warm Water Fisheries” are all waters of the State that sustain, or have the potential to sustain, aquatic life but exclude “Trout Streams.”

If the facility/construction site discharges storm water directly or indirectly to the receiving water(s), and not through a municipal separate storm sewer system (MS4), enter the name of the receiving water(s) and indicate whether the water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

If the facility/construction site discharges storm water to a municipal separate storm sewer system (MS4), enter the name of the owner/operator of the MS4 (e.g., city name or county name) and the name of the receiving water(s) at the point of discharge from the MS4. A MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that is owned and/or operated by a city or county which is designed or used for collecting or conveying storm water. It may be necessary to contact the city or county that owns and/or operates the MS4 to determine the name of the receiving water(s). Indicate whether the receiving water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

Any permittee who intends to obtain coverage under the Permits for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as “not supporting” its designated use(s), as shown on Georgia’s most current “305(b)/303(d) List Documents (Final)” at the time of NOI submittal, must satisfy the requirements of Part III.C. of the Permits if the Impaired Stream Segment has been listed for criteria violated, “Bio F” (Impaired Fish Community) and/or “Bio M” (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either “NP” (nonpoint source) or “UR” (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia’s 2008 and subsequent 305(b)/303(d) List Documents (Final) can be viewed on the EPD website, [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html). Attach a written description and location map identifying the Impaired Stream Segment(s).

If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee’s submittal of the NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee’s discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to an permittee’s discharge(s) to the Impaired Stream Segment, then the permittee must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website, [www.gaepd.org](http://www.gaepd.org).

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the secondary permittee or to the construction site must be mark “N/A.”

### **Section V – Certifications**

The secondary permittee must sign the Notice of Intent and initial the certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Intent forms. A Notice of Intent form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Intent form. Federal and State regulations require that the Notice of Intent form be signed as follows:

- For a corporation, by a responsible corporate officer;
- For a partnership or sole proprietorship, by a general partner or the proprietor; and
- For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## GEORGIA EPD DISTRICT OFFICES

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144

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For Official Use Only

# NOTICE OF INTENT

**VERSION 2013**

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

For Coverage Under the 2013 Re-Issuance of the  
NPDES General Permits No. GAR100003 To Discharge Storm Water  
Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

## TERTIARY PERMITTEE GAR100003 – Common Development

### NOTICE OF INTENT (Check Only One):

- Initial Notification (New Facility/Construction Site)
- Re-Issuance Notification (Existing Facility/Construction Site and Postmarked Before December 24, 2013)
- Change of Information (Existing Facility/Construction Site, if the NOI was submitted after September 24, 2013)

### I. SITE/OWNER/OPERATOR INFORMATION

Project Construction Site Name: \_\_\_\_\_

GPS Location of Construction Exit (*decimal degrees*):

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Subdivision Name (*if applicable*): \_\_\_\_\_

Lot Number(s) (*if applicable*): \_\_\_\_\_

Common Development Name: \_\_\_\_\_

Construction Site Location (*e.g., street address*): \_\_\_\_\_

City: \_\_\_\_\_  
(*applicable if the site is located within the jurisdictional boundaries of the municipality*)

County: \_\_\_\_\_

Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Operator's Name (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

**II. CONSTRUCTION SITE ACTIVITY INFORMATION**

Start Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Completion Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Estimated Disturbed Acreage (acres, to the nearest tenth (1/10<sup>th</sup>) acre): \_\_\_\_\_

Does the Erosion, Sedimentation and Pollution Control Plan (Plan) provide for disturbing more than 50 acres at any one time by the Tertiary Permittee ? (Check Only One):

- YES - \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Date of EPD Written Authorization (month/date/year)
- NO
- N/A – if the Initial NOI was submitted prior to August 1, 2008 the General NPDES Permit No. GAR100003 for the Tertiary Permittee's construction activities.

Construction Activity Type:

- Commercial     Industrial     Municipal/Institutional     Mixed Use     Water Quality/Aquatic Habitat Restoration
- Linear     Utility     Residential     Agricultural Buildings     Other \_\_\_\_\_

Primary Permittee's Name (if available): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**III. RECEIVING WATER INFORMATION**

A. Name of Initial Receiving Water(s): \_\_\_\_\_

- Trout Stream     Water Supporting Warm Water Fisheries

B. Name of (MS4) Owner/Operator (if applicable): \_\_\_\_\_

Name of Receiving Water(s): \_\_\_\_\_

- Trout Stream     Water Supporting Warm Water Fisheries



**ATTACHMENTS (Applicable Only to Re-Issuance Notifications for Existing Facilities/Construction Sites)**

Indicate if the item listed below is attached to this Notice of Intent:

\_\_\_\_\_ Copy of NOI previously submitted for coverage under the 2008 re-issuance of the NPDES General Permits to Discharge Storm Water Associated With Construction Activity.

**ATTACHMENTS (Applicable Only to Change of Information Notifications for Existing Facilities/Construction Sites)**

Indicate if the items listed below are attached to this Notice of Intent:

\_\_\_\_\_ Copy of NOI previously submitted for coverage under the 2013 re-issuance of the NPDES General Permits to Discharge Storm Water Associated With Construction Activity.

\_\_\_\_\_ Copy of the amended Plan as per Part IV.A.4.c. of the Permit for projects where the construction activity as indicated on the Notice of Intent has changed.

**V.** Does this project require another type of permit from EPD?

YES – if yes, indicate what type of permit \_\_\_\_\_

NO

**VI. CERTIFICATIONS (Owner or Operator or Both to Initial as Applicable)**

\_\_\_\_\_ I certify that to the best of my knowledge and belief, that the Erosion, Sedimentation and Pollution Control Plan (Plan) was prepared by a design professional, as defined by this permit, that has completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission in accordance with the provisions of O.C.G.A. 12-7-19 and that I will adhere to the Plan and comply with all applicable requirements of this permit.

\_\_\_\_\_ I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Owner's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

Operator's Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

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

# INSTRUCTIONS

## NOTICE OF INTENT - TERTIARY PERMITTEE

### For Coverage Under the 2013 Re-Issuance of the NPDES General Permits No. GAR100003 To Discharge Storm Water Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

Please print or type the Notice of Intent (NOI) form. Any NOI that contains illegible or incomplete information will not be accepted, will be returned and the construction site will not be granted Permit coverage. All information requested on the NOI must be submitted in order for the NOI to be valid. Any information requested on the NOI that is not applicable to the tertiary permittee or to the construction site must be marked "N/A." Please do not leave any sections blank in the NOI.

**Who must file a Notice of Intent Form** - The Owner and/or Operator of a facility/construction site that has a discharge of storm water where construction activities occur must apply for a National Pollutant Discharge Elimination System (NPDES) Permit. The Georgia Environmental Protection Division (EPD) re-issued the General NPDES Permits for Storm Water Discharges Associated with Construction Activity for Common Developments on September 24, 2013. The NPDES General Permit No. GAR100003 is available for review at the EPD District Offices and on the EPD website, [www.gaepd.org](http://www.gaepd.org).

After filing a Notice of Termination, the primary permittee of a common development is required to notify by written correspondence with return receipt certified mail (or similar service) to the subsequent legal title holder of each remaining lot(s) that these lot Owners and/or Operators will become tertiary permittees for purposes of this permit and these tertiary permittees will be responsible for off-site best management practices, as applicable.

It is highly recommended that the permittees read and understand the terms and conditions of this Permit prior to submitting a NOI. Please contact the appropriate EPD District Office as listed on the following pages for assistance in completing the NOI.

**Where to file a Notice of Intent Form** - The NOI and the attachments, as applicable, must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first four pages of this document with the applicable attachments.

#### **Section I - Site/Owner/Operator Information**

The construction site name and location information (i.e., GPS location of construction exit, subdivision name, lot number(s), street address, city, county) must be sufficient to accurately locate the construction site. If the construction site does not have a street address, please provide sufficient information to accurately locate the construction site. If additional space is needed, attach the location information to the NOI.

A duly authorized representative may be either a named individual or any individual occupying a named position that the tertiary permittee has authorized to sign certification statements, inspection reports, sampling reports or other reports requested by EPD.

The facility/construction site contact is the person who the tertiary permittee has assigned the responsibility for the daily on-site operational control.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the tertiary permittee or to the construction site must be mark "N/A."

#### **Section II – Construction Site Activity Information**

For construction activities that began prior to the effective date of the Permits, the start date (*month/date/year*) must be the actual start date of construction activities.

Estimated disturbed acreage is the total number of acres, *to the nearest tenth (1/10<sup>th</sup>) acre*, that will be disturbed by the tertiary permittee.

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the tertiary permittee or to the construction site must be mark "N/A."

### **Section III - Receiving Water Information**

"Trout Streams" are waters of the State classified as either primary trout waters or secondary trout waters, as designated in the Rules and Regulations for Water Quality Control, Chapter 391-3-6 at [www.gaepd.org](http://www.gaepd.org). "Waters Supporting Warm Water Fisheries" are all waters of the State that sustain, or have the potential to sustain, aquatic life but exclude "Trout Streams."

If the facility/construction site discharges storm water directly or indirectly to the receiving water(s), and not through a municipal separate storm sewer system (MS4), enter the name of the receiving water(s) and indicate whether the water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

If the facility/construction site discharges storm water to a municipal separate storm sewer system (MS4), enter the name of the owner/operator of the MS4 (e.g., city name or county name) and the name of the receiving water(s) at the point of discharge from the MS4. A MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that is owned and/or operated by a city or county which is designed or used for collecting or conveying storm water. It may be necessary to contact the city or county that owns and/or operates the MS4 to determine the name of the receiving water(s). Indicate whether the receiving water(s) is a trout stream or a warm water fisheries stream. Attach a written description and location map identifying the receiving water(s).

Any permittee who intends to obtain coverage under the Permits for storm water discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Final)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of the Permits if the Impaired Stream Segment has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's 2008 and subsequent 305(b)/303(d) List Documents (Final)" can be viewed on the EPD website, [www.gaepd.org/Documents/305b.html](http://www.gaepd.org/Documents/305b.html). Attach a written description and location map identifying the Impaired Stream Segment(s).

If a Total Maximum Daily Load (TMDL) Implementation Plan for sediment has been finalized at least six (6) months prior to the permittee's submittal of the NOI, the Erosion, Sedimentation and Pollution Control Plan (Plan) must address any site-specific conditions or requirements included in the TMDL Implementation Plan that are applicable to the permittee's discharge(s) to the Impaired Stream Segment within the timeframe specified in the TMDL Implementation Plan. If the TMDL Implementation Plan establishes a specific numeric wasteload allocation that applies to an permittee's discharge(s) to the Impaired Stream Segment, then the permittee must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. A list of TMDL Implementation Plans can be viewed on the EPD website, [www.gaepd.org](http://www.gaepd.org).

Please do not leave any blanks in this section. Any information requested on the NOI that is not applicable to the tertiary permittee or to the construction site must be mark "N/A."

### **Section V – Certifications**

The owner and/or operator must sign the Notice of Intent and initial the certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Intent forms. A Notice of Intent form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Intent form. Federal and State regulations require that the Notice of Intent form be signed as follows:

- For a corporation, by a responsible corporate officer;
- For a partnership or sole proprietorship, by a general partner or the proprietor; and
- For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## GEORGIA EPD DISTRICT OFFICES

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144

Insert Yellow Sheet

Back of Yellow Sheet



For Official Use Only

# NOTICE OF INTENT

**VERSION 2013**

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

For Coverage Under the 2013 Re-Issuance of the  
NPDES General Permits No. GAR100003 To Discharge Storm Water  
Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

## BLANKET SECONDARY PERMITTEE GAR100003 - Common Development

### NOTICE OF INTENT (Check Only One):

- Annual Notification (New Facility/Construction Site)
- Re-Issuance Notification (Existing Facility/Construction Site and Postmarked Before December 24, 2013)
- Change of Information (Existing Facility/Construction Site)

### I. BLANKET SECONDARY PERMITTEE INFORMATION

Blanket Secondary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative(s) (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Utility Sub-Contractor's Name (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**II. CONSTRUCTION SITE ACTIVITY INFORMATION**

Construction Activity Type:

- Commercial     Industrial     Municipal/ Institutional     Mixed Use     Water Quality/Aquatic Habitat Restoration
- Linear     Utility     Residential     Agricultural Buildings     Other \_\_\_\_\_

**III. CERTIFICATIONS (Blanket Secondary Permittee)**

\_\_\_\_\_ I certify that I will adhere to the Primary Permittee's Erosion, Sedimentation and Pollution Control Plan (Plan) or the portion of the Plan applicable to my construction activities and comply with all applicable requirements of this permit.

\_\_\_\_\_ I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Blanket Secondary Permittee's Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

# INSTRUCTIONS

## NOTICE OF INTENT - BLANKET SECONDARY PERMITTEE

### For Coverage Under the 2013 Re-Issuance of the NPDES General Permits No. GAR100003 To Discharge Storm Water Associated With Construction Activity for Common Developments

**THIS PERMIT EXPIRES JULY 31, 2018**

Please print or type the Notice of Intent (NOI) form. Any NOI that contains illegible or incomplete information will not be accepted, will be returned and the construction site will not be granted Permit coverage. All information requested on the NOI must be submitted in order for the NOI to be valid. Any information requested on the NOI that is not applicable to the secondary permittee or to the construction site must be marked "N/A." Please do not leave any sections blank in the NOI.

**Who must file a Notice of Intent Form** – A utility company may submit an annual Blanket Notice of Intent covering all construction activities statewide within common developments on or before January 15 of the year in which coverage is desired, except for calendar year 2013 in which case the Blanket NOI shall be submitted ninety (90) days of the permit effective date. A copy of the Blanket NOI or equivalent written contact information must be provided to the primary permittee not more than seven (7) days prior to the commencement of construction activities by the blanket secondary permittee at each facility/construction site.

The Georgia Environmental Protection Division (EPD) re-issued the General NPDES Permits for Storm Water Discharges Associated with Construction Activity for Common Developments on September 24, 2013. The NPDES General Permit No. GAR100003 is available for review at the EPD District Offices and on the EPD website, [www.gaepd.org](http://www.gaepd.org). It is highly recommended that the permittees read and understand the terms and conditions of this Permit prior to submitting a NOI. Please contact the appropriate EPD District Office as listed on the following pages for assistance in completing the NOI.

**Where to file a Notice of Intent Form** - The NOI must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first two pages of this document with the applicable attachments.

#### **Section I – Blanket Secondary Permittee Information**

A duly authorized representative may be either a named individual or any individual occupying a named position that the secondary permittee has authorized to sign certification statements, inspection reports, sampling reports or other reports requested by EPD.

The facility/construction site contact is the person who the blanket secondary permittee has assigned the responsibility for the daily on-site operational control.

#### **Section III – Certifications**

The blanket secondary permittee must sign the Notice of Intent and initial the certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Intent forms. A Notice of Intent form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Intent form. Federal and State regulations require that the Notice of Intent form be signed as follows:

- For a corporation, by a responsible corporate officer;
- For a partnership or sole proprietorship, by a general partner or the proprietor; and
- For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## GEORGIA EPD DISTRICT OFFICES

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144



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For Official Use Only

# NOTICE OF TERMINATION

**VERSION 2013**

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

To Cease Coverage Under the NPDES General Permits  
To Discharge Storm Water Associated With Construction Activity

**THESE PERMITS EXPIRE JULY 31, 2018**

I.

**PERMIT TYPE (Check Only One):**

- GAR100001 - Stand Alone
- GAR100002 – Infrastructure
- GAR100003 - Common Development

**PERMITTEE TYPE (Check Only One and Complete):**

- Primary Permittee**

Number of Secondary Permittees (applicable only to General NPDES Permit No. GAR100003): \_\_\_\_\_

- Secondary Permittee** (applicable only to General NPDES Permit No. GAR100003)

Primary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

- Tertiary Permittee** (applicable only to General NPDES Permit No. GAR100003)

Primary Permittee's Name (if available): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**II. SITE / OWNER / OPERATOR INFORMATION**

Project Construction Site Name: \_\_\_\_\_

GPS Location of Construction Exit of Stand Alone or Common Development Project (*decimal degrees*):

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

GPS Locations of Beginning and End of Infrastructure Project or Phase of Infrastructure Project (*decimal degrees*):

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Construction Site Location (*e.g., street address*): \_\_\_\_\_  
\_\_\_\_\_

City (*applicable if the site is located within the jurisdictional boundaries of the municipality*): \_\_\_\_\_

County or Counties: \_\_\_\_\_

Common Development Name (*applicable only to General NPDES Permit No. GAR100003*): \_\_\_\_\_

Subdivision Name (if applicable): \_\_\_\_\_

Lot Number(s) (if applicable): \_\_\_\_\_

Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative(s) (*optional*): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Operator's Name (*optional*): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address : \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

**III. SITE ACTIVITY INFORMATION**

Start Date (*month/date/year*): \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Completion Date (*month/date/year*): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Disturbed Acreage of Project or Phase of Infrastructure Project (*acres, to the nearest tenth (1/10<sup>th</sup>) acre*): \_\_\_\_\_

Construction Activity Type:

- Commercial     Industrial     Municipal/Institutional     Mixed Use     Water Quality/Aquatic Habitat Restoration
- Linear     Utility     Residential     Agricultural Buildings     Other \_\_\_\_\_

Name of Initial Receiving Water(s): \_\_\_\_\_

Trout Stream                       Water Supporting Warm Water Fisheries

Name of MS4 Owner/Operator (if applicable): \_\_\_\_\_

Name of Receiving Water(s): \_\_\_\_\_

Trout Stream                       Water Supporting Warm Water Fisheries

**IV. NOTICE OF TERMINATION ELIGIBILITY (Check Only One and Complete):**

**Construction Activities Ceased and Final Stabilization Completed**

\_\_\_\_\_ Attached to this Notice of Termination – if Primary Permittee, listing of the legal name, email address, address and telephone number for each Secondary Permittee at this site for which this NOT is submitted (applicable only to NPDES General Permit No. GAR100003).

\_\_\_\_\_ Attached to this Notice of Termination – if Primary Permittee, listing of the legal name, email address, address and telephone number for the legal title holders for each remaining undeveloped lot(s) at this site for which this NOT is submitted (applicable only to NPDES General Permit No. GAR100003).

**No Longer Owner and/or Operator of Facility/Construction Site**

New Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

New Operator's Name (if available): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**Primary Permittee of a Common Development Construction Project No Longer Exists (applicable only to Secondary Permittees under NPDES General Permit No. GAR100003)**

Primary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**Coverage under the 2013 NPDES General Permit No. GAR100002 is not required for the Primary Permittee of an existing Infrastructure Construction Project.**

V. Did this project require another type of permit from EPD?

- YES – if yes, indicate what type of permit \_\_\_\_\_
- NO

VI. ATTACHMENTS

Indicate if the items listed below are attached to this Notice of Termination:

- \_\_\_\_\_ Copy of most recent NOI previously submitted for coverage under the 2013 NPDES General Permits to Discharge Storm Water Associated With Construction Activity.
- \_\_\_\_\_ Copies of sampling reports and/or written justifications why sampling was not conducted (when sampling is required by the permit). Copies of all sampling reports may be submitted as a PDF file on CD-ROM or other storage device.
- \_\_\_\_\_ Listing of the legal name, email address, address and telephone number for each Secondary Permittee at this site for which this NOT is submitted (*applicable only to Primary Permittees under General NPDES Permit No. GAR100003*).
- \_\_\_\_\_ Listing of the legal name, email address, address and telephone number for the legal title holders for each remaining undeveloped lot(s) at this site for which this NOT is submitted (*applicable only to Primary Permittees under General NPDES Permit No. GAR100003*).
- \_\_\_\_\_ GPS locations (decimal degrees) of the beginning and end of each phase of an infrastructure construction project, and if applicable, a map identifying significant landmarks (*applicable only to General NPDES Permit No. GAR100002*).
- \_\_\_\_\_ Documentation that the existing infrastructure construction project will not result in contiguous land disturbances equal or greater than one (1) acre on or before, and continuing after the effective date of the permit (*applicable only to General NPDES Permit No. GAR100002*).
- \_\_\_\_\_ Documentation that the existing infrastructure construction project consists solely of routine maintenance for the original purpose of the facility performed to maintain the original line and grade and/or the hydraulic capacity (*applicable only to General NPDES Permit No. GAR100002*).

**VII. CERTIFICATIONS (Owner or Operator or Both to Initial as Applicable)**

\_\_\_\_\_ **(Applicable only to NPDES General Permit No. GAR100001)** "I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control; and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

\_\_\_\_\_ **(Applicable only to NPDES General Permit No. GAR100002)** "I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control or (c) coverage under the permit for an existing infrastructure construction project is not required under Part I.C.1. of NPDES General Permit No. GAR100002; and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

\_\_\_\_\_ **(Applicable only to NPDES General Permit No. GAR100003)** "I certify under penalty of law that either: (a) all storm water discharges associated with construction activity authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed or (b) I am no longer an Owner or Operator at the construction site and a new Owner or Operator has assumed operational control of the permitted construction site where I previously had ownership or operational control or (c) If I am secondary permittee, the primary permittee of the common development no longer exists. If I am a primary permittee filing this Notice of Termination under Part VI.A.2. of NPDES General Permit NO, GAR100003, I will notify by written correspondence to the subsequent legal title holder of any remaining lots that these lot Owners or Operators will become tertiary permittees for purposes of NPDES General Permit NO, GAR100003 and I will provide these tertiary permittees with the primary permittee's Erosion, Sedimentation and Pollution Control Plan and Notice of Termination. I understand that by submitting this Notice of Termination, that I am no longer authorized to discharge storm water associated with construction activity by the general permit, and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit."

\_\_\_\_\_ I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Owner's Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

Operator's Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

# INSTRUCTIONS

## NOTICE OF TERMINATION

### NPDES General Permits for Storm Water Discharges Associated With Construction Activity

***These Permits Expire July 31, 2018***

Please print or type the Notice of Termination (NOT) form. Any NOT that contains illegible or incomplete information will not be accepted and will be returned. All information requested on the NOT must be submitted in order for the NOT to be valid. Any information requested on the NOT that is not applicable to the owner and/or operator or the construction site must be marked "N/A." Please do not leave any sections blank in the NOT.

***Who must file a Notice of Termination (NOT) Form*** – The permittee of the facility/construction site must submit a Notice of Termination when (1) the facility/construction site has undergone final stabilization and all storm water discharges from construction activities that are authorized by the NPDES General Permits have ceased, (2) when the Owner and/or Operator of the site changes, (3) Primary Permittee of a Common Development construction project no longer exist, or (4) coverage under the 2013 NPDES General Permit No. GAR100002 is not required.

Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered in landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

***Where to file NOT Forms*** - The NOT and attachments, as applicable, must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first five pages of this document with the applicable attachments.

#### ***Section I - Permit and Permittee Type***

Indicate the NPDES General Permit number (i.e., No. GAR100001, No. GAR100002, or No. GAR100003) and permittee (i.e., primary, secondary or tertiary permittee) for which this NOT is being submitted.

#### ***Section II - Site / Permittee Information***

The construction site name and location information (i.e., GPS location of construction exit, street address, city, county) must be sufficient to accurately locate the construction site. If the construction site does not have a street address, please provide sufficient information to accurately locate the construction site. If additional space is needed, attach the location information to the NOT.

A duly authorized representative may be either a named individual or any individual occupying a named position that the permittee has authorized to sign all reports, certification statements, or other information requested by EPD.

The facility/construction site contact is the person who the permittee has assigned the responsibility for the daily on-site operational control.

Please do not leave any blanks in this section. Any information requested on the NOT that is not applicable to the permittee or to the construction site must be marked "N/A."

### **Section III - Site Activity Information**

Mark the appropriate boxes to indicate the types of construction activities that were conducted at the facility/construction site.

Please do not leave any blanks in this section. Any information requested on the NOT that is not applicable to the permittee or to the construction site must be marked "N/A."

### **Section IV – Notice of Termination Eligibility**

Indicate by marking the appropriate box why this NOT has been submitted: (1) the facility/construction site has undergone final stabilization and all storm water discharges from construction activities that are authorized by the NPDES General Permits have ceased, (2) when the Owner and/or Operator of the site changes, (3) Primary Permittee of a Common Development construction project no longer exist, or (4) coverage under the 2013 NPDES General Permit No. GAR100002 is not required.

For Stand Alone construction projects, the primary permittee may submit a NOT where the entire stand alone development has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. For construction activities where the primary permittee has elected to submit NOIs for separate phases of the stand alone development, the phase or phases of the stand alone development on the NOT shall correspond to the phase or phases on the NOI.

For Infrastructure construction projects, the primary permittee may submit a NOT where the entire project has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. The permittee may also submit a Notice of Termination for each phase of the infrastructure project, not to exceed four (4) phases, that have undergone final stabilization and all storm water discharges associated with construction activity for that phase authorized by this permit have ceased. Except for the final phase, the disturbed acreage for each phase must be equal to or greater than 25% of the total estimated disturbed acreage for the infrastructure project. For the final phase, the disturbed acreage for the final phase must be equal to or greater than 10% of the total estimated disturbed acreage for the infrastructure project. The Notice of Termination for each phase of the infrastructure project must include the GPS locations (decimal degrees) of the beginning and end of each phase and if applicable, a map identifying significant landmarks.

In addition, the primary permittee of an existing Infrastructure construction project may submit a NOT when the existing infrastructure construction project will not result in "contiguous" land disturbances equal or greater than one (1) acre on or before, and continuing after the effective date of the permit or when the existing infrastructure construction project consists solely of "routine maintenance" for the original purpose of the facility performed to maintain the original line and grade and/or the hydraulic capacity. As defined in the 2013 NPDES General Permit No. GAR100002 (Part IC.1.a.), "contiguous" means areas of land disturbances that are in actual contact to create a connected, uninterrupted area of land disturbance. However, for purposes of this permit, contiguous areas of land disturbances include those areas of land disturbances solely separated by drilling and boring activities, waters of the State and adjacent State-mandated buffers, roadways and/or railways. In addition, contiguous areas of land disturbances include all areas of land disturbances at a sole roadway intersection and/or junction. In order to be eligible for the "routine maintenance" exemption the project must comply with the following conditions: (1) no mass grading shall occur on the project, (2) the project shall be stabilized by the end of each day with temporary or permanent stabilization measures, (3) the project shall have a duration of less than 120 calendar days, and (4) final stabilization must be implemented at the end of the maintenance project;

For Common Development construction projects, the primary permittee may submit a NOT where the entire common development has undergone final stabilization, all storm water discharges associated with construction activity that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMPs have been removed. For construction activities where the primary permittee has elected to submit NOIs for separate phases of the common development, the phase or phases of the common development on the NOT shall correspond to the phase or phases on the NOI.

In addition, if the primary permittee of a Common Development decides not to proceed with all permitted construction activities, the primary permittee may submit a Notice of Termination, if and only if, (a) all construction activities have ceased for a minimum of 90 days; (b) final stabilization has been implemented by the primary permittee and by all secondary permittee(s); (c) all secondary permittees have submitted a NOT signed in accordance with Part V.G.1. of this permit (excluding utility companies and/or utility contractors working under a Blanket NOI); (d) the site is in compliance with this permit; and (e) all temporary BMPs have been removed .

Secondary permittees should submit a Notice of Termination when the primary permittee of the Common Development no longer exist.

Tertiary permittees may submit a Notice of Termination when their sites within a Common Development have undergone final stabilization, all storm water discharges from their construction activities have ceased, their construction sites are in compliance with this permit and all temporary BMPs have been removed. If the total land disturbance within the tertiary permittee's construction site is less than five (5) acres, tertiary permittees may also submit a NOT for each individual lot resulting in land disturbance of less than one (1) acre with a Plan for a typical individual lot within the tertiary permittee's construction site.

Permittees may submit a NOT when the Owner or Operator of the site changes. Where storm water discharges will continue after the identity of the Owner or Operator changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator of the permitted site as to the requirements of this permit.

### **Section VII - Certifications**

The owner and/or operator must sign the Notice of Termination and initial the certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Termination forms. A Notice of Termination form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Termination form. Federal and State regulations require that the Notice of Termination form be signed as follows:

- For a corporation, by a responsible corporate officer;
- For a partnership or sole proprietorship, by a general partner or the proprietor; and
- For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## **GEORGIA EPD DISTRICT OFFICES**

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144



Insert Yellow Sheet

Back of Yellow Sheet



For Official Use Only

# NOTICE OF TERMINATION

**VERSION 2013**

State of Georgia  
Department of Natural Resources  
Environmental Protection Division

To Cease Coverage Under the NPDES General Permit No. GAR100003  
To Discharge Storm Water Associated  
With Construction Activity for Common Developments

**THESE PERMITS EXPIRE JULY 31, 2018**

## BLANKET SECONDARY PERMITEE GAR100003 – COMMON DEVELOPMENT

### I. SITE / PERMITEE INFORMATION

Blanket Secondary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Duly Authorized Representative(s) (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Utility Sub-Contractor Name (optional): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address : \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility/Construction Site Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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

\_\_\_\_\_ **Attach to this Notice of Termination – Listing of the facilities/construction sites with coverage under the annual Notice of Intent submitted by the Blanket Secondary Permittee including the following information for each facility/construction site:**

Project Construction Site Name: \_\_\_\_\_

Construction Site Location (e.g., street address): \_\_\_\_\_

\_\_\_\_\_

Common Development Name: \_\_\_\_\_

Subdivision Name (if applicable): \_\_\_\_\_

Lot Number(s) (if applicable): \_\_\_\_\_

City (applicable if the site is located within the jurisdictional boundaries of the municipality): \_\_\_\_\_

County or Counties: \_\_\_\_\_

Primary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**II. SITE ACTIVITY INFORMATION**

Start Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Completion Date (month/date/year): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Disturbed Acreage (acres, to the nearest tenth (1/10<sup>th</sup>) acre): \_\_\_\_\_

Construction Activity Type:

- Commercial     Industrial     Municipal/Institutional     Mixed Use     Water Quality/Aquatic Habitat Restoration
- Linear     Utility     Residential     Agricultural Buildings     Other \_\_\_\_\_

**NOTICE OF TERMINATION ELIGIBILITY (Check Only One and Complete):**

**Construction Activities Ceased and Final Stabilization Completed**

**No Longer Owner and/or Operator of Facility/Construction Site**

New Blanket Secondary Permittee's Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

New Utility Sub-Contractor's Name (if available): \_\_\_\_\_ Phone: \_\_\_\_\_

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

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**Annual Notice of Termination (postmarked no later than January 15<sup>th</sup> of the subsequent year in which the NOI for the Blanket Secondary was filed)**

III. Did this project require another type of permit from EPD?

- YES – if yes, indicate what type of permit \_\_\_\_\_
- NO

IV. **CERTIFICATIONS (Blanket Secondary Permittee)**

\_\_\_\_\_ I certify under penalty of law that either: (a) all storm water discharges associated with construction activities from the portions of the common developments where I was blanket secondary have ceased or have been eliminated; (b) I am no longer a blanket secondary permittee at the construction sites and a new blanket secondary permittee has assumed operational control for those portions of the construction sites where I previously had operational control; and/or (c) I am a blanket secondary permittee filing an annual Notice of Termination under Part VI.A.5. of General NPDES Permit No. GAR100003. I understand that by submitting this Notice of Termination, that I am no longer authorized to discharge storm water associated with construction activity by the general permit, and that discharging pollutants in storm water associated with construction activity to waters of Georgia is unlawful under the Georgia Water Quality Control Act and the Clean Water Act where the discharge is not authorized by a NPDES permit

\_\_\_\_\_ I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Blanket Secondary Permittee's Name: \_\_\_\_\_ Title: \_\_\_\_\_  
(please print or type)

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

# INSTRUCTIONS

## NOTICE OF TERMINATION – BLANKET SECONDARY PERMITTEE

### NPDES General Permits for Storm Water Discharges Associated With Construction Activity for Common Developments

***These Permits Expire July 31, 2018***

Please print or type the Notice of Termination (NOT) form. Any NOT that contains illegible or incomplete information will not be accepted and will be returned. All information requested on the NOT must be submitted in order for the NOT to be a valid. Any information requested on the NOT that is not applicable to the blanket secondary permittee or the construction site(s) must be marked "N/A." Please do not leave any sections blank in the NOT.

***Who must file a Notice of Termination (NOT) Form*** - When all construction sites have undergone final stabilization and all storm water discharges associated with construction activities that are authorized by the secondary blanket permittee's Notice of Intent (NOI) have ceased or when the blanket secondary permittee of the site(s) changes, the blanket secondary permittee of the construction sites must submit a Notice of Termination.

A blanket secondary permittee must submit an annual Notice of Termination no later than January 15 of the subsequent year in which the annual NOI was filed by a blanket secondary permittee. A utility company may submit an annual Blanket Notice of Intent covering all construction activities statewide within common developments on or of before January 15 of the year in which coverage is desired.

Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered in landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

***Where to file NOT Forms*** - The NOT and attachments, as applicable, must be submitted to the appropriate EPD District Office as listed on the following pages. Please submit only the first three pages of this document with the applicable attachments.

#### ***Section I - Site / Permittee Information***

A duly authorized representative may be either a named individual or any individual occupying a named position that the permittee has authorized to sign all reports, certification statements, or other information requested by EPD.

The facility/construction site contact is the person who the permittee has assigned the responsibility for the daily on-site operational control.

The construction site name and location information must be sufficient to accurately locate the construction sites with coverage under the annual Notice of Intent submitted by the blanket secondary permittees. If the construction site does not have a street address, please provide sufficient information to accurately locate the construction site.

Please do not leave any blanks in this section. Any information requested on the NOT that is not applicable to the blanket secondary permittee or to the construction sites must be marked "N/A."

**Section II - Site Activity Information**

Indicate by marking the appropriate box why this NOT has been submitted: (1) all construction sites have undergone final stabilization and all storm water discharges associated with construction activities that are authorized by the secondary blanket permittee's Notice of Intent have ceased, (2) the blanket secondary permittee of the site(s) has changed, or (3) the blanket secondary permittee has submitted an annual Notice of Termination under Part VI.A.5. of General NPDES Permit No. GAR100003.

Mark the appropriate boxes to indicate the types of construction activities that were conducted at the facility/construction site.

Please do not leave any blanks in this section. Any information requested on the NOT that is not applicable to the blanket secondary permittee or to the construction sites must be marked "N/A."

**Section IV - Certifications**

The blanket secondary permittee must sign the Notice of Termination and initial the certification statements on the lines provided. Federal and State statutes provide specific requirements as to who is authorized to sign the Notice of Termination forms. A Notice of Termination form signed by an unauthorized person will not be valid. Please be aware that Federal and State statutes provide for severe penalties for submitting false information on this Notice of Termination form. Federal and State regulations require that the Notice of Termination form be signed as follows:

- For a corporation, by a responsible corporate officer;
- For a partnership or sole proprietorship, by a general partner or the proprietor; and
- For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

**GEORGIA EPD DISTRICT OFFICES**

All required correspondence, including but not limited to Notices of Intent, Notices of Termination, Erosion, Sedimentation and Pollution Control Plans, sampling reports and any other reports shall be sent to the following EPD District Offices:

**A. For facilities/construction sites located in the following counties:** Bibb, Bleckley, Chattahoochee, Crawford, Dooly, Harris, Houston, Jones, Lamar, Macon, Marion, Meriwether, Monroe, Muscogee, Peach, Pike, Pulaski, Schley, Talbot, Taylor, Troup, Twiggs, Upson

Information shall be submitted to: West Central District Office  
Georgia Environmental Protection Division  
2640 Shurling Drive  
Macon, GA 31211-3576  
(478) 751-6612

**B. For facilities/construction sites located in the following counties:** Burke, Columbia, Emanuel, Glascock, Jefferson, Jenkins, Johnson, Laurens, McDuffie, Montgomery, Richmond, Screven, Treutlen, Warren, Washington, Wheeler, Wilkinson

Information shall be submitted to: East Central District Office  
Georgia Environmental Protection Division  
3525 Walton Way Extension  
Augusta, GA 30909-1821  
(706) 667-4343

**C. For facilities/construction sites located in the following counties:** Baldwin, Banks, Barrow, Butts, Clarke, Elbert, Franklin, Greene, Hall, Hancock, Hart, Jackson, Jasper, Lincoln, Madison, Morgan, Newton, Oconee, Oglethorpe, Putnam, Stephens, Taliaferro, Walton, Wilkes

Information shall be submitted to: Northeast District Office  
Georgia Environmental Protection Division  
745 Gaines School Road  
Athens, GA 30605-3129  
(706) 369-6376

**D. For facilities/construction sites located in the following counties:** Carroll, Clayton, Coweta, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Heard, Henry, Rockdale, Spalding

Information shall be submitted to: Mountain District - Atlanta Satellite  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 114  
Atlanta, GA 30354-3906  
(404) 362-2671

**E. For facilities/construction sites located in the following counties:** Bartow, Catoosa, Chattooga, Cherokee, Cobb, Dade, Dawson, Fannin, Floyd, Forsyth, Gilmer, Gordon, Habersham, Haralson, Lumpkin, Murray, Paulding, Pickens, Polk, Rabun, Towns, Union, Walker, White, Whitfield

Information shall be submitted to: Mountain District - Cartersville Office  
Georgia Environmental Protection Division  
P.O. Box 3250  
Cartersville, GA 30120-1705  
(770) 387-4900

**F. For facilities/construction sites located in the following counties:** Appling, Atkinson, Bacon, Brantley, Bryan, Bulloch, Camden, Candler, Charlton, Chatham, Clinch, Coffee, Effingham, Evans, Glynn, Jeff Davis, Liberty, Long, McIntosh, Pierce, Tattnall, Toombs, Ware, Wayne

Information shall be submitted to: Coastal District - Brunswick Office  
Georgia Environmental Protection Division  
400 Commerce Center Drive  
Brunswick, GA 31523-8251  
(912) 264-7284

**G. For facilities/construction sites located in the following counties:** Baker, Ben Hill, Berrien, Brooks, Calhoun, Clay, Colquitt, Cook, Crisp, Decatur, Dodge, Dougherty, Early, Echols, Grady, Irwin, Lanier, Lee, Lowndes, Miller, Mitchell, Quitman, Randolph, Seminole, Stewart, Sumter, Telfair, Terrell, Thomas, Tift, Turner, Webster, Wilcox, Worth

Information shall be submitted to: Southwest District Office  
Georgia Environmental Protection Division  
2024 Newton Road  
Albany, GA 31701-3576  
(229) 430-4144

Insert Tab 5

Vegetative Measures

Back of Tab

BEST MANAGEMENT PRACTICES



VEGETATIVE MEASURES

 Level 1A: Fundamentals July 2016

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The Manual for Erosion & Sediment Control in Georgia

2

- Also known as the "Manual" or "Green Book"
- Chapter 6, Section 2 contains standards for vegetative practices and provides instructions for the preparation of erosion and sediment control plans for land-disturbing activities.
- The current edition of the Manual can be found at: [www.gaswcc.georgia.gov](http://www.gaswcc.georgia.gov)



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Equivalent Product List

3

- The products and practices presented in this presentation show the standard installation methods for each conventional BMP. New products and practices may not necessarily meet the requirements for each conventional BMP. Please see the Equivalent Best Management Practice List for specific manufacturer guidelines and specifications.
- The current Equivalent BMP List can be found @ <http://gaswcc.georgia.gov/> under "Documents List"

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### Shall/Will, Should, and May

4

- Shall or Will – A mandatory condition. When certain requirements are described with the “shall” or “will” stipulations, it is mandatory that the requirements be met.
- Should – An advisory condition. Considered to be recommended but not mandatory
- May – A permissive condition. No requirement is intended.

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### Benefits of Vegetation in ES&PC

5

- Intercepts raindrops
  - ▣ Reduces detachment of soil particles
  - ▣ Results in less soil erosion
- Slows & Cleans runoff
  - ▣ Increases water infiltration
  - ▣ Increased soil moisture aids plant growth
- Protects structures, rivers, streams, and ponds
- Reduces maintenance of structural measures
  - ▣ Reduced deposition in sediment basins
- Improves aesthetics, soil quality, and wildlife habitat



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### Benefits of Vegetation in ES&PC

6



It's cheaper to prevent erosion

Than to deal with sedimentation



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### Construction Sites Inhibit Plant Growth

7

- Factors
  - Topsoil is removed
  - Steep slopes
  - Low soil moisture
  - Low soil fertility
  - Acidic soils
  - Concentrated flow
  - Compacted soils



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### Vegetative BMPs

8

<b>Bf</b> – Slide 9	<b>Du</b> – Slide 58
<b>Cs</b> – Slide 14	<b>Fi-Co</b> – Slide 60
<b>Ds1</b> – Slide 17	<b>Sb</b> – Slide 64
<b>Ds2</b> – Slide 20	<b>Ss</b> – Slide 67
<b>Ds3</b> – Slide 28	<b>Tac</b> – Slide 71
<b>Ds4</b> – Slide 55	

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### Buffer Zone

9

**Bf**

- Definition
  - A strip of undisturbed, original vegetation, enhanced or restored vegetation or the re-establishment of vegetation surrounding an area of disturbance or bordering streams, ponds, wetlands, lakes and coastal waters



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### Buffer Zone

Bf

10

- Purpose
  - ▣ Reduce storm water runoff
  - ▣ Act as a screen for “visual pollution”
  - ▣ Reduce construction noise
  - ▣ Improve aesthetics
  - ▣ Filtering and infiltrating runoff
  - ▣ Providing shade, food, and cover for wildlife and aquatic organisms
  - ▣ Flood protection
  - ▣ Protect channel banks from scour and erosion

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### Buffer Zone

Bf

11

- Types
  - ▣ General Buffer – A strip of undisturbed, original land surrounding the disturbed site
  - ▣ Vegetated Stream Buffer – A strip of undisturbed, original land bordering a stream
- Design Specifications
  - ▣ Important factors such as slope, hydrology, width, and structure, and maintenance shall be considered
  - ▣ The GA EPD enforces a minimum stream buffer requirement for warm water (25 ft.) and cold water (50 ft.) fisheries

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### Specific Buffer Objectives

Bf

12

Objective	Minimum Width (ft.)	Maximum Width (ft.)
Wildlife Habitat	100	1100
Flood Control	250	400
Sediment Control	150	300
Nutrient Removal	100	200
Streambanks Stabilization and Aquatic Food Web	50	150
Water Temperature Moderation	25	100

Figure 6-1.1 - Range of Minimum Width for Meeting Specific Buffer Objectives (Palone and Todd, draft)

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### Coastal Dune Stabilization Cs

16

Table 1. Planting Requirements for Native Plants

Species	Stock	Date	Depth
Marshy Cordgrass (Spartina patens)	Plants	Spring	4'-5'
Bitter Panicum (Panicum amarum)	Rhizomes	Spring	-4"
Coastal Pangrass (Panicum amarum v. amarulum)	Seeds or Plants	Spring	1'-3"

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### Disturbed Area Stabilization (With Mulching Only) Ds1

17

- Definition
  - The application of plant residue or other suitable material, produced on site if possible, to the soil surface
- Purpose
  - Reduce runoff
  - Conserve moisture
  - Prevent surface compaction or crusting
  - Control undesirable vegetation
  - Modify soil temperature
  - Increase biological activity

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### Disturbed Area Stabilization (With Mulching Only) Ds1

18

Table 1. Mulching Application Requirements

Material	Rate	Depth
Straw or hay	-	2" to 4"
Wood waste, chips, sawdust, bark	-	2" to 3"
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	-

- Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance
- Apply at the appropriate depth
- Maintain at least 90% cover
- Must be anchored
- Can be used alone for up to 6 months

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### Disturbed Area Stabilization (With Temporary Seeding)

20

Ds2

- Definition
  - ▣ The establishment of temporary vegetative cover with fast growing species for seasonal protection on disturbed or denuded areas
- Purpose
  - ▣ Reduce runoff and sediment damage of downstream resources
  - ▣ Protect the soil surface from erosion
  - ▣ Improve wildlife habitat
  - ▣ Improve aesthetics
  - ▣ Improve tilth, infiltration, aeration, and organic matter

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### Disturbed Area Stabilization (With Temporary Seeding)

21

Ds2

- Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance
- If an area is expected to be undisturbed for longer than 6 months, permanent perennial vegetation shall be used
- Can be applied to:
  - ▣ Rough graded areas
  - ▣ Temporary Diversions
  - ▣ Temporary Sediment Basins
  - ▣ Topsoil stockpile
  - ▣ Temporary Dams



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**Disturbed Area Stabilization (With Temporary Seeding)** Ds2

22

<ul style="list-style-type: none"> <li>□ Components           <ul style="list-style-type: none"> <li>□ Grading &amp; Shaping</li> <li>□ Seedbed Preparation</li> <li>□ Lime &amp; Fertilizer</li> <li>□ Seeding</li> <li>□ Mulching</li> <li>□ Irrigation</li> <li>□ Seed Quality &amp; Selection</li> <li>□ Planting Techniques</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>□ Plant Selection           <ul style="list-style-type: none"> <li>□ Select a grass or grass-legume mixture suitable to the area and season of the year</li> <li>□ It should provide adequate cover (90%) and germinate quickly</li> <li>□ Some species are not appropriate for companion plantings because of their potential to out-compete the desired species</li> </ul> </li> </ul>
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**Disturbed Area Stabilization (With Temporary Seeding)** Ds2

23



Brown top Millet

Annuals



Rye



Ryegrass

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**Common Species Used for Temporary Cover**

24

<ul style="list-style-type: none"> <li>□ Warm Season Annuals           <ul style="list-style-type: none"> <li>□ Brown top Millet</li> <li>□ Pearl Millet</li> <li>□ Sudan Grass</li> </ul> </li> <li>□ Warm Season Perennials           <ul style="list-style-type: none"> <li>□ Common Bermuda</li> <li>□ Weeping Lovegrass</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>□ Cool Season Annuals           <ul style="list-style-type: none"> <li>□ Rye</li> <li>□ Ryegrass</li> <li>□ Wheat</li> </ul> </li> <li>□ Cool Season Perennials           <ul style="list-style-type: none"> <li>□ Tall Fescue</li> <li>□ Crown Vetch</li> <li>□ Clover</li> </ul> </li> </ul>
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**Disturbed Area Stabilization (With Permanent Vegetation)** Ds3

28

- **Definition**
  - ▣ The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization
- **Purpose**
  - ▣ Protect the soil surface from erosion
  - ▣ Reduce damage to downstream areas
  - ▣ Improve wildlife habitat and visual resources
  - ▣ Improve aesthetics

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**Disturbed Area Stabilization (With Permanent Vegetation)** Ds3

29

- This practice shall be applied immediately to rough graded areas that will be undisturbed for **longer than 6 months**
- **Final Stabilization** – All of the soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures, **100%** of the soil surface is uniformly covered in permanent vegetation with a density of **70%** or greater, or landscaped according to the ES&PC plan (uniformly covered with landscaping materials in planned landscaped areas)

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**Disturbed Area Stabilization (With Permanent Vegetation)** Ds3

30



Weeping Lovegrass



Tall Fescue



Bermuda

Perennials

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### Disturbed Area Stabilization (With Permanent Vegetation)

Ds3



Bahia



Centipede



Crown vetch



Perennials

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### Example Permanent Species Chart

Ds3

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

Species	Rates per 1,000 sq. ft.		Planting Dates by Region			Remarks
	Acre	Block Sod Only	M-L	P	C	
Bermuda Springs Common lawn and forage hybrids	40 cu. ft. Sod plugs 3' x3'	0.9 cu. ft.	4/15-6/15	4/1-6/15	4/1-5/31	1 cu. ft. = 650 sprigs 1 bu. = 1.25 cu. ft. or 800 sprigs
Centipede	Block Sod Only	Block Sod Only	---	11/1-5/31	11/1-5/31	Drought tolerant. Full sun or partial shade.
Crown Vetch With winter annuals or cool season grasses	15 lbs.	0.3 lb.	9/1-10/15	9/1-10/15	--	Mix with 30 lbs. Tall Fescue or 15 lbs. Rye; inoculate seed; plant only North of Atlanta.
Fescue, Tall Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	3/1-4/15 or 8/15-10/15	9/1-10/15	---	Can be mixed with perennial Lespedezas or Crown Vetch; not for droughty soils or heavy use areas.

A complete listing of all permanent species can be found in the "Resource Information" section

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### Planned Components

Ds3

- Grading & Shaping
- Lime & Fertilizer
  - Rates & Application
- Inoculants
- Plant Selection
- Seed Quality
- Seedbed Preparation

- Planting Method
- Applying Mulch
- Anchoring Mulch
- Irrigation
- Maintenance
- Planned Use
- Management

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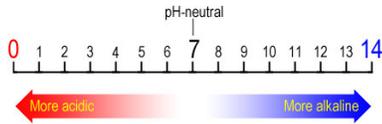
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## Lime & Fertilizer

34

- Soil Acidity (pH)
  - ▣ Can affect plant growth
  - ▣ Almost all soils in Georgia are acidic
  - ▣ Most plants used in erosion control need a soil pH of 6.0-6.5



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## Lime

35

- Agricultural Lime
  - ▣ Required at the rate of 1-2 tons/acre unless soil tests indicate otherwise
  - ▣ If lime is applied within 6 months of planting permanent perennial vegetation, additional lime is not required
  - ▣ Conventional Planting – apply before seedbed preparation
  - ▣ Hydraulic Seeding – apply in a slurry mixed with seed, inoculant, and/or wood pulp fiber mulch

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## Lime

36

- Can be lost in runoff
- Does not move rapidly through the soil
- Encourages a healthier and thicker stand
- Fast-acting Lime
  - ▣ Starts working immediately
  - ▣ Raises Soil pH quicker



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### Fertilizer

40



Initial Fertilizer      Topdressing      Legumes

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### Plant Selection

41

- Plant Selection
  - Species characteristics (Consider native grasses)
  - Site conditions
    - Location, topography, concentrated flow areas
  - Soil conditions
    - Composition, fertility, pH
  - Planned land use
  - Time of year
  - Planting method



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### Native Grasses

42



Reed Canary      Big Bluestem

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## Native Grasses



Indiangrass



Switchgrass

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## USDA Plant Database

<http://plants.usda.gov/java/>

44

*Schizanthus arundinaceus* (Schreb.) Dumort., nom. cons.  
Tall Fescue



Symbol: SCARF

Genus: *Arundinaceae*

Family: *Gramineae*

Duration: Perennial

Growth Habit: Grassland

Native Status: Nat. F. (1), Nat. S. (1), Nat. I. (1), Nat. N. (1)

USDA Plant Database

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## Companion Plants

45

- Some perennial species, such as Common Bermuda, Tall Fescue and Weeping Lovegrass, are easily established and can be planted alone
- Other perennials, such as Bahiagrass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species
- Common seeding combinations
  - 1) Weeping Lovegrass with Sericea Lespedeza (scarified)
  - 2) Tall Fescue with Sericea Lespedeza (un-scarified)
  - 3) Browntop Millet (annual) with Common Bermuda

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## Companion Plants



Ryegrass  
outcompeting the  
desired species



Sericea Lespedeza  
with Weeping  
Lovegrass

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## Seed Quality

- Pure Live Seed (PLS) – expressed as a percentage of the seeds that are pure and will germinate
  - % purity & germination can be found on seed tags



**PLS Example**

Tall Fescue

85% germination & 95% purity

PLS = 0.85 germination x 0.95 purity

PLS = 80.75%

Seeding rate = 50 lbs. PLS/acre = 61.92 lbs/acre

PLS 80.75% PLS

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## Hulled vs. Un-hulled

- Some seed coats prevent water absorption in order to expand the germination period
  - This is nature's way to ensure species survival
- A "hulled" seed's outer coat is removed mechanically
  - Allows water to enter the seed quicker for faster germination

**Example: Common Bermuda**

Use hulled seed for spring/summer plantings

Use un-hulled seed for fall/winter plantings



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## Scarification

49

- “Hard” seeds are nearly impervious to water and remain dormant for a long time
- Scarification overcomes the seed coat dormancy period by scratching, splitting, or puncturing the seed coat
  - Enables the seed to absorb water and sprout more quickly

Example: *Sericea Lespedeza*

Use scarified seed for spring/summer plantings

Use un-scarified seed for fall/winter plantings



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## Optimum Planting Dates

50

- Warm Season Plants (i.e. Common Bermuda & Weeping Lovegrass)
  - April 1<sup>st</sup> – May 15<sup>th</sup>
- Cool Season Plants (i.e. Rye, Ryegrass & Tall Fescue)
  - September 1<sup>st</sup> – October 15<sup>th</sup>
- Seeding rates are very important!!!
  - Under-seeding reduces the stand
  - Over-seeding creates excess demand for moisture and nutrients

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## Seedbed Preparation

51

- Provides a suitable growing medium for roots
- Not required where hydraulic seeding and fertilizer equipment is to be used, but strongly recommended when possible
- Tillage shall adequately
  - Loosen soil to a depth of 4”-6”
  - Alleviate compaction
  - Incorporate lime & fertilizer
  - Smooth and firm the soil
  - Allow for the proper placement of seed
  - Allow for the anchoring of straw or hay if a disk is to be used

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### Applying & Anchoring Mulch

53

- Dry straw
  - 2 tons/acre
- Dry hay
  - 2 ½ tons/acre
- Wood pulp fiber or cellulose mulch
  - 500 lbs/acre with hydraulic seeding
- Pine straw/pine bark
  - Thickness of 3"
- Hay & Straw shall be pressed into the soil with a packer disk or harrow
- Synthetic tackifiers, binders, hydraulic mulch shall be applied in conjunction with or immediately after mulch is spread
- Plastic mesh or netting may be required on unstable soils and concentrated flow areas

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### Management

54

- Irrigation – Apply at a rate that will not cause runoff
- Maintain at least 6" of top growth under any use and management

The diagram illustrates the impact of irrigation on root growth. It shows three stages of root development:

- 50%:** no roots stopped growing
- 70%:** 50% of roots stopped growing for 17 days
- 90%:** roots stopped growing for 17 days

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### Disturbed Area Stabilization (With Sodding)

Ds4

55

**Definition**

- A permanent vegetative cover using sod on highly erodible or critically eroded lands

**Purpose**

- Immediate ground cover
- Reduce runoff and erosion
- Improve aesthetics
- Reduce dust
- Stabilize waterways
- Filter sediment
- Reduce downstream complaints
- Reduce likelihood of stop work order




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### Disturbed Area Stabilization (With Sodding)

Ds4

56

**SOD LAYOUT AND PREPARATION**

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPPOINT MASSES TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

INCORRECT

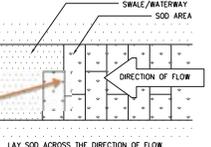


CORRECT

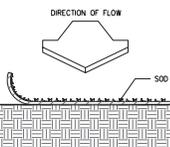


BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

**SOD DIRECTIONS**



LAY SOD ACROSS THE DIRECTION OF FLOW.



DIRECTION OF FLOW

SWALE/WATERWAY SOD AREA

DIRECTION OF FLOW

SOD

Lay sod in a straight line with tight, staggered joints

On slopes steeper than 3:1, sod should be anchored with pegs or staples

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### Disturbed Area Stabilization (With Sodding)

Ds4

57

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M,L,P P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipede	-	P,C	warm weather
St Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M,L,P	cool weather

The sod type should be shown on the plans

Fertilize in accordance with soil tests or Table 6-6.3

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first	6-12-12	1500	50-100
	second maintenance	6-12-12 10-10-10	1000 400	- 30
warm season grasses	first	6-12-12	1500	50-100
	second maintenance	6-12-12 10-10-10	800 400	50-100 30

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## Dust Control

Du

58

- Definition
  - ▣ The control of surface and air movement of dust on construction, roads, and demolition sites
- Purpose
  - ▣ Prevent movement of dust from exposed surfaces
  - ▣ Reduce the presence of airborne substances that may be harmful

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## Dust Control

Du

59

- Temporary Methods
  - ▣ Mulches
  - ▣ Vegetative Cover
  - ▣ Spray-on Adhesives
  - ▣ Tillage
  - ▣ Irrigation
  - ▣ Barriers
  - ▣ Calcium Chloride
- Permanent Methods
  - ▣ Permanent Vegetation
  - ▣ Topsoiling
  - ▣ Stone



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## Flocculants & Coagulants

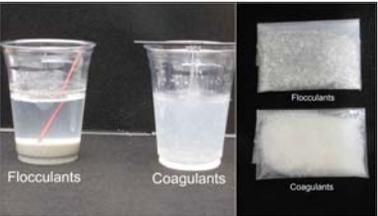
FI-Co

60

- Definition
  - ▣ Formulated to assist in the solids/liquids separation of suspended particles in solution. Only anionic forms shall be used

This practice is not intended for application to surface waters of the state.

It is intended for application within constructed storm water ditches that feed into constructed ponds or basins



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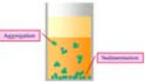
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## Flocculants & Coagulants FI-Co

61

Coagulant	Flocculants
<ul style="list-style-type: none"><li>Neutralizes the repulsive electrical charge surrounding a particle allowing it to stick together with other particles to form a clump or floc</li></ul>	<ul style="list-style-type: none"><li>Facilitate the agglomeration or aggregation of the coagulated particles to form larger floccules that slowly drop out of suspension</li></ul>



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## Flocculants FI-Co

62



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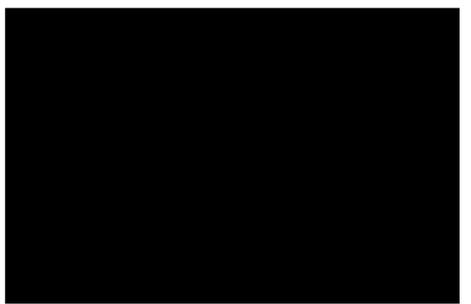
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## Coagulants FI-Co

63



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### Streambank Stabilization Sb

64

- Definition
  - ▣ The use of readily available native plant materials to maintain and enhance streambanks
- Purpose
  - ▣ Prevent small streambank erosion problems
  - ▣ Form a root mat to stabilize and reinforce the soil on the streambank
  - ▣ Enhance the appearance of the stream
  - ▣ Enhance water quality and wildlife habitat

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### Streambank Stabilization Sb

65

<ul style="list-style-type: none"><li>□ Preferred Practices<ul style="list-style-type: none"><li>▣ Live Staking</li><li>▣ Live Fascines</li><li>▣ Branchpacking</li><li>▣ Vegetated Geo-grid</li><li>▣ Brushmattress</li><li>▣ Coconut Fiber Roll</li><li>▣ Dormant Post Plantings</li></ul></li></ul>	<ul style="list-style-type: none"><li>□ Acceptable Practices<ul style="list-style-type: none"><li>▣ Joint Planting</li><li>▣ Live Cribwall</li><li>▣ Vegetated Gabion Baskets</li><li>▣ Tree Revetments</li><li>▣ Log, Rootwad &amp; Boulder Revetments</li></ul></li></ul>
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### Streambank Stabilization Sb

66



Before

Stabilization structures and vegetative measures should be planned and designed by a design professional with experience in the field

Please refer to the GSWCC's guidance document, *Streambank & Shoreline Stabilization*



After

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### Slope Stabilization Ss

67

- Definition
  - ▣ A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels
- Purpose
  - ▣ Provide a cover layer that stabilizes the soil and act as a rain drop dissipater
  - ▣ Provide a microclimate that protects young vegetation and promote its establishment

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### Rolled Erosion Control Products Ss

68

- A natural fiber blanket with single or double photodegradable or biodegradable nets
- Blankets shall be nontoxic to vegetation, seed, or wildlife
- Installation and stapling shall conform to manufacturer's guidelines for application
- Short-term (~12 months) RECPs shall be used:
  - ▣ In concentrated flow areas less than 5 ft/sec
  - ▣ On slopes 3:1 or greater with a height of 10 ft. or greater

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### Hydraulic Erosion Control Products Ss

69

- HECP utilize straw, cotton, wood, or other natural based fibers held together by a soil binding agent
- Materials shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed
- All fibrous components should be natural or biodegradable and nontoxic to vegetation, seed or wildlife
- Applications rates shall conform to the manufacturer's guidelines

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### Slope Stabilization

70

Each roll should be placed in a staggered sequence behind the first roll starting at the top of the slope



HECP

RECP

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### Tackifiers

71

Tac

- Definition
  - A tie-down for soil, compost, seed, straw, hay or mulch
  - Hydrate in water and readily blend with other slurry materials to form a homogenous slurry
  - Only anionic forms of PAM shall be used
- Purpose
  - Increase infiltration
  - Increase soil fertility
  - Enhance seed germination
  - Increase soil cohesion
  - Enhanced soil stabilization
  - Reduce stormwater runoff turbidity
  - Reduce loss of topsoil

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### Tackifiers

72

Tac



There are 5 types of tackifiers:

- Tac-1 Synthetic Polymers
- Tac-2 Organic Polymers
- Tac-3 Synthetic/Organic Blends
- Tac-4 Organic Polymers w/ Synthetic Fibers
- Tac-5 Synthetic/Organic Blends w/ Synthetic Fibers

Guar is an annual legume and the source of guar gum

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**DEFINITION**  
The establishment of temporary vegetative cover with fast growing coverings for erosion protection on disturbed or disturbed areas.

**CONSIDERATIONS**  
Temporary planting instead of seeds, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be combined with permanent measures to ensure successful and effective stabilization. Most types of temporary vegetation are used to use as companion crops until the permanent vegetation is established.

**SEEDING RATES FOR TEMPORARY SEEDING**

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	0.9 pounds	3 lbs.	9/1-5/1
Hydrangea	0.9 pound	40 lbs.	9/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-1/15
Weeping Lovegrass	0.9 pound	40 lbs.	1/15-4/15
Redtopgrass	1.4 pounds	40 lbs.	5/1-6/1
Shallgrass	1.4 pounds	40 lbs.	6/1-8/1
Midol	1.4 pounds	40 lbs.	6/1-8/1
Wheat	4.4 pounds	3 lbs.	9/15-2/1

\* Consult site conditions may require higher seeding rates  
\*\* Seeding dates may need to be adjusted to fit temperature variations and conditions.

**SEEDING RATES FOR TEMPORARY SEEDING**

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	0.9 pounds	3 lbs.	9/1-5/1
Hydrangea	0.9 pound	40 lbs.	9/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-1/15
Weeping Lovegrass	0.9 pound	40 lbs.	1/15-4/15
Redtopgrass	1.4 pounds	40 lbs.	5/1-6/1
Shallgrass	1.4 pounds	40 lbs.	6/1-8/1
Midol	1.4 pounds	40 lbs.	6/1-8/1
Wheat	4.4 pounds	3 lbs.	9/15-2/1

**Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)**

76

**Hydraulic Seeding**  
Mix the seed (precalculation if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

**Conventional Seeding**  
Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cutpacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cutpacker or other suitable equipment.

**No-Till Seeding**  
No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

**Individual Plants**  
Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Five trees shall be planted manually in the seedbed furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

**Hydraulic Seeding**  
1. On slopes too steep for the safe operation of other equipment, the seed shall be drilled or broadcast across the slope with appropriate tools to provide one pound of seed per acre or 1/1000 sq. ft. of seed and mulch and fertilizer. Hydraulic seeding may also be used.

**Individual Plants**  
1. Where individual plants are to be set, the soil shall be prepared by excavating holes, using barrows, or other means.  
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.  
3. Where plant seedlings are to be planted, instead of using tree or shrub seed on the surface they are to be planted, planting should be done when the soil is dry, preferably in August or September.

**Hydraulic Seeding**  
1. The seed (precalculation if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

**Conventional Seeding**  
Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cutpacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cutpacker or other suitable equipment.

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No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

**Individual Plants**  
Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Five trees shall be planted manually in the seedbed furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

**Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)**

77

**Mulching**  
Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 90% and cover below the seedling material from the following and apply as indicated:

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 1 ton per acre. Dry hay shall be applied at a rate of 1 1/2 tons per acre.

2. One thousand pounds of wood cellulose or wood pulp fiber, which includes a fertilizer, shall be used with hydraulic seeding on slopes 1:1 or steeper.

3. Barrows Lespedeza hay containing nutrient seed shall be applied at a rate of three tons per acre.

The combination of applied mulches and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture shall consist of 100 gallons of water, 100 lbs. of 20-20-20 fertilizer and 100 lbs. of water per acre.

**Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.**

**SEEDING RATES FOR PERMANENT SEEDING**

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BAHA	1.4 POUNDS	40 LBS.	1/1-12/31
BERMUDA	0.2 POUND	10 LBS.	2/15-5/1
CENTPEDE	BLOCK SOID ONLY	BLOCK SOID ONLY	4/1-7/1
LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

\* Consult site conditions may require higher seeding rates  
\*\* Seeding dates may need to be adjusted to fit temperature variations and conditions.

**SEEDING RATES FOR PERMANENT SEEDING**

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BERMUDA	0.2 POUND	10 LBS.	2/15-5/1
CENTPEDE	BLOCK SOID ONLY	BLOCK SOID ONLY	4/1-7/1
LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

**Ds4 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)**

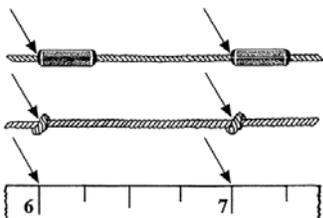
78



### Line-Transect Method

82

- Look straight down at a single point on each mark
  - ▣ The entire knot or mark is usually too large
  - ▣ Look at the same point on each mark




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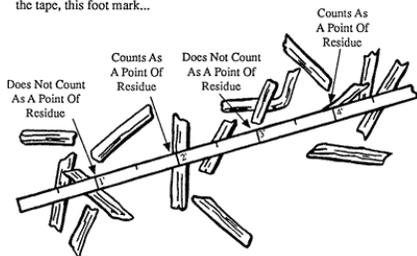
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### Line-Transect Method

83

- Determine if each single point is above cover

When using the top edge of the tape, this foot mark...




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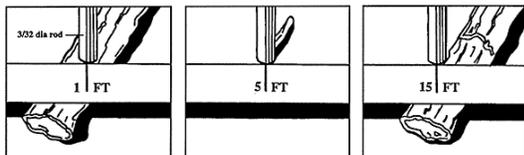
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### Line-Transect Method

84

- Count only those points that have a piece of residue or vegetation beneath them
  - ▣ To count, the cover must be large enough to intercept a raindrop, or about 3/32" (the size of wooden pencil)



Count—raindrop will strike residue only. Do not count—residue is too small, and raindrop will strike both soil and residue. Do not count—raindrop will strike soil.

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## Line-Transect Method

85

- Determine & cover
  - ▣ When 100 points are observed, the number directly over cover will be the %
    - If cover is under 90 points, there is 90% cover
  - ▣ If 50 points are observed, simply multiply the number directly over cover by 2 to get the %
    - If cover is under 40 points, there is 80% cover
- Make at least 3 measurements
  - ▣ For accuracy, use this process in 3 or more representative areas and average the measurements

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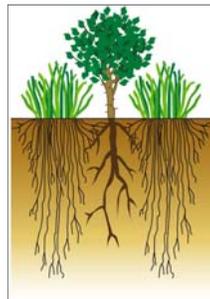
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## Summary

86

- Vegetation is the 1<sup>st</sup> step in reducing erosion
- A site-specific plan is required to achieve maximum impact
- The vegetative plan and maintenance requirements should encompass the entire year



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## Questions?

GSWCC  
Urban Program  
P.O. Box 8024  
Athens, GA 30603  
(706) 552-4474



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Insert Yellow Sheet

Back of Yellow Sheet

## VEGETATIVE BEST MANAGEMENT PRACTICES

<b>Bf</b>	Buffer Zone
<b>Cs</b>	Coastal Dune Stabilization
<b>Ds1</b>	Disturbed Area Stabilization (With Mulching Only)
<b>Ds2</b>	Disturbed Area Stabilization (With Temporary Seeding)
<b>Ds3</b>	Disturbed Area Stabilization (With Permanent Vegetation)
<b>Ds4</b>	Disturbed Area Stabilization (With Sodding)
<b>Du</b>	Dust Control on Disturbed Area
<b>FI-Co</b>	Flocculants and Coagulants
<b>Sb</b>	Streambank Stabilization (With Permanent Vegetation)
<b>Ss</b>	Slope Stabilization
<b>Tac</b>	Tackifiers

*The products and practices presented in this Field Manual show the standard installation methods for each conventional BMP. New products and practices may not necessarily meet the requirements for each conventional BMP. Please see the Equivalent Best Management Practice List for specific manufacturer guidelines and specifications.*

## **Bf**

## BUFFER ZONE

### DEFINITION

A strip of undisturbed, original vegetation, enhanced or restored existing vegetation or the re-establishment of vegetation surrounding an area of disturbance or bordering streams, ponds, wetlands, lakes, and coastal waters



### PURPOSE

- Reduce storm runoff velocities
- Act as screen for “visual pollution”
- Reduce construction noise
- Improve aesthetics
- Filtering and infiltrating runoff
- Cooling rivers and streams by creating shade
- Provide food and cover for wildlife and aquatic organisms
- Flood protection
- Protect channel banks from erosion

### INSTALLATION

- Important factors, such as slope, hydrology, width, and structure shall be considered.
- The GA EPD enforces a 25 ft minimum undisturbed stream buffer requirement for warm water fisheries and a 50 ft minimum undisturbed stream buffer requirement for cold water fisheries.

**Bf**

- If any land-disturbing activity, exempt or non-exempt, occurs within a mandated stream buffer, all cut and fills shall be stabilized with appropriate slope stabilization.

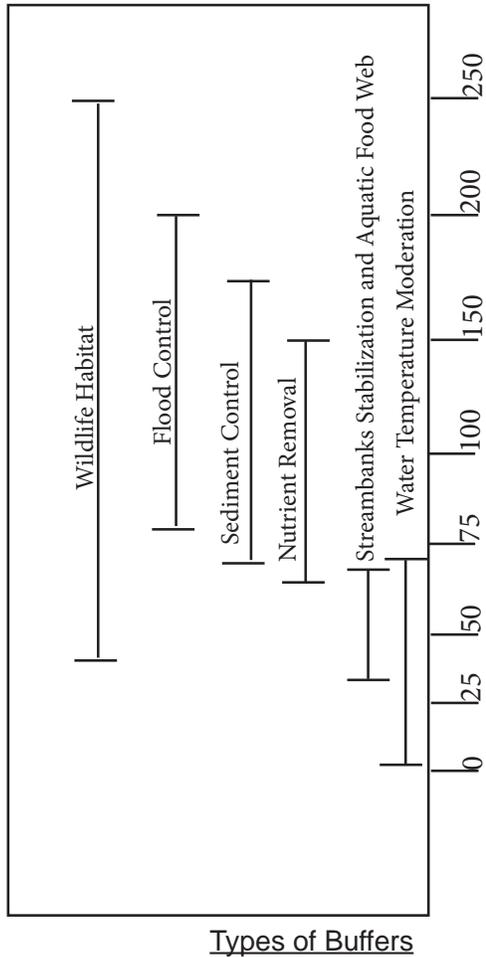


Figure 1. Range of Minimum Width (ft.) for Meeting Specific Buffer Objectives (Palone & Todd, draft)

Types of Buffers

**General Buffer**

- A strip of undisturbed, original land surrounding the disturbed site.
- A width should be selected to permit the zone to serve the purpose(s) listed above.

**Vegetated Stream Buffer**

- A vegetated stream buffer of 50 ft or greater can protect waters from excess sedimentation.

**Bf**

- The size of the stream and topography of the area must be considered to determine the appropriate width.
- The buffer should be increased 2 ft in width for every 1% slope.

**Planting Techniques**

- Plantings for buffer re-establishment and enhancement can consist of bare root seedlings, container-grown seedlings, container-grown plants, and balled and burlapped plants.
- Standard erosion control grasses and legumes may be used in denuded areas for quick stabilization.
- Refer to Tables 6-1.1 & 6-1.2 in the Manual for Erosion & Sediment Control in Georgia for complete listing of all Native Plants & Unrooted Hardwood Cuttings.
- Streambank stabilization techniques may be required if steep slopes and hydrologic patterns deem it necessary.
- Soil preparation and maintenance are essential for the establishment of planted vegetation.

Table 1. Effectiveness of Vegetative Buffer Strips

Purpose	Grass	Shrub	Tree
Filter Sediment	High	Low	Low
Filter Chemicals	Medium	Low	Low
Stabilize Stream Banks	Low	High	High
Improve Aesthetics	Low	Medium	High
Improve Habitat	Low	Medium	High
Reduce Noise	Low	Medium	High

**Bf**

### MAINTENANCE

- Areas closest to the stream should be maintained with minimal impact.
- During periods of drought, water as necessary in all buffer areas planted for enhancement.
- Remove weeds by hand or with careful spraying.
- Monitor to determine if plant material needs to be replaced.
- Fertilizer is unnecessary if the appropriate vegetation is chosen.

### REFERENCES

**Ds1**

Disturbed Area Stabilization  
(With Mulching Only)

**Ds2**

Disturbed Area Stabilization  
(With Temporary Seeding)

**Ds3**

Disturbed Area Stabilization  
(With Permanent Vegetation)

**Sb**

Streambank Stabilization  
(With Permanent Vegetation)

**Cs**

## COASTAL DUNE STABILIZATION (WITH VEGETATION)

### DEFINITION

Planting vegetation on dunes that are denuded, artificially constructed, or renourished.



### PURPOSE

- Stabilize soil on dunes allowing them to become more resistant to wind and waves.
- Allow development of dunes in areas where they have been damaged or destroyed.

### INSTALLATION

- Install in accordance with the approved plan.
- Install in accordance with all Federal, State and local regulations.
- Protect dunes from vehicular and human traffic.
- Provide crosswalks or crossover structures to allow for beach access.
- Irrigate during the first growing season in order to obtain good survival.
- Native plants commercially available that may be planted are included in Table 1.

Cs

Table 1. Planting Requirements for Native Plants

Species	Stock	Date	Depth
Marshay Cordgrass (Spartina patens)	Plants	Spring	4"-5"
Bitter Panicum (Panicum amarum)	Rhizomes	Spring	~4"
Coastal Panigrass (Panicum amarum v. amarulum)	Seeds or Plants	Spring	1"-3"



Figure 1. Sand Fence and Native Plants

**Sand Fence**

- Install according to approved plan.
- Use posts made of Black Locust, Red or White Cedar, or similarly durable wood.
- Use posts with minimum length of 7 ft and minimum diameter of 3".
- Space posts at a maximum of 10 ft.
- Entrench posts a minimum of 3 ft.
- Fasten fence to posts with four 12-gauge galvanized wires.
- Vegetation must be established immediately following development of the dunes.
- Use standard commercial 4-ft high snow fence that consists of wooden slats wired together with 1-1/4" spaces between the slats (See Figure 2)

Cs

**Barrier Dune Construction**

- Install sand fence a minimum of 100 ft from the mean high tide line.
- Space 2 or more parallel fences 30-40 ft apart.
- Locate fences as close to perpendicular with the prevailing winds, but as near parallel to the water line as possible
- When the winds are generally parallel to the water line, construct a single line of fence at least 140 ft from the mean high tide line with a shorter 30 ft section perpendicular to the original fence.
- Place these fences opposite the water side and space these fences about 40 ft apart.

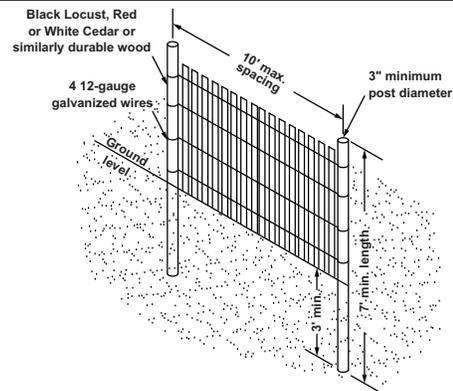


Figure 2. Sand Fence Installation Requirements

**MAINTENANCE**

- Repair any blowouts, wash pits, or other natural or man-made damage quickly.
- Maintain fences and erect additional fences if needed until the eroding area is replenished.
- Replant lost or destroyed vegetation.
- Apply 50 lbs of nitrogen/acre/year.
- Protect dunes from traffic by using elevated walks, semi-permanent paved paths, and portable roll-up walkways .

Cs

Ds1

## **DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

### **DEFINITION**

A temporary cover of plant residues or other suitable materials, produced on site if possible, applied to the soil surface.



### **PURPOSE**

- Reduce runoff and erosion
- Modify soil temperature
- Conserve moisture
- Prevent surface compaction and crusting
- Control undesirable vegetation
- Increase biological activity in the soil

### **INSTALLATION**

- Apply mulch or temporary grassing to all exposed areas within 14 days of disturbance.
- Applicable to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover.
- Mulch can be used as a singular erosion control device for up to 6 months.
- Apply at the appropriate depth. Refer to Table 1 for specific materials.

#### Site Preparation

- Grade to permit the use of equipment for applying and anchoring mulch

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## Ds1

- Install needed erosion control measures such as dikes, berms, and sediment barriers.
- Loosen compacted soil to a minimum depth of 3”.

### Applying Mulch

- Apply dry straw or hay and wood chips uniformly by hand or by mechanical equipment.
- Apply 20-30 lbs of nitrogen/acre if the area will eventually be covered with perennial vegetation.
- Apply polyethylene film on exposed areas.

### Anchoring Mulch

- Press straw or hay into the soil with a disk harrow immediately after application. Tackifiers may be used when spreading mulch with blower-type equipment.
- Anchor wood waste using the appropriate size netting
- Trench polyethylene at the top as well as incrementally as necessary.

Table 1. Mulching Application Requirements

Material	Rate	Depth
Straw or hay	-	2” to 4”
Wood waste, chips, sawdust, bark	-	2” to 3”
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufacturer’s recommendations	-

## MAINTENANCE

- The appropriate depth and 90% cover shall be maintained at all times.

## REFERENCES

### Tac

Tackifiers

## Ds2

# DISTURBED AREA STABILIZATION

(WITH TEMPORARY SEEDING)

## DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.



## PURPOSE

- Reduce runoff and sediment damage of down stream resources
- Protect the soil surface from erosion
- Improve wildlife habitat
- Improve aesthetics
- Improve tilth, infiltration, and aeration as well as organic matter for permanent plantings

## INSTALLATION

- Apply mulch or temporary grassing to all exposed areas within 14 days of disturbance.
- Applicable to rough graded areas that will be exposed for less than 6 months.
- Coordinate with permanent measures to ensure economical and effective stabilization.
- Take note of which species are not appropriate for companion crop plantings.
- When the soil has been sealed by rainfall or consists of smooth cut slopes, scarify the soil in order to provide a place for the seed to lodge and germinate.

## Ds2

- Apply agricultural lime at the rate determined by soil test pH.
- Apply lime before land preparation and incorporate with a disk, ripper, or chisel.
- On steep slopes, apply fertilizer hydraulically.
- Select grass or grass-legume mixtures based on the area and season of the year.
- Apply seed uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder.
- The appropriate depth of planting is 10x the seed diameter.
- Apply irrigation at a rate that will not cause runoff and erosion. Thoroughly wet the soil to insure germination of the seed.

### MAINTENANCE

- Re-seed areas where an adequate stand of temporary vegetation fails to emerge.
- If optimum conditions for temporary vegetation is lacking, mulch can be used a singular erosion control device.

### REFERENCES

Ds1

Disturbed Area Stabilization  
(With Mulching Only)

Tac

Tackifiers

## Ds2



Figure 2. Browntop Millet



Figure 3. Ryegrass



Figure 3. Rye

Table 1. Some Temporary Plant Species, Seeding Rates and Planting Dates

Species	Rates Per 1,000 sq. ft.	Rates per Acre	Planting Dates by Region		
			M-L	P	C
Barley Alone Barley in Mixtures	3.3 lbs. .6 lbs.	3 bu. .5 bu.	9/1-10/31	9/15-11/15	10/1-12/31
Lespedeza, Annual Lespedeza in Mixtures	0.9 lbs. 0.2 lbs.	40 lbs. 10 lbs.	3/1-3/31	3/1-3/31	2/1-2/28
Lovegrass, Weeping Lovegrass in Mixtures	0.1 lbs. .05 lbs.	4lbs. 2 lbs.	4/1-5/31	4/1-5/31	3/1-5/31
Millet, Browntop Millet in Mixtures	.9 lbs. .2 lbs.	40 lbs. 10 lbs.	4/15-6/15	4/15-6/30	4/15- 6/30
Millet, Pearl	1.1 lbs.	50 lbs.	5/15-7/15	5/1-7/31	4/15-8/15
Oats Alone Oats in Mixtures	2.99 lbs. .7 lbs.	4 bu. 1 bu.	9/15 -11/15	9/15-11/15	9/15-11/15

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DS2

Table 1. Some Temporary Plant Species, Seeding Rates and Planting Dates (continued)

Species	Rates Per 1,000 sq. ft.	Rates per Acre	Planting Dates by Region		
			M-L	P	C
Rye (Grain) Alone Rye in Mixtures	3.9 lbs. .6 lbs.	3 bu. .5 bu.	8/15-10/31	9/15/-11/30	10/1-12/31
Ryegrass	0.9 lbs.	40 lbs.	8/15-11/15	9/1-12/15	9/15-12/31
Sudangrass	1.4 lbs.	60 lbs.	5/1-7/31	5/1-7/31	4/1-7/31
Triticale Alone Triticale in Mixtures	3.3 lbs. .6 lbs	3 bu. .5 bu.	NA	NA	10/15-11/30
Wheat Alone Wheat in Mixtures	4.1 lbs. .7 lbs.	3 bu. .5 bu.	9/15 -11/30	10/1-12/15	10/15-12/31

24

DS2

1. Unusual site conditions may require heavier seeding rates.
2. Seeding dates may need to be altered to fit temperature variations and local conditions.
3. For Major Land Resource Areas (MLRAs), see page 60.
4. Seeding rates are based on pure live seed (PLS).

Table 2. Fertilizer Requirements for Temporary Vegetation

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---
Temporary cover crops seeded alone	First	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

Ds3

## DISTURBED AREA STABILIZATION

(WITH PERMANENT SEEDING)

### DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization.



### PURPOSE

- Protect the soil surface from erosion
- Reduce damage from sediment and runoff to down-stream areas
- Improve wildlife habitat and visual resources
- Improve aesthetics

### INSTALLATION

- Use conventional planting methods where possible.
- Final Stabilization means that 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the plan (uniformly covered landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.
- Select plants species based on site and soil conditions, planned use and maintenance of the area, time of year, method of planting, and the needs of the land user. (Refer to Table 1)

Ds3

- Apply agricultural lime at a rate of 1-2 tons/acre unless soil tests indicate otherwise. Please refer to Table 2 for initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species.
- Apply seed hydraulically. If using conventional methods, use a culti-packer seeder, drill, rotary seeder, or by hand.
- Cover the seed lightly with 1/8"-1/4" of soil for small seed and 1/2"-1" of soil for large seed when using a cultipacker.
- Check seed tags for % germination & % purity in order to calculate Pure Live Seed (PLS), which is the percentage of the seeds that are pure and will germinate.
- Mulch is required for all permanent vegetation applications. Please refer to **Ds1** for application rates and anchoring methods for different materials.
- Irrigate when the soil is dry and at a rate that will not cause runoff.

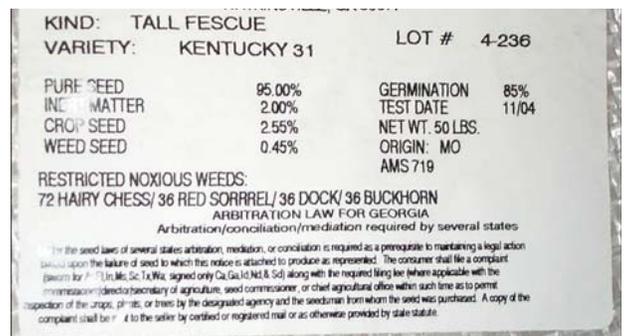


Figure 1. Typical Tag on a Bag of Seed

#### PLS Example

Tall Fescue

85% germination & 95% purity

PLS = 0.85 germination x 0.95 purity

PLS = 80.75%

Seeding rate = 50 lbs./acre PLS/acre = 61.92 lbs/acre

PLS 80.75% PLS

28

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Bahia, Pensacola Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	---	4/1 -5/31	3/1-5/31	Low growing; sod producing; will spread into Bermuda lawns.
Bahia, Wilmington Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	3/15-5/31	3/1-5/31	—	Same as above
Bermuda, Common (Hulled seed) Alone With other perennials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	---	4/1-5/31	3/15-5/31	Quick cover; low growing; sod forming; needs full sun.
Bermuda, Common (Unhulled seed) With temporary cover With other perennials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	---	10/1-2/28	11/1-1/31	Plant with Winter annuals. Plant with Tall Fescue

DS3

29

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Bermuda Springs Common lawn and forage hybrids	40 cu. ft.	0.9 cu.ft.	4/15-6/15	4/1-6/15	4/1-5/31	1 cu. ft. = 650 sprigs 1 bu. = 1.25 cu. ft. or 800 sprigs
	Sod plugs 3' x3'					
Centipede	Block Sod Only	Block Sod Only	---	11/1-5/31	11/1-5/31	Drought tolerant. Full sun or partial shade.
Crown Vetch With winter annuals or cool season grasses	15 lbs.	0.3 lb.	9/1-10/15	9/1-10/15	--	Mix with 30 lbs. Tall Fescue or 15 lbs. Rye; inoculate seed; plant only North of Atlanta.
Fescue, Tall Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	3/1-4/15 or 8/15-10/15	9/1-10/15	---	Can be mixed with perennial Lespedezas or Crown Vetch; not for droughty soils or heavy use areas

DS3

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

30

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Lespedeza, Sericea						Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seed with EL inoculant; mix with Weeping lovegrass, Common Bermuda, Bahia or Tall Fescue.  Mix with Tall Fescue or winter annuals.  Cut when seed is mature but before it shatters. Add Tall Fescue or winter annuals.
Scarified	60 lbs.	1.4 lbs.	4/1-5/31	3/15-5/31	3/1-5/15	
Unscarified	75 lbs.	1.7 lbs.	9/1-2/28	9/1-2/28	9/1-2/28	
Seed-bearing hay	3 tons	138 lbs.	10/1-2/28	10/1-1/31	10/15-1/15	

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

31

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Lespedeza Ambro Virgata or Appalow						Spreading growth with height of 18"-24"; good in urban areas; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia Tall Fescue or winter annuals; do not mix with Sericea Lespedeza; inoculate seed with EL inoculant.
Scarified	60 lbs.	1.4 lbs.	4/1-5/31	3/15-5/31	3/1-5/15	
Unscarified	75 lbs.	1.7 lbs.	9/1-2/28	9/1-2/28	9/1-2/28	
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) Plants	3' x 3' spacing		10/1-3/31	11/1-3/15	11/15-2/28	Plant in small clumps for wildlife food and cover.

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Lovegrass, weeping Alone With other perennials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	4/1-5/31	3/15-5/31	3/1-5/31	Quick cover; drought tolerant; grows well with Sericea Lespedeza on road-banks and other steep slopes; short lived.
Maidencane sprigs	2' x 3' spacing		2/1-3/31	2/1-3/31	2/1-3/31	For very wet sites such as river banks and shorelines. Dig sprigs locally.
Panicgrass, Altantic Coastal	20 lbs.	0.5 lb.	---	3/1-4/30	3/1-4/30	Grows well on coastal sand dunes; mix with Sericea Lespedeza but not on sand dune.
Red Canary Grass With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	8/15-10/15	9/1-10/15	---	Grows similar to Tall Fescue; for wet sites

32

DS3

Table 1. Some Permanent Plant Species, Seeding Rates, and Planting Dates (continued)

Species	Rates per Acre	Rates per 1,000 sq. ft	Planting Dates by Region			Remarks
			M- L	P	C	
Sunflower, Aztec Maximillian	10 lbs.	0.2 lb.	4/15-5/31	4/15-5/31	4/1-5/31	Mix with Weeping Lovegrass or other low growing grasses or legumes.

33

1. Rates are for broadcasted seed. If a seed drill is used, reduce the rates by one-half.
2. PLS is an abbreviation for Pure Live Seed. Refer to Glossary for an explanation of this term.
3. The resource areas are defined in the Glossary. See page 60 for Resource Area.
4. Seeding rates are based on pure live seeds (PLS).

DS3

Table 2. Fertilizer Requirements for Permanent Vegetation

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./ acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Cool grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
Warm season grasses and legumes	First	6-12-12	1500	50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---

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DS3

DS3

Ds3



Figure 2. Weeping Lovegrass



Figure 3. Sericea Lespedeza



Figure 4. Common Bermuda

Ds3

**MAINTENANCE**

- Re-seed areas where an adequate stand of vegetation fails to emerge or where a poor stand exists.
- Maintain at least 6” of top growth under any use and management.
- Exclude traffic until the plants are well established.
- Please refer to Table 2 for second year and maintenance fertilizer rates.
- Apply one ton of agricultural lime every 4-6 years or as indicated by soil tests.
- Mow Bermudagrass, Bahiagrass, and Tall Fescue as desired.
- Mow Sericea Lespedeza only after frost to ensure that the seeds are mature.

**REFERENCES**

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ss** Slope Stabilization

## DISTURBED AREA STABILIZATION (WITH SODDING)

### DEFINITION

A permanent vegetative cover using sods on highly erodible or critically eroded lands.



### PURPOSE

- Establish immediate ground cover
- Reduce runoff and erosion
- Improve aesthetics and land value
- Reduce dust and sediments
- Stabilize waterways and critical areas
- Filter sediments, nutrients and bugs
- Reduce downstream complaints
- Reduce likelihood of legal action
- Reduce likelihood of work stoppage due to legal action
- Increase “good neighbor” benefits

### INSTALLATION

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1”. Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

- Topsoil properly applied will help guarantee a stand. Don’t use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests or Table 1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.
- Agricultural lime should be applied based on soil tests or at a rate of 1-2 tons/acre.
- Lay sod with tight joints and in straight lines. Don’t overlap joints. Stagger joints and do not stretch sod.

Table 1. Fertilizer Requirements for Soil Surface Application			
Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./sq.ft.)	Fertilizer Rate	Season
10-10-10	1000	.025	Fall

- On slopes steeper than 3:1, sod should be anchored with pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4” immediately after installation.
- Sod should not be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

### MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain 3/4” (+ or - 1/4”) of soil, not including shoots or thatch.

## Ds4

- Sod should be cut to the desired size within  $\pm 5\%$ . Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather, if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 2. See page 60 for your Resource Area.

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L, P,C P,C P,C P,C	Warm weather
Bahiagrass	Pensacola	P,C	Warm weather
Centipede	—	P,C	Warm weather
St. Augustine	Common Bitterblue Raleigh	C	Warm weather
Zoysia	Emerald Myer	P,C	Warm weather
Tall Fescue	Kentucky 31	M-L, P	Cool weather

### MAINTENANCE

- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.

## Ds4

- Fertilize grasses in accordance with soil tests or Table 3.

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

### REFERENCES

- Ds1 Disturbed Area Stabilization (With Mulching Only)
- Ds2 Disturbed Area Stabilization (With Temporary Seeding)
- Ds3 Disturbed Area Stabilization (With Permanent Vegetation)
- Ss Slope Stabilization

Du

## DUST CONTROL ON DISTURBED AREAS

### DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.



### PURPOSE

- Prevent surface and air movement of dust from exposed soil surfaces.
- Reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

### MATERIALS

#### Temporary Methods

- Mulches - See **Ds1 - Disturbed Area Stabilization** (with Mulching only). Refer to specification **Tac - Tackifiers** for the use of synthetic resin to bind mulch material.
- Vegetative Cover - See **Ds2 - Disturbed Area Stabilization** (with Temporary Seeding).
- Spray-on Adhesives - For use on mineral soils, not muck soils. Refer to specification **Tac - Tackifiers**.

Du

- Tillage - Designed to roughen and bring clods to the soil surface. Begin plowing on windward side of site. Use chisel-type plows, spring-toothed harrows, or similar plows to achieve desired effect. This is an emergency measure to be used before wind erosion starts.
- Irrigation - Sprinkle the site with water until the surface is wet. Repeat as needed.
- Barriers - Use solid board fence, snow fence, burlap fence, crate walls, bales of hay, or similar material to control air currents and soil blowing. Place barriers at right angles at intervals of 15x their height to control wind erosion.
- Calcium Chloride - Apply at a rate to keep the surface moist.

#### Permanent Methods

- Permanent Vegetation - See **Ds3 - Disturbed Area Stabilization** (with Permanent seeding). Existing trees and large shrubs may afford valuable protection if left in place.
- Topsoiling - See specification **Tp - Topsoiling**.
- Stone - Cover surface with crushed stone or coarse gravel. See specification **Cr - Construction Road Stabilization**.

### MAINTENANCE

- Prohibit traffic on surface after spraying.
- Supplement surface covering as needed.

**REFERENCES**

- Ds1** Disturbed Area Stabilization  
(With Mulching Only)
- Ds2** Disturbed Area Stabilization  
(With Temporary Seeding)
- Ds3** Disturbed Area Stabilization  
(With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization  
(With Sodding)
- Tac** Tackifiers
- Cr** Construction Road Stabilization
- Tp** Topsoiling

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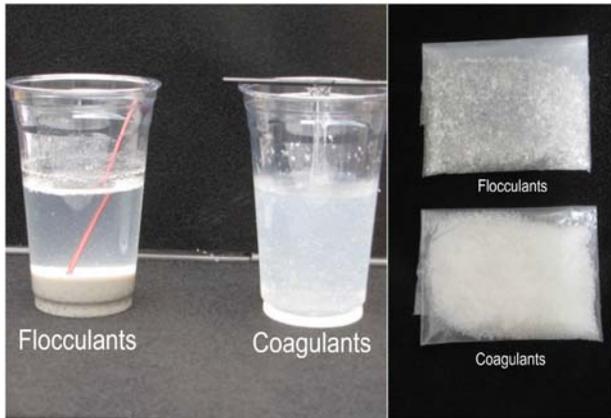
## FLOCCULANTS & COAGULANTS

### DEFINITION

Formulated to assist in the solids/liquid separation of suspended particles in solution.

Coagulant - Required to help give body to the water. A coagulant neutralizes the repulsive electrical charges surrounding particles allowing them to “stick together” creating clumps or flocs that form a small to mid-size particle.

Flocculent - Facilitate the agglomeration or aggregation of the coagulated particles to form larger floccules and act as a net where it gathers up the smaller coagulated particles making a larger particle. This larger particle will slowly drop out of suspension.



### PURPOSE

- Settle suspended sediment, heavy metals and hydrocarbons (TSS) in runoff water from construction sites for water clarification.

### INSTALLATION

- Application shall conform to manufacturer’s instructions and guidelines. FI-Co applications shall comply with all federal and local laws.
- Only anionic forms of FI-Co shall be used.

- This practice is not intended for application to surface waters of the state. It is intended for application within construction storm water ditches and storm drainage systems that feed into pre-constructed ponds or basins.

### MAINTENANCE

- Maintenance shall consist of reapplying FI-Co via the measures above when turbidity levels are no longer met or the FI-Co is used up. Bricks, blocks, socks, logs and bags shall be maintained when sediment accumulates on the products.

**Sb**

## STREAMBANK STABILIZATION

(USING PERMANENT VEGETATION)

### DEFINITION

The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.



### PURPOSE

- Lessen the impact of rain directly on the soil.
- Trap sediment from adjacent land.
- Form a root mat to stabilize and reinforce the soil on the streambank.
- Provide wildlife habitat.
- Enhance the appearance of the stream.
- Lower summertime water temperatures for a healthy aquatic population.

**NOTE:** Careful thought, planning and execution is required to assure that the streambank stabilization project is done efficiently and correctly. Please refer to GSWCC's [Guidelines for Streambank Restoration](#) for more detailed information.

**Sb**

### SELECTED PRACTICES

- Revegetation includes seeding and sodding of grasses, seeding in combination with erosion control fabrics, and the planting of woody vegetation (shrubs and trees).
- Use jute mesh and other geotextiles to aid in soil stabilization and revegetation.

#### Live Stake

- Fresh, alive woody plant cuttings tamped into the ground as stakes, intended to root and grow into mature shrubs that will stabilize soils and restore the riparian zone habitats.
- Willow species work best.
- Provides no immediate streambank stabilization.

#### LIVE STAKING CROSS-SECTION

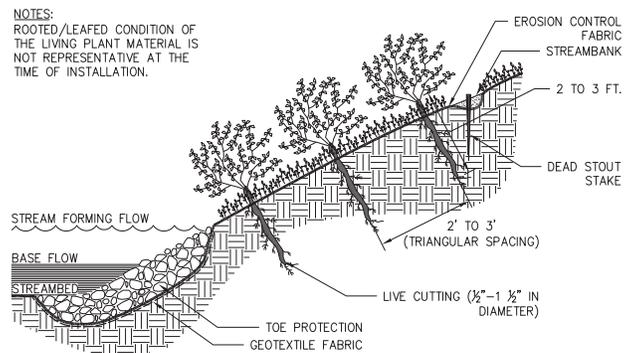


Figure 1. Illustration of a Live Stake

#### Joint Planting

- Installation of live willow stakes between rock previously placed along the streambank.
- Rock needs to be loosely dumped or hand placed and no thicker than 2 ft.
- Enables a bank previously installed with conventional rip-rap to become naturalized.

NOTES:  
ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE AT THE TIME OF INSTALLATION.

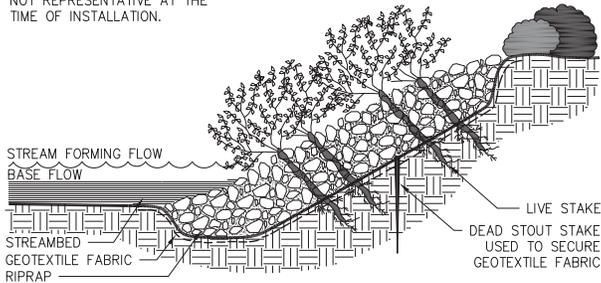
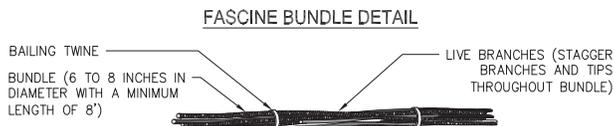


Figure 2. Illustration of Joint Planting

Live Fascine

- Sausage-like bundles of live cut branches placed into trenches along the streambank.
- Willow species work best.
- Provides immediate protection from erosion when properly used and installed.
- Creates very little site disturbance as compared to other systems.
- Works especially well when combined with surface covers such as jute mesh or coir fabrics.



LIVE FASCINE CROSS-SECTION DETAIL

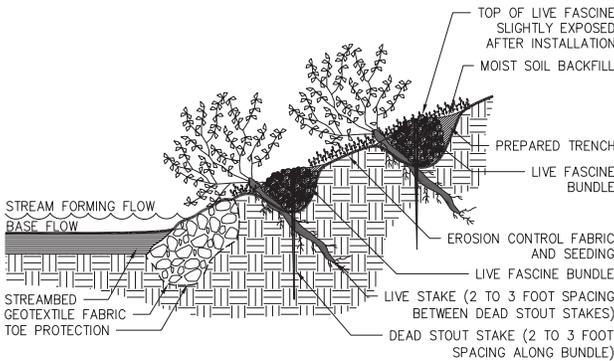


Figure 3. Illustration of a Live Fascine

Brushmattress

- Combination of living units that form an immediate protective surface cover over the streambank.
- Living units used include live stakes, live fascines, and a mattress branch cover (long, flexible branches placed against the bank surface).
- Requires a great deal of live material.
- Complicated and expensive to evaluate, design, and install.
- Captures sediment during flood conditions.
- Produces habitat rapidly, and quickly develops a healthy riparian zone.

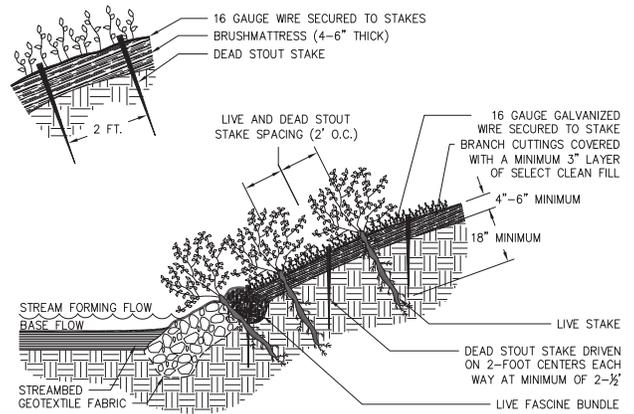


Figure 4. Illustration of a Brushmattress

Live Cribwall

- A rectangular framework of logs or timbers, rock, and woody cuttings.
- Requires a great deal of assessment and understanding of stream behavior.
- Can be complicated and expensive if a supply of wood and some volunteer help is not available.
- Develops a natural streambank or upland slope appearance after it has begun to grow.

- Provides excellent habitat for a variety of fish, birds, and animals.
- Very useful where space is limited on small, narrow stream corridors.

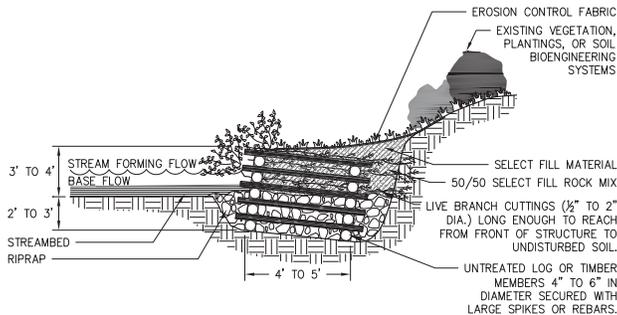


Figure 5. Illustration of a Live Cribwall

Branchpacking

- Process of alternating layers of live branches and soil, incorporated into a hole, gully, or slumped-out area in a slope or streambank.
- Moderate to complex level of difficulty for construction.
- Produces an immediate filter barrier, reducing scouring conditions, repairing gully erosion, and providing habitat cover and bank reinforcement.

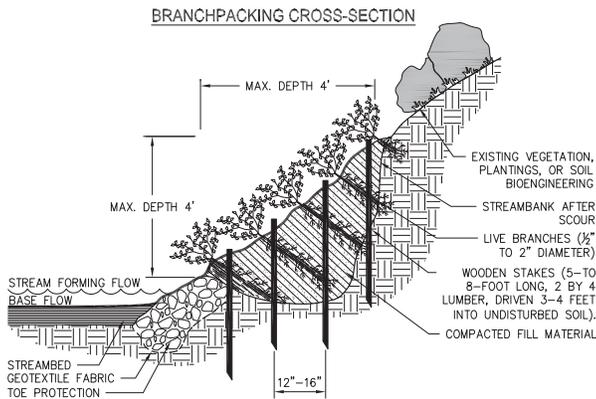


Figure 6. Illustration of Branchpacking

- One of the most effective and inexpensive methods for repairing holes in earthen embankments along small stream sites.

Measure	Relative Cost	Relative Complexity
Live stake	Low	Simple
Joint planting	Low*	Simple*
Live fascine	Moderate	Moderate
Brushmattress	Moderate	Moderate to Complex
Live cribwall	High	Complex
Branchpacking	Moderate	Moderate to Complex
Conventional vegetation	Low to Moderate	Simple to Moderate
Conventional bank armoring (riprap)	Moderate to High	Moderate to Complex

\*Assumes rock is in place

**MAINTENANCE**

- Check banks after every high-water event, fixing gaps in the vegetative cover at once with structural materials or new plants, and mulching if necessary.
- Fresh cuttings from other plants may be used for repairs.
- When fertilizer is applied on the surface, it is best to apply about one-half at planting, one-fourth when new growth is about 2” tall, and one-fourth about six weeks later.

**REFERENCES**

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)
- Ss** Slope Stabilization

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Guidelines for Streambank Restoration,  
Georgia Soil and Water Conservation  
Commission

# SLOPE STABILIZATION

## DEFINITION

A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

### Rolled Erosion Control Products (RECP)

- A natural fiber blanket with single or double photodegradable or biodegradable nets.

### Hydraulic Erosion Control Products (HECP)

- HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent which works to stabilize soil particles. Paper mulch should not be used for erosion control.



## PURPOSE

- Provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate which protects young vegetation and promotes its establishment.

## INSTALLATION

- Installation and stapling of RECPs and application rates for the HECPs shall conform to manufacturer’s guidelines for application.
- Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fibrous components should be all natural or biodegradable.



Figure 1. Hydroseeding on disturbed areas

## MAINTENANCE

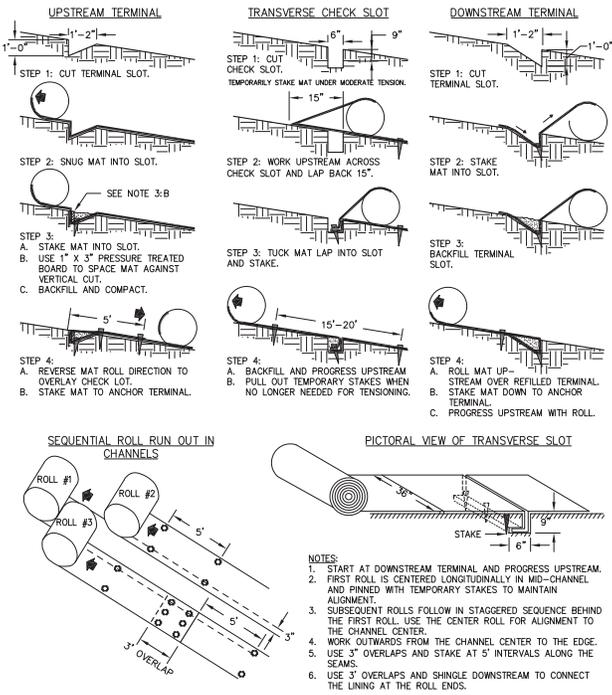
- Inspect all erosion control blankets and matting periodically after installation. Inspect immediately after rainstorms to check for erosion and undermining.
- Repair all dislocations and failures immediately.
- Re-install all materials after washouts or breakage occurs. Repair damage to the slope or ditch first.
- Monitor all areas until they are permanently stabilized.



Figure 2. Installation of Jute Matting

Ss

BLANKET AND MATTING CROSS-SECTIONS



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Figure 2. Typical Installation Guidelines for RECP

## TACKIFIERS

### DEFINITION

A substance used as tie-down for soil, compost, seed, straw, hay or mulch. They hydrate in water and readily blend with other slurry materials to form a homogenous slurry.



### PURPOSE

The purpose of tackifiers are to reduce soil erosion from wind and water on construction sites. It also increases the performance of the mulching material, so that it can:

- Increase infiltration.
- Increase soil fertility
- Control undesirable vegetation.
- Reduce runoff stormwater turbidity and loss of topsoil.
- Modify soil temperature.
- Increase soil cohesion and stabilization.
- Enhance seed germination

### CONDITIONS

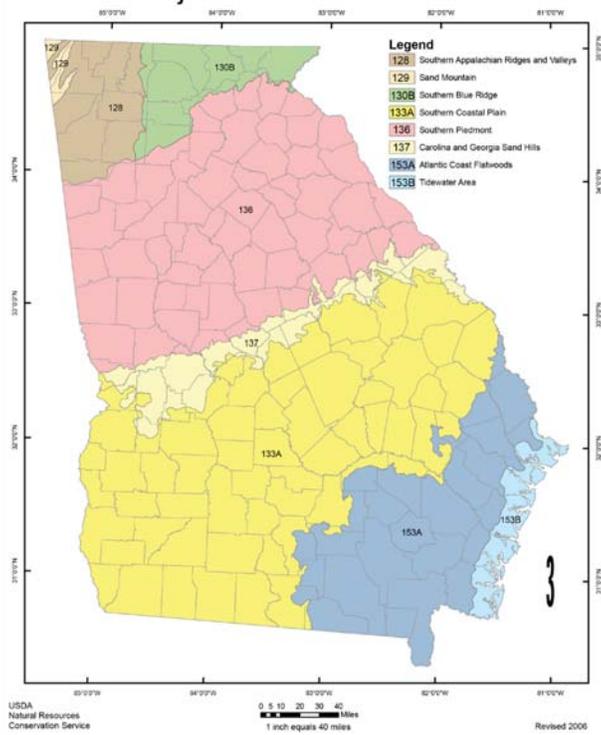
This practice is intended for direct soil surface application to sites where the timely establishment of vegetation may not be feasible or where vegetative cover is absent or inadequate.

### CRITERIA

- All organic mulching materials shall be anchored by tackifiers/binders or matting/netting. Tackifiers and binders are used to anchor wood cellulose, wood pulp fiber, and other mulch materials applied with hydroseeding equipment.
- Only anionic forms of PAM shall be used. Not harmful to plants, animals, and aquatic life.
- Application rates shall conform to manufacturer's guidelines for application.
- Shall not reduce infiltration rates.
- All organic tackifiers must be derived from natural plant sources.
- Contain no growth or germination inhibiting materials.
- Synthetic fibers shall be of nylon or polyester blends.
- There are 5 types of tackifiers:
  - **Tac-1** Synthetic Polymers
  - **Tac-2** Organic Polymers
  - **Tac-3** Synthetic/Organic Blends
  - **Tac-4** Organic Polymers w/ Synthetic Fibers
  - **Tac-5** Synthetic/Organic Blends w/ Synthetic Fibers

# GEORGIA

## Major Land Resource Areas



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Insert Tab 6

Structural Measures

Back of Tab

BEST MANAGEMENT PRACTICES



STRUCTURAL MEASURES

 Level 1A: Fundamentals July 2016

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The Manual for Erosion & Sediment Control in Georgia

2

- Also known as the "Manual" or "Green Book"
- Chapter 6, Section 3 contains standards for structural practices and provides instructions for the preparation of erosion and sediment control plans for land-disturbing activities.
- The current edition of the Manual can be found at: [www.gaswcc.georgia.gov](http://www.gaswcc.georgia.gov)



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Equivalent Product List

3

- The products and practices presented in this presentation show the standard installation methods for each conventional BMP. New products and practices may not necessarily meet the requirements for each conventional BMP. Please see the Equivalent Best Management Practice List for specific manufacturer guidelines and specifications.
- The current Equivalent BMP List can be found @ <http://gaswcc.georgia.gov/> under "Documents List"

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## Shall/Will, Should, and May

- Shall or Will – A mandatory condition. When certain requirements are described with the “shall” or “will” stipulations, it is mandatory that the requirements be met.
- Should – An advisory condition. Considered to be recommended but not mandatory
- May – A permissive condition. No requirement is intended.

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5

## Structural BMPs

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|-----------------------|-----------------------|------------------------|
| <b>Cd</b> – Slide 6   | <b>Gr</b> – Slide 44  | <b>SpB</b> – Slide 100 |
| <b>Ch</b> – Slide 14  | <b>Lv</b> – Slide 49  | <b>Sr</b> – Slide 103  |
| <b>Co</b> – Slide 18  | <b>Rd</b> – Slide 53  | <b>St</b> – Slide 107  |
| <b>Cr</b> – Slide 21  | <b>Re</b> – Slide 56  | <b>Su</b> – Slide 110  |
| <b>Dc</b> – Slide 24  | <b>Rt</b> – Slide 58  | <b>Tc</b> – Slide 115  |
| <b>Di</b> – Slide 27  | <b>Sd1</b> – Slide 64 | <b>Tp</b> – Slide 117  |
| <b>Dn1</b> – Slide 31 | <b>Sd2</b> – Slide 75 | <b>Tr</b> – Slide 120  |
| <b>Dn2</b> – Slide 36 | <b>Sd3</b> – Slide 86 | <b>Wt</b> – Slide 122  |
| <b>Fr</b> – Slide 39  | <b>Sd4</b> – Slide 90 |                        |
| <b>Ga</b> – Slide 42  | <b>Sk</b> – Slide 96  |                        |

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## Check Dam

**Cd**

- Definition
  - A temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow.
- Purpose
  - Reduce velocity of storm water
  - Filter sediment
  - Stabilize the grade
- Not to be used in a live stream

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### Check Dam

Cd

7

- Installation Criteria
  - Side slopes shall be 2:1 or flatter
  - Drainage Area
    - (2) acres for Stone Check Dams
    - (1) acre for Straw-Bale & Compost Filter Sock Check Dams

Points A & B should be at the same elevation

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### Stone Check Dams

Cd

8

- Installation Criteria
  - The center of the check dam shall be at least 9" lower than the outer edges.
  - Geotextile should be used as a separator between the stone and soil base
  - Stone size shall be between 2"-10"
  - Dam height should always be a maximum of 2 feet measured to the center of the check dam

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### Stone Check Dams

Cd-S

9

The center of the check dam is lower than the outer edges.

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### Straw-Bale Check Dams

Cd

10

Installation Criteria

- Bales should be bound with wire or nylon string
- The bales should be placed in rows with bale ends tightly abutting the adjacent bales
- The bales in the upstream row should be buried at least 6" deep
- The 2<sup>nd</sup> row of bales act as a splash pad and should be entrenched so that the wide side is level with the ground

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### Straw-Bale Check Dams

Cd-Hb

11

Point C should always be higher than Point D

The bales should be placed in rows with bale ends tightly abutting the adjacent bales

A trench in bale level with the ground acts as splash pad

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### Straw-Bale Check Dams

Cd-Hb

12

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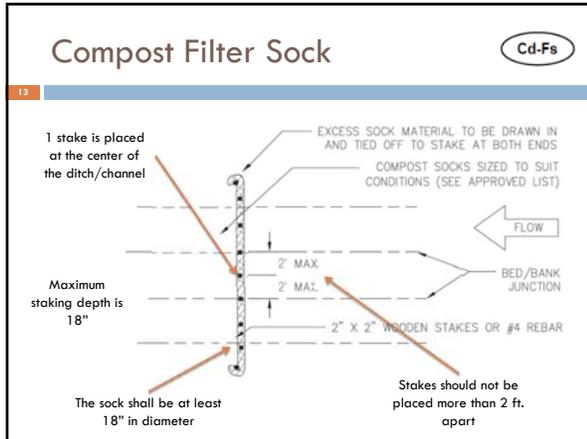
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- ### Channel Stabilization
- Ch
- 14
- Definition
    - ▣ Improving, constructing or stabilizing an open channel for water conveyance.
  - Purpose
    - ▣ Prevent erosion and sediment deposition
    - ▣ Provide adequate capacity for flood water, drainage, or other water management practices
  - This standard only applies to channels conveying intermittent flow, not a continuous, live stream.

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- ### Channel Stabilization
- Ch
- 15
- Design Criteria
    - ▣ Category 1 (< 5 ft/sec)
      - Vegetated Lining – temporary erosion control blankets or sod shall be used to aid in the establishment of the vegetated lining.




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### Channel Stabilization Ch

16

- Design Criteria
  - Category 2 ( $\geq 5$  ft/sec but  $< 10$  ft/sec)
    - Turf Reinforcement Matting (TRM) – a permanent geosynthetic matting that is used to stabilize the soil while permanent vegetation is taking root.
    - Rock Riprap Lining



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### Channel Stabilization Ch

17

- Design Criteria
  - Category 3 ( $\geq 10$  ft/sec)
    - Concrete Lining
    - Grade Stabilization Structure – These structures are used where excessive grades are present or water is to be lowered structurally from one elevation or another.



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### Construction Exit Co

18

- Definition
  - A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area.
- Purpose
  - Reduce or eliminate the transport of mud from the construction area onto public rights-of-way by motor vehicles or by runoff.
- Required at all points of construction access

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### Construction Exit Co

19

- Installation Criteria
  - Length = 50 ft.
  - Width = 20 ft.
  - Thickness = 6"
  - Aggregate Size = 1.5"- 3.5"
  - Geotextile shall be placed between the aggregate and the soil base
  - **When construction is less than 50 ft. from the paved access, the length shall be from the edge of the existing pavement to the permitted building being constructed**

It is recommended the Co be excavated to a depth of 3" and be cleared of all vegetation and roots

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### Construction Exit Co

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### Construction Road Stabilization Cr

21

- Definition
  - A travel-way constructed as part of a construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes.
- Purpose
  - Provide a fixed travel route for construction traffic and reduce erosion for the subsequent regrading of permanent roadbeds between time of initial grading and final stabilization.

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### Construction Road Stabilization Cr

22

- Design Criteria
  - ▣ The grades for a temporary road should not exceed 10% for lengths less than 200 ft.
  - ▣ Geotextile should be applied to the roadbed for additional stability
  - ▣ A 6" layer of coarse aggregate shall be applied immediately after grading
- ▣ Road Widths
  - One-way traffic – 14 ft.
  - Two-way traffic – 20 ft.
  - Two-way trailer traffic – 24 ft.

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### Construction Road Stabilization Cr

23



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### Stream Diversion Channel Dc

24

- Definition
  - ▣ A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed in the stream channel.
- Purpose
  - ▣ To protect the streambed from erosion and to allow work "in the dry".
- Shall only be used on flowing streams with a drainage area less than 1 square mile (640 acres)
- Stream buffer variance from the GA EPD may be required. All other appropriate agencies, including the Army Corps of Engineers, shall be contacted to ensure compliance

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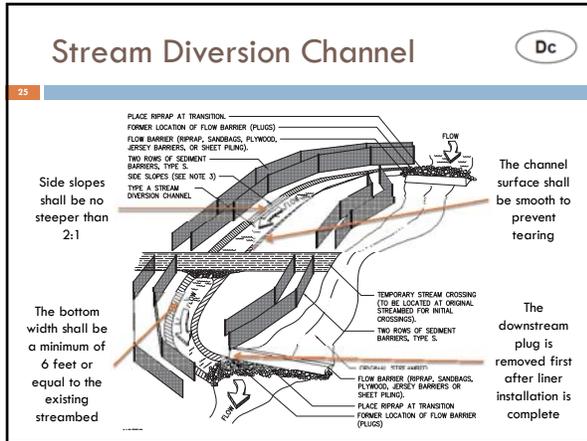
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### Stream Diversion Channel

Dc

26

Stream Diversion Channel Linings		
Lining Material	Symbol	Acceptable Velocity (fps)
Geotextile, polyethylene film, or sod	Dc-A	0-2.5
Geotextile alone	Dc-B	2.5-9.0
Class I Riprap and Geotextile	Dc-C	9.0-13.0

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- ### Diversion
- Di
- 27
- Definition
    - ▣ A ridge of compacted soil, constructed above, across, or below a slope.
  - Purpose
    - ▣ Reduce the erosion of steep, or otherwise highly erodible areas by reducing slope lengths and intercepting storm runoff.
  - Applicable when runoff from higher areas is or has the potential for damaging property, causing erosion, contributing to pollution, flooding, or interfering with the establishment of vegetation.

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### Diversion

Di

28

- Design Criteria
  - ▣ Ridge – shall be compacted and designed to have stable side slopes that are no steeper than 2:1.
  - ▣ Channel
    - On steeper slopes, narrow and deep channels may be required.
    - On gentle slopes, broad and shallow channels are usually applicable.
  - ▣ Outlet – Every diversion should have an adequate outlet.

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### Diversion

Di

29

Parabolic

Recommended

Trapezoidal

Not Recommended

Triangular

TOP WIDTH = ... FT   RIDGE WIDTH = ... FT (4 FT MINIMUM)  
RIDGE HEIGHT = ... FT  
FREEBOARD = ... FT  
LINING   DEPTH OF FLOW = ... FT   NORMAL GROUND LEVEL

6"   RIDGE WIDTH = ... FT (4 FT MINIMUM)  
RIDGE HEIGHT = ... FT  
FREEBOARD = ... FT  
LINING   DEPTH OF FLOW = ... FT  
BOTTOM WIDTH = ... FT   SIDESLOPE = 1:1   NORMAL GROUND LEVEL

6"   RIDGE WIDTH = ... FT (4 FT MINIMUM)  
RIDGE HEIGHT = ... FT  
FREEBOARD = ... FT  
LINING   DEPTH OF FLOW = ... FT  
SIDESLOPE = 1:1   NORMAL GROUND LEVEL

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### Diversion

30

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**Temporary Downdrain Structure** Dn1

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**31**

- **Definition**
  - A temporary structure used to convey concentrated storm water runoff down the face of cut or fill slopes.
- **Purpose**
  - Safely convey storm water runoff from one elevation to another without causing slope erosion in order to allow the establishment of vegetation on the slope.
  - Removed once the permanent storm water disposal system is installed.

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**Temporary Downdrain Structure** Dn1

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**32**

- **Design Criteria**
  - Placement – Shall be located on undisturbed soil or well-compacted fill
  - Diameter – Shall provide sufficient capacity required to convey the maximum expected runoff expected during the life of the drain

Maximum Drainage Area (acre)	Pipe Diameter (inches)
0.3	10
0.5	12
1.0	18

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**Temporary Downdrain Structure** Dn1

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**33**

- **Installation Criteria**
  - Install heavy duty, flexible materials such as non-perforated, corrugated plastic pipe or flexible tubing
  - Fill should be compacted around the inlet section to prevent the pipe from being washed out
  - Use grommets or stakes to anchor the pipe at intervals not to exceed 10 ft.
  - Ensure all pipe connections are watertight
  - Install a stabilized outlet with rock riprap

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### Temporary Downdrain Structure Dn1

34



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### Temporary Downdrain Structure Dn1

35

- For steep slopes, down drains should be placed diagonally across the slope, extending the drain beyond the toe of the slope.



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### Permanent Downdrain Structure Dn2

36

- Definition
  - A permanent structure used to safely convey surface runoff from the top of a slope to the bottom of the slope.
- Purpose
  - Minimize erosion due to concentrated storm water runoff on cut or fill slopes .
- All structures shall satisfy the standards and specifications set forth by the Georgia DOT.

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### Permanent Downdrain Structure Dn2

37

- Design Criteria
  - The following types may be used
    - Paved Flume
    - Pipe
    - Sectional
  - These structures should be designed by professionals familiar with these structures.
  - Flumes shall be adequately designed to safely convey the 25-year, 24-hour storm
  - Outlets must be stabilized in accordance with **St – Storm Drain Outlet Protection**

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### Permanent Downdrain Structure Dn2

38



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### Filter Ring Fr

39

- Definition
  - A temporary stone barrier constructed at storm drain inlets and pond outlets.
- Purpose
  - Reduce flow velocities
  - Prevent failure of other sediment control devices
  - Prevent sediment from leaving the site or enter drainage systems
- Shall be used in conjunction with other sediment control measures.

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**Filter Ring** Fr

40

- Installation Criteria
  - Location
    - Shall surround all sides of the structure receiving runoff from the disturbed area and be placed no less than 4 ft. from the structure. When placed in front of a retrofit, it should be no less than 8-10 ft. from the retrofit.
  - Stone size
    - 3-5 inch stone for inlets with diameters <12 in
    - 10-15 inch stone Inlets with diameters >12 in
  - Height
    - No less than 2 ft. from grade

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**Filter Ring** Fr

41



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**Gabion** Ga

42

- Definition
  - Large, multi-celled, welded wire or rectangular wire mesh boxes
- Purpose
  - Used in the construction of erosion control structures, retaining walls, abutments, check dams, and channel revetments to stabilize highly erosive slopes
- Should be prepared by a design professional familiar with the use of gabions.

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### Gabion

43

Gabions are durable because they support plant growth that develops a living coating for the wire mesh and stone

Hand packing allows the complete filling of the basket

Should be "keyed" into the foundation

Ga

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### Grade Stabilization Structure

44

- Definition
  - A structure used to stabilize the grade in a natural or artificial channel
- Purpose
  - Prevent the formation of gullies
  - Reduce erosion and sediment pollution
- Does not apply to sites where water is to be impounded
- Shall be placed on compacted earth-fill

Gr

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### Grade Stabilization Structure

45

- Installation Criteria
  - Construct with concrete, rock, masonry, steel, aluminum or treated wood, or by soil bio-engineering methods
  - Place geotextile under the structure
  - Provide an adequate outlet for discharge
- 4 Types
  - Box Drop Inlet
  - Chute Spillway
  - Drop Inlet
  - Straight Drop

Gr

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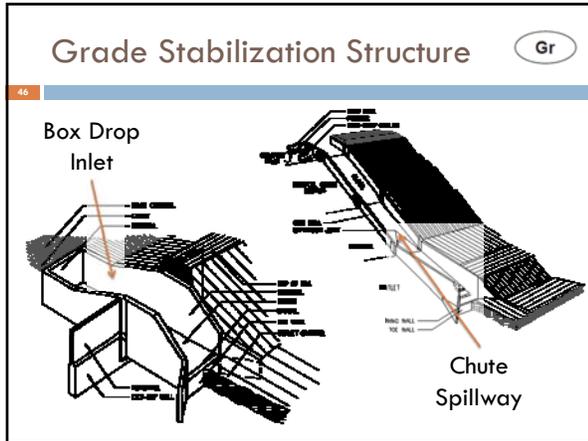
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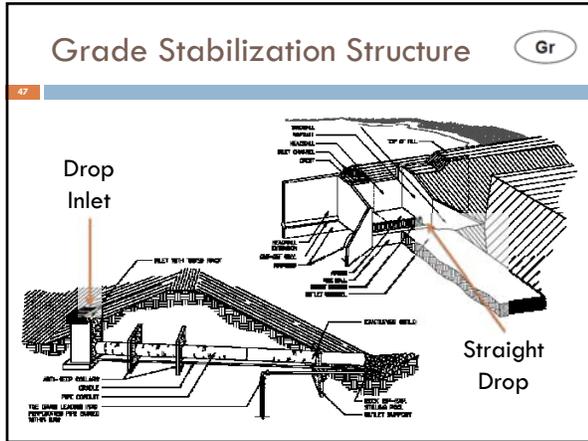
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### Level Spreader Lv

49

- Definition
  - ▣ A storm flow outlet device constructed at zero grade across the slope
- Purpose
  - ▣ Dissipate storm flow energy by converting concentrated storm runoff into sheet flow
  - ▣ Discharge at a non-erosive velocity onto undisturbed areas stabilized by existing vegetation
- Must be constructed on undisturbed soil (not fill)

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### Level Spreader Lv

50

- Design Criteria
  - ▣ Length – Determined by estimating the peak flow from the 10-year, 24-hour storm
  - ▣ Width – Minimum of 6 ft.
  - ▣ The depth from the lip of the level spreader shall be a minimum of 6" and uniform across its length
  - ▣ The level lip shall transition to 0% grade and discharge onto undisturbed stabilized areas

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### Level Spreader Lv

51

ISOMETRIC VIEW - NOT TO SCALE

The diagram shows a cross-section of a level spreader. On the left, a vegetated diversion structure is shown with arrows indicating flow direction. The flow then passes through a transition to 0% grade, which is a flat, stabilized slope. Finally, the flow discharges into a stable undisturbed outlet area.

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Level Spreader Lv

52



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Rock Filter Dam Rd

53

- Definition
  - ▣ A temporary stone filter dam installed across a drainage way or in conjunction with a temporary sediment trap
- Purpose
  - ▣ Serve as a sediment filtering device
  - ▣ Reduce the velocity of storm water in a channel
- For use in small channels that drain 50 acres or less

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Rock Filter Dam

54

- Installation Criteria
  - ▣ Should be located as close to the source of sediment as possible
  - ▣ The center of the dam shall be at least 9" lower than the outer edges
  - ▣ Side slopes should be 2:1 or flatter
  - ▣ Minimum top width of 6"
  - ▣ Geotextile should be used as a separator between the stone and soil base
  - ▣ Refer to the ES&PC Plan for stone size

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Rock Filter Dam (Rd)

55



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Retaining Wall (Re)

56

- Definition
  - ▣ A wall constructed of one or more of the following: concrete masonry, reinforced concrete, cribbing, treated timbers, steel pilings, gabions, stone drywall, rock riprap, etc.
- Purpose
  - ▣ Assist in the stabilization of cut or fill slopes where a stable slope is not attainable without the use of a wall
  - ▣ Requires a specific design by a design professional

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Retaining Wall (Re)

57



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### Retrofit Rt

58

- Definition
  - ▣ A device or structure placed in front of a permanent storm water detention pond outlet or roadway drainage structure to serve as a temporary filter
- Purpose
  - ▣ Allow a permanent storm water detention basin or roadway drainage structure to function as temporary sediment storage for land-disturbing projects
- Not to be used in basins on live streams

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### Perforated Half-Round Pipe Rt-P

59

- Only in detention ponds with  $\leq 30$  acre total drainage area
- Never to be used on exposed pipe or winged headwall
- Diameter of half-round pipe should be 1.5x the diameter of the principal pipe outlet or wider than the greatest width of the concrete weir
- Shall be affixed by means (bolts, etc.) to the concrete outlet structure

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### Perforated Half-Round Pipe Rt-P

60



Securely fastened

10/06/2007 10:31

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### Slotted Board Dam

Rt-B

61

- Used in detention ponds with drainage areas up to 100 acres.
- Used in roadway drainage structures with drainage areas ≤30 acres.
- Should be installed with minimum 4"x4" posts
- Boards should have 1/2"-1" space between them
- Minimum 3"- 4" stone filter or approved filter fabric should be installed on the upstream side of the board dam

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### Slotted Board Dam

Rt-B

62




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### Silt Control Gate

Rt-Sg

63

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>□ Shall only be used on roadway drainage structures with the following inlets:           <ul style="list-style-type: none"> <li>■ Winged Headwalls</li> <li>■ Tapered Headwalls</li> <li>■ Straight Headwalls</li> <li>■ Open End Pipes</li> <li>■ Flared End Sections</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>□ An approved silt fence fabric shall be securely fastened to the front of the structure</li> <li>□ Post shall be 4"x4" treated lumber with no spaces between the boards</li> <li>□ Drainage area shall not exceed 50 acres</li> </ul> |
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### Silt Control Gate

Rt-Sg

64



What's missing?

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### Sediment Barrier

Sd1

65

- Definition
  - A temporary structure made of a porous material typically supported by steel or wood posts
- Purpose
  - Minimize and prevent sediment carried by sheet flow from leaving the site and entering the natural drainage way by slowing storm water runoff and causing deposition and/or filtration at the structure
- Types
  - Silt Fence
  - Brush Piles
  - Mulch Berms
  - Compost Filter Sock

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### Sediment Barrier

Sd1

66

- Design Criteria
  - Shall not be installed across streams, ditches, waterways, or other concentrated flow areas
  - The type of sediment barrier depends on whether the area is sensitive or non-sensitive
  - A splash pad or other outlet protection device should be provided for any point where flow may overtop the sediment barrier
  - When using multiple types of sediment barriers in a single run, the barriers must overlap 18" or as specified

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## Sediment Barrier

Sd1-NS

67

- Non-sensitive Areas
  - ▣ Should have a support spacing of no greater than 6 ft. on center, with each post being driven into the ground a minimum of 18".
  - ▣ Classifications
    - Type A Silt Fence – 36" wide
    - Type B Silt Fence – 22" wide
    - Compost Filter Sock
    - Brush Barrier – Only during Timber Clearing Operations

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## Type A Silt Fence

68



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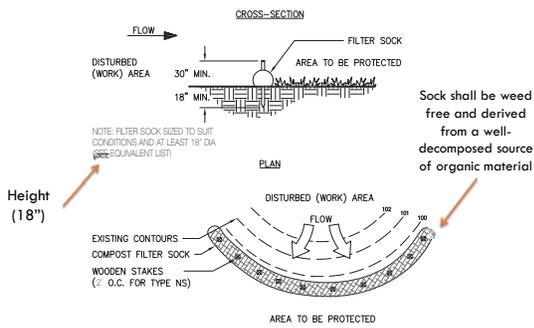
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## Compost Filter Sock

Sd1-NS

69



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### Brush Barrier

Sd1-NS

70

Height (3'-5')

VARIES

Should be wind-rowed on the contour

BRUSH BARRIER. SOME HEAVIER MATERIALS REQUIRED AT THE TOP.

GROUNDLINE

BETWEEN 5'-10'

Minimum Base Width (5'-10')

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### Mulch Berms

Sd1

71

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### Sediment Barrier

Sd1-S

72

- Sensitive Areas
  - Shall have a support spacing of no greater than 4 ft. on center, with each post being driven into the ground a minimum of 18".
  - Classifications
    - Type C Silt Fence
      - 36" wide with wire reinforcement or equivalent backing
      - Almost 3x the flow rate as Type A Silt Fence
      - To be used where runoff velocities are particularly high or where slopes exceed a vertical height of 10 ft.

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### Type C Silt Fence

Sd1-S

73

4' Maximum Support Spacing

Woven wore or equivalent backing

Use Steel or Wood Posts

Entrenched to a depth of 6"

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### Type S Sediment Barrier

Sd1-S

74

- Along all state waters and other sensitive areas, 2 rows of Type S sediment barrier shall be used. The 2 rows of Type S should be placed a minimum of 36" apart.

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### Inlet Sediment Trap

Sd2

75

- Definition
  - A temporary protective device formed at or around an inlet to a storm drain to trap sediment
- Purpose
  - Prevent sediment from entering a storm drainage system prior to permanent stabilization
- Should be installed at all storm drain drop inlets that receive runoff from the disturbed area

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### Inlet Sediment Trap Sd2

76

- Design Criteria
  - ▣ On paved surfaces or where safety is a concern, a high flow trap should be used to negate the potentially negative effects of ponding
  - ▣ On unpaved areas, a high retention trap should be taken into account
  - ▣ Traps shall be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard

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### Excavated Inlet Sediment Trap Sd2

77

- An excavation may be created around the inlet sediment trap to provide additional sediment storage
- Sediment storage shall be calculated at 67 cy/ac drained
- The drainage area entering the trap shall be no greater than 1 acre
- A minimum depth of 1.5 ft. should be provided and the side slopes should not be steeper than 2:1

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### Filter Fabric with Supporting Frame Sd2-F

78

\*FABRIC ENTRENCHED AT LEAST 12" AND BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

12" MIN.

Type C Silt Fence

WIRE-BACKING  
GATHER EXCESS AT CORNERS  
FABRIC WITH WIRE-BACKING SUPPORT

Post Depth (18")

Post should be evenly spaced around the perimeter of the inlet

3" MAX. 3" MAX. 1.5" MAX. 3" MIN. 18" MIN.

Design is for slopes that drain a relatively flat area (≤ 5%)

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### Filter Fabric with Supporting Frame Sd2-F

79




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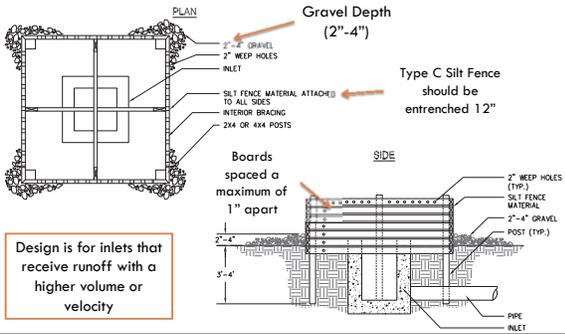
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### Baffle Box Sd2-B

80



Design is for inlets that receive runoff with a higher volume or velocity

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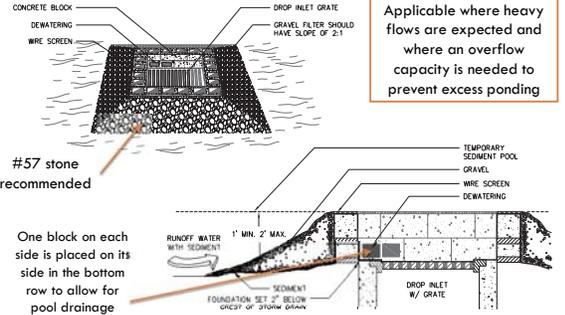
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### Block and Gravel Sd2-Bg

81



Applicable where heavy flows are expected and where an overflow capacity is needed to prevent excess ponding

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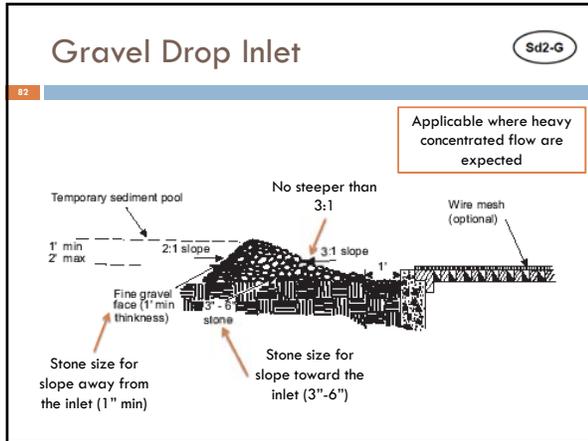
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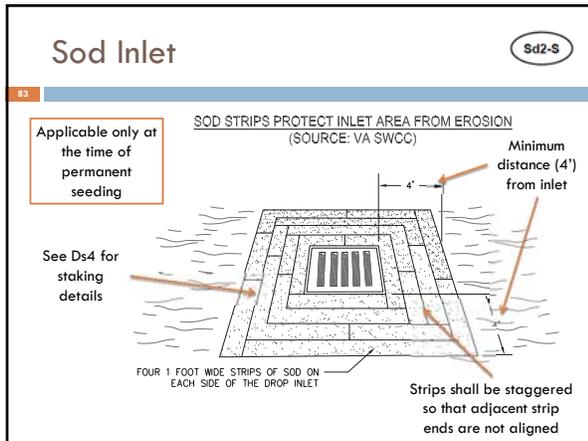
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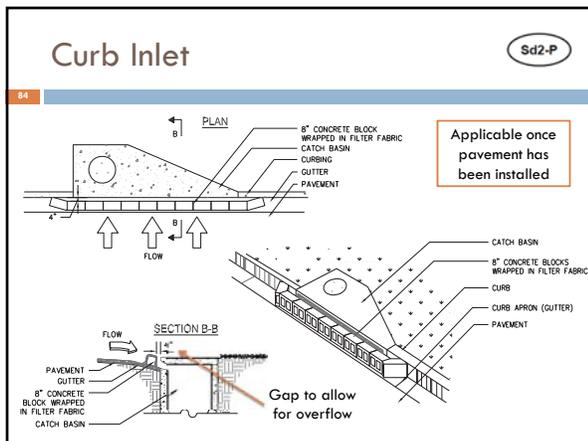
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### Curb Inlet

Sd2-P

85



Gap to allow for overflow

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### Temporary Sediment Basin

Sd3

86

- Definition
  - A basin created by the construction of a barrier or dam across a concentrated flow area, or by excavating a basin, or by a combination of both.
- Components
  - Dam
  - Pipe Outlet
  - Emergency Spillway
- Purpose
  - Detain runoff waters and trap sediment from erodible areas
  - Protect properties and drainage ways from excessive sedimentation and debris

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### Temporary Sediment Basin

Sd3

87

- Design Criteria
  - Location – Shall never be placed in live streams
  - Volume – The sediment storage volume, as measured to the elevation of the crest of the principal spillway, shall be a minimum of 67 cy/ac drained
  - Shape – Length to width ratio, where length is the distance between the inlet and outlet, should be greater than 2:1
  - Spillways – The combined capacities of the principal and emergency spillway shall be sufficient to pass the peak rate of runoff from a 25-year, 24-hour storm

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### Temporary Sediment Basin

Sd3



Maximum drainage not to exceed 150 acres

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### Temporary Sediment Basin

Sd3



Clean-out marker

Emergency spillway shall be present at all times

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### Temporary Sediment Trap

Sd4

- Definition
  - A small temporary pond that drains a disturbed area so that sediment can settle out
- Purpose
  - Collect and store sediment from uphill sites that have been cleared and/or graded during construction
- Effective against coarse sediment, not as effective against silt or clay particles that remain suspended
- Lacks the pipe or riser associated with a Sd3

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## Temporary Sediment Trap

Sd4

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91

**Design Criteria**

- ▣ The height of the embankment shall not exceed 5.5 ft.
- ▣ The minimum top width of the embankment is 3 ft.
- ▣ Maximum pond depth is 4 ft. as measured from the bottom to the invert of the emergency spillway
- ▣ The length to width ratio shall be greater than 2:1
- ▣ The minimum volume shall be 67 cy/ac drained
- ▣ 3 Types
  - Overflow, Combination, Rock

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## Overflow

Sd4-A

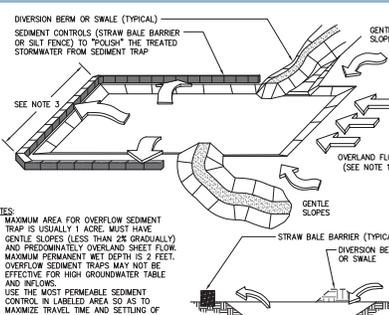
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92

Sediment controls are used to "polish" the water as it leaves the trap

The maximum life span is 6 months

Limited to small areas ≤ 1 acre



**NOTES:**

1. MAXIMUM AREA FOR OVERFLOW SEDIMENT TRAP IS USUALLY 1 ACRE. MUST HAVE GENTLE SLOPES (LESS THAN 2% GRADUALLY) AND PREDOMINANTLY OVERLAND SHEET FLOW.
2. MAXIMUM PERMANENT WET DEPTH IS 2 FEET. OVERFLOW SEDIMENT TRAPS MAY NOT BE EFFECTIVE FOR HIGH GROUNDWATER TABLE AND INFLOWS.
3. USE THE MOST PERMEABLE SEDIMENT CONTROL IN LABELED AREA SO AS TO MAXIMIZE TRAVEL TIME AND SETTLING OF SEDIMENT.

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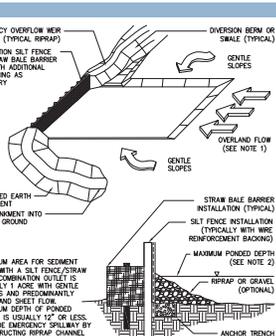
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## Combination Outlet

Sd4-B

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93



Limited to small areas ≤ 1 acre

Has a life span less than 1 year

Requires frequent maintenance and adjustments to ensure the released storm water is free of sediment

Proper installation of straw bales and wire backed silt fence are required to resist 1 foot or more of ponded water

**NOTES:**

1. MAXIMUM AREA FOR SEDIMENT TRAP WITH A SILT FENCE/STRAW BALE COMBINATION OUTLET IS USUALLY 1 ACRE WITH GENTLE SLOPES AND PREDOMINANTLY OVERLAND SHEET FLOW.
2. MAXIMUM DEPTH OF PONDED WATER IS USUALLY 12" OR LESS. PROVIDE EMERGENCY SPILLWAY BY CONSTRUCTING RIPRAP CHANNEL AS NECESSARY.

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### Rock Outlet

Sd4-C

94

The sturdiest of the 3 designs and generally requires less maintenance

For drainage areas up to 5 acres with a life span of less than 1 year

Relies on filtering through layers of aggregate, rock or riprap material

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### Temporary Sediment Trap

Sd4

95

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### Floating Surface Skimmer

Sk

96

- Definition
  - A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow
- Purpose
  - Discharge clearer water from the surface at a relatively uniform rate
  - Reduce the retention time associated with meeting a desired water quality standard for discharge

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### Floating Surface Skimmer Sk

97

- Design Criteria
  - ▣ It can replace the riser pipe as the principal spillway but **it does not replace the emergency overflow spillway**
  - ▣ Excavate a pit filled with riprap under the device to account for sediment accumulation
  - ▣ A portion of the skimmer should be visible at all times
  - ▣ Install the device according to the approved plan and manufacturer's instructions

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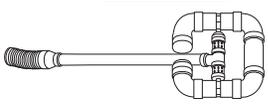
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### Typical Surface Skimmer Design Sk

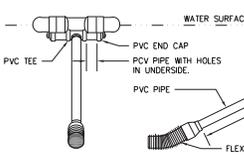
98

NOTE: SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

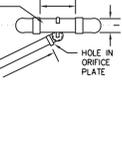
SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW



SKIMMER SIDE SECTION VIEW



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### Floating Surface Skimmer Sk

99



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### Seep Berm

SpB

100

- Definition
  - ▣ A linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration of the runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes
- Purpose
  - ▣ Allow the 2-year, 24-hour storm event to seep out while allowing larger flows to be diverted to a sediment storage area

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### Seep Berm

SpB

101

- Design Criteria
  - ▣ The berm shall have a minimum width of 12" across the top and shall not be taller than 4 ft. in height
  - ▣ 2 or more intermediate dikes in a series shall be used for drainage areas greater than 1 acre
  - ▣ The maximum spacing between the dikes should be such that the toe of the upstream dike is at the same elevation as the top of the downstream dike
  - ▣ Proper compaction and stabilization shall be utilized for fill berms

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### Seep Berm

SpB

102



Not to be used as primary sediment storage. Large flows shall be directed to sediment storage facility

Can be left in permanently to be utilized as a walking trail, etc., once construction is complete

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103

## Temporary Stream Crossing Sr

- Definition
  - A **temporary** structure installed across a flowing stream or watercourse for use by construction equipment
- Purpose
  - A means for construction equipment and vehicles to cross streams or watercourses without moving sediment into state waters, damaging the streambed, or causing flooding
  - Should not be used on streams with a drainage area greater than 1 square mile, unless specifically designed to accommodate the additional drainage by a design professional

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104

## Temporary Stream Crossing Sr

- Design Criteria
  - Structures may include bridges, round pipes, or pipe arches
  - The structure shall be large enough to convey the 2-year, 24-hour storm without appreciably altering the flow characteristics
  - The crossing shall be perpendicular to the stream
  - The structure shall be protected from washout during periods of peak discharge by diverting water around the structure
  - Should not be used by the general public

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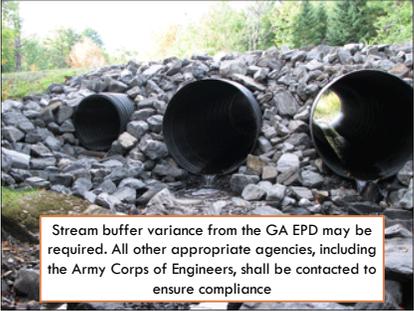
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105

## Typical Culvert Crossing Sr-C



Stream buffer variance from the GA EPD may be required. All other appropriate agencies, including the Army Corps of Engineers, shall be contacted to ensure compliance

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### Temporary Bridge Crossing Sr-B

106

Provides the least obstruction to flow and fish migration

TEMPORARY BRIDGE ABUTMENT

50'

50'

STEEL CABLE OR CHAIN ACCEPTABLE ANCHOR

SURFACE FLOW DIVERTED BY SWALE AND/OR DIKE

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### Storm Drain Outlet Protection St

107

- Definition
  - ▣ A paved and/or riprap channel section placed below storm drain outlets
- Purpose
  - ▣ Reduce the velocity of flow before entering receiving channels below storm drain outlets

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### Storm Drain Outlet Protection St

108

The apron should be located so that there are no bends in the horizontal alignment

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### Storm Drain Outlet Protection St

109



Place riprap by hand or equipment

Place geotextile between the riprap and soil base

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### Surface Roughening Su

110

- Definition
  - ▣ Providing a rough soil surface with horizontal depressions created by operating a tillage or other suitable implement on the contour
- Purpose
  - ▣ Aid in the establishment of vegetative cover with seed
  - ▣ Reduce runoff velocity and increase infiltration
  - ▣ Reduce erosion and provide for sediment trapping
- If a slope is to be stabilized with erosion control blankets, the soil surface should not be roughened

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### Surface Roughening Su

111

- Methods
  - ▣ Stair-step grading
  - ▣ Grooving
  - ▣ Tracking
- The selection of the appropriate method depends upon:
  - ▣ Slope steepness
  - ▣ Mowing requirements
  - ▣ Whether the slope was formed by cutting or filling

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### Surface Roughening

112

Su

**STAIR STEPPING CUT SLOPES**  
Creates irregularities in the soil surface

DEBRIS FROM SLOPE ABOVE IS CAUGHT BY STEPS  
Drainage  
30" - 40" MAXIMUM  
40" - 50" MAXIMUM

WATER, SOIL, AND FERTILIZER ARE HELD BY STEPS -- PLANTS CAN BECOME ESTABLISHED ON THE STEPS.

**GROOVING SLOPES**  
12"-15" Maximum  
3" Minimum

GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME COVERAGE OF LIM, FERTILIZER, AND SEED.

The step shall slope toward the vertical wall

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### Surface Roughening

113

Su

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### Surface Roughening

114

Su

**TRACKING**

Roughening with tracked machinery is not recommended on clay soils. Runoff can increase due to increased compaction

DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE.

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### Turbidity Curtain

Tc

115

- Definition
  - ▣ A floating or staked barrier installed within the water
- Purpose
  - ▣ Minimize the turbidity and silt migration from work occurring within the water
  - ▣ Supplement to perimeter control BMPs at the water's edge
- A turbidity curtain is only allowed as a primary device when required permitting and variances have been obtained

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### Turbidity Curtain

Tc

116



Staked Curtain

Water Flow

Should be oriented parallel to flow

Floating Curtain

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### Topsoiling

Tp

117

- Definition
  - ▣ The stripping off of the more fertile top soil, storing it, then spreading it over the disturbed area after completion of construction activities
- Purpose
  - ▣ Provide a suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand
- A pH range of 5.0 to 7.5 is acceptable

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**Topsoiling** Tp

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118

- Conditions
  - Recommended for sites with 2:1 or flatter slopes where:
    - The texture of the exposed subsoil or parent material is not suitable to produce adequate growth
    - The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food
    - The soil that is to be vegetated contains material that is toxic to plant growth
  - A 4"-6" stripping depth is common
  - Stockpiles shall be contain by sediment barriers and stabilized in accordance with **Ds1** and **Ds2**

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**Topsoiling** Tp

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119



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**Tree Protection** Tr

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120

- Definition
  - Protection for desirable trees from injury during construction activity
- Purpose
  - To ensure the survival of desirable trees where they will be effective for erosion and sediment control, watershed protection, landscape beautification, dust and pollution control, noise reduction, shade and other environmental benefits

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### Tree Protection

Tr

121

- Tree Protection Zone
  1. Measure the diameter of the tree trunk in inches at 4.5 ft. from the ground. This is called the Diameter Breast Height (DBH)
  2. Multiply this value by 1.5. This result is the radius of the root protection zone in feet (critical rooting distance)



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### Vegetated Waterway

Wt

122

- Definition
  - ▣ A natural or constructed channel that is shaped and graded to the required dimensions and established in suitable vegetation
- Purpose
  - ▣ Dispose of storm water runoff without causing damage either by erosion or flooding

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### Vegetated Waterway

123

- Installation Criteria
  - ▣ Remove all trees, brush, stumps, etc... so as not to interfere with the proper functioning of the waterway
  - ▣ Compact all fills to prevent unequal settlement
  - ▣ Stabilized in accordance with applicable vegetative standards
  - ▣ Please refer to the ES&PC Plan for design and channel shape

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### Vegetated Waterway

Wt

124



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### Clean-out Elevations

125

<ul style="list-style-type: none"><li>□ One-Half Full (1/2)</li><li>    □ Silt Fence</li><li>    □ Check Dam</li><li>    □ Rock Filter Dam</li><li>    □ Inlet Sediment Trap</li></ul>	<ul style="list-style-type: none"><li>□ One-Third Full (1/3)</li><li>    □ Temporary Sediment Basin</li><li>    □ Retrofit</li><li>    □ Temporary Sediment Trap</li><li>    □ Seep Berm</li></ul>
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### Summary

126

- Structural BMPs control sedimentation after erosion has happened
- Maintenance requirements are important for each BMP to maintain efficient working measures
- Structural BMPs are typically the last line of defense on site
- BMPs with a hydraulic component must be designed appropriately by a design professional
- Please see the Equivalent BMP List for additional products which may not meet generic specifications in the Manual

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127	Questions?
<p>GSWCC Urban Program P.O. Box 8024 Athens, GA 30603 (706) 552-4474</p> 	

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Insert Yellow Sheet

Back of Yellow Sheet

## STRUCTURAL BEST MANAGEMENT PRACTICES

- (Cd)** Check Dam
- (Ch)** Channel Stabilization
- (Co)** Construction Exit
- (Cr)** Construction Road Stabilization
- (Dc)** Stream Diversion Channel
- (Di)** Diversion
- (Dn1)** Temporary Downdrain Structure
- (Dn2)** Permanent Downdrain Structure
- (Fr)** Filter Ring
- (Ga)** Gabion
- (Gr)** Grade Stabilization Structure
- (Lv)** Level Spreader
- (Rd)** Rock Filter Dam
- (Re)** Retaining Wall
- (Rt)** Retrofit
- (Sd1)** Sediment Barrier
- (Sd2)** Inlet Sediment Trap
- (Sd3)** Temporary Sediment Basin
- (Sd4)** Temporary Sediment Trap
- (Sk)** Floating Surface Skimmer
- (SpB)** Seep Berm
- (Sr)** Temporary Stream Crossing

- (St)** Storm Drain Outlet Protection
- (Su)** Surface Roughening
- (Tc)** Turbidity Curtain
- (Tp)** Topsoiling
- (Tr)** Tree Protection
- (Wt)** Vegetated Waterway or Stormwater Conveyance Channel

*The products and practices presented in this Field Manual show the standard installation methods for each conventional BMP. New products and practices may not necessarily meet the requirements for each conventional BMP. Please see the Equivalent Best Management Practice List for specific manufacturer guidelines and specifications.*

**Cd**

## CHECK DAM

### DEFINITION

A small temporary barrier constructed across a swale, drainage ditch, or area of concentrated flow.



### PURPOSE

- Reduce velocity.
- Filter sediment.
- Stabilize grade.

### INSTALLATION

- Install according to the approved plan.
- Place in small, open channels, not in live streams.
- Construct center at least 9" lower than outer edges.
- Extend across entire width of ditch or swale.
- Make side slopes 2:1 or flatter.
- Toe of the upstream dam should be at the same elevation as the top of the downstream dam.
- Seed and mulch area beneath the dam after its removal.
- Check dams may be used in conjunction with other BMPs for any flows exceeding 2.0 cfs.

**Cd**

Stone Check Dams

**Cd-S**

- Drainage area not to exceed 2 acres.
- Constructed of graded size 2"-10" stone.
- The center of the check dam should be at least 9" lower than the outer edges.
- The dam height should be a maximum of 2 ft from the center to the rim edge.
- Place a suitable geotextile between the graded stone and the soil base and abutments.

### STONE CHECK DAM

#### SPACING BETWEEN CHECK DAMS

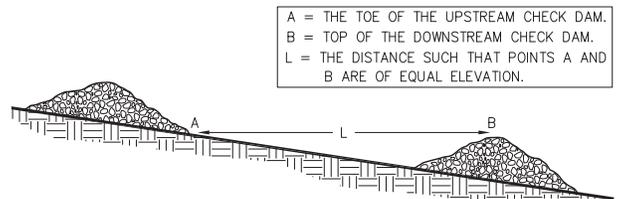


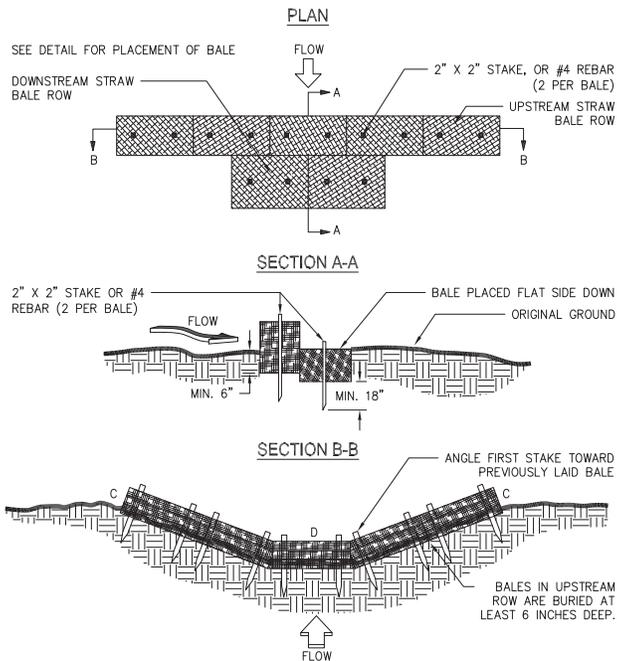
Figure 1. Stone Check Dam Spacing Requirements

Straw Bale Check Dams

**Cd-Hb**

- Drainage area not to exceed 1 acre.
- Bales should be bound with wire or nylon string.
- Bales should be placed in rows with bale ends tightly abutting the adjacent bales.
- A trench shall be dug across the channel deep enough that the wide side of the 2nd bale is level with the ground.
- Drive the standard 2x2 stakes or #4 rebar through the bales into the ground 18"-24" for anchorage. The first stake in each bale should be driven toward a previously laid bale in order to force bales together.

Cd



- NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
  3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Figure 1. Straw Bale Check Dam Installation Requirements

Compost Filter Sock **Cd-Fs**

- Drainage area not to exceed 1 acre.
- Place one stake in the filter sock at the center of the ditch/ channel.
- Place stakes at the bed/bank junction and at the end of the device not spaced more than 2 ft apart.
- Compost filter sock to be at least 18" in diameter
- Minimum staking depth is 18".
- Can be seeded at the time of installation.

Cd

COMPOST SOCKS FOR CHECK DAMS

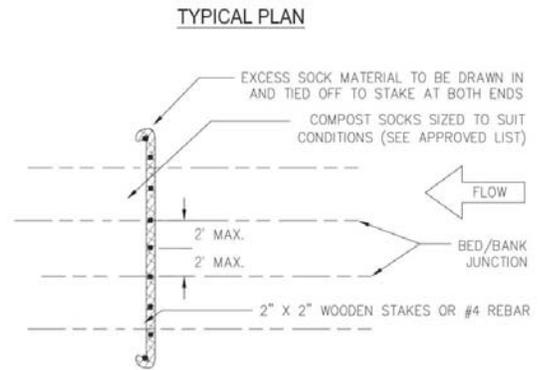


Figure 1. Compost Filter Sock Installation Requirements

**MAINTENANCE**

- Periodically inspect and maintain all structures.
- Remove sediment when it reaches a depth of one-half the original dam height.
- May remain in place permanently.

**REFERENCES**

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)

Ch

## CHANNEL STABILIZATION

### DEFINITION

Improving, constructing, or stabilizing an open channel or waterway.



### PURPOSE

- Prevent erosion and sediment deposition.
- Provide adequate capacity for flood water, drainage, or other water management practices.

### INSTALLATION

- Install according to the approved plan.
- Drainage area not to exceed one square mile.
- This applies only to channels conveying intermittent flow, not to channels conveying a continuous, live stream.

#### Category 1 ( $\leq 5$ ft/sec) Ch-1

##### Vegetative Lining

- Temporary erosion control blankets or sod shall be used to aid in the establishment of the vegetated lining.
- Hydraulic Erosion Control Products are not intended to be applied in channels, swales, or other areas where concentrated flows are anticipated.

Ch

#### Category 2 ( $\geq 5$ ft/sec to $< 10$ ft/sec)

Ch-2

##### Turf Reinforcement Matting (TRM)

- Permanent geosynthetic erosion control matting that is used in channels to stabilize the soil while permanent vegetation is rooting.

##### Rock Riprap Lining

- Slopes should be 1.5:1 or less.
- Place a filter blanket, at least 6 inches thick, of sand, gravel, and/or geotextile material between the riprap and the base material.

#### Category 3 ( $\geq 10$ ft/sec) Ch-3

##### Concrete Lining

- A separation geotextile should be placed under concrete linings to prevent undermining.
- Provide adequate outlet protection for discharge point.

##### Grade Stabilization Structure

- Constructed of concrete, rock, masonry, steel, aluminum or treated wood.
- Provide adequate outlet for discharge.
- Do not compromise the environmental integrity of the area.
- Vegetate all disturbed areas immediately.



Figure 1. Concrete Lining

**MAINTENANCE**

- Periodically inspect and maintain all structures.

**REFERENCES**

- Gr** Grade Stabilization Structure
- St** Storm Drain Outlet Protection
- Ds1** Disturbed Area Stabilization  
(With Mulching Only)
- Ds2** Disturbed Area Stabilization  
(With Temporary Seeding)
- Ds3** Disturbed Area Stabilization  
(With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization  
(With Sodding)

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## CONSTRUCTION EXIT

### DEFINITION

A stone-stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk, or parking area.



### PURPOSE

- Reduce or eliminate the transport of mud from the construction area onto public right-of-ways.

### INSTALLATION

- Install according to the approved plan.
- Use 1.5"-3.5" stone.
- Minimum pad thickness of 6".
- Minimum pad width of 20 ft.
- Minimum pad length of 50 ft.
- When the construction is less than 50 ft from the paved access, the length shall be from the edge of the existing pavement to the permitted building being constructed.
- When washing is required, conduct on an area stabilized with crushed stone and route runoff to an approved sediment trap or sediment basin.
- Place the geotextile liner the full length and width of the entrance.

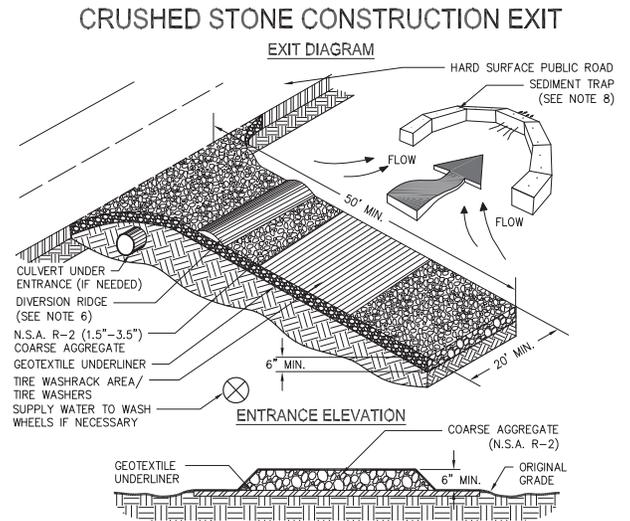


Figure 1. Crushed Stone Construction Exit Installation Requirements



Figure 2. Geotextile Underliner

### MAINTENANCE

- Periodically dress with 1.5"-3.5" stone.
- Maintain in a condition that will prevent tracking or flow of mud onto public rights-of-way.
- Immediately remove mud and debris tracked or spilled onto roadways.

Cr

## CONSTRUCTION ROAD STABILIZATION

### DEFINITION

A travel way constructed as part of a construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes.



### PURPOSE

- Provide a fixed route of travel for construction traffic.
- Reduce erosion and subsequent regrading of permanent roadbeds between time of initial grading and final stabilization.

### INSTALLATION

- Install according to the approved plan.
- Temporary roads shall follow the contours of the natural terrain to minimize disturbance of drainage patterns.
- If a temporary road must cross a stream, the crossing must be designed, installed and maintained according to specification **Sr - Temporary Stream Crossing**.
- Grades for temporary roads should not exceed 10% except for short lengths but maximum grades of 20% or more may be used for special uses.

76

Cr

- Temporary roadbeds shall be at least 14 ft wide for one-way traffic, 20 ft wide for two-way traffic. The width for two-way traffic shall be increased approximately 4 ft for trailer traffic.
- Provide a minimum shoulder width of 2 ft on each side.
- All cut and fills shall be 2:1 or flatter. Side slopes shall be no steeper than 3:1 if mowing
- Drainage channels shall be designed to be on stable grades or protected with structures or linings for stability.
- Apply geotextile to the roadbed for additional stability according to the design manual specifications.
- Apply a 6" layer of coarse aggregate immediately after grading. For "heavy-duty" traffic situations, place stone at a depth of 8"-10".
- Stabilize all roadside ditches, cuts, fills, and other disturbed areas adjacent to parking areas and roads with appropriate temporary or permanent vegetation

### MAINTENANCE

- Periodically top dress roads and parking areas with gravel to maintain the gravel depth at 6".
- Check vegetated areas periodically to ensure a good stand of vegetation is maintained.
- Remove any silt or other debris causing clogging of roadside.

### REFERENCES

- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Sr** Temporary Stream Crossing

77

Dc

## STREAM DIVERSION CHANNEL

### DEFINITION

A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed in the stream channel.



### PURPOSE

- Protect the streambed from erosion and allow work “in the dry”.

### INSTALLATION

- Install according to the approved plan.
- Drainage area shall not exceed one square mile (640 acres).
- The bottom width of the stream diversion shall be a minimum of six feet or equal to the bottom width of the existing streambed, whichever is greater.
- Side slopes of the stream diversion channel shall be no steeper than 2:1.
- Depth and grade of the channel shall be sufficient to ensure continuous flow of water in the diversion.
- The channel shall be lined to prevent erosion of the channel and sedimentation in the stream.
- The lining is selected based upon the expected velocity of bankfull flow. Please refer to Table 1.

Dc

Table 1. Stream Diversion Channel Linings

Lining Materials	Symbol	Acceptable Velocity Range
Geotextile, polyethylene film, or sod	Dc-A	0-2.5 fps
Geotextile alone	Dc-B	2.5-9.0 fps
Class I RipRap & Geotextile	Dc-C	9.0-13.0 fps

### STREAM DIVERSION CHANNEL

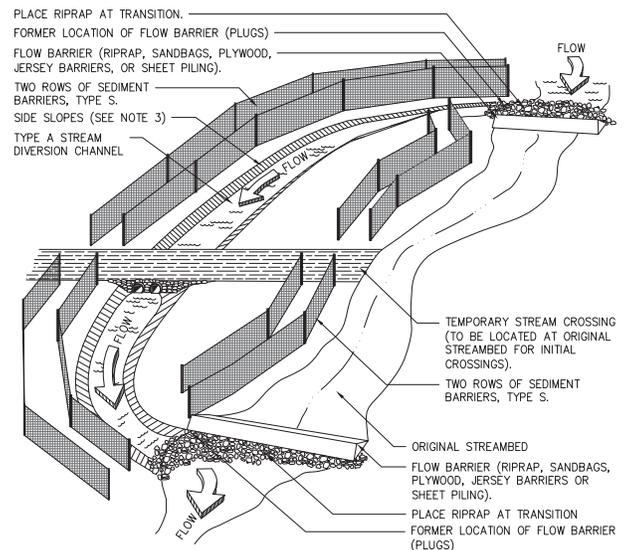


Figure 1. Stream Diversion Channel (Perspective View)

## Dc

- The channel shall be excavated, constructing plugs at both ends.
- Sediment barriers or berms shall be placed along the sides of the channel to prevent unfiltered runoff from entering the stream.
- The channel surface shall be smooth (to prevent tearing of the liner) and lined with the material specified in the plans.
- The plugs are removed when the liner installation is complete, removing the downstream plug first.
- As soon as construction in the streambed is complete, the diversion shall be replugged and backfilled.
- Upon removal of the lining, the stream shall immediately be restored and properly stabilized.
- A Stream Buffer Variance from the GA EPD may be required and all other appropriate agencies, including the U.S. Army Corps of Engineers, must be contacted to ensure compliance with other laws.

### MAINTENANCE

- Inspect the stream diversion channel at the end of each day to make sure that the construction materials are positioned securely.
- Ensure that the work area stays dry and that no construction materials float downstream.
- All repairs shall be made immediately.

### REFERENCES

Ss

Slope Stabilization

## Dc

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**Di**

## DIVERSION

### DEFINITION

A ridge of compacted soil, constructed above, across, or below a slope.



### PURPOSE

- Reduce slope lengths.
- Intercept and divert storm runoff to a stable outlet at a non-erosive velocity.

### INSTALLATION

- Install according to the approved plan.
- Remove trees, brush, stumps and other objectionable material.
- Compact all fills.
- Channel cross-section should be trapezoidal or parabolic in shape.
- Side slopes should be 2:1 or flatter.
- Excavate narrow, deep channels on steep slopes and broad, shallow channels on gentle slopes.
- Adequate outlet must be present.
- Stabilize channel and outlet with vegetation (mulch required for all seeded or sprigged channels), riprap, or concrete.
- Dispose of and/or stabilize unneeded excavated material.

**Di**

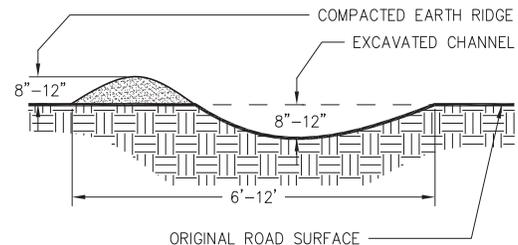


Figure 1. Typical Diversion Across Road

### MAINTENANCE

- Inspect frequently and after each rainfall and make necessary repairs.

### REFERENCES

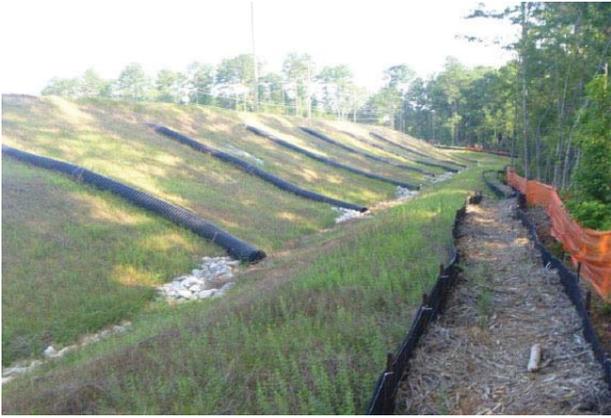
- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)
- Ch** Channel Stabilization

**Dn1**

## TEMPORARY DOWNDRAIN STRUCTURE

### DEFINITION

A temporary structure used to convey storm water down the face of cut or fill slopes.



### PURPOSE

- Transport storm runoff from one elevation to another.
- Reduce slope erosion.

### INSTALLATION

- Install according to the approved plan.
- Install heavy-duty, flexible materials such as non-perforated, corrugated plastic pipe, or specifically designed flexible tubing.
- Place on undisturbed soil or well-compacted fill.
- Slightly slope the section of pipe under the dike toward its outlet.
- Install Tee, "L" or flared end section inlet at the top of the slope.
- Slope the entrance 1/2" per foot toward outlet.
- Compact a dike ridge no less than 1 ft above the top of the pipe.
- Use reinforced, hold-down grommets or stakes to anchor the pipe at intervals not to exceed 10 ft.

**Dn1**

Table 1. Pipe Diameter for Temporary Down drain

Maximum Drainage Area per Pipe (acres)	Pipe Diameter (inches)
0.3	10
0.5	12
1.0	18

- Ensure that fill over the drain at the top of the slope meets the minimum dimensions.
- Ensure connections are watertight.
- Extend pipe beyond the toe of the slope.
- For steep slopes, drains should be placed diagonally across the slope.
- Curve the outlet uphill.
- Stabilize outlet with rock riprap. A Tee outlet, flared end section, or other suitable device may be used for additional protection.
- Direct all flows into a sediment trap if drains convey sediment-laden runoff.
- Stabilize all disturbed areas immediately.

### MAINTENANCE

- Inspect drain and diversion after every rainfall and promptly make necessary repairs.
- Remove once the protected area has been stabilized and the permanent water disposal system is fully functional.

### REFERENCES

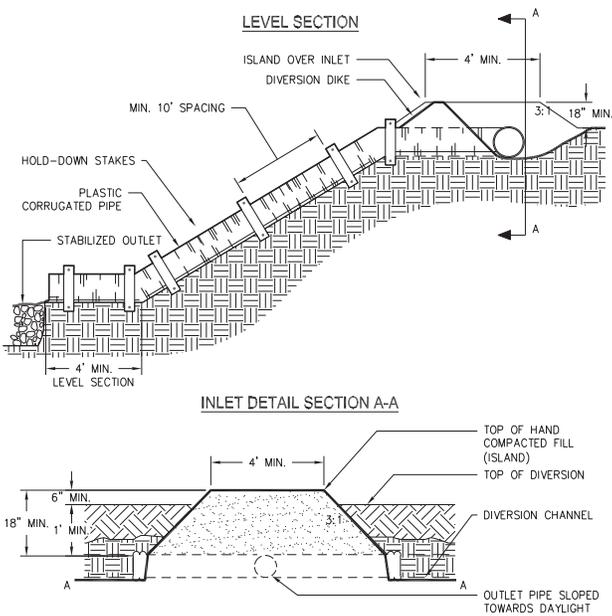
**St**

Storm Drain Outlet Protection

Dn1

Dn1

### DOWNDRAIN PIPE AND INLET DETAIL



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MAKE ALL PIPE CONNECTIONS WATERTIGHT AND SECURE SO THAT THE JOINTS WILL NOT SEPARATE IN USE.

Figure 1. Temporary Downdrain and Inlet Detail



Figure 2. Diagonally Placed Downdrain

**Dn2**

## PERMANENT DOWNDRAIN STRUCTURE

### DEFINITION

A permanent structure to safely convey surface runoff from the top of a slope to the bottom of the slope.



### PURPOSE

- Convey storm runoff safely down cut or fill slopes to minimize erosion.

### INSTALLATION

- Install according to the approved plan.
- Slopes must have sufficient grade to prevent sediment deposition.
- Stabilize outlet according to plan.
- Vegetate all disturbed areas immediately.

#### Types of Structures

- Paved flume - parabolic, rectangular, or trapezoidal cross section.
- Pipe - steel, plastic, etc.
- Sectional - a prefabricated sectional conduit of half-round or third-round pipe.

**Dn2**

### MAINTENANCE

- Inspect periodically and maintain structure after each rainfall.

### REFERENCES

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)
- St** Storm Drain Outlet Protection

Fr

## FILTER RING

### DEFINITION

A temporary stone barrier constructed at storm drain inlets and pond outlets.



### PURPOSE

- Reduce flow velocity.
- Prevent the failure of other sediment control devices.
- Prevent sediment from leaving the site or entering drainage systems.

### INSTALLATION

- Install according to the approved plan.
- Use in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate.
- Surround all sides of the structure receiving runoff from disturbed areas.
- Place the ring a minimum of 4 ft from the structure.
- If the ring is utilized above a retrofit structure, place a minimum of 8-10 ft from the retrofit.
- When utilized at inlets with diameters less than 12", the filter ring shall be constructed of stone no smaller than 3"-5" (15-30 lbs).

Fr

- When utilized at pipes with diameters greater than 12", the filter ring shall be constructed of stone no smaller than 10"-15" (50-100 lbs).
- Construct the ring at a height no less than 2 ft above grade.
- Mechanically or hand place the stone uniformly around the structure.

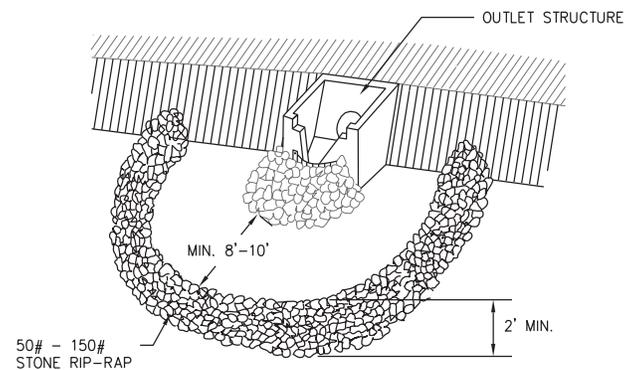


Figure 1. Filter Ring Placement

### MAINTENANCE

- Keep clear of trash and debris.
- Continuously monitor and maintain the structure.
- Remove sediment when it reaches one-half full.
- Remove structure when the project has reached final stabilization.

### REFERENCES

- (Rt) Retrofit
- (Sd3) Temporary Sediment Basin
- (St) Storm Drain Outlet Protection

**Ga**

## GABION

### DEFINITION

Large, multi-celled, welded wire or rectangular wire mesh boxes, used in channel revetments, retaining walls, abutments, check dams, etc.



### PURPOSE

- Construction of erosion control structures.
- Stabilize steep or highly erosive slopes.

### INSTALLATION

- Install according to the approved plan.
- Foundations must be smooth and level.
- Use only galvanized or PVC coated wire. For highly corrosive conditions, the PVC coating must be used over the galvanizing.
- Set individual baskets into place, wire them together in courses, and fill with rock to form flexible monolithic building blocks.
- Rock should be durable and adequately sized (typically 4"-8") to be retained in the baskets.
- Hand-pack the basket in order to completely fill.
- "Key" structure securely into foundations and abutment surfaces.
- Geotextiles should be used behind all gabion structures.

**Ga**

### MAINTENANCE

- Periodically inspect for signs of undercutting or excessive erosion at transition areas.
- Make any necessary repairs immediately.

Gr

## GRADE STABILIZATION STRUCTURE

### DEFINITION

A structure to stabilize the grade in natural or artificial channels.



### PURPOSE

- Stabilize the grade in natural or artificial channels.
- Prevent the formation or advancement of gullies.
- Reduce erosion and sediment pollution.

### INSTALLATION

- Install according to the approved plan.
- Construct with concrete, rock, masonry, steel, aluminum, or treated wood or by soil bioengineering methods.
- Dewater excavations prior to filling.
- Construct embankment with a minimum top width of 10 ft and side slopes of 3:1 or flatter.
- Construct materials in 6"-8" horizontal lifts
- Place structure on compacted earth-fill. Compact fill to approximately 95% of standard density.
- Construct keyway 8 or more ft wide and 2 ft deep along centerline of the structure and embankment.
- Provide adequate outlet for discharge.

Gr

- Place geotextile, such as revetment mats and riprap, under stabilization structure.
- Apply protective cover immediately after completion of the structure.
- Vegetate all disturbed areas immediately.
- All appropriate agencies, including the GAEPD & U.S. Army Corps of Engineers, must be contacted to ensure compliance with other Laws.

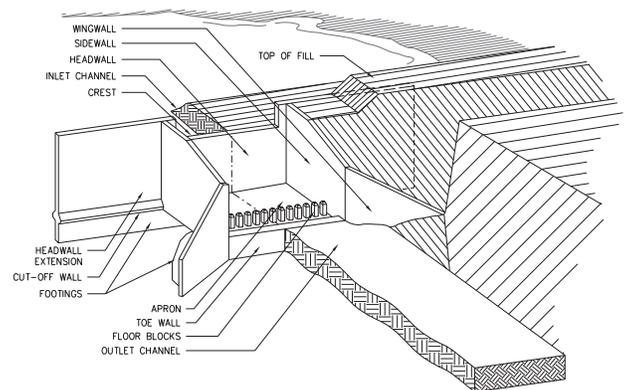


Figure 1. Straight Drop Spillway Structure

### MAINTENANCE

- Periodically inspect and maintain all structures.

### REFERENCES

- St** Storm Drain Outlet Protection
- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)

Lv

## LEVEL SPREADER

### DEFINITION

A storm flow outlet device constructed at zero grade across the slope whereby concentrated runoff may be discharged at non-erosive velocities onto undisturbed areas stabilized by existing vegetation.



### PURPOSE

- Dissipate storm flow energy at the outlet.
- Convert storm runoff into sheet flow.
- Discharge storm runoff onto areas stabilized by existing vegetation.

### INSTALLATION

- Install according to the approved plan.
- Grade the channel no greater than 1% for the last 15 ft of the dike or diversion.
- Construct on undisturbed soil that is stabilized with vegetation.
- Minimum width of 6 ft.
- The depth of the level spreader from the lip shall be a minimum of 6".
- The depth shall be uniform across the entire length.

96

Lv

- Construct level lip at 0% grade.
- Discharge converted sheet flow onto undisturbed stabilized areas.
- Provide a smooth outlet.
- Prevent water from concentrating below point of discharge.
- Vegetate all disturbed areas immediately.

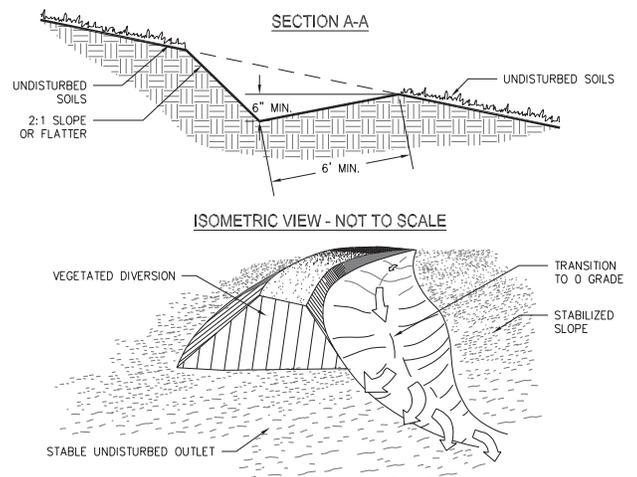


Figure 1. Level Spreader Installation Requirements

### MAINTENANCE

- Periodically inspect and maintain all structures.

### REFERENCES

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)

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Rd

## ROCK FILTER DAM

Rd

### DEFINITION

A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.



### PURPOSE

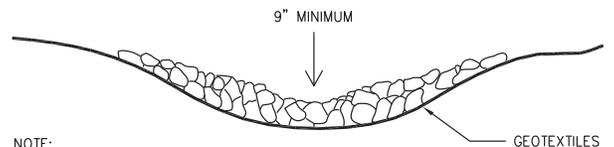
- Serve as a sediment filtering device.
- Reduce velocity of stormwater flow through a channel.
- Not intended to substantially impound water.

### INSTALLATION

- Install according to the approved plan.
- The drainage area shall not exceed 50 acres.
- Must be used in conjunction with other appropriate sediment control measures.
- The dam should be located as close to the source of sediment as possible.
- The dam should not be higher than the channel banks or exceed the elevation of the upstream property line.
- The center of the dam should be at least 9" lower than the outer edges of the dam at the channel banks.

98

- Side slopes should be 2:1 or flatter.
- The width across the top should be 6 ft. or greater.
- Refer to plan for stone size.
- Geotextiles should be used as a separator between the graded stone, soil base, and abutments.
- Extend completely across the channel and securely tie into both channel banks.
- All other appropriate agencies, including the GAEPD & U.S. Army Corps of Engineers, must be contacted to ensure compliance with other Laws.



NOTE:  
ROCK FILTER DAM IS TO BE CLEANED  
OUT WHEN VOLUME BECOMES HALF FULL.

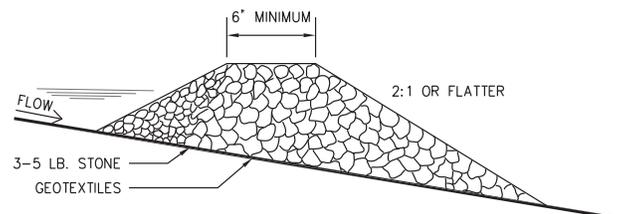


Figure 1. Rock Filter Dam Installation Requirements

### MAINTENANCE

- Periodically inspect and maintain all structures.
- Remove sediment when it reaches a depth of one-half of the original height of the dam.
- Remove once disturbed areas have been stabilized.

99

Re

## RETAINING WALL

Re

### DEFINITION

A constructed wall of one or more of the following: concrete masonry, reinforced concrete cribbing, treated timbers, steel pilings, gabions, stone drywall, rock riprap, etc.



### PURPOSE

- Assist in stabilizing cut or fill slopes where stable slopes are not obtainable without the use of a wall.

### INSTALLATION

- Retaining walls require a specific design that is within the capabilities of the design professional.
- Many factors must be taken into account during the design process.
- Close supervision is required to ensure proper installation.
- Depending on the Local Issuing Authority's ordinance, a design professional certificate may be required prior to construction.

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Rt

## RETROFIT

### DEFINITION

A device or structure placed in front of a permanent stormwater detention pond outlet or roadway drainage structure to serve as a temporary sediment filter.



### PURPOSE

- Allows a permanent stormwater detention basin structure to function as a temporary sediment retention basins.
- Allows a roadway drainage structure to be used for temporary sediment storage.

### INSTALLATION

- Install according to the approved plan.
- Prohibited in basins on live streams.
- The height of the retrofit should be approximately one-half the height of structure.

Rt-P

#### Perforated Half-Round Pipe with Stone Filter

- Drainage area shall not exceed 30 acres.
- Never use on exposed pipe end or winged headwall.
- Diameter of half-round pipe should be 1.5x the diameter of the principal pipe outlet or wider than the greatest width of the concrete weir.

Rt

- Shall be affixed by means to the concrete outlet structure.

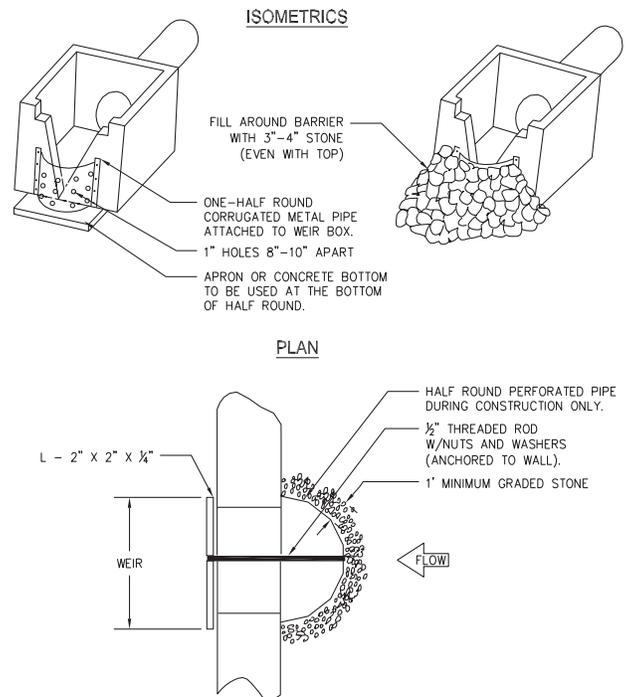


Figure 1. Perforated Half-Round Pipe Retrofit with Stone Filter.



Figure 2. Affixed to Concrete Structure

Rt



Figure 3. Slotted Board Dam

Slotted Board Dam with Stone **Rt-B**

- For use in detention ponds with drainage areas up to 100 acres and on roadway drainage structures with a drainage area of 30 acres or less.
- Can be used with open end pipe outlets, winged headwalls, or concrete weir outlets.
- Install with minimum 4x4" posts.
- Install boards with a 0.5"-1.0" space between them.
- Install a minimum of 3"-4" stone or approved filter fabric around the upstream side of the board dam.

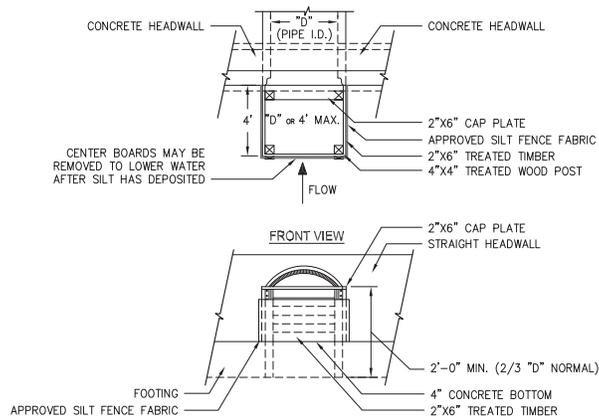


Figure 3. Slotted Board Dam Installation Requirements  
104

Rt

Silt Control Gate **Rt-Sg**

- Use only on roadway drainage structures with the following structures: winged headwalls, tapered headwalls, straight headwalls, open end pipes, flared end sections.
- Drainage area shall not exceed 50 acres and the disturbed area of the basin shall not exceed 5 acres.
- Use 4"x4" treated posts & 2"x6" treated face boards with no spacing between the boards.
- Fasten an approved silt fence fabric to the front of the structure with staples or nails.

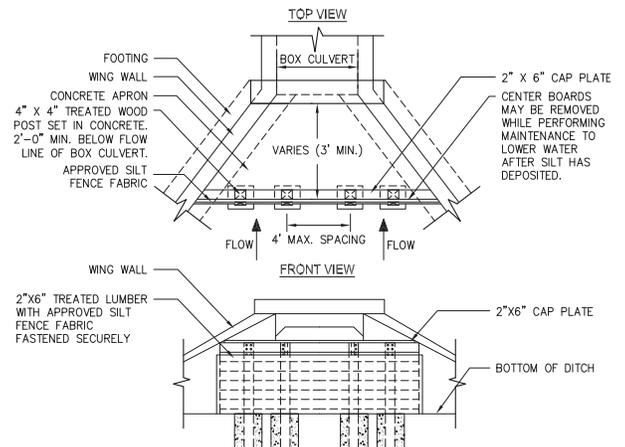


Figure 3. Silt Control Gate Installation Requirements

**MAINTENANCE**

- Clean-out when one-third sediment storage capacity is lost. Indicate this elevation with a mark on the outlet structure or a post inserted in the pond.
- Remove all trash and debris.
- Remove retrofit and accumulated sediment when the project is completed.
- Stabilize all disturbed areas immediately with permanent vegetation.

Sd1

## SEDIMENT BARRIER

### DEFINITION

A temporary structure made up of porous material typically supported by steel or wood posts. Types include silt fence, brush piles, mulch berms, compost filter socks or other filtering material.



### PURPOSE

- Minimize and prevent sediment carried by sheet flow from leaving the site.
- Retain the sediment on the disturbed area.
- Filter sediment from runoff.

### INSTALLATION

- Install according to the approved plan.
- Do not install across streams, ditches, waterways, or other concentrated flow areas.
- The type of sediment barrier depends on whether the area is sensitive or non-sensitive.
- For silt fence, Type C will be classified as sensitive and Type A & B will be classified as non-sensitive.
- Install along the contour.
- Along all state waters and other sensitive areas, 2 rows of Type S shall be used. The 2 rows shall be placed a minimum of 36" apart.

Sd1

- Overlap barriers 18" when using multiple types of sediment barriers in a single run on a site.
- When storing runoff behind the sediment barrier, the maximum continuous slope length behind the sediment barrier shall not exceed those found in Table 1.
- Provide a riprap splash pad or other protection device at any point where flow may overtop the sediment barrier.

### Installation Methods

#### Static Slicing Method

- Using a machine, pull a narrow blade through the ground to create a 12" deep slit, and simultaneously insert the silt fence fabric into the slit behind the blade.
- Roll a tractor wheel along both sides of the slit in the ground 2-4 times to achieve compaction
- Drive posts 18" into ground and attach fabric.



Figure 1. Static Slicing Machine

#### Trenching Method

- Dig a 2"-6" wide trench with a 6" excavation.
- Drive posts 18" into ground and attach fabric.
- The best trenching method typically requires triple the time and effort to achieve results comparable to the static slicing method.

**Sd1**

Sensitive Areas

**Sd1-S**

Sediment barriers being used as Type S shall have a support spacing of no greater than 4 ft on center, with each being driven into the ground a minimum of 18".

Type C Silt Fence

- 36" wide with wire reinforcement or equivalent backing
- To be used where runoff velocities are particularly high or where slopes exceed a vertical height of 10 ft.

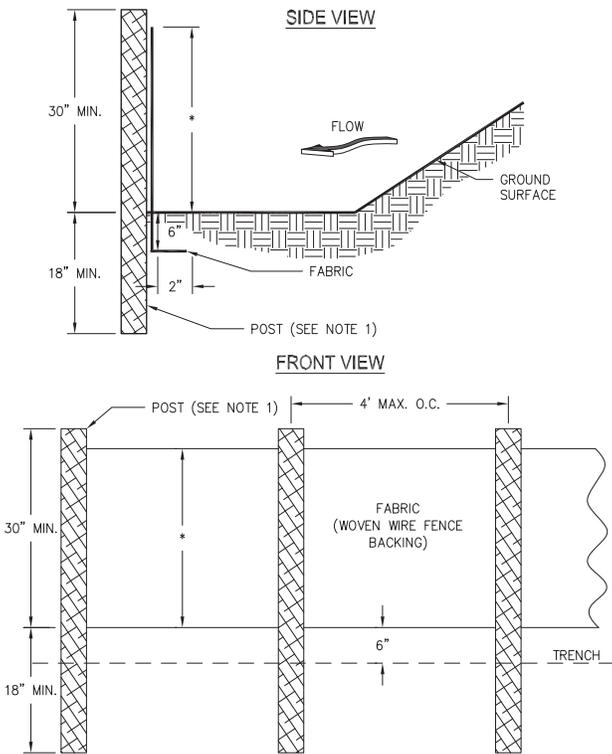


Figure 1. Type "C" Silt Fence

**Sd1**

**Sd1-NS**

Non-Sensitive Areas

Sediment barriers being used as Type NS shall have a support spacing of no greater than 6 ft on center, with each being driven into the ground a minimum of 18".

Type A Silt Fence

- 36" wide fabric
- To be used where the life of the project is greater than or equal to 6 months.

Type B Silt Fence

- 22" wide fabric
- Limit to use on minor projects, such as residential home sites or small commercial developments where permanent stabilization will be achieved in less than 6 months.
- Same flow rate as Type A.

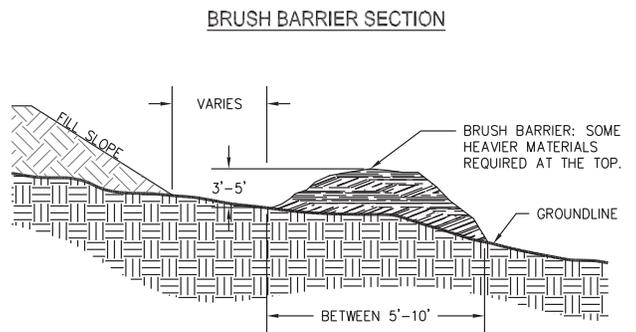


Figure 1. Brush Barrier (Sd1-BB)

Brush Barrier (only during timber clearing)

- Intermingle brush so as not to form a solid dam.
- Should be wind-rowed on the contour as nearly as possible.
- Minimum base width is 5 ft and should be no wider than 10 ft.
- The height should be between 3-5 ft.

**Sd1**

**Sd1**

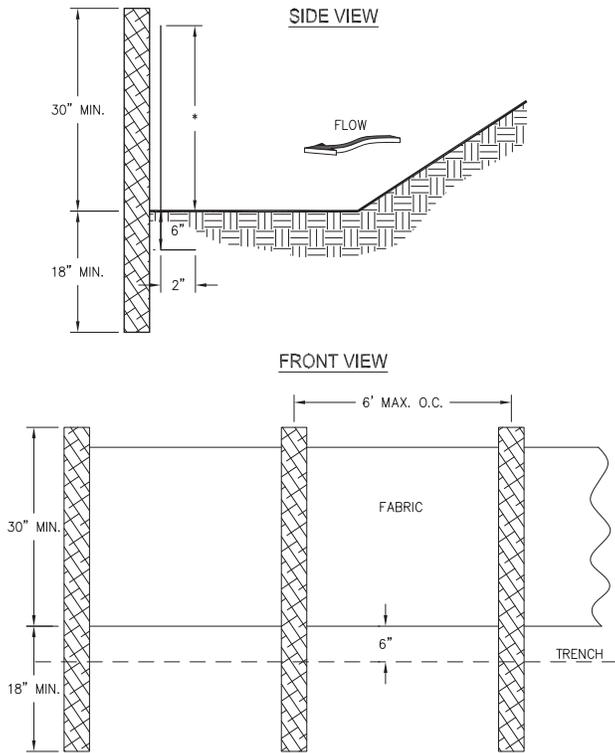


Figure 2. Type "A" & "B" Silt Fence

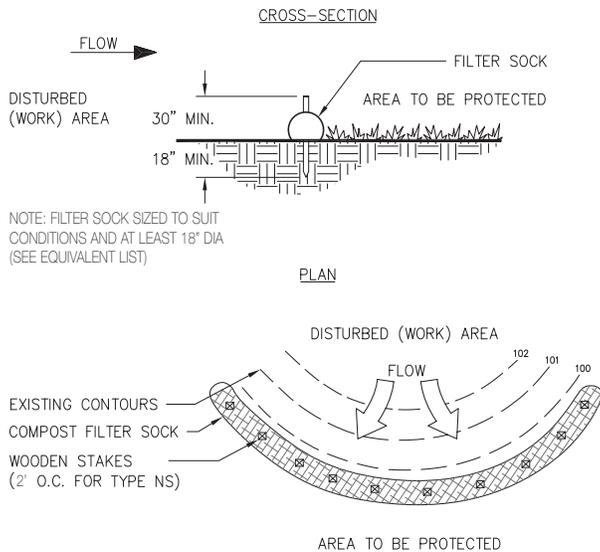


Figure 3. Compost Filter Sock - Type "B"

Table 1. Criteria for Sediment Barrier Placement

Land Slope (%)	Maximum Slope Length Behind Fence (ft)
<2	100
2-5	75
5-10	50
10-20	25
>20	15

**MAINTENANCE**

- Remove the sediment once it has accumulated to one-half the original height of the barrier.
- Replace barrier whenever it has deteriorated to such an extent that the effectiveness of the product is reduced (~ 6 months) or the height of the product is not maintaining 80% of its properly installed height.
- Remove and dispose of all accumulated sediment at the barrier before it is removed.
- Leave in place until all disturbed areas are permanently stabilized.

Table 2. Post Size

Type	Min. Length	Type of Post	Size of Post
NS	4'	Oak Steel Soft Wood	1.5"x1.5" 1.15lb/ft min 3" or 2"x4"
S	4'	Oak Steel	2"x2" 1.15lb/ft. min

Figure 1. Thomas Carpenter, CPESC, Carpenter Erosion Control.

**Sd2**

## INLET SEDIMENT TRAP

### DEFINITION

A temporary protective device formed at or around an inlet to a storm drain to trap sediment.



### PURPOSE

- Prevent sediment from entering a storm drainage system prior to permanent stabilization of the disturbed area draining to the inlet.

### INSTALLATION

- Install according to the approved plan.
- Do not install on paved surfaces where safety is a concern.
- Sediment traps must be self-draining unless otherwise protected.
- Install at or around all storm drain drop inlets that receive runoff from disturbed areas.
- Construct on natural ground surface, excavated surface, or on machine compacted fill.

#### Excavated Sediment Traps

- An excavation created around the inlet to provide additional sediment storage.
- Provide a minimum depth of 1.5 ft for sediment storage.
- The side slopes shall not be steeper than 2:1.
- The drainage area entering the trap shall be no greater than 1 acre.

**Sd2**

### Filter Fabric with Supporting Frame

**Sd2-F**

- Applicable where the inlet drains a relatively flat area (<5% slope).
- Use Type S steel posts.
- Space stakes evenly around perimeter at a maximum of 3 ft apart.
- Drive stakes into the ground ~18" deep.
- The fabric shall be 36" tall and entrenched at least 12" and backfill with crushed stone or compacted soil.
- Securely fasten the fabric and wire to the posts.

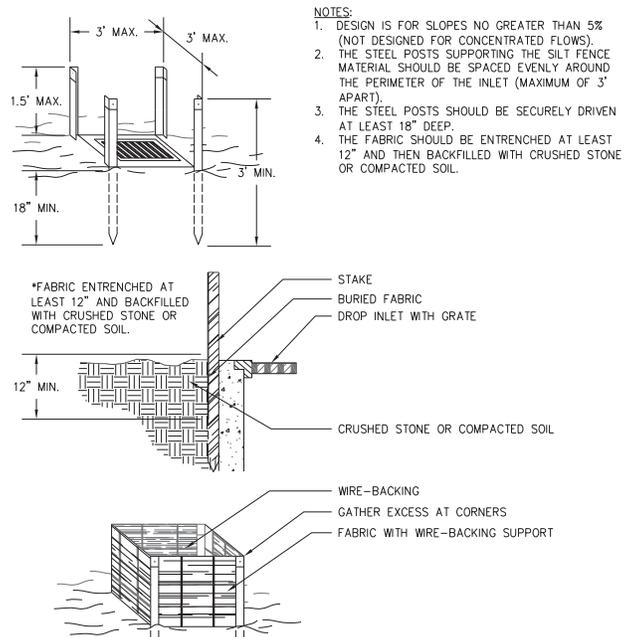


Figure 1. Filter Fabric with Supporting Frame Installation Requirements (Sd2-F)

### Block and Gravel Drop Inlet Protection

**Sd2-Bg**

- Applicable where heavy flows are expected and an overflow capacity is necessary to prevent excessive ponding.

**Sd2**

- Excavate foundation at least 2" below the crest of the storm drain.
- On each side of the structure, place one block in the bottom row on its side to allow pool drainage.
- Place the bottom row of blocks against the edge of the storm drain.
- Add support by placing 2"x4" wood studs through block openings.
- Fit hardware cloth or wire mesh with 1/2" openings over all block openings to hold gravel in place.
- Place clean gravel 2" below the top of the block on a 2:1 or flatter slope and smooth it to an even grade.
- GADOT #57 stone is recommended.

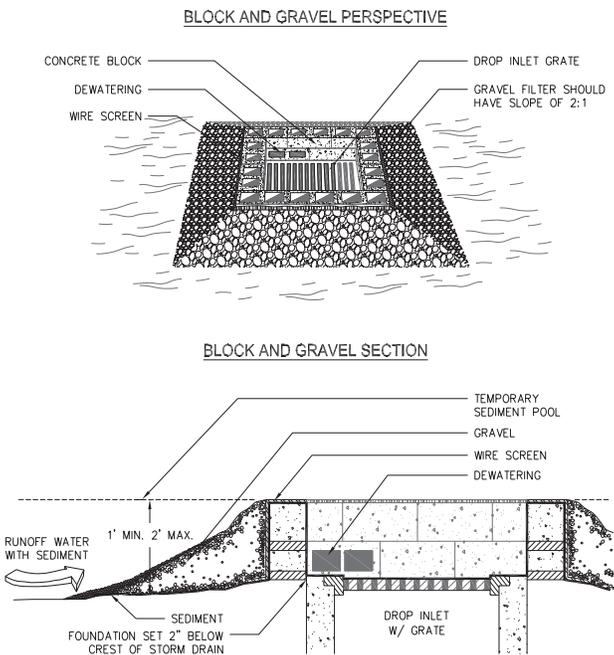


Figure 2. Block and Gravel Drop Inlet Protection Installation Requirements (Sd2-Bg)

**Sd2**

**Sd2-B**

Baffle Box

- Applicable for inlets receiving a higher volume or velocity.
- Construct 2"x4" boards spaced a maximum of 1" apart OR of plywood with weep holes 2" in diameter.
- Place weep holes ~6" on center vertically or horizontally.
- Place gravel outside of the box and around the inlet at a depth of 2-4".
- Wrap entire box in Type C filter fabric and trench at a depth of 12".

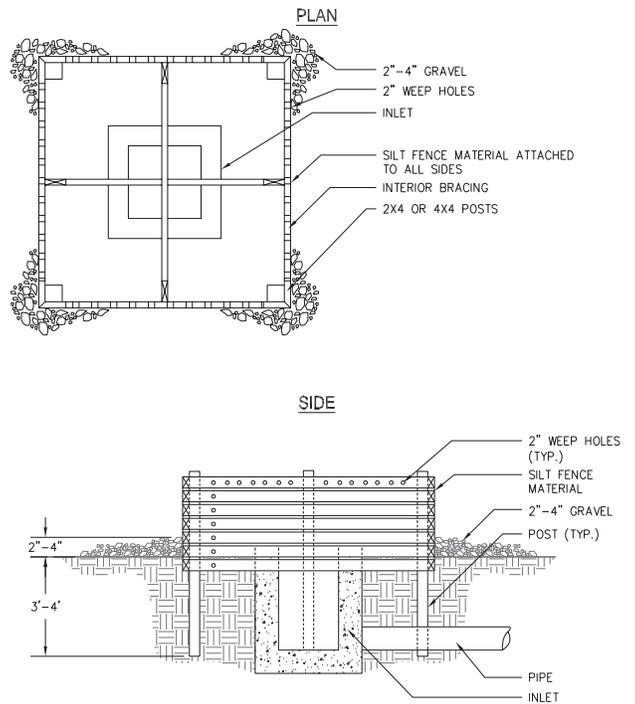


Figure 3. Baffle Box Installation Requirements (Sd2-B)

**Sd2-G**

Gravel Drop Inlet Protection

- Applicable where heavy concentrated flows are expected.
- 3:1 or flatter slope toward the inlet.

**Sd2**

- Leave a minimum 1 ft wide level stone area between the structure and the inlet to prevent gravel from entering the inlet.
- Place stone 3" in diameter or larger on the slope toward the inlet.
- Place 1/2" to 3/4" gravel on the slope away from the inlet at a minimum thickness of 1 foot.

**Sd2-S**

Sod Inlet Protection

- Applicable only at the time of permanent seeding in order to protect the inlet from sediment and mulch material.
- Place the sod to form a turf mat covering the soil for a distance of 4 ft from each side of the inlet.
- Stagger sod strips so that adjacent ends are not aligned.

SOD STRIPS PROTECT INLET AREA FROM EROSION  
(SOURCE: VA SWCC)

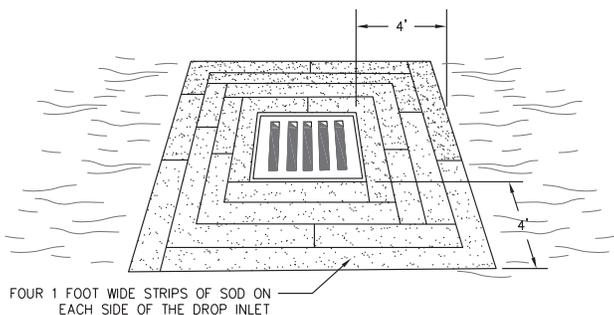


Figure 4. Sod Inlet Protection Installation Requirements (Sd2-S)

Curb Inlet Protection **Sd2-P**

- Applicable once pavement has been installed.
- The method of inlet protection shall be removed if a safety hazard is created.

**Sd2**

- For the “pigs-in-a-blanket” method, wrap 8” concrete blocks in filter fabric and span across catch basin inlet.
- Face openings in blocks outward.
- Leave a gap of ~4” between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway.
- Another method uses gravel bags constructed by wrapping GADOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

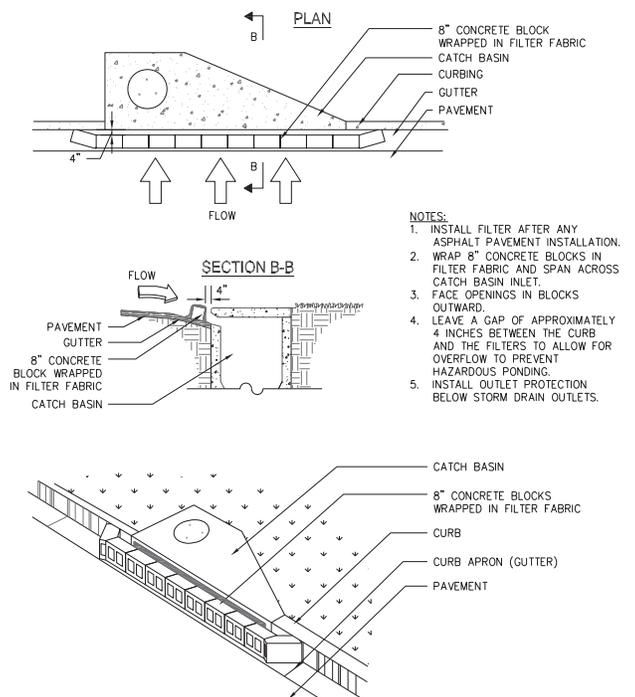


Figure 5. Curb Inlet Protection Installation Requirements (Sd2-P)

**Sd2**

**Sd2**

## MAINTENANCE

- Inspect, clear, and/or repair trap at the end of each working day.
- Do not remove inlet protection and wash sediment into the inlet.
- Remove sediment when accumulation has reached one-half the height of the trap.
- Remove sediment from curb inlet protection immediately.
- Remove all materials and any sediment once the contributing drainage area has been permanently stabilized.
- Appropriately stabilize all disturbed areas around the inlet.

## REFERENCES

**Ds4**

Disturbed Area Stabilization  
(With Sodding)

**Sd1**

Sediment Barrier

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Sd3

## TEMPORARY SEDIMENT BASIN

Sd3

### DEFINITION

A basin created by the construction of a barrier or dam across a concentrated flow area, or by excavating a basin, or by a combination of both.



### PURPOSE

- Detain runoff waters and trap sediment from erodible areas.
- Protect properties and drainage ways below the installation from damage by excessive sedimentation and debris.

### INSTALLATION

- Construct all basins according to the approved plan unless modified by the design professional.
- Remove all trees, vegetation, roots, and other objectionable material.

#### Location

- Never place basin in a live stream.
- Storm drains should discharge into the basin.
- Install on sites where (1) failure will not result in loss of life or interruption of use or service of public utilities and (2) the drainage area does not exceed 150 acres.

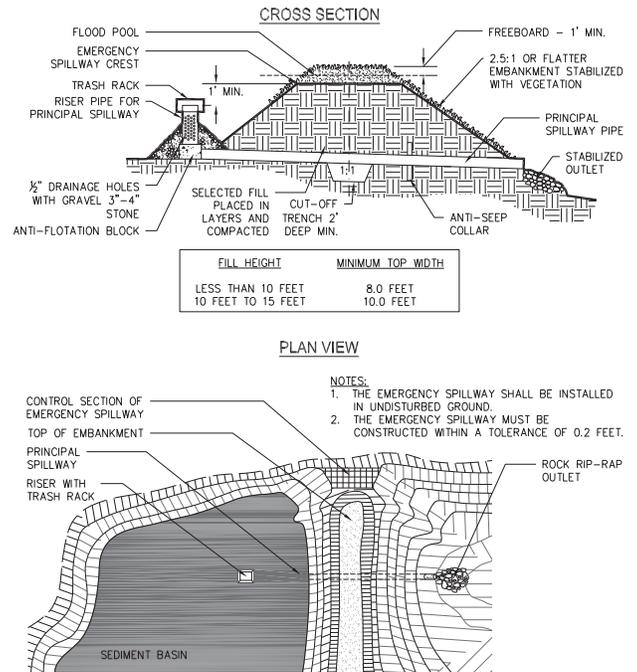


Figure 1. Components of a Typical Temporary Sediment Basin

#### Shape

- Length to width ratio shall be greater than 2:1
- The basin should be wedge shaped with the inlet at the narrow end.
- Install baffles and diversions when necessary.

#### Principal Spillway

- Join vertical pipe or box type riser to a pipe that extends through the embankment and exits beyond the downstream toe of the fill.
- The crest elevation of the riser should be 1 ft below the elevation of the control section of the emergency spillway.
- The riser and all pipe connections shall be completely watertight.
- Install pipe with a minimum diameter of 8".

**Sd3**

- If using the conventional method for dewatering a sediment basin, Perforate lower half of riser with 1/2" holes spaced approximately 3", and cover with 2 ft of 3"-4" stone.
- If constructing the basin with a skimmer outlet, please refer to the specification **Sk - Floating Surface Skimmer**.
- Install a trash rack and anti-vortex device securely on top of the riser.
- Attach riser to the base with a watertight connection. Embed riser 9" into an 18" thick concrete base.
- Provide an adequate outlet that allows discharge in an erosion free manner.
- Place the fill material around the the pipe spillway in 4" layers and compact to at least the same density as the adjacent embankment.
- A minimum depth of 2 ft of hand compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.

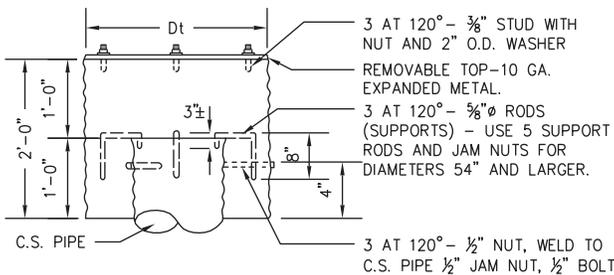


Figure 2. Typical Sediment Basin Trash Rack

**Emergency Spillway**

- Construct on undisturbed ground (not fill).
- Excavate a trapezoidal channel with minimum bottom width of 8 ft.

**Sd3**

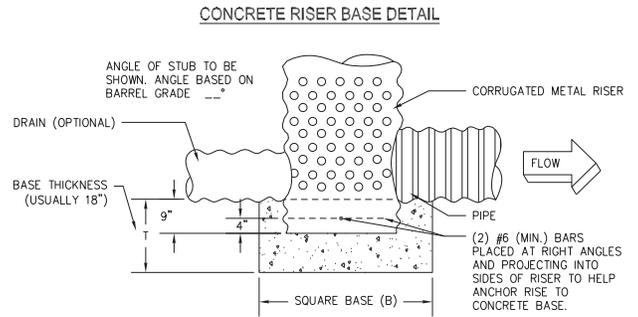


Figure 3. Concrete Riser Base Detail

- Construct a channel with a straight control section of at least 20 ft in length and a straight outlet section that is at least 25 ft in length.
- Stabilize with vegetation, asphalt, riprap or concrete.

**Entrance of Runoff into Basin**

- Install dikes, swales, or other water control devices to direct runoff into the basin.
- Locate points of entry as far away from the riser as possible.

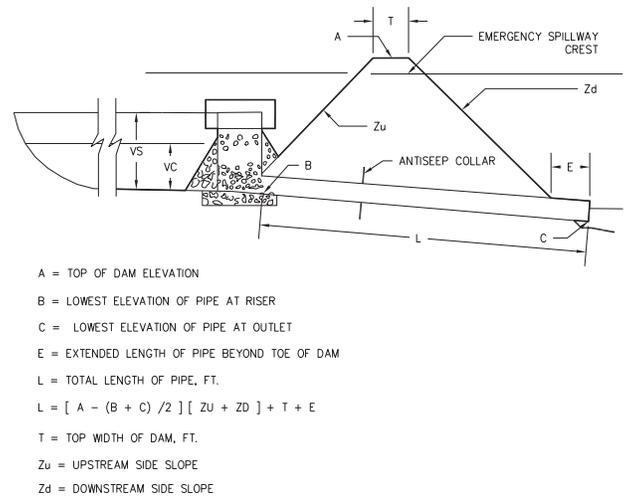


Figure 4. Principle Spillway

**Sd3**

- Stabilize the embankment and all other disturbed areas in accordance with the appropriate permanent vegetative measure, Ds3, immediately following construction.



Figure 5. Clean-out marker

Cut-off Trench

- Excavate a cut-off trench with a minimum depth of 2 ft along the center-line of the earth-fill embankment.
- Extend both abutments up to the riser crest with a minimum bottom width of 4 ft in order to permit operation of compaction equipment.
- Side slopes shall be no steeper than 1:1

Embankment

- Place fill material in 6"-8" thick continuous layers over entire length of fill.
- Construct the embankment to an elevation 5% higher than the design height to allow for settlement.
- Fill material shall be free of rocks, woody vegetation, oversized stones, rocks, etc.

Table 1. Dam Width Requirements

Fill Height (ft)	Minimum Top Width (ft)
<10	8
10-15	10

**Sd3**

**MAINTENANCE**

- Repair all damages caused by soil erosion or construction equipment at or before the end of each working day.
- Remove sediment from the basin when one-third of the storage volume has been lost to accumulation.
- Do not allow sediment to enter adjacent streams or drainage ways during the sediment removal process.
- Do not deposit sediment downstream from the embankment, adjacent to a stream or floodplain.
- Dispose of all temporary structures when they have served their intended purpose and the contributing drainage basin has been properly stabilized.

**REFERENCES**

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)
- Ch** Channel Stabilization
- Sk** Floating Surface Skimmer
- St** Storm Drain Outlet Protection

**Sd4**

## TEMPORARY SEDIMENT TRAP

### DEFINITION

A small temporary pond that drains a disturbed area so that sediment can settle out.



### PURPOSE

- Collect and store sediment from uphill sites cleared and/or graded during construction.
- For use on small tributary areas with no unusual drainage features.

### INSTALLATION

- Install according to the approved plan.
- Sediment traps are effective against coarse sediment, but not against silt or clay particles.
- The maximum drainage area is 5 acres depending on the type of installation.
- The maximum depth of a trap is 4 ft as measured from the bottom of the trap to the invert of the emergency spillway.
- Ensure the length to width ratio is great than 2:1.
- The height of the embankment shall not exceed 5.5 ft from the downstream toe to the top of the berm. The top width shall be at least 3 ft.
- Slopes shall not exceed 2:1.

**Sd4**

- Construct side slopes 3:1 or flatter to allow people and equipment to enter the trap.

### Methods

#### Overflow Outlet

**Sd4-A**

- Limited to small drainage areas less than 1 acre with gentle slopes(1-2%).
- The maximum life span is 6 months.
- Silt fence, straw bale barriers or grass filter strips are used to “polish” the overflow water as it leaves the sediment trap.

#### Combination Outlet

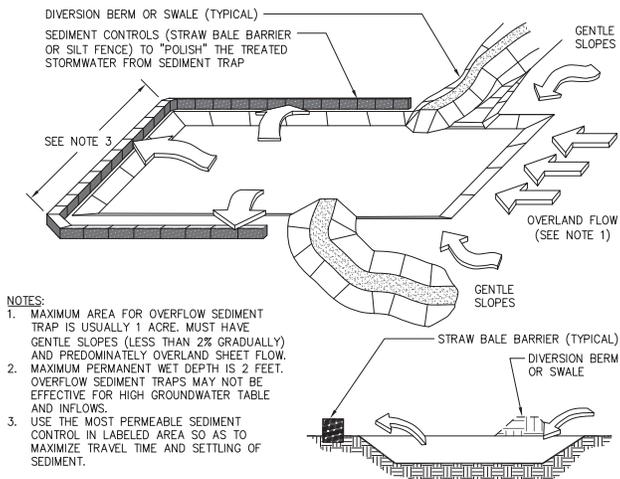
**Sd4-B**

- A combination of straw bales and silt fence are used to dewater the trap.
- Properly install and stake the straw bales and ensure the silt fence has a wire backing so that the materials can resist 1 ft or more of ponded water.
- The maximum drainage area is 1 acre.
- The life span is less than 1 year.
- Requires frequent maintenance and adjustments.

#### Rock Outlet

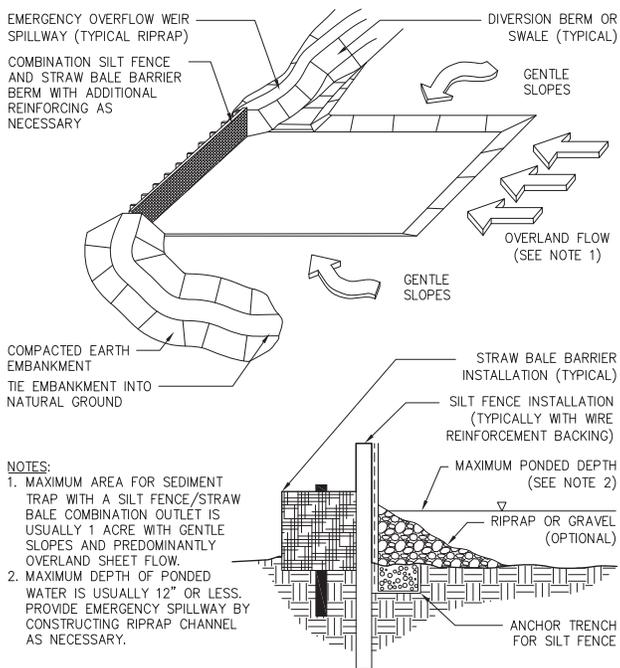
**Sd4-C**

- This type relies on filtering through layers of aggregate, rock or riprap material to dewater the sediment trap.
- This is the sturdiest design of the three and requires less maintenance.
- The maximum drainage area is 5 acres.
- The life span is typically 1 year.



- NOTES:
1. MAXIMUM AREA FOR OVERFLOW SEDIMENT TRAP IS USUALLY 1 ACRE. MUST HAVE GENTLE SLOPES (LESS THAN 2% GRADUALLY) AND PREDOMINATELY OVERLAND SHEET FLOW. MAXIMUM PERMANENT WET DEPTH IS 2 FEET. OVERFLOW SEDIMENT TRAPS MAY NOT BE EFFECTIVE FOR HIGH GROUNDWATER TABLE AND INFLOWS.
  2. USE THE MOST PERMEABLE SEDIMENT CONTROL IN LABELED AREA SO AS TO MAXIMIZE TRAVEL TIME AND SETTLING OF SEDIMENT.

Figure 1. Overflow Outlet



- NOTES:
1. MAXIMUM AREA FOR SEDIMENT TRAP WITH A SILT FENCE/STRAW BALE COMBINATION OUTLET IS USUALLY 1 ACRE WITH GENTLE SLOPES AND PREDOMINATELY OVERLAND SHEET FLOW.
  2. MAXIMUM DEPTH OF PONDED WATER IS USUALLY 12" OR LESS. PROVIDE EMERGENCY SPILLWAY BY CONSTRUCTING RIPRAP CHANNEL AS NECESSARY.

Figure 2. Combination Outlet

### Emergency Spillway

- Stabilize with rock, geotextile, vegetation, or another suitable material that is resistant to erosion.
- Must be able to convey the 10-year storm event.

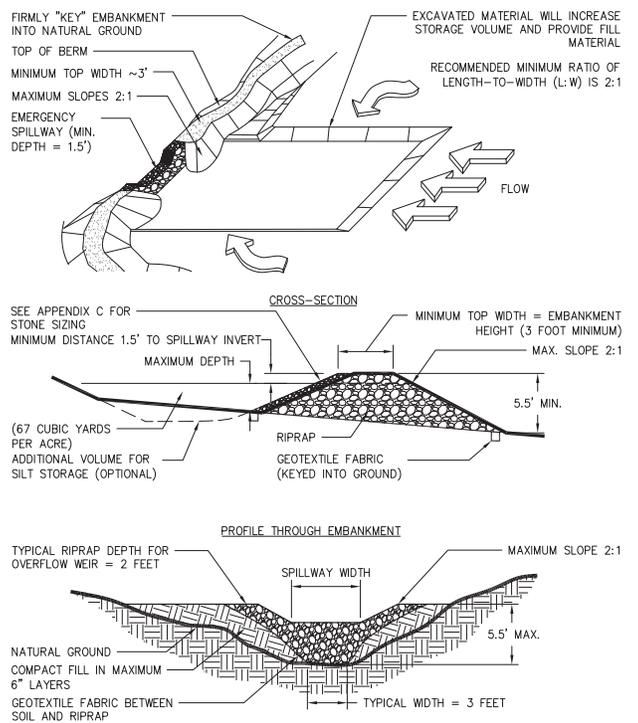


Figure 3. Rock Outlet

### MAINTENANCE

- Repair all damages caused by soil erosion or construction equipment at or before the end of each working day.
- The cleanout volume for a temporary sediment trap is one-third of the total storage volume.

Sk

## FLOATING SURFACE SKIMMER

### DEFINITION

A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.



### PURPOSE

- Discharge clearer water from the surface of a sediment pond, trap, or basin at relatively uniform rate.
- Reduce the retention time associated with meeting a desired water quality standard for discharge from a sediment pond, trap or basin.

### INSTALLATION

- Install according to the approved plan.
- It can replace the riser pipe as the principal spillway, but does **not** replace the emergency spillway.
- A portion of the skimmer must be visible above the water surface at all times.
- Excavate a pit filled with riprap under the floating surface skimmer to account for sediment accumulation around the device.
- At a minimum, the pit has dimensions of 4x4 ft with a minimum depth of 2 ft.

Sk

- Ensure the pit is lower than the invert of the outlet barrel from the riser.
- Use floating surface skimmers constructed of PVC (Schedule 40 or greater) or other appropriate materials.
- Install the device according to the approved plan and manufacturer’s instructions.

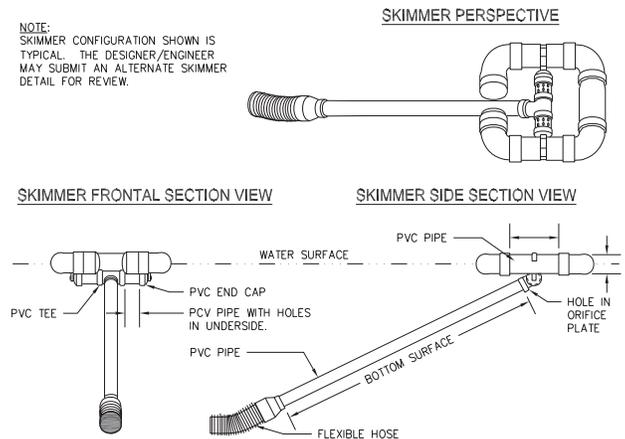


Figure 1. “Typical” Skimmer Design

### MAINTENANCE

- Inspect Floating Surface Skimmers together with the Sediment Basin (Sd3) inspections.
- Inspect for any structural damage, clogging, or excessive sediment accumulation.
- Install trash guard to prevent larger debris from entering the skimmer and cause internal blocking.
- Use a floatable maintenance rope to remove trash and debris that accumulates on the outside of the trash guard.
- Free the skimmer from being stuck in the mud at the bottom of the basin to allow for normal operation.

**DEFINITION**

A linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.



**PURPOSE**

- Allows the 2 year, 24-hour storm to seep out while allowing larger flows to be diverted to a sediment storage area.

**INSTALLATION**

- Install according to the approved plan.
- Install where runoff can be stored behind the seep berm without damaging the berm or submerged area behind the intermediate dike points.
- Do not use above fill slopes that have not achieved permanent stabilization.
- Do not install across streams, ditches, or waterways.
- The top of the berm shall have a minimum width of 12” and a height of 4 ft.

- Maximum spacing between the dikes should be such that the toe of the upstream dike is at the same elevation as the top of the downstream dike.
- Install clean out markers at each intermediate dike using a sediment storage calculation.
- Compact the earthen berm by using a skid-loader with a full bucket, tracking with a dozer and applying pressure with the bucket, or rubber tired backhoe.
- Compaction must meet a minimum of 90% standard proctor density test.
- Apply seed at 70% germination or better prior to other land disturbing activities taking place.

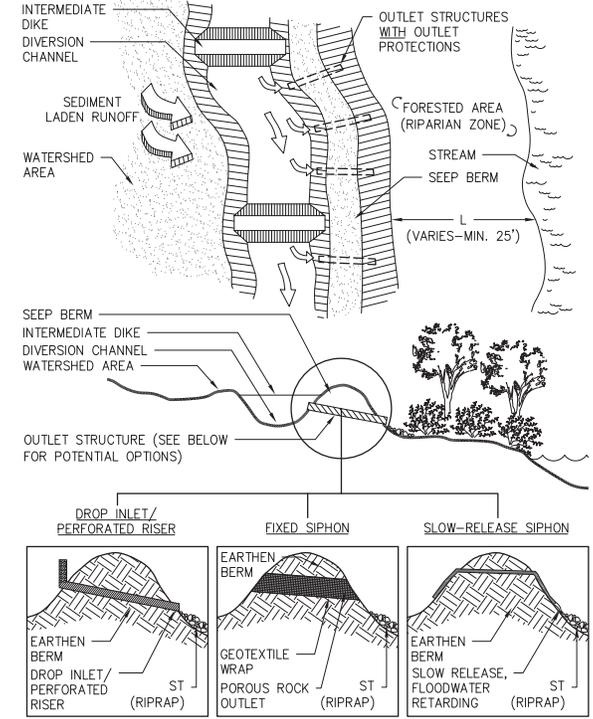


Figure 1. “Typical” Seep Berm System

**SpB**

- Seeps can be placed 3 different ways:
  - During the construction of the berm,
  - After construction has been completed, excavate at the location of the seeps, place in the trench and back-fill. Compact the berm to finalize,
  - After construction has been completed, using a steel pipe with a conical end, insert pipes through the berm.

### MAINTENANCE

- Inspect the dam from the seep and supporting berm after every 1/2" or greater rainfall.
- Make any repairs promptly.
- Remove sediment when it has accumulated to one-third the height of the intermediate dike.

**SpB**

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Sr

## TEMPORARY STREAM CROSSING

### DEFINITION

A temporary structure installed across a flowing stream or watercourse for use by construction equipment.



### PURPOSE

- Provide a means for construction vehicles to cross streams or watercourses without moving sediment into streams, damaging the streambed or channel, or causing flooding.

### INSTALLATION

- Install according to the approved plan.
- The drainage area is not to exceed one square mile, unless specifically designed to accommodate the additional drainage area by the design professional.
- Structures include bridges, round pipes, or pipe arches.
- Do not allow for use by the general public.
- Install perpendicular to the stream. The crossing may vary 15° from the perpendicular.
- Divert all surface water from the construction site onto undisturbed areas adjoining the stream.

Sr

- Convey full bank flow of stream without appreciably altering the stream flow characteristics.
- Washout protection may include elevation of bridges above adjacent flood plain lands, crowning of fills over pipes, or the use of diversions, dikes or island type structures.
- A Stream Buffer Variance from the GA EPD may be required and all other appropriate agencies, including the U.S. Army Corps of Engineers, must be contacted to ensure compliance with other laws.

### Types of Stream Crossings

#### Temporary Bridge Crossing

Sr-B

- This method causes the least amount of erosion of the stream channel.
- Provides the least obstruction to flow and fish migration.
- Construct at or above the bank elevation to prevent entrapment of floating materials.
- Place abutments parallel to and on stable banks.
- Construct the bridge to span the entire channel. Install a footing, pier, or bridge support if the span exceeds 8 ft.
- Securely anchor the bridge at one end with a steel cable or chain, large trees, large boulders, or driven steel anchors.

#### Temporary Culvert Crossing

Sr-C

- The most common stream crossing design.
- Can be easily constructed and enables heavy equipment loads to be used.
- Creates the greatest obstruction to stream flows and are subject to blockages.

## Sr

- Install the invert elevation of the culvert on the natural streambed grade.
- Extend the culvert(s) a minimum of 1 ft beyond the upstream and downstream toe of the aggregate placed around the culvert.
- Do not exceed 40 ft in length of the culvert.
- Cover the culvert(s) with a minimum of 1 ft of aggregate.
- If using multiple culverts, separate them with compacted aggregate fill by a minimum of 12 in.

Table 1. Pipe Diameters for Stream Crossings  
(in)

Drainage		Average Slope of Watershed			
		1%	4%	8%	16%
Acres					
1-25		24	24	30	30
26-50		24	30	36	36
51-100		30	36	42	48
101-150		30	42	48	48
151-200		36	42	48	54
201-250		36	48	54	54
251-300		36	48	54	60
301-350		42	48	60	60
351-400		42	54	60	60
401-450		42	54	60	72
451-500		42	54	60	72
501-550		48	60	60	72
551-600		48	60	60	72
601-640		48	60	72	72

## Sr

### MAINTENANCE

- Inspect structure after every rainfall and at least once a week.
- Repair all damages immediately.
- Remove the structure immediately after construction is finished.
- Stabilize the streambed and banks.

### REFERENCES

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)
- Bf** Buffer Zone

## STORM DRAIN OUTLET PROTECTION

### DEFINITION

Paved and/or riprapped channel sections placed below storm drain outlets.



### PURPOSE

- Reduce the velocity of flow before entering receiving channels below storm drain outlets.

### INSTALLATION

- Install according to the approved plan.
- The apron may be lined with riprap, grouted riprap, or concrete.
- Compact any fill required in the subgrade to the density of the surrounding undisturbed material.
- Ensure that the riprap and gravel filter conform to the specified grading limits on the plan.
- Install geotextile between the riprap and the soil base.
- Protect the geotextile from punching or tears during installation. Overlap connecting joints a minimum of 1 ft.
- The minimum thickness of the riprap should be 1.5x the maximum stone diameter.
- Place riprap by hand or equipment. Be careful to avoid damaging the filter fabric.

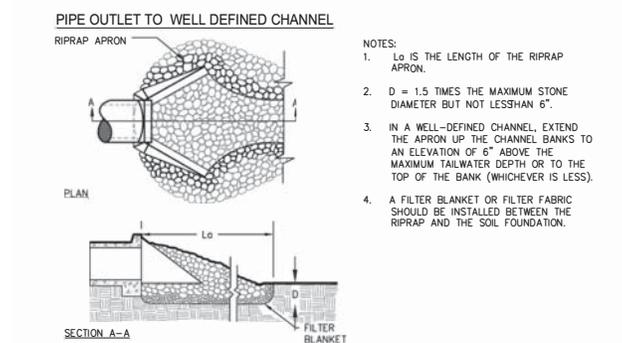


Figure 1. Outlet Protection for a Well-Defined Channel

- Construct the apron on zero grade with no overfall at the end. Ensure the top of the riprap at the downstream end is level with the receiving area or slightly below it.
- Place any necessary curves in the upper section of the apron.
- Ensure the apron is properly aligned and preferably straight throughout its length.
- Stabilize all disturbed areas after construction.

#### Apron Width for a Well-Defined Channel

- Side slopes of the channel shall be no steeper than 2:1.
- Extend the apron across the channel bottom.
- Extend the apron up the channel banks to an elevation one foot above the maximum tailwater depth or to the top of the bank (whichever is less).

#### Apron Width for a Flat Area

- The upstream end of the apron shall have a width 3x the diameter of the outlet pipe.
- For a Minimum Tailwater Condition, the downstream end of the apron shall have a width equal to the pipe diameter plus the length of the apron.

- For a Maximum Tailwater Condition, the downstream end shall have a width equal to the pipe diameter plus 0.4x the length of the apron.

PIPE OUTLET TO FLAT AREA – NO WELL DEFINED CHANNEL

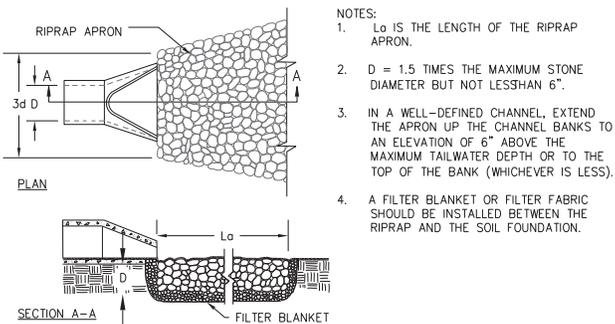


Figure 2. Outlet Protection for a Flat Area

## MAINTENANCE

- Inspect riprap outlet structures after heavy rain events to see if any erosion has taken place around or below the riprap.
- Make all needed repairs immediately to prevent further damage.

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Su

## SURFACE ROUGHENING

### DEFINITION

Providing a rough soil surface with horizontal depressions created by operating a tillage or other suitable implement on the contour.



### PURPOSE

- Aid in the establishment of vegetative cover with seed.
- Reduce runoff velocity and increase infiltration.
- Reduce erosion and provide for sediment trapping.

### INSTALLATION

- Conduct according to the approved plan.
- Required on all slopes steeper than 3:1 if they are to be stabilized with vegetation.
- If slope is to be stabilized with matting and blankets, the surface should not be roughened.
- Not required on slopes with a stable rock face.
- Lightly roughen and loosen soil to a depth of 2"-4" on slopes 3:1 or flatter.
- Areas that will be mowed should have slopes less than 3:1.
- Groove or maintain roughness of fill slopes steeper than 3:1.

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Su

- Stair-step grade or groove cut slopes steeper than 3:1.

### Roughening Methods

#### Stair-Step Grading

- May be carried out on any material soft enough to be ripped with a bulldozer.
- Particularly good for slopes with soft rock and some subsoil.
- The ratio of the vertical cut distance to the horizontal distance shall be less than 1:1.
- Horizontal portion of the "step" shall slope toward the vertical wall.

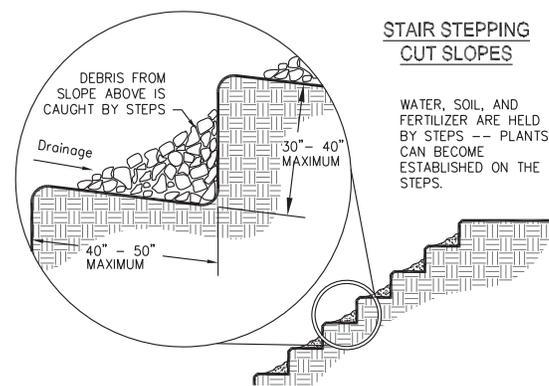


Figure 1. Stair-Stepping Cut Slopes

- Individual vertical cuts are not to exceed 30" on soft materials and not more than 40" in rocky materials.

#### Grooving

- Use discs, tillers, spring harrows, or the teeth on a front-end loader.
- On un-mowed slopes, minimum groove depth of 3" and maximum groove spacing of 15".
- On mowed slopes, minimum depth of 1" and maximum groove spacing of 12".

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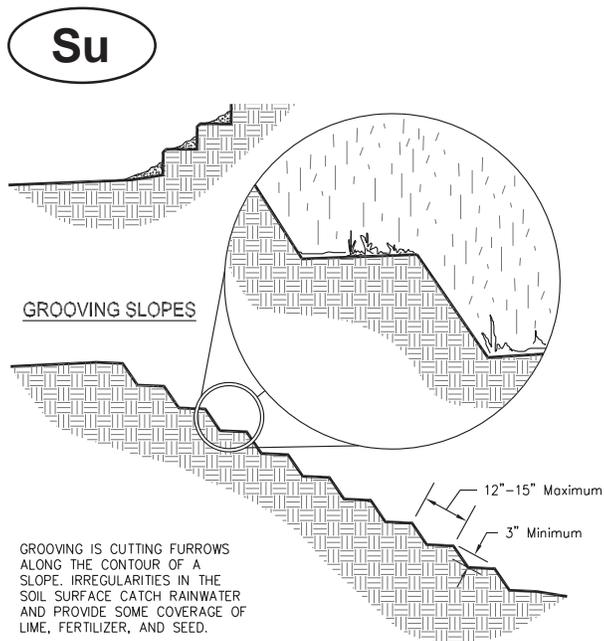


Figure 2. Grooving Slopes

### Tracking

- Not recommended on clayed soils unless no alternatives are available.
- Sandy soils may be tracked because they do not compact severely.
- Minimize machine passes to minimize compaction.
- Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and growth.

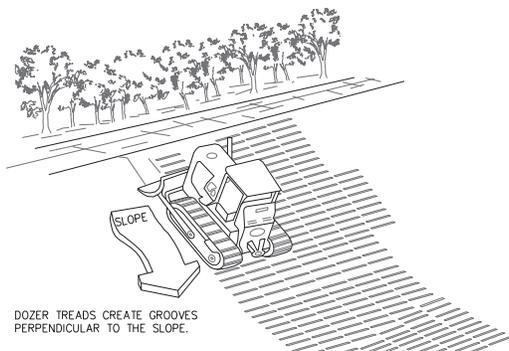


Figure 3. Tracking

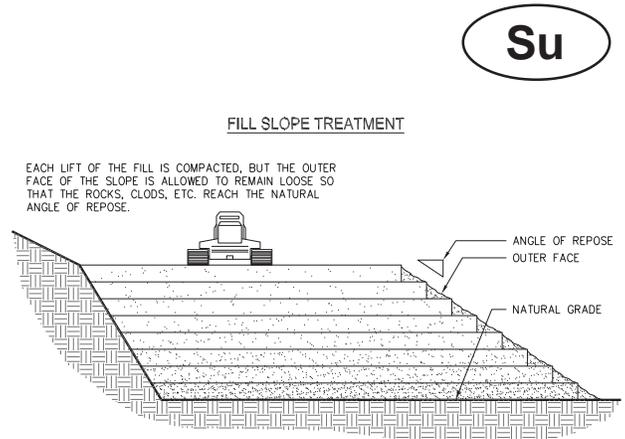


Figure 4. Fill Slope Treatment

## REFERENCES

- Ds1** Disturbed Area Stabilization (With Mulching Only)
- Ds2** Disturbed Area Stabilization (With Temporary Seeding)
- Ds3** Disturbed Area Stabilization (With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization (With Sodding)

Tc

# TURBIDITY CURTAIN

Tc

## DEFINITION

A floating or staked barrier installed within the water.



## PURPOSE

- Minimize turbidity and silt migration from work occurring within the water or as a supplement to perimeter control BMPs at the water's edge.
- Allow suspended particles to drop out of the water column over time.

## INSTALLATION

- Install according to the approved plan.
- This practice is only allowed as a primary device when required permitting has been obtained for the site that approves the filling of State or U.S. waters.
- A Stream Buffer Variance from the GA EPD may be required and all other appropriate agencies, including the U.S. Army Corps of Engineers, must be contacted to ensure compliance with other laws.
- Not to be used as sediment storage.

- The installation of a turbidity curtain as a supplemental BMP is allowed provided the stream or other water “body” is not altered in any manner by the installation.
- Place barrier approximately 25 ft outside of the affected construction area for large water bodies.
- Place barrier parallel to flow whenever there is significant velocity or current in the body of water.
- Never allow the silt dispersion to exceed the allowances the filling permit has authorized.
- Installation dimensions and methods shall be fitted to the conditions, permitted activity, and construction methods.

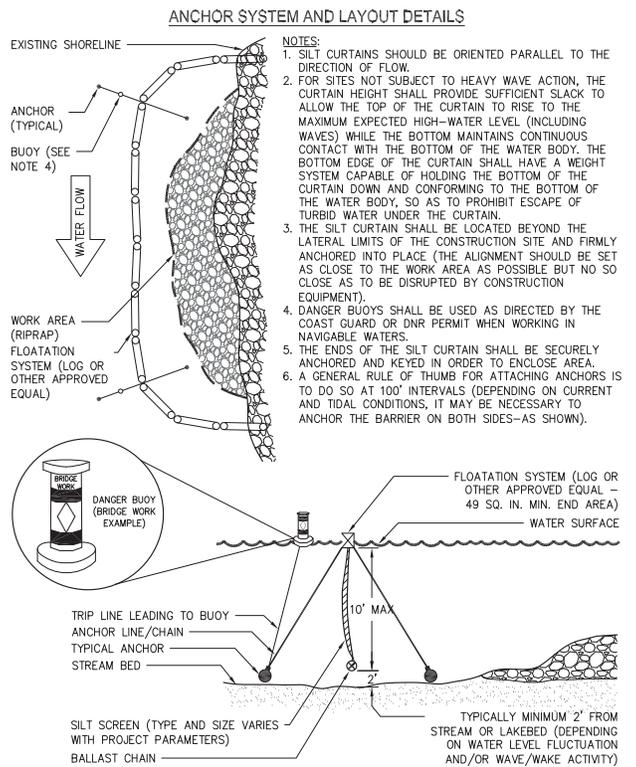


Figure 1. Turbidity Curtain System

**Tc**

**Tc**

### Installation Types

#### Floating Turbidity Curtain

**Tc-F**

- Typical installation include large bodies of water such as rivers and lakes.
- Extend curtain to a depth of 5 ft from the bottom of the water body.

#### Staked Turbidity Curtain

**Tc-S**

- Typical installations include shallow inundations where construction is required.
- Extend the barrier to the bottom of the streambed.
- Limit the height to 5 ft whenever possible and extend 2 ft above the normal water elevation.

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## **MAINTENANCE**

- Remove the curtain when it is no longer required.
- Carefully remove any sediment that exceeds the allowance of the filling permit.
- If using Tc as a supplemental BMP, it should be removed once the contributing drainage area reaches final stabilization and perimeter control removal has occurred.

**Top**

## TOPSOILING

### DEFINITION

The stripping off of the fertile topsoil, storing it, then spreading it over the disturbed area after the completion of construction activities.



### PURPOSE

- Provide a suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand.

### SPECIFICATIONS

- Recommended for sites with slopes 2:1 or flatter where:
  - (1) the texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth.
  - (2) the soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food.
  - (3) the soil to be vegetated contains material toxic to plant growth.
- Topsoil should be friable and loamy, free of debris, objectionable weed and stones, and contain no toxic substance that may be harmful to plant growth.

**Top**

- A stripping depth of 4"-6" is common and should be confined to the immediate construction area.
- Stockpiles should not obstruct natural drainage or cause off-site environmental damage.
- Stockpiles shall be contained by sediment barriers and stabilized with temporary vegetative measures.
- Where the pH of the subsoil is 5.0 or less or composed of heavy clays, agricultural lime shall be spread at a rate of 100lbs/1000 sq.ft.
- Subsoil shall be loosened by discing or scarifying to a minimum depth of 3" to permit bonding of the topsoil to the subsoil. Tracking by a bulldozer is also adequate.
- Topsoil should be applied at a uniform depth of 5" (unsettled), but may be adjusted at the discretion of the design professional.
- Topsoil should be handled only when dry in order to prevent damaging the soil structure.

Table 1. Cubic Yards of Topsoil Required for Application to Various Depths

Depth (in.)	Per 1,000 Sq. Ft.	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

Tr

# TREE PROTECTION

Tr

## DEFINITION

The protection of desirable trees from injury during construction activity.



## PURPOSE

- Ensure the survival of desirable trees where they will be effective for erosion and sediment control, watershed protection, landscape beautification, dust and pollution control, noise reduction, shade and other environmental benefits while the land is being converted.

## SPECIFICATIONS

- Contact the local government to obtain information regarding tree ordinances BEFORE ES&PC plans are designed.

### Tree Protection Zones

- (1) Measure the diameter of the tree trunk in inches 4.5 ft from the ground. This is the Diameter Breast Height (DBH).
- (2) Multiply this value by 1.5. This result is the radius of the root protection zone in ft Also considered the critical rooting distance.

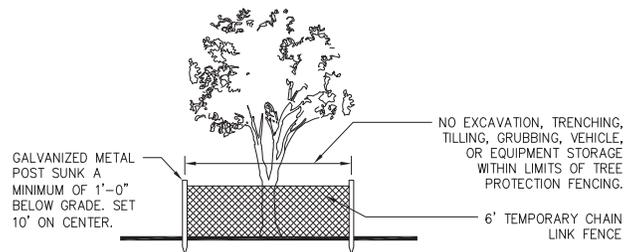


Figure 1. Chain Link Fence Installation

### Tree Protection Zone Fencing

Tree protection zone fencing may be one of the following:

- For areas of large remnant forest to be protected, use 4 ft high orange plastic fabric fencing stapled in 3 locations to 2x4 treated wood stakes. Set stakes 6 ft on center. Do not use rebar as stakes.
- For single family homes use a treated wood fencing. It may have orange fabric attached to it.
- For all other developments use 6 ft high chain link fencing attached to galvanized metal post.

\*Please refer to the American National Standard(ANSI) or the International Society of Arboriculture for more information regarding standards for adequate tree protection.

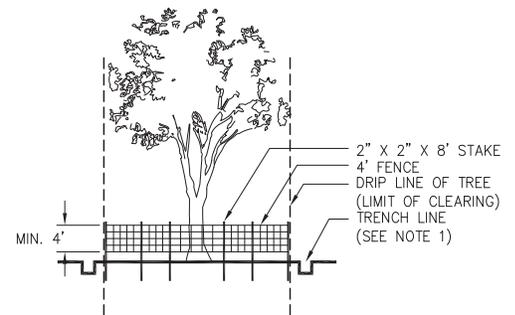


Figure 2. "Snow" Fence Installation

**Wt**

## VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL

### DEFINITION

A natural or constructed channel that is shaped or graded to required dimensions and established in suitable vegetation for the stable conveyance of runoff.



### PURPOSE

- Dispose of runoff without causing damage either by erosion or flooding.

### INSTALLATION

- Install according to the approved plan.
- Remove all trees, brush, stumps, obstructions and other objectionable material so as not to interfere with the proper functioning of the waterway.
- Ensure the channel is free of bank projections or other irregularities that will impede normal flow.
- Compact fills as needed to prevent unequal settlement.
- Dispose of all excess earth fill so that it will not interfere with waterway functioning.
- Stabilize the channel in accordance with applicable vegetative standards.

**Wt**

- Channel shape may be parabolic, trapezoidal, or triangular.
- The bottom width shall not exceed 50 ft unless multiple or divided waterways or other means are provided to control meandering of low flows within this limit.
- Please refer to Table 1 for design velocities of the grassed waterways.

Table 1. Permissible Velocities for Vegetated and Rock-Lined Waterways

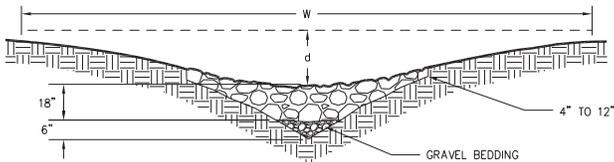
Vegetative Cover	Maximum Permissible Velocity (fps)
Bermuda	5
Bahia	4
Tall Fescue	4
Sericea Lespedeza Weeping Lovegrass	3
Stone Center	Design Required

- Tile or other subsurface drainage measure shall be provided for sites having high water tables or seepage problems. Where there is base flow, a stone center or lined channel will be required.
- Mulching is required for all seeded or sprigged channels.
- Geotextiles should be used as an erosion control measure beneath the riprap center.
- If conditions permit, water should be temporarily diverted from the channel, or otherwise disposed of, during the establishment of vegetation.

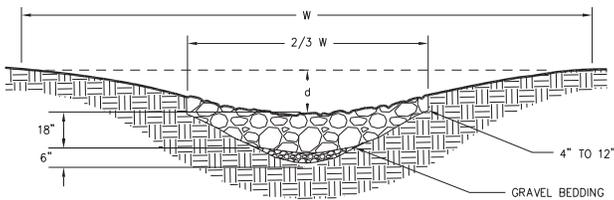
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WATERWAY WITH STONE CENTER DRAIN AND  
V-SECTION SHAPED BY MOTOR GRADER



WATERWAY WITH STONE CENTER DRAIN AND  
ROUNDED SECTION SHAPED BY BULLDOZER



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Figure 1. Stone Center Waterway

## REFERENCES

- Ds1** Disturbed Area Stabilization  
(With Mulching Only)
- Ds2** Disturbed Area Stabilization  
(With Temporary Seeding)
- Ds3** Disturbed Area Stabilization  
(With Permanent Vegetation)
- Ds4** Disturbed Area Stabilization  
(With Sodding)
- Ss** Slope Stabilization

Insert Tab 7

Field Maintenance

Back of Tab

STRUCTURAL &  
VEGETATIVE MEASURES



FIELD MAINTENANCE

 Level 1A: Fundamentals July 2016

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Maintenance

2

- A series of properly designed, installed, and **MAINTAINED** BMPs shall constitute a complete defense to any regulatory enforcement
- A BMP cannot function properly if it is not being properly maintained
- Permittees should be inspecting BMPs on a daily, weekly, and monthly basis

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Field Manual

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- The current 2016 edition of the *Field Manual for Erosion & Sediment Control in Georgia* contains maintenance requirements for each structural and vegetative BMP
- Can be found @
  - [gaswcc.georgia.gov](http://gaswcc.georgia.gov)

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## Example (Sd1)

4

### MAINTENANCE

- Remove the sediment once it has accumulated to one-half the original height of the barrier.
- Replace barrier whenever it has deteriorated to such an extent that the effectiveness of the product is reduced (~ 6 months) or the height of the product is not maintaining 80% of its properly installed height.
- Remove and dispose of all accumulated sediment at the barrier before it is removed.
- Leave in place until all disturbed areas are permanently stabilized.

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## What to look for?

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|---|---|
| <ul style="list-style-type: none"><li>□ Vegetative Measures<ul style="list-style-type: none"><li>□ Lime requirements</li><li>□ Fertilizer requirements</li><li>□ Mulching</li><li>□ Re-seeding</li><li>□ Mowing</li></ul></li></ul> | <ul style="list-style-type: none"><li>□ Structural Measures<ul style="list-style-type: none"><li>□ Inspections</li><li>□ Monitoring</li><li>□ De-mucking</li><li>□ Clean-out depths</li><li>□ Replacing materials</li></ul></li></ul> |
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## Documentation

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- If any BMP is in need of maintenance, it should be noted in the permittee inspection reports
- Include all observations related to each individual BMP
- Document on the reports the fix for each maintenance requirement
- Document compliant BMPs on all inspection reports as well

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7 Vegetative Measures  
Common Maintenance Requirements

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8 Ds1 - Mulching



90% cover is not being maintained

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9 Ds1 - Mulching



Straw/hay shall be at a depth of 2"-4"

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## Ds2 – Temporary Vegetation

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Area in need of temporary seeding

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## Ds2 – Temporary Vegetation

11

An adequate stand has failed to emerge. Re-seeding may be needed



Sedimentation can also inhibit plant growth by screening out sunlight

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## Ds2 – Temporary Vegetation

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Properly stabilized stand

A top growth of 6" should be maintained at all times

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13 Structural Measures

Common Maintenance Requirements

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14 Co – Construction Exit

Mud shall be immediately removed from roadway

Co shall be maintained in a condition that will not allow mud onto the streets

Geotextile underliner?

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15 Co – Construction Exit

Co should be periodically dressed with 1.5" – 3.5" stone

Proper Construction Exit

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### Dn1 – Temporary Downdrain

16

If the maximum drainage area is being exceeded for each structure, a design change would be needed

The dike ridge over top of the pipe was not properly compacted



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### Dn1 – Temporary Downdrain

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Stakes should always be used to anchor pipe

Properly stabilized



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### Rt - Retrofit

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Rt shall be cleaned out at 1/3<sup>rd</sup> full

A Rt should have 1" holes that are 8-10" apart



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### Rt - Retrofit

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### Sk – Floating Surface Skimmer

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### Sk – Floating Surface Skimmer

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### St – Storm Drain Outlet Protection

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### St – Storm Drain Outlet Protection

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### St – Storm Drain Outlet Protection

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### Sd1 – Sediment Barrier

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### Sd1 – Sediment Barrier

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### Sd1 – Sediment Barrier

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### Are these the right BMPs?

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A sediment storage BMP would be a better choice for this area

Sd1 is not designed to be placed in concentrated flow

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### Sd2 – Curb Inlet Protection

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Sediment shall be removed from curb inlet protection immediately

Can create a public safety hazard

2005/09/20

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### Sd2 – Curb Inlet Protection

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If inlet cannot drain properly, ponding can occur

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### Sd2 – Inlet Protection

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### Sd2 – Excavated Inlet Protection

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### Sd2 – Excavated Inlet Protection

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### Sd3 – Temporary Sediment Basin



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### Example Clean-out Marker



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### Sd4 – Temporary Sediment Trap



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### Tp - Topsoil

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Stockpile should be stabilized with temporary vegetative measures

Stockpile should be contained by sediment barriers

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### Summary

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- Remember to use the approved ES&PC Plan & Field Manual for guidance when it comes to maintenance requirements
- Failure to maintain BMPs can result in possible enforcement, loss of resources (time, money, etc...), and even civil suits
- Using a series of sound BMPs that are properly (1) designed, (2) installed, and (3) maintained is the only way to prevent problems from occurring on site

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### 39 Questions?

GSWCC  
Urban Program  
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Athens, GA 30603  
(706) 552-4474



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Insert Tab 8

Resource Information

Back of Tab

# Commonly Used Acronyms

BMP: Best Management Practices

CPESC: Certified Professional in Erosion & Sediment Control

CWA: Clean Water Act

DNR: Department of Natural Resources

EMC: Electric Membership Corporation

EPA: Environmental Protection Agency

EPD: Environmental Protection Division

ES&PC: Erosion, Sedimentation & Pollution Control

FEMA: Federal Emergency Management Agency

FERC: Federal Energy Regulatory Commission

GACD: Georgia Association of Conservation Districts

GDOT: Georgia Department of Transportation

GESA: Georgia Erosion & Sediment Control Act

GFC: Georgia Forestry Commission

GSWCC: Georgia Soil & Water Conservation Commission

LDA: Land Disturbing Activity

LIA: Local Issuing Authority

MLRA: Major Land Resource Area

MOA: Memorandum of Agreement

NOI: Notice of Intent

NOT: Notice of Termination

NOV: Notice of Violation

NPDES: National Pollutant Discharge Elimination System

NRCS: Natural Resource Conservation Service

NTU: Nephelometric Turbidity Unit

O.C.G.A.: Official Code of Georgia Annotated

PSC: Public Service Commission

SWCD: Soil & Water Conservation District

TMDL: Total Maximum Daily Load

USACE: United States Army Corps of Engineers

USDA: United States Department of Agriculture



# Glossary

Accelerated Erosion – Alteration of the land surface that is intensified by human activities

Agricultural Lime – A soil amendment consisting principally of calcium carbonate (CaCO<sub>3</sub>)

Base Flow – the discharge that enters the stream channel through the soil

Best Management Practices – schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the “Manual for Erosion & Sediment Control in Georgia” (Manual) published by the State Soil & Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted to prevent or reduce the pollution of waters of Georgia

Buffer – An area of land immediately adjacent to the banks of State waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat

Certified Personnel – a person who has successfully completed the appropriate certification course approved by GSWCC

Channel Stabilization – improving, constructing or stabilizing an open channel for water conveyance

Check Dam – a temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow

Climate – the statistics of weather. It is measured, usually over a 30-year period, by assessing the patterns of variation in temperature, humidity, atmospheric pressure or precipitation

Coagulant – neutralizes the repulsive electrical charge surrounding a particle allowing it to stick together with other particles to form a clump or floc

Coastal Dune Stabilization – the planting of vegetation on dunes that are denuded, artificially constructed, or re-nourished

Common Development – A contiguous area where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development on or after August 1, 2000

Conservation – the protection, improvement and use of natural resources according to principles that will assure their highest economic or social benefit

Construction Activity – The disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities

Construction Exit – a stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area

Construction Road Stabilization – a travel-way constructed as part of a construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes

Cut-and-Fill – The process of earth moving by excavating part of an area and using the excavated material for adjacent embankments or fill areas

Design Professional – a professional licensed by the State of Georgia in the field of engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a Certified Professional in Erosion & Sediment Control with a current certification by EnviroCert International Inc.

Direct runoff – the water entering stream channels promptly after rainfalls or snow melts

Disturbed Area Stabilization (with mulching) – the application of plant residue or other suitable material, produced on site if possible, to the soil surface

Disturbed Area Stabilization (with temporary vegetation) – the establishment of temporary vegetative cover with fast growing species for seasonal protection on disturbed or denuded areas

Disturbed Area Stabilization (with permanent vegetation) – the planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization

Disturbed Area Stabilization (with sodding) – A permanent vegetative cover using sod on highly erodible or critically eroded lands

Diversion – a ridge of compacted soil, constructed above, across, or below a slope

Drainage Structure – a device composed of a virtually non-erodible material such as concrete, steel, plastic or other such material that conveys water from one place to another by intercepting the flow and carrying it to a release point for storm water management, drainage control, or flood control purposes

Dust Control – The control of surface and air movement of dust on construction, roads, and demolition sites

Ephemeral Stream – a stream that flows only in direct response to precipitation

Erosion – The process by which the land surface is worn away by the action of water, wind, ice and gravity

ES&PC Plan – An Erosion, Sediment & Pollution Control Plan for the control of soil erosion and sediment resulting from a land-disturbing activity

Filling – the placement of any soil or solid material either organic or inorganic on a natural ground surface or an excavation

Filter Ring – a temporary stone barrier constructed at storm drain inlets and pond outlets

Final Stabilization – all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region)

Floating Surface Skimmer – a buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow

Flocculant – facilitates the agglomeration or aggregation of coagulated particles to form larger flocs that slowly drop out of suspension

Gabion – a large, multi-celled, welded wire or rectangular wire mesh box used to stabilize highly erosive slopes

Grade Stabilization Structure – a structure used to stabilize the grade in a natural or artificial channel

Grade – the slope of a road, channel, or natural ground

Gradient – The number of horizontal units per vertical units

Geologic Erosion – The natural erosion caused by geologic processes acting over long geologic periods

Geotextile – a term used to describe woven or non-woven fabric materials used to reinforce or separate soil and other materials

Hydric soils – soils that were developed in conditions where soil oxygen is limited by the presence of saturated soil for long periods during the growing season

Hydrophytic vegetation – a plant that grows partially or fully submerged in water

Infrastructure Construction – Construction activities that are not part of a common development that include the construction, installation, and maintenance of roadway and railway projects and conduits, pipes, pipelines, substations, cables, wires, trenches, vaults, manholes, and similar or related structures for the conveyance of natural gas, liquid petroleum products, electricity, telecommunications, water, storm water, or sewage

Inlet Sediment Trap – a temporary protective device formed at or around an inlet to a storm drain to trap sediment

Intermittent Stream – a stream, or portion of a stream, that flows only in direct response to precipitation

Interstate Commerce – as had, presently has, or potential to have interstate commerce

Land-disturbing Activity – Any activity which may result in soil erosion from water or wind and the movement of sediments into state water or onto state lands, including, but not limited to clearing, dredging, grading, excavating, transporting, and filling of land

Level Spreader – a storm flow outlet device constructed at zero grade across the slope

Local issuing Authority – The governing authority of any county or municipality which is certified pursuant to subsection (a) of Code Section 12-7-8

Marshlands – any marshland intertidal area, mud flat, tidal water bottom, or salt marsh in the State within the estuarine area of the state, whether or not the tidewaters reach the littoral areas through natural or artificial watercourses

Mass Grading – the movement of earth by mechanical means to alter the gross topographic features (elevations, slopes, etc.) in order to prepare a site for final grading and the construction of facilities (buildings, roads, parking, etc.)

Manual – The Manual for Erosion & Sediment Control in Georgia is the published guidance of the GSWCC governing the design and practices to be utilized in the protection of the state's natural resources from erosion and sedimentation

Navigable waters – waters subject to the ebb and flow of the tide and has a connection to the transportation of interstate commerce

Nephelometric Turbidity Unit – a numerical unit of measure based upon photometric analytical techniques for measuring the light scattered by fine particles of a substance in suspension.

Normal Business Hours – Monday thru Friday, 8:00 AM to 5:00 PM, excluding any non-working Saturday, non-working Sunday and non-working Federal holiday.

Normal Stream Flow – any stream flow that consists solely of base flow or consists of both base flow and direct runoff during any period of the year

Outfall – the location where storm water, in a discernible, confined and discrete conveyance, leaves a facility or construction site or, if there is a receiving water on site, becomes a point source discharging into that receiving water

Perennial Stream – a stream with base flow that maintains stream flow throughout the year under normal circumstances

Permanent Downdrain – a permanent structure used to safely convey surface runoff from the top of a slope to the bottom of the slope

pH – a numerical measure of the acidity or hydrogen ion activity

Primary Permittee – The owner or operator or both of a tract of land for a construction project subject to the permit

Primary Trout Waters – any stream supporting a self-sustaining population of Rainbow, Brown, or Brook Trout

Receiving Water(s) – all perennial and intermittent waters of the State into which the runoff of storm water from a construction activity will actually discharge, either directly or indirectly

Retaining Wall – a wall constructed of one or more of the following: concrete masonry, reinforced concrete, cribbing, treated timbers, steel pilings, gabions, stone drywall, rock riprap, etc....

Retrofit – a device or structure placed in front of a permanent storm water detention pond outlet or roadway drainage structure to serve as a temporary filter

Rill Erosion – an erosion process in which numerous small channels, only several inches deep, occur mainly on recently disturbed and exposed soils

Riprap – broken rocks, cobbles, or boulders placed

Roadway Drainage Structure – a device such as a bridge, culvert, or ditch, composed of a virtually non-erodible material such as concrete, steel, plastic, or other such material that

conveys water under a roadway by intercepting the flow on one side of a traveled roadway consisting of one or more defined lanes, with or without shoulder areas, and carrying water to a release point on the other side

Rock Filter Dam – a temporary stone filter dam installed across a drainage way or in conjunction with a temporary sediment trap

Secondary Permittee – An owner, individual builder, utility company, or utility contractor that conducts a construction activity within a common development with an existing primary permittee

Secondary Trout Waters – streams with no evidence of natural trout reproduction but capable of supporting trout throughout the year

Sediment – solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by, wind, water, ice, or gravity as a product of erosion

Sediment barrier – a temporary structure made of a porous material typically supported by steel or wood posts

Sedimentation – The process by which eroded material is transported and deposited by water, wind, ice and gravity

Seep Berm – a linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration of the runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes

Sheetflow – runoff which flows over the ground surface as a thin, even layer, not concentrated in a channel

Sheet Erosion – the removal of a fairly uniform layer of soil from the land surface by runoff water

Slope Stabilization – A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shorelines, or channels

Soil – the unconsolidated mineral and organic material on the immediate surface of the Earth that serves as natural medium for the growth of land plants

Splash Erosion – The spattering of small soil particles caused by the impact of raindrops on wet soils

Stand Alone Construction – Construction activities that are not part of a common development where the primary permittee chooses not to use secondary permittees

State waters – includes any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the state, which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation

Storm Drain Outlet Protection – a paved and/or riprap channel section placed below storm drain outlets

Storm Water – storm water runoff, snow melt runoff, and surface runoff and drainage

Stream Diversion Channel – a temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed in the stream channel

Streambank Stabilization – the use of readily available native plant materials to maintain and enhance streambanks

Sub-contractor – an entity employed or retained by the permittee to conduct any type of construction activity (as defined in this permit) at a stand alone construction site

Surface Roughening – providing a rough soil surface with horizontal depressions created by operating a tillage or other suitable implement on the contour

Tackifier – A tie-down for soil, compost, seed, straw, hay or mulch

Temporary Downdrain – a temporary structure used to convey concentrated storm water runoff down the face of cut or fill slopes

Temporary Sediment Basin – a basin created by the construction of a barrier or dam across a concentrated flow area, or by excavating a basin, or by a combination of both

Temporary Sediment Trap – a small temporary pond that drains a disturbed area so that sediment can settle out

Temporary Stream Crossing – a temporary structure installed across a flowing stream or watercourse for use by construction equipment

Tertiary Permittee – The owner or operator of remaining lot(s) within a common development conducting a construction activity where the primary permittee and all secondary permittees have submitted a Notice of Termination or where a primary permittee no longer exists

Topography – The arrangement of the natural or artificial physical features of an area

Topsoiling – the stripping off of the more fertile top soil, storing it, and then spreading it over the disturbed area after completion of construction activities

Tree Protection – protection for desirable trees from injury during construction activity

Turbidity Curtain – a floating or staked barrier installed within the water column

Turf Reinforcement Matting – a permanent geo-synthetic matting that is used to stabilize the soil while permanent vegetation is taking root

Vegetated Waterway – a natural or constructed channel that is shaped and graded to the required dimensions and established in suitable vegetation

Wetland – those areas inundated or saturated by surface or ground water at a frequency and duration to support, and that under normal circumstances do support a prevalence of vegetation adapted for life in saturated soil conditions

Wrested vegetation – the point where vegetation has been wrested away by normal stream flow or wave action



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Region 3

**Harold Fallin**  
Vice Chair  
Thomaston, GA  
Region 4

**Jason Winters**  
Lyerly, GA  
Region 1

**Drew Echols**  
Alto, GA  
Region 2

**Bob Martin**  
Ocilla, GA  
Region 5

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# GEORGIA SOIL & WATER CONSERVATION COMMISSION

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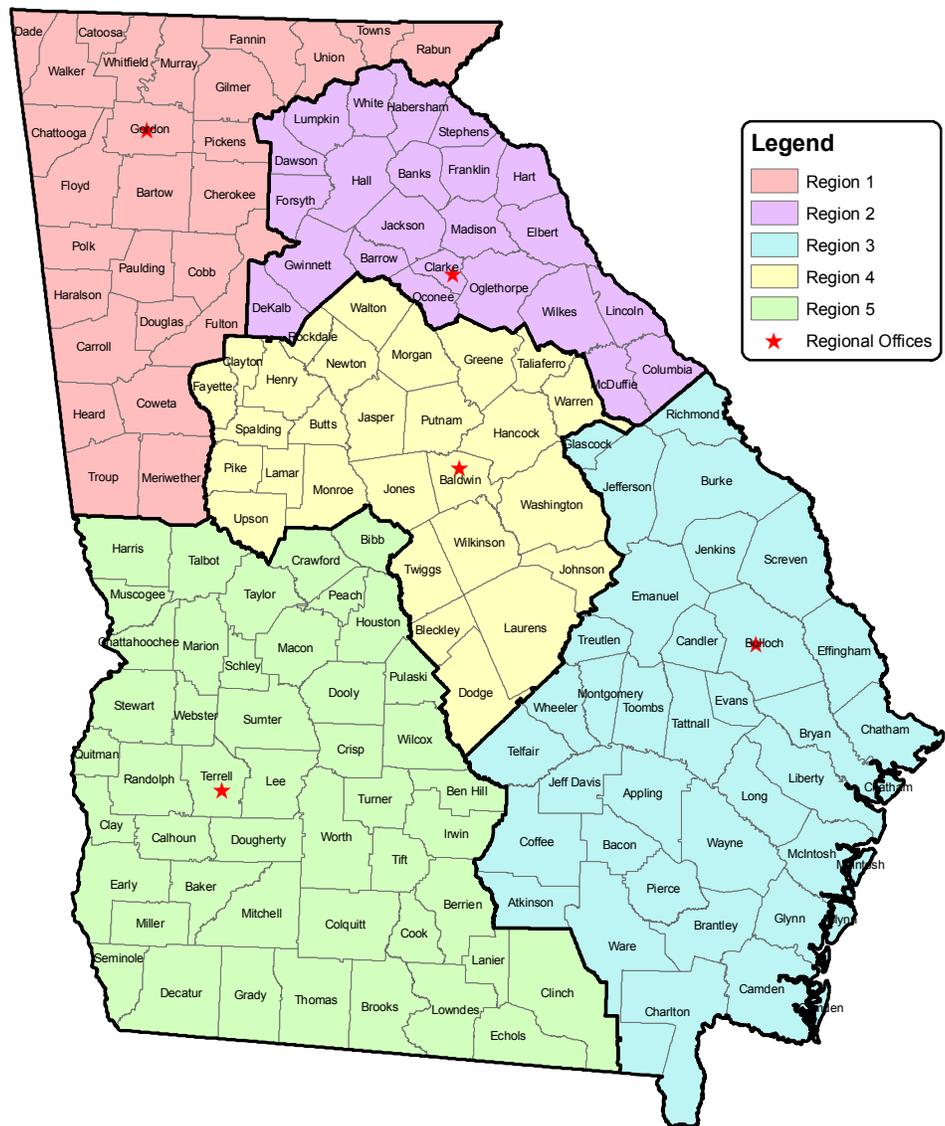
Region 1  
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Region 3  
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Region 4  
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Suite 1  
Milledgeville, GA 301061  
(478) 445-5766

Region 5  
4344 Albany Highway  
Dawson, GA 39842  
(229) 995-6001

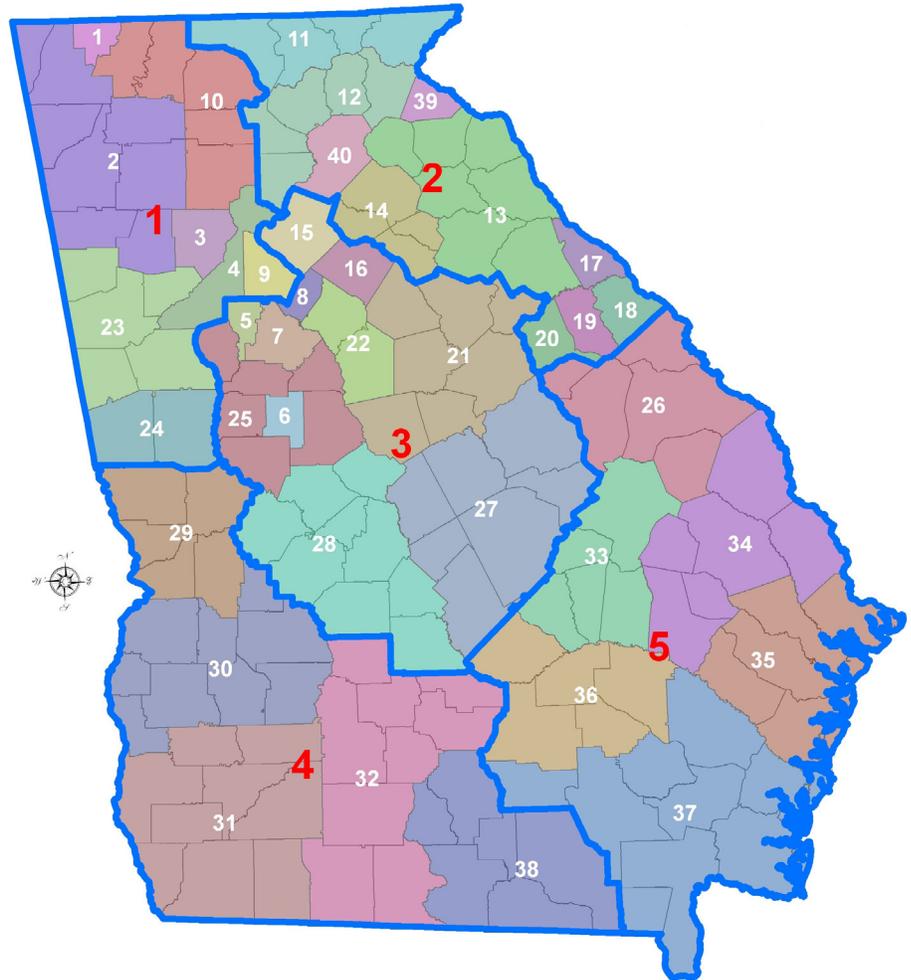




# Georgia Soil & Water Conservation Districts

[www.gacd.us](http://www.gacd.us)

1. Catoosa County
2. Coosa River
3. Cobb County
4. Fulton County
5. Clayton County
6. Lamar County
7. Henry County
8. Rockdale County
9. DeKalb County
10. Limestone Valley
11. Blue Ridge Mountain
12. Upper Chattahoochee River
13. Broad River
14. Oconee River
15. Gwinnett County
16. Walton County
17. Lincoln County
18. Columbia County
19. McDuffie County
20. Warren County
21. Piedmont
22. Upper Ocmulgee River
23. West Georgia
24. Roosevelt
25. Towaliga
26. Brier Creek
27. Central Georgia
28. Ocmulgee River
29. Pine Mountain
30. Lower Chattahoochee River
31. Flint River
32. Middle South Georgia
33. Ohoopee River
34. Ogeechee River
35. Coastal Georgia
36. Altamaha
37. Satilla River
38. Alapaha
39. Stephens County
40. Hall County





# GA DNR Environmental Protection Division

epd.georgia.gov



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Parkway  
Atlanta, GA 30354  
(404) 362-2671

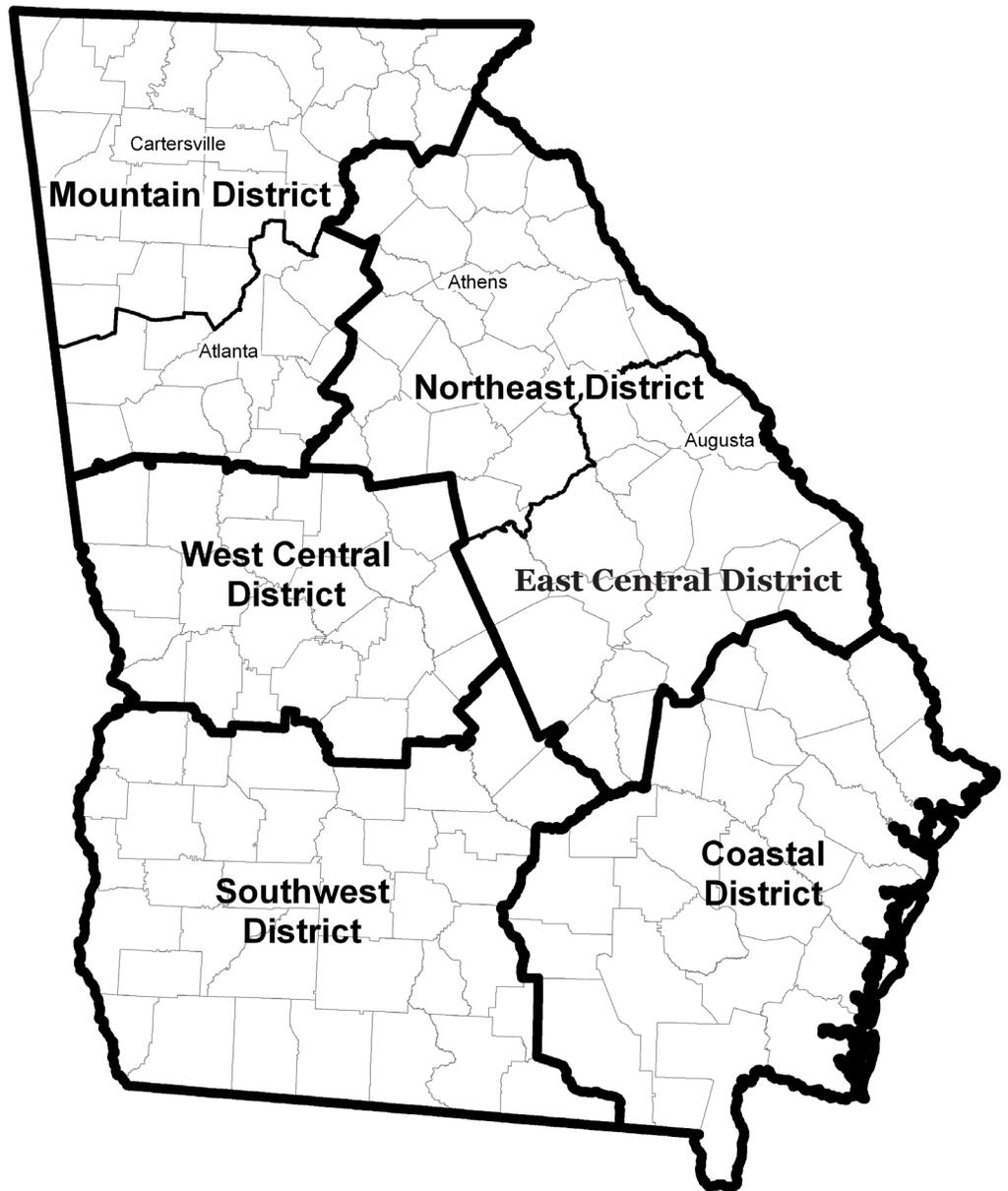
Northeast District  
745 Gaines School Road  
Athens, GA 30605  
(706) 369-6376

Mountain District  
(Cartersville)  
P.O. Box 3250  
16 Center Road  
Cartersville, GA 30120  
(770) 387-4900

Southwest District  
2024 Newton Road  
Albany, GA 31701  
(229) 430-4144

Coastal District  
400 Commerce Center Dr.  
Brunswick, GA 31523  
(912) 264-7284

East Central District  
3525 Walton Way Ext.  
Augusta, GA 30909  
(706) 667-4343





# Georgia Department of Transportation

[www.dot.ga.gov](http://www.dot.ga.gov)



## District 1

2505 Athens Hwy SE  
Gainesville, GA 30507  
(770) 531-5721

## District 2

643 Hwy 15 S  
Tennille, GA 31089  
(478) 553-3301

## District 3

115 Transportation Blvd  
Thomaston, GA 30286  
(706) 646-6900

## District 4

710 West 2nd St.  
Tifton, GA 31794  
(229) 386-3280

## District 5

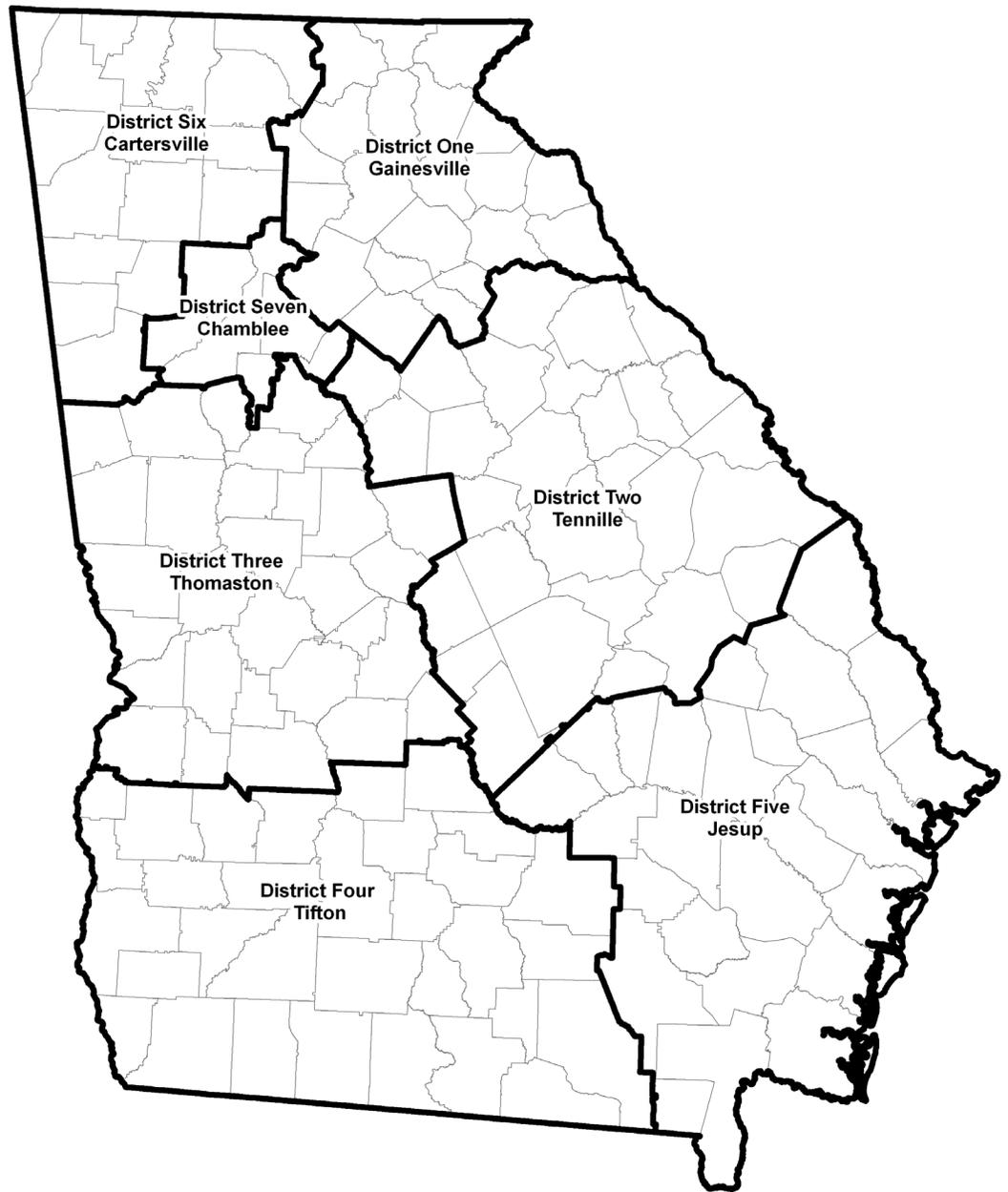
204 North Highway 301  
Jesup, GA 31546  
(912) 427-5711

## District 6

500 Joe Frank Harris  
Pkw  
Cartersville, GA 30120  
(770) 387-3602

## District 7

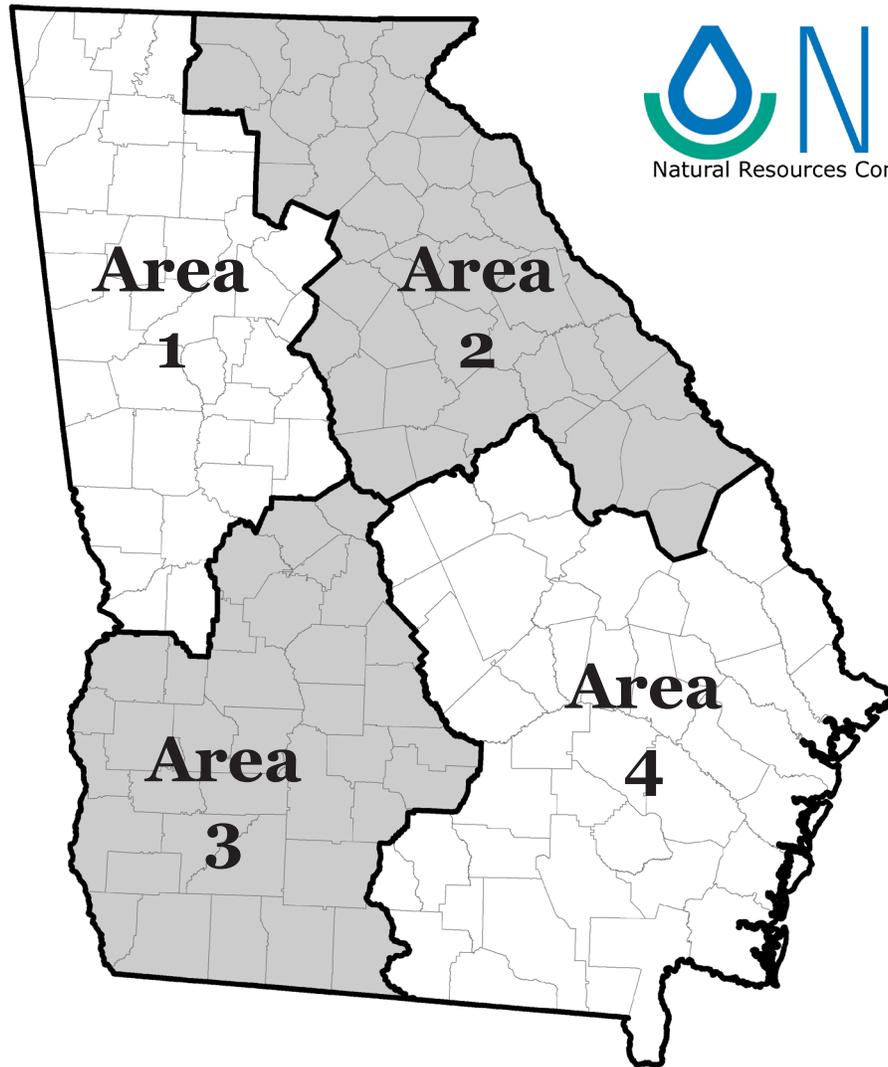
5025 New Peachtree Rd  
Chamblee, GA 30341  
(770) 986-1011





# Natural Resources Conservation Service

[www.nrcs.usda.gov](http://www.nrcs.usda.gov)



### **Area 1**

Federal Building Room G-27  
201 West Solomon St.  
Griffin, GA 30224  
(770) 227-1026

### **Area 2**

Federal Building  
355 East Hancock Ave.  
Athens, GA 30601  
(706) 546-2039

### **Area 3**

Plant Materials Center  
295 Morris Drive  
Americus, GA 31709  
(229) 924-0544

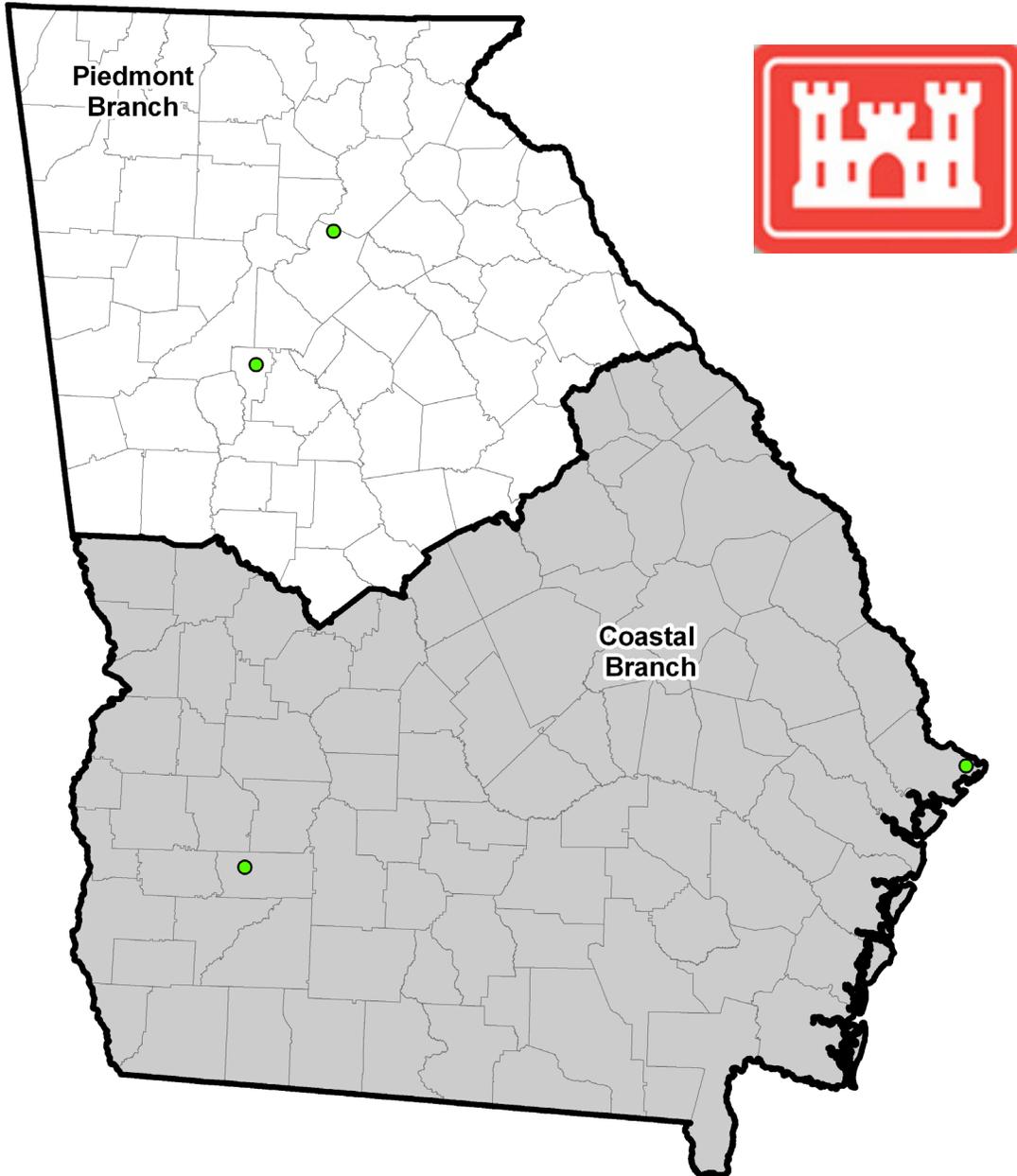
### **Area 4**

Federal Building Room 214  
601 Tabeau St.  
Waycross, GA 31502  
(912) 283-5598



# United States Army Corps of Engineers

[www.sas.usace.army.mil/](http://www.sas.usace.army.mil/)



**Coastal Branch**  
100 W. Oglethorpe Ave  
Savannah, GA 31401  
(912) 652-5279

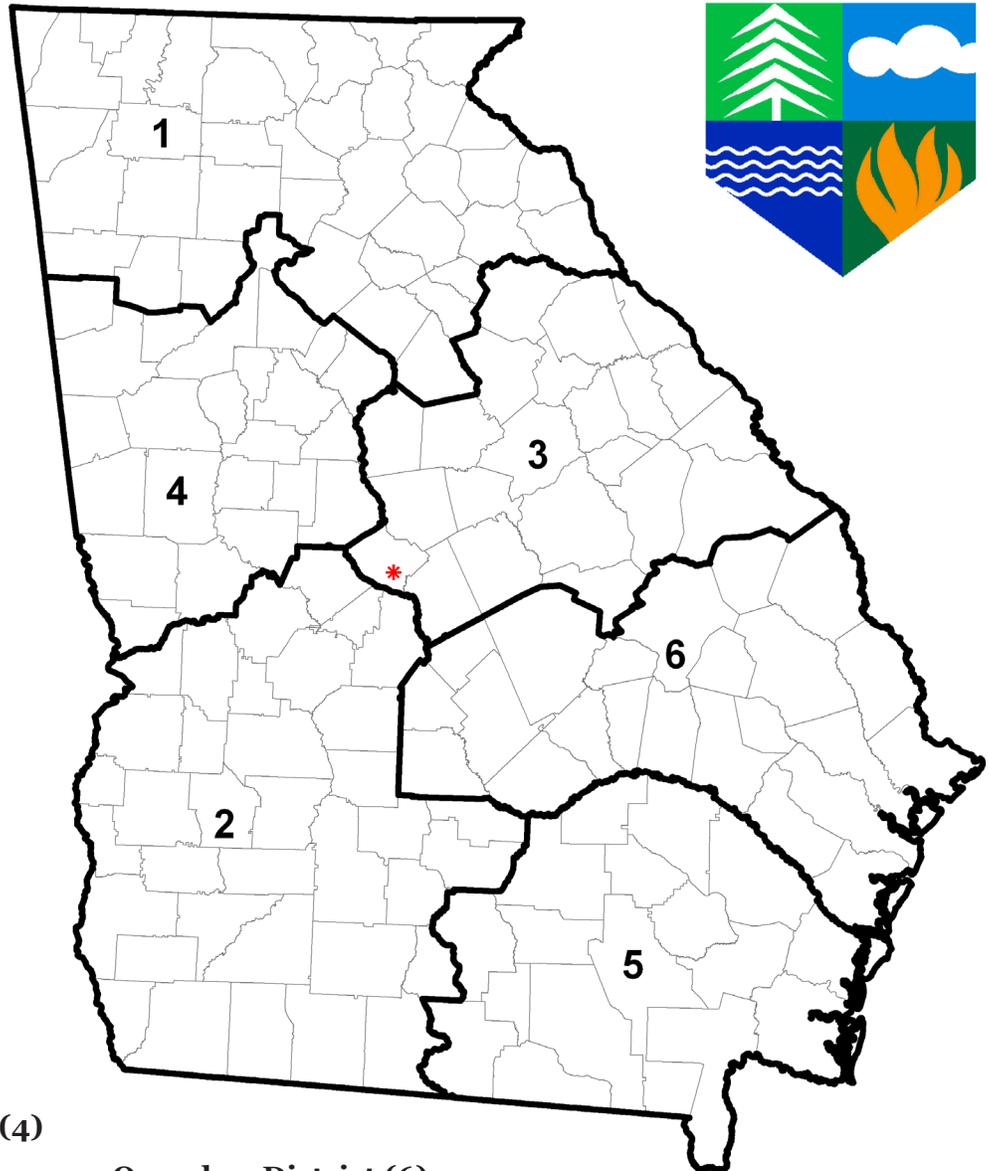
**Piedmont Branch**  
1590 Adamson Parkway  
Suite 200  
Morrow, GA 30260  
(678) 422-2735



# Georgia Forestry Commission

www.gfc.state.ga.us

**GEORGIA FORESTRY  
COMMISSION**



## **Coosa District (1)**

### Gainesville Office

3005 Atlanta Hwy  
Gainesville, GA 30507  
(770) 531-6043/6048

### Rome Office

3086 Martha Berry Hwy NE  
Rome, GA 30165  
(706) 295-6021/6022

## **Flint District (2)**

### Camilla Office

3561 Hwy 112  
Camilla, GA 31730  
(229) 522-3580/3581

### Americus Office

243 US Hwy 19 North  
Americus, GA 31719  
(229) 931-2436/2437

## **Oconee District (3)**

### Milledgeville Office

119 Hwy 49  
Milledgeville, GA 31061  
(478) 445-5164/5548

### Washington Office

1465 Tignall Road  
Washington, GA 30673  
(706) 678-2015

## **Chattahoochee District (4)**

### Newnan Office

187 Corinth Rd  
Newnan, GA 30263  
(770) 254-7218

## **Satilla District (5)**

### Waycross Office

5003 Jacksonville Hwy  
Waycross, GA 31503  
(912) 287-4915

## **Ogeechee District (6)**

### McRae Office

Route 1 Box 67  
Helena, GA 31037  
(229) 868-3385

### Statesboro Office

18899 US Hwy 301 North  
Statesboro, GA 30461  
(912) 681-0490/0496



ID Number	County	Municipality	Local Issuing Authority	LIA Contact	Email	SWCD	GSWCC Region	EPD District Office
LIA-001-00	Appling	Appling	NO	Milton (Shane) Crosby	<a href="mailto:scrosby@aic.cc">scrosby@aic.cc</a>	Alamaha	Region III	Coastal District - Brunswick
LIA-001-01	Appling	Baxley	YES		(912) 367-8300	Alamaha	Region III	Coastal District - Brunswick
LIA-001-02	Appling	Graham	NO			Alamaha	Region III	Coastal District - Brunswick
LIA-001-03	Appling	Surrency	NO			Alamaha	Region III	Coastal District - Brunswick
LIA-002-00	Atkinson	Pearson	NO	Gary Jewell, Acting Police Chief	<a href="mailto:pearson_ga@plamtel.net">pearson_ga@plamtel.net</a>	Satilla River	Region III	Coastal District - Brunswick
LIA-002-01	Atkinson	Willacochee	YES			Satilla River	Region III	Coastal District - Brunswick
LIA-002-02	Atkinson	Willacochee	NO			Alamaha	Region III	Coastal District - Brunswick
LIA-003-00	Bacon	Alma	NO			Alamaha	Region III	Coastal District - Brunswick
LIA-004-00	Baker	Newton	NO			Flint River	Region V	Southwest District - Albany
LIA-004-01	Baker	Newton	NO	Robert West, Code Enforcement	(478) 445-4205	Flint River	Region V	Southwest District - Albany
LIA-005-00	Baldwin	Millidgeville	YES	Mervin G. Graham, Zoning Administrator	<a href="mailto:mervin@milledgevillega.us">mervin@milledgevillega.us</a>	Piedmont	Region IV	Northwest District - Athens
LIA-005-01	Baldwin	Millidgeville	YES	Keith Covington	(478) 414-4021	Piedmont	Region IV	Northwest District - Athens
LIA-006-00	Banks	Homer	YES		(706) 677-4272	Broad River	Region II	Northwest District - Athens
LIA-006-01	Banks	Wayssville	YES	Clarence J. Suliens	<a href="mailto:schlie651@winstream.net">schlie651@winstream.net</a>	Broad River	Region II	Northwest District - Athens
LIA-007-00	Barrow	Auburn	YES	Rebecca Whiddon, Senior Planner	<a href="mailto:rwhiddon@barrowga.gov">rwhiddon@barrowga.gov</a>	Oconee River	Region II	Northwest District - Athens
LIA-007-01	Barrow	Auburn	YES			Oconee River	Region II	Northwest District - Athens
LIA-007-02	Barrow	Bethlehem	NO			Oconee River	Region II	Northwest District - Athens
LIA-007-03	Barrow	Carl	NO			Oconee River	Region II	Northwest District - Athens
LIA-007-04	Barrow	Slatham	NO			Oconee River	Region II	Northwest District - Athens
LIA-007-05	Barrow	Winder	NO			Oconee River	Region II	Northwest District - Athens
LIA-008-00	Barrow	Adairsville	YES	Lamont Kiser, County Engineer	<a href="mailto:kiserl@battowga.org">kiserl@battowga.org</a>	Oconee River	Region I	Mountain District - Cartersville
LIA-008-01	Barrow	Cartersville	YES	Ben Skipper, Community Development	(770) 773-2451	Oconee River	Region I	Mountain District - Cartersville
LIA-008-02	Barrow	Cartersville	YES	Randy Mannino, Planning and Development	(770) 607-6181	Oconee River	Region I	Mountain District - Cartersville
LIA-008-03	Barrow	Emerson	YES	Kevin McBurnett, City Manager	(770) 382-9819	Oconee River	Region I	Mountain District - Cartersville
LIA-008-04	Barrow	Euharlee	YES	Ronn Goss, Planning and Zoning Director	(770) 386-1542	Oconee River	Region I	Mountain District - Cartersville
LIA-008-05	Barrow	Kingston	NO			Oconee River	Region I	Mountain District - Cartersville
LIA-008-06	Barrow	Taylorville	NO			Oconee River	Region I	Mountain District - Cartersville
LIA-008-07	Barrow	White	YES	Jane L. Richards, City Manager	(770) 382-5466	Oconee River	Region I	Mountain District - Cartersville
LIA-009-00	Ben Hill	Fitzgerald	YES	Jason Miller, Building Inspector	(229) 426-5149	Middle South Georgia	Region V	Southwest District - Albany
LIA-009-01	Ben Hill	Fitzgerald	YES	Justin N. Poole	(229) 426-5063	Middle South Georgia	Region V	Southwest District - Albany
LIA-010-00	Berrien	Alapaha	YES	Benjamin Warren, Public Works Director	(229) 686-5421	Alapaha	Region V	Southwest District - Albany
LIA-010-01	Berrien	Enigma	NO			Alapaha	Region V	Southwest District - Albany
LIA-010-02	Berrien	Enigma	NO			Alapaha	Region V	Southwest District - Albany
LIA-010-03	Berrien	Nashville	YES	Henry Yawn, Planning and Zoning Office	<a href="mailto:yawnh@citycode@winstream.net">yawnh@citycode@winstream.net</a>	Alapaha	Region V	Southwest District - Albany
LIA-010-04	Berrien	Ray City	NO			Alapaha	Region V	Southwest District - Albany
LIA-011-00	Bibb	Macon	YES	Keith Braswell, Engineer	(478) 621-6660	Ocmulgee River	Region V	West Central District - Macon
LIA-011-01	Bibb	Bibb	YES	Keith Braswell, Engineer	(478) 621-6660	Ocmulgee River	Region V	West Central District - Macon
LIA-011-02	Bibb	Payne City	YES			Ocmulgee River	Region V	West Central District - Macon
LIA-012-00	Bleckley	Cochran	NO			Central Georgia	Region IV	West Central District - Macon
LIA-012-01	Bleckley	Cochran	NO			Central Georgia	Region IV	West Central District - Macon
LIA-013-00	Brantley	Hoboken	NO			Satilla River	Region III	Coastal District - Brunswick
LIA-013-01	Brantley	Nahunta	NO			Satilla River	Region III	Coastal District - Brunswick
LIA-014-00	Brooks	Morven	NO			Middle South Georgia	Region V	Southwest District - Albany
LIA-014-01	Brooks	Morven	NO			Middle South Georgia	Region V	Southwest District - Albany
LIA-014-02	Brooks	Quitman	NO			Middle South Georgia	Region V	Southwest District - Albany
LIA-015-00	Bryan	Pembroke	YES	Kirk D. Crossman, PE, County Engineer	(912) 756-7953	Coastal	Region III	Coastal District - Brunswick
LIA-015-01	Bryan	Richmond Hill	YES	Steve Scholar, Planning and Zoning	(912) 756-3851	Coastal	Region III	Coastal District - Brunswick
LIA-015-02	Bryan	Richmond Hill	YES	Robert (Larry) Evans, Building Department	(912) 489-1356	Ogeechee River	Region III	Coastal District - Brunswick
LIA-016-00	Bulloch	Brooklet	NO			Ogeechee River	Region III	Coastal District - Brunswick
LIA-016-01	Bulloch	Portal	NO			Ogeechee River	Region III	Coastal District - Brunswick
LIA-016-02	Bulloch	Register	NO			Ogeechee River	Region III	Coastal District - Brunswick
LIA-016-03	Bulloch	Statesboro	YES	Brad Deal, Assistant City Engineer	<a href="mailto:bddeal@statesboroga.net">bddeal@statesboroga.net</a>	Ogeechee River	Region III	Coastal District - Brunswick
LIA-017-00	Burke	Girard	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-017-01	Burke	Keyville	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-017-02	Burke	Mcville	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-017-03	Burke	Sardis	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-017-04	Burke	Viadette	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-017-05	Burke	Waynesboro	NO			Brier Creek	Region III	Northwest District - Augusta
LIA-018-00	Butts	Flowilla	YES	Douglas Manning, Community Development	<a href="mailto:dmmanning@buttscounty.org">dmmanning@buttscounty.org</a>	Towaliga	Region IV	Northwest District - Athens
LIA-018-01	Butts	Jackson	NO			Towaliga	Region IV	Northwest District - Athens
LIA-018-02	Butts	Jackson	YES	Douglas Manning, Community Development	<a href="mailto:dmmanning@buttscounty.org">dmmanning@buttscounty.org</a>	Towaliga	Region IV	Northwest District - Athens
LIA-018-03	Butts	Jenkinsburg	NO			Towaliga	Region IV	Northwest District - Athens
LIA-019-00	Calhoun	Calhoun	NO			Flint River	Region V	Southwest District - Albany
LIA-019-01	Calhoun	Arlington	NO			Flint River	Region V	Southwest District - Albany

LIA-019-02	Edison	NO				Flint River	Region V	Southwest District - Albany
LIA-019-03	Leary	NO				Flint River	Region V	Southwest District - Albany
LIA-019-04	Calhoun	NO				Flint River	Region V	Southwest District - Albany
LIA-020-00	Camden	YES				Satilla River	Region III	Coastal District - Brunswick
LIA-020-01	Kingsland	YES				(912) 729-8279 Satilla River	Region III	Coastal District - Brunswick
LIA-020-02	St. Marys	YES				(912) 882-4415 Satilla River	Region III	Coastal District - Brunswick
LIA-020-03	Camden	NO				Satilla River	Region III	Coastal District - Brunswick
LIA-021-00	Candler	YES				(912) 685-2835 Ogeechee River	Region III	Coastal District - Brunswick
LIA-021-01	Candler	YES				(912) 685-2549 Ogeechee River	Region III	Coastal District - Brunswick
LIA-021-02	Pulaski	NO				Ogeechee River	Region III	Coastal District - Brunswick
LIA-022-00	Carroll	YES				(770) 830-5861 West Georgia	Region I	Mountain District - Atlanta
LIA-022-01	Carroll	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-022-02	Carroll	YES				(770) 832-1622 West Georgia	Region I	Mountain District - Atlanta
LIA-022-03	Carroll	YES				West Georgia	Region I	Mountain District - Atlanta
LIA-022-04	Carroll	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-022-05	Carroll	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-022-06	Carroll	YES				West Georgia	Region I	Mountain District - Atlanta
LIA-023-00	Catoosa	YES				(706) 965-3787 Catoosa County	Region I	Mountain District - Cartersville
LIA-023-01	Catoosa	YES				(706) 866-2544 Catoosa County	Region I	Mountain District - Cartersville
LIA-023-02	Charlton	YES				(706) 935-3061 Catoosa County	Region I	Mountain District - Cartersville
LIA-024-00	Charlton	YES				(912) 496-2549 Satilla River	Region III	Coastal District - Brunswick
LIA-024-01	Folkston	YES				(912) 496-2563 Satilla River	Region III	Coastal District - Brunswick
LIA-024-02	Charlton	YES				(912) 496-7332 Satilla River	Region III	Coastal District - Brunswick
LIA-025-00	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-01	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-02	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-03	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-04	Chatham	NO				Coastal	Region III	Coastal District - Brunswick
LIA-025-05	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-06	Chatham	YES				Coastal	Region III	Coastal District - Brunswick
LIA-025-07	Chatham	NO				Coastal	Region III	Coastal District - Brunswick
LIA-025-08	Chatham	NO				Coastal	Region III	Coastal District - Brunswick
LIA-026-00	Chattahoochee	NO				Pine Mountain	Region V	West Central District - Macon
LIA-026-01	Cusseta	NO				Pine Mountain	Region V	West Central District - Macon
LIA-027-00	Chattahoochee	YES				Coosa River	Region I	Mountain District - Cartersville
LIA-027-01	Lyellville	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-027-02	Chattahoochee	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-027-03	Chattahoochee	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-027-04	Chattahoochee	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-028-00	Cherokee	YES				(678) 493-6077 Limestone Valley	Region I	Mountain District - Cartersville
LIA-028-01	Cherokee	NO				Limestone Valley	Region I	Mountain District - Cartersville
LIA-028-02	Cherokee	YES				(770) 704-1539 Limestone Valley	Region I	Mountain District - Cartersville
LIA-028-03	Cherokee	YES				Limestone Valley	Region I	Mountain District - Cartersville
LIA-028-04	Cherokee	NO				Limestone Valley	Region I	Mountain District - Cartersville
LIA-028-05	Cherokee	NO				Limestone Valley	Region I	Mountain District - Cartersville
LIA-029-00	Clarke	YES				(706) 613-3780 Oconee River	Region II	Northeast District - Athens
LIA-029-01	Clarke	YES				(706) 613-3780 Oconee River	Region II	Northeast District - Athens
LIA-029-02	Clarke	NO				Oconee River	Region II	Northeast District - Athens
LIA-030-00	Clay	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-030-01	Clay	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-030-02	Clay	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-031-00	Clayton	YES				(770) 477-3674 Clayton County	Region IV	Mountain District - Atlanta
LIA-031-01	Forest Park	YES				(404) 608-2300 Clayton County	Region IV	Mountain District - Atlanta
LIA-031-02	Clayton	YES				(770) 478-3800 Clayton County	Region IV	Mountain District - Atlanta
LIA-031-03	Clayton	NO				Clayton County	Region IV	Mountain District - Atlanta
LIA-031-04	Lovely	YES				(770) 471-2304 Clayton County	Region IV	Mountain District - Atlanta
LIA-031-05	Clayton	YES				(770) 968-5497 Clayton County	Region IV	Mountain District - Atlanta
LIA-031-06	Clayton	NO				Clayton County	Region IV	Mountain District - Atlanta
LIA-032-00	Clinch	NO				Alapaha	Region V	Coastal District - Brunswick
LIA-032-01	Clinch	NO				Alapaha	Region V	Coastal District - Brunswick
LIA-032-02	Clinch	NO				Alapaha	Region V	Coastal District - Brunswick
LIA-032-03	Clinch	NO				Alapaha	Region V	Coastal District - Brunswick
LIA-032-04	Clinch	NO				Alapaha	Region V	Coastal District - Brunswick
LIA-033-00	Cobb	YES				(912) 487-2375 Alapaha	Region V	Coastal District - Brunswick
LIA-033-01	Cobb	YES				(770) 608-2325 Cobb County	Region I	Mountain District - Cartersville
LIA-033-02	Cobb	YES				(678) 300-4127 Cobb County	Region I	Mountain District - Cartersville
LIA-033-03	Cobb	YES				(770) 944-4325 Cobb County	Region I	Mountain District - Cartersville
LIA-033-04	Cobb	YES				(770) 421-8582 Cobb County	Region I	Mountain District - Cartersville
LIA-033-05	Cobb	YES				(770) 794-8110 Cobb County	Region I	Mountain District - Cartersville
LIA-033-06	Cobb	YES				(770) 943-8010 Cobb County	Region I	Mountain District - Cartersville

LIA-033-00	Cobb	Smyrna	YES	Keith Williams, PE, City Engineer	Williams@ci.smyrna.ga.us	(768) 631-5443	Cobb County	Region I	Mountain District - Cartersville
LIA-034-00	Coffee	Ambrose	YES	Wesley Vickers, Administrator		(912) 384-4799	Alamaha	Region III	Coastal District - Brunswick
LIA-034-01	Coffee	Broxton	NO				Alamaha	Region III	Coastal District - Brunswick
LIA-034-02	Coffee	Broxton	NO				Alamaha	Region III	Coastal District - Brunswick
LIA-034-03	Coffee	Douglas	YES	Ray Parker, Code Enforcement Officer	parker@cityofdouglas.com	(912) 389-3482	Alamaha	Region III	Coastal District - Brunswick
LIA-034-04	Coffee	Nicolaus	NO				Alamaha	Region III	Coastal District - Brunswick
LIA-035-00	Colquitt	Nicolaus	YES	Russell Moody, Compliance Officer		(229) 616-7417	Middle South Georgia	Region V	Southwest District - Albany
LIA-035-01	Colquitt	Berlin	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-035-02	Colquitt	Doerun	YES				Middle South Georgia	Region V	Southwest District - Albany
LIA-035-03	Colquitt	Ellenton	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-035-04	Colquitt	Funston	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-035-05	Colquitt	Moultrie	YES	Daniel Parrish, Director	daniel.parrish@moultriega.com	(229) 880-5405	Middle South Georgia	Region V	Southwest District - Albany
LIA-035-06	Colquitt	Normal Park	YES				Middle South Georgia	Region V	Southwest District - Albany
LIA-035-07	Colquitt	Riverside	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-036-00	Columbia	Riverside	YES	George Eastman, Environmental Development	geesman@columbiacountyga.gov	(706) 312-7278	Columbia County	Region II	Southwest District - Albany
LIA-036-01	Columbia	Grovetown	YES	Connie Smith, Zoning Administrator		(706) 860-5084	Columbia County	Region II	Southwest District - Albany
LIA-036-02	Columbia	Hartem	YES	Jason Ritzner, City Manager	ritzner@hartemga.org	(706) 665-0043	Columbia County	Region II	Southwest District - Albany
LIA-037-00	Cook	Adel	YES	Chris Davis, Building/Zoning Administrator		(229) 237-2633	Alapaha	Region V	Southwest District - Albany
LIA-037-01	Cook	Adel	YES	John Flythe, City Manager		(229) 896-4504	Alapaha	Region V	Southwest District - Albany
LIA-037-02	Cook	Cecil	NO				Alapaha	Region V	Southwest District - Albany
LIA-037-03	Cook	Lenox	NO				Alapaha	Region V	Southwest District - Albany
LIA-037-04	Cook	Sparks	YES	Chris Davis, Building/Zoning Administrator		(229) 237-2633	Alapaha	Region V	Southwest District - Albany
LIA-038-00	Coweta	Sparks	YES				West Georgia	Region I	Mountain District - Atlanta
LIA-038-01	Coweta	Grantville	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-038-02	Coweta	Hazleton	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-038-03	Coweta	Moreland	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-038-04	Coweta	Newnan	YES				West Georgia	Region I	Mountain District - Atlanta
LIA-038-05	Coweta	Senoia	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-038-06	Coweta	Sharpsburg	YES				West Georgia	Region I	Mountain District - Atlanta
LIA-038-07	Coweta	Turin	NO				West Georgia	Region I	Mountain District - Atlanta
LIA-039-00	Crawford	Turin	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-039-01	Crawford	Roberta	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-040-00	Crisp	Roberta	YES				Middle South Georgia	Region V	Southwest District - Albany
LIA-040-01	Crisp	Arabi	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-040-02	Crisp	Cordele	YES	Bruce Castiberry		(706) 657-4625	Coosa River	Region I	Mountain District - Cartersville
LIA-041-00	Dade	Cordele	YES				Coosa River	Region I	Mountain District - Cartersville
LIA-041-01	Dade	Trenton	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-042-00	Dawson	Trenton	YES	David McKee, Director	dmckee@dawsoncountyga.org	(706) 344-3804	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-042-01	Dawson	Dawsonville	YES	Gary Barr		(706) 265-3256	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-043-00	Decatur	Dawsonville	NO				Flint River	Region V	Southwest District - Albany
LIA-043-01	Decatur	Atapulgus	NO				Flint River	Region V	Southwest District - Albany
LIA-043-02	Decatur	Bainbridge	YES				Flint River	Region V	Southwest District - Albany
LIA-043-03	Decatur	Birmin	NO				Flint River	Region V	Southwest District - Albany
LIA-043-04	Decatur	Climax	NO				Flint River	Region V	Southwest District - Albany
LIA-044-00	DeKalb	Climax	YES	Hari Karikaran, Associate Director	hkarikaran@dekalbcountyga.gov	(404) 371-2160	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-01	DeKalb	Avondale Estates	YES	Cary Abanan	cabanan@avondaleestates.org	(404) 294-5400	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-02	DeKalb	Chamblee	YES	Marc Johnson, Chief of Police	chiefmj@chambleega.com	(770) 986-5026	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-03	DeKalb	Clarkston	YES	Keith Barber, City Manager	kbarber@cityofclarkston.com	(404) 296-5489	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-04	DeKalb	Decatur	YES	John Madajewski, PE, Senior Engineer		(404) 377-6198	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-05	DeKalb	Doraville	YES	Steven Strickland, Stormwater Inspector	steven.strickland@doravillega.us	(678) 758-4218	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-06	DeKalb	Lithonia	NO				DeKalb County	Region II	Mountain District - Atlanta
LIA-044-07	DeKalb	Pine Lake	NO				DeKalb County	Region II	Mountain District - Atlanta
LIA-044-08	DeKalb	Stone Mountain	YES	Thurman Johnson, Code Compliance Section		(770) 498-8984	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-09	DeKalb	Dunwoody	YES	Rich Edinger, PE	redinger@clarkcountygga.com	(678) 382-5700	DeKalb County	Region II	Mountain District - Atlanta
LIA-044-10	DeKalb	Brookhaven	YES	Rich Edinger, PE	redinger@clarkcountygga.com	(404) 637-0500	DeKalb County	Region II	Mountain District - Atlanta
LIA-045-00	Dodge	Brookhaven	NO				Central Georgia	Region IV	Southwest District - Albany
LIA-045-01	Dodge	Chauncoy	NO				Central Georgia	Region IV	Southwest District - Albany
LIA-045-02	Dodge	Chester	NO				Central Georgia	Region IV	Southwest District - Albany
LIA-045-03	Dodge	Eastman	YES	Randy Knight, Code Enforcement		(478) 374-7721	Central Georgia	Region IV	Southwest District - Albany
LIA-045-04	Dodge	Rhine	NO				Central Georgia	Region IV	Southwest District - Albany
LIA-046-00	Dooly	Rhine	YES	Gary Houston, Zoning Administrator	inspector@isoa.net	(229) 268-4228	Ocmulgee River	Region V	West Central District - Macon
LIA-046-01	Dooly	Byromville	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-046-02	Dooly	Dooling	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-046-03	Dooly	Lilly	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-046-04	Dooly	Pinehurst	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-046-05	Dooly	Unadilla	YES	Gary Houston, Zoning Inspector	inspector@isoa.net	(229) 268-4228	Ocmulgee River	Region V	West Central District - Macon
LIA-046-06	Dooly	Vienna	NO				Ocmulgee River	Region V	West Central District - Macon
LIA-047-00	Dougherty	Vienna	YES	Larry Cook, Public Works Engr Department		(229) 430-6120	Flint River	Region V	Southwest District - Albany
LIA-047-01	Dougherty	Albany	YES	Brad Little, Engineering Department	blittle@doughertyga.us	(229) 883-6955	Flint River	Region V	Southwest District - Albany
LIA-048-00	Douglas	Albany	YES				West Georgia	Region I	Mountain District - Atlanta

LIA-048-01	Douglas	Douglasville	YES					West Georgia	Region I	Mountain District - Albany
LIA-049-00	Early	Blakely	NO					Flint River	Region V	Southwest District - Albany
LIA-048-01	Early	Damascus	YES					Flint River	Region V	Southwest District - Albany
LIA-048-02	Early	Jakin	NO					Flint River	Region V	Southwest District - Albany
LIA-048-03	Early	Jakin	NO					Flint River	Region V	Southwest District - Albany
LIA-050-00	Etchings		NO					Alapaha	Region V	Southwest District - Albany
LIA-051-00	Effingham		YES					(912) 754-8016	Region III	Coastal District - Brunswick
LIA-051-01	Effingham	Guyton	NO					Ogeechee River	Region III	Coastal District - Brunswick
LIA-051-02	Effingham	Rincon	NO					(912) 826-5996	Region III	Coastal District - Brunswick
LIA-051-03	Effingham	Springfield	NO					Ogeechee River	Region III	Coastal District - Brunswick
LIA-052-00	Elbert		YES					(706) 213-1000	Region II	Northwest District - Athens
LIA-052-01	Elbert	Bowman	NO					Broad River	Region II	Northwest District - Athens
LIA-052-02	Elbert	Elberton	YES					(706) 213-3203	Region II	Northwest District - Athens
LIA-053-00	Emanuel		NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-01	Emanuel	Garfield	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-02	Emanuel	Nunez	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-03	Emanuel	Oak Park	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-04	Emanuel	Stillmore	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-05	Emanuel	Summertown	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-06	Emanuel	Swainsboro	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-053-07	Emanuel	Twin City	NO					Ocopee River	Region III	Northwest District - Augusta
LIA-054-00	Evans		NO					Ocopee River	Region III	Coastal District - Brunswick
LIA-054-01	Evans	Bellville	NO					Ocopee River	Region III	Coastal District - Brunswick
LIA-054-02	Evans	Claxton	YES					Ocopee River	Region III	Coastal District - Brunswick
LIA-054-03	Evans	Daisy	NO					Ocopee River	Region III	Coastal District - Brunswick
LIA-054-04	Evans	Hagan	NO					Ocopee River	Region III	Coastal District - Brunswick
LIA-055-00	Fannin		YES					(706) 258-5170	Region I	Mountain District - Cartersville
LIA-055-01	Fannin	Blue Ridge	YES					(706) 632-2091	Region I	Mountain District - Cartersville
LIA-055-02	Fannin	McCaysville	NO					Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-055-03	Fannin	Mineral Bluff	NO					Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-055-04	Fannin	Morgantown	NO					Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-056-00	Fayette		YES					(770) 305-5142	Region IV	Mountain District - Atlanta
LIA-056-01	Fayette	Brooks	YES					Towaliga	Region IV	Mountain District - Atlanta
LIA-056-02	Fayette	Fayetteville	YES					(770) 719-4166	Region IV	Mountain District - Atlanta
LIA-056-03	Fayette	Peachtree City	YES					(770) 631-2538	Region IV	Mountain District - Atlanta
LIA-056-04	Fayette	Tyone	YES					(770) 467-4038	Region IV	Mountain District - Atlanta
LIA-056-05	Fayette	Woolsey	YES					(770) 305-5142	Region IV	Mountain District - Atlanta
LIA-057-00	Floyd		YES					(706) 236-4481	Region I	Mountain District - Cartersville
LIA-057-01	Floyd	Cave Spring	NO					Coosa River	Region I	Mountain District - Cartersville
LIA-057-02	Floyd	Rome	YES					(706) 236-4481	Region I	Mountain District - Cartersville
LIA-058-00	Forsyth		YES					(770) 781-2165	Region II	Mountain District - Cartersville
LIA-058-01	Forsyth	Cumming	YES					(770) 781-2024	Region II	Mountain District - Cartersville
LIA-059-00	Franklin		NO					Broad River	Region II	Northwest District - Athens
LIA-059-01	Franklin	Canon	NO					Broad River	Region II	Northwest District - Athens
LIA-059-02	Franklin	Cartersville	NO					Broad River	Region II	Northwest District - Athens
LIA-059-03	Franklin	Franklin Springs	NO					Broad River	Region II	Northwest District - Athens
LIA-059-04	Franklin	Lavonia	NO					Broad River	Region II	Northwest District - Athens
LIA-059-05	Franklin	Royston	NO					Broad River	Region II	Northwest District - Athens
LIA-060-00	Fulton		YES					(404) 612-7474	Region I	Mountain District - Atlanta
LIA-060-01	Fulton	Alpharetta	YES					(678) 297-6200	Region I	Mountain District - Atlanta
LIA-060-02	Fulton	Atlanta	YES					(404) 546-1306	Region I	Mountain District - Atlanta
LIA-060-03	Fulton	College Park	YES					(404) 669-3762	Region I	Mountain District - Atlanta
LIA-060-04	Fulton	East Point	YES					(404) 270-7023	Region I	Mountain District - Atlanta
LIA-060-05	Fulton	Fairburn	YES					(770) 683-4081	Region I	Mountain District - Atlanta
LIA-060-06	Fulton	Hapeville	YES					(404) 669-2120	Region I	Mountain District - Atlanta
LIA-060-07	Fulton	Mountain Park	YES					(770) 963-4231	Region I	Mountain District - Atlanta
LIA-060-08	Fulton	Palmetto	YES					(770) 594-6196	Region I	Mountain District - Atlanta
LIA-060-09	Fulton	Roswell	YES					(770) 969-9266	Region I	Mountain District - Atlanta
LIA-060-10	Fulton	Sandy Springs	YES					(770) 969-9266	Region I	Mountain District - Atlanta
LIA-060-11	Fulton	Union City	YES					(678) 512-3284	Region I	Mountain District - Atlanta
LIA-060-12	Fulton	Johns Creek	YES					(678) 242-2543	Region I	Mountain District - Atlanta
LIA-060-13	Fulton	Milton	YES					(678) 242-2543	Region I	Mountain District - Atlanta
LIA-060-14	Fulton	Chattahoochee Hills	NO					Limestone Valley	Region I	Mountain District - Cartersville
LIA-061-00	Gilmer		YES					(706) 635-3406	Region I	Mountain District - Cartersville
LIA-061-01	Gilmer	East Ellijay	YES					(706) 276-3111	Region I	Mountain District - Cartersville
LIA-061-02	Gilmer	Ellijay	YES					(706) 635-4771	Region III	Mountain District - Cartersville
LIA-062-00	Glascock		YES					Brier Creek	Region III	Mountain District - Cartersville
LIA-062-01	Glascock	Edgehill	NO					Brier Creek	Region III	Mountain District - Cartersville
LIA-062-02	Glascock	Gibson	NO					Brier Creek	Region III	Mountain District - Cartersville
LIA-062-03	Glascock	Mitchell	NO					Brier Creek	Region III	Mountain District - Cartersville

LIA-063-00	Glynn	YES		Paul Andrews, Interim County Engineer			(912) 554-7492	Satilla	Region III	Coastal District - Brunswick
LIA-064-00	Glynn	NO	Brunswick						Region III	Coastal District - Brunswick
LIA-064-01	Gordon	YES	Calhoun	Tom Burgess, Director, Building Inspection	<a href="mailto:tburgess@gordoncounty.org">tburgess@gordoncounty.org</a>		(706) 629-0505	Coosa River	Region I	Mountain District - Cartersville
LIA-064-02	Gordon	YES	Fairmount	Curtis Craig, Soil and Erosion Inspector	<a href="mailto:ccraig@calnet-qa.net">ccraig@calnet-qa.net</a>		(706) 602-5500	Coosa River	Region I	Mountain District - Cartersville
LIA-064-03	Gordon	NO	Plainville	Matthew Stamey	<a href="mailto:cityfairmount@comcast.net">cityfairmount@comcast.net</a>		(706) 337-5306	Coosa River	Region I	Mountain District - Cartersville
LIA-064-04	Gordon	NO	Ranger					Coosa River	Region I	Mountain District - Cartersville
LIA-064-05	Gordon	NO	Resaca					Coosa River	Region I	Mountain District - Cartersville
LIA-065-00	Grady	YES		Larry Ivy, Code Enforcement	<a href="mailto:lvy@windstream.net">lvy@windstream.net</a>		(229) 377-9857	Flint River	Region V	Southwest District - Albany
LIA-065-01	Grady	YES	Carlo	Brain Hayes, Code Enforcement	<a href="mailto:bhayes@calcoctv.net">bhayes@calcoctv.net</a>		(229) 377-1722	Flint River	Region V	Southwest District - Albany
LIA-065-02	Grady	NO	Whigham						Region V	Southwest District - Albany
LIA-066-00	Greene	YES	Greensboro	Francis Faxon, Building and Zoning			(706) 453-3333	Piedmont	Region IV	Northeast District - Athens
LIA-066-01	Greene	YES	Silcam	Rick Zalar, Code Enforcement	<a href="mailto:zrzier@greenshoroda.gov">zrzier@greenshoroda.gov</a>		(706) 453-7967	Piedmont	Region IV	Northeast District - Athens
LIA-066-02	Greene	NO	Union Point					Piedmont	Region IV	Northeast District - Athens
LIA-066-03	Greene	NO	White Plains					Piedmont	Region IV	Northeast District - Athens
LIA-066-04	Greene	NO	Woodville					Piedmont	Region IV	Northeast District - Athens
LIA-067-00	Gwinnett	YES		Adena Fullard, Plan Review Section Manager	<a href="mailto:adena_fullard@gwinnettcounty.com">adena_fullard@gwinnettcounty.com</a>		(678) 518-6157	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-01	Gwinnett	YES	Berkeley Lake	Tom Rozler, City Administrator			(770) 368-9484	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-02	Gwinnett	YES	Burford	Kim Wolfe, Planning Director			(770) 945-6761	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-03	Gwinnett	YES	Dacula	Joey Murphy, City Planner			(770) 963-7451	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-04	Gwinnett	YES	Duluth	Glenn Coyme, Planning and Development			(770) 476-1790	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-05	Gwinnett	YES	Grayson	David Elrod, Planning and Zoning			(770) 963-8017	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-06	Gwinnett	YES	Lawrenceville	Paul Austin, City Engineer	<a href="mailto:engineering@lawrencevillega.org">engineering@lawrencevillega.org</a>		(770) 277-7532	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-07	Gwinnett	YES	Lilburn	Doug Stacks, Planning/Economic Development	<a href="mailto:dstacks@cityoflilburn.com">dstacks@cityoflilburn.com</a>		(770) 921-2210	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-08	Gwinnett	YES	Norcross	Jeffrey Mueller, PE, City Engineer			(678) 421-2027	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-09	Gwinnett	YES	Shelville	Gayle Johnson, Public Works Director			(770) 965-3527	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-10	Gwinnett	YES	Sugar Hill	Tim Schick, City Planner	<a href="mailto:tschick@cityofisugarhill.com">tschick@cityofisugarhill.com</a>		(770) 945-6996	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-11	Gwinnett	YES	Suwanee	James Miller, PE, Public Works Director			(770) 945-6996	Gwinnett County	Region II	Mountain District - Atlanta
LIA-067-12	Gwinnett	YES	Peachtree Corners	Diana Wheeler			(678) 691-1200	Gwinnett County	Region II	Mountain District - Atlanta
LIA-068-00	Habersham	YES	Alto	Wendell Sullens	<a href="mailto:wsullens@habershams.com">wsullens@habershams.com</a>		(706) 754-1739	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-01	Habersham	YES	Baldwin					Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-02	Habersham	NO	Clarksville					Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-03	Habersham	NO	Corneilla	Jeff Barron, City Planner	<a href="mailto:barron@corneliaga.org">barron@corneliaga.org</a>		(706) 778-8595	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-04	Habersham	NO	Demoist					Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-05	Habersham	NO	Mount Airy					Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-068-06	Habersham	NO	Tallulah Falls					Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-069-00	Hall	YES		Tammil Croy	<a href="mailto:tcroy@hallcounty.org">tcroy@hallcounty.org</a>		(770) 531-6800	Hall County	Region II	Northeast District - Athens
LIA-069-01	Hall	NO	Clermont					Hall County	Region II	Northeast District - Athens
LIA-069-02	Hall	YES	Flowers Branch	John McHenry, Planning and Development Mgr	<a href="mailto:johnm@flowersbranchga.org">johnm@flowersbranchga.org</a>		(770) 937-6279	Hall County	Region II	Northeast District - Athens
LIA-069-03	Hall	YES	Gainesville	Stan Aiken	<a href="mailto:salkan@gainesville.org">salkan@gainesville.org</a>		(770) 535-6882	Hall County	Region II	Northeast District - Athens
LIA-069-04	Hall	NO	Gillsville					Hall County	Region II	Northeast District - Athens
LIA-069-05	Hall	YES	Lula	Dennis Bergin, City Manager	<a href="mailto:bulachy@bellsouth.net">bulachy@bellsouth.net</a>		(770) 869-3801	Hall County	Region II	Northeast District - Athens
LIA-069-06	Hall	YES	Oakwood	Joe Hayes, Building Official	<a href="mailto:jhayes@cityofoakwood.net">jhayes@cityofoakwood.net</a>		(770) 534-2365	Hall County	Region II	Northeast District - Athens
LIA-070-00	Hancock	YES		Jimmy Holton, Dept of Building and Zoning	<a href="mailto:jholton@hancockcountyga.org">jholton@hancockcountyga.org</a>			Piedmont	Region IV	Northeast District - Athens
LIA-070-01	Hancock	NO	Sparta					Piedmont	Region IV	Northeast District - Athens
LIA-071-00	Haralson	YES		Robert W. Smith, Code Enforcement	<a href="mailto:rws018@bellsouth.net">rws018@bellsouth.net</a>		(770) 646-2033	West Georgia	Region I	Mountain District - Cartersville
LIA-071-01	Haralson	YES	Bremen	Steve Muse, Building Official	<a href="mailto:smuse@bremenga.gov">smuse@bremenga.gov</a>		(678) 821-1236	West Georgia	Region I	Mountain District - Cartersville
LIA-071-02	Haralson	NO	Buchanan					West Georgia	Region I	Mountain District - Cartersville
LIA-071-03	Haralson	NO	Tallapoosa					West Georgia	Region I	Mountain District - Cartersville
LIA-071-04	Haralson	NO	Waco					West Georgia	Region I	Mountain District - Cartersville
LIA-072-00	Harris	YES	Hamilton	Mike Rucker, Chief Inspector			(706) 628-4700	Pine Mountain	Region V	West Central District - Macon
LIA-072-01	Harris	YES	Pine Mountain	Buddy Walker, Public Services Director			(706) 628-4768	Pine Mountain	Region V	West Central District - Macon
LIA-072-02	Harris	YES	Shiloh	Mike Rucker, Chief Inspector			(706) 628-4700	Pine Mountain	Region V	West Central District - Macon
LIA-072-03	Harris	NO	Waverly Hall					Pine Mountain	Region V	West Central District - Macon
LIA-073-00	Hart	NO	Bowersville					Broad River	Region II	Northeast District - Athens
LIA-073-01	Hart	NO	Hartwell					Broad River	Region II	Northeast District - Athens
LIA-073-02	Hart	NO	Hartwell					Broad River	Region II	Northeast District - Athens
LIA-074-00	Heard	NO	Cenitahatchee					West Georgia	Region I	Mountain District - Atlanta
LIA-074-01	Heard	NO	Conith					West Georgia	Region I	Mountain District - Atlanta
LIA-074-02	Heard	NO	Epheus					West Georgia	Region I	Mountain District - Atlanta
LIA-074-03	Heard	NO	Franklin					West Georgia	Region I	Mountain District - Atlanta
LIA-075-00	Henry	YES		George Patterson, Environmental Compliance	<a href="mailto:gpatterson@co.henry.ga.us">gpatterson@co.henry.ga.us</a>		(770) 288-6069	Henry County	Region IV	Mountain District - Atlanta
LIA-075-01	Henry	YES	Hampton	JJD Matthews, Community Development	<a href="mailto:jmatthews@cityofhampton-ga.gov">jmatthews@cityofhampton-ga.gov</a>		(770) 946-4306	Henry County	Region IV	Mountain District - Atlanta
LIA-075-02	Henry	YES	Locust Grove	Bert Foster, Community Development Director	<a href="mailto:bfoster@locustgrove-ga.gov">bfoster@locustgrove-ga.gov</a>		(770) 692-2322	Henry County	Region IV	Mountain District - Atlanta
LIA-075-03	Henry	YES	McDonough	Mark Dobson, Building Official	<a href="mailto:mdobson@mcdonough-ga.gov">mdobson@mcdonough-ga.gov</a>		(404) 427-7670	Henry County	Region IV	Mountain District - Atlanta
LIA-075-04	Henry	YES	Stockbridge	Melinda Davies, Code Enforcement Officer	<a href="mailto:mdavies@cityofstockbridge-ga.gov">mdavies@cityofstockbridge-ga.gov</a>		(770) 389-7900	Henry County	Region IV	Mountain District - Atlanta





LIA-109-00	Oglethorpe	NO							Broad River	Region II	Northeast District - Athens
LIA-109-01	Oglethorpe	NO	Arnoldsville						Broad River	Region II	Northeast District - Athens
LIA-109-02	Oglethorpe	NO	Crawford						Broad River	Region II	Northeast District - Athens
LIA-109-03	Oglethorpe	NO	Lexington						Broad River	Region II	Northeast District - Athens
LIA-109-04	Oglethorpe	NO	Mazeys						Broad River	Region I	Mountain District - Cartersville
LIA-110-00	Pauding	YES							Coosa River	Region I	Mountain District - Cartersville
LIA-110-01	Pauding	NO	Braswell						Coosa River	Region I	Mountain District - Cartersville
LIA-110-02	Pauding	NO	Dallas						Coosa River	Region I	Mountain District - Cartersville
LIA-110-03	Pauding	NO	Hiram						Coosa River	Region I	Mountain District - Cartersville
LIA-111-00	Peach	YES							Ocmulgee River	Region V	West Central District - Macon
LIA-111-01	Peach	YES	Byron						Ocmulgee River	Region V	West Central District - Macon
LIA-111-02	Peach	NO	FL Valley						Ocmulgee River	Region V	West Central District - Macon
LIA-112-00	Pickens	YES		Rodney Buckingham, Land Development					(706) 253-8850	Region I	Mountain District - Cartersville
LIA-112-01	Pickens	YES	Jasper	Michael Castagna, Planning and Development					(706) 692-9100	Region I	Mountain District - Cartersville
LIA-112-02	Pickens	YES	Nelson						Limestone Valley	Region I	Mountain District - Cartersville
LIA-112-03	Pickens	NO	Talking Rock						Limestone Valley	Region I	Mountain District - Cartersville
LIA-113-00	Pierce	YES							Satilla River	Region III	Coastal District - Brunswick
LIA-113-01	Pierce	YES	Blackshear						Satilla River	Region III	Coastal District - Brunswick
LIA-113-02	Pierce	YES	Patterson						Satilla River	Region III	Coastal District - Brunswick
LIA-114-00	Pike	YES		K. Morris, Planning and Development					(770) 567-2007	Region IV	West Central District - Macon
LIA-114-01	Pike	NO	Concord						Towaliga	Region IV	West Central District - Macon
LIA-114-02	Pike	NO	Meansville						Towaliga	Region IV	West Central District - Macon
LIA-114-03	Pike	NO	Molena						Towaliga	Region IV	West Central District - Macon
LIA-114-04	Pike	NO	Williamson						Towaliga	Region IV	West Central District - Macon
LIA-114-05	Pike	NO	Zebulon						Towaliga	Region IV	West Central District - Macon
LIA-115-00	Polk	NO							Coosa River	Region I	Mountain District - Cartersville
LIA-115-01	Polk	NO	Aragon						Coosa River	Region I	Mountain District - Cartersville
LIA-115-02	Polk	YES	Cedarrown	Bill Ferrell, Building Inspection					(770) 748-3220	Region I	Mountain District - Cartersville
LIA-115-03	Polk	YES	Rockmart	Stacey Smith, Community Development					(770) 684-5454	Region I	Mountain District - Cartersville
LIA-116-00	Pulaski	YES		Alan (Keith) Carter, Code Enforcement					(478) 783-1418	Region V	West Central District - Macon
LIA-116-01	Pulaski	YES	Hawkinsville	Alan (Keith) Carter, Code Enforcement					(478) 783-1418	Region V	West Central District - Macon
LIA-117-00	Punam	YES		David (Glynn) Leverett, Code Enforcement					(706) 485-2776	Region IV	Northeast District - Athens
LIA-117-01	Punam	YES	Eatonton	David (Glynn) Leverett, Code Enforcement					(706) 485-2776	Region IV	Northeast District - Athens
LIA-118-00	Quitman	NO							Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-118-01	Quitman	NO	Georgetown						Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-119-00	Rabun	YES		James (Les) Neely, Planning Administrator					(706) 782-1579	Region I	Mountain District - Cartersville
LIA-119-01	Rabun	YES	Clayton	Scott Crane, Code Enforcement					(706) 490-1352	Region I	Mountain District - Cartersville
LIA-119-02	Rabun	NO	Dillard						Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-119-03	Rabun	NO	Mountain City						Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-119-04	Rabun	YES	Sky Valley	Keith Krieger, City Building Inspector					(706) 746-2204	Region I	Mountain District - Cartersville
LIA-119-05	Rabun	YES	Tiger						Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-120-00	Randolph	NO							Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-120-01	Randolph	NO	Coleman						Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-120-02	Randolph	NO	Guthbert						Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-120-03	Randolph	NO	Shelman						Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-121-00	Richmond	YES		Hameed Malik, Augusta Engineering Dept					(706) 796-5068	Region III	Northeast District - Augusta
LIA-121-01	Richmond	YES	Augusta	Hameed Malik, Augusta Engineering Dept					(706) 796-5068	Region III	Northeast District - Augusta
LIA-121-02	Richmond	NO	Blythe						Brier Creek	Region III	Northeast District - Augusta
LIA-121-03	Richmond	NO	Hephzibah						Brier Creek	Region III	Northeast District - Augusta
LIA-122-00	Rockdale	YES		Orlando Robinson, Erosion Control Specialist					(770) 278-7108	Region IV	Mountain District - Atlanta
LIA-122-01	Rockdale	YES	Conyers	Steven Owens, Chief Building Inspector					(770) 929-4280	Region IV	Mountain District - Atlanta
LIA-123-00	Schley	NO							Lower Chattahoochee River	Region V	West Central District - Macon
LIA-123-01	Schley	NO	Ellaville						Lower Chattahoochee River	Region V	West Central District - Macon
LIA-124-00	Screven	YES							Ogeechee River	Region III	Northeast District - Augusta
LIA-124-01	Screven	NO	Hiltonia						Ogeechee River	Region III	Northeast District - Augusta
LIA-124-02	Screven	NO	Newington						Ogeechee River	Region III	Northeast District - Augusta
LIA-124-03	Screven	NO	Oliver						Ogeechee River	Region III	Northeast District - Augusta
LIA-124-04	Screven	NO	Rocky Ford						Ogeechee River	Region III	Northeast District - Augusta
LIA-124-05	Screven	YES	Sylvania	Stacy Mathis, Interim City Manager					(812) 564-2121	Region V	Southwest District - Albany
LIA-125-00	Seminole	YES		Donna Jones, County Manager					(229) 524-2878	Region V	Southwest District - Albany
LIA-125-01	Seminole	NO	Donaldsonville						Flint River	Region V	Southwest District - Albany
LIA-125-02	Seminole	NO	Iron City						Flint River	Region V	Southwest District - Albany
LIA-126-00	Spalding	YES							Towaliga	Region IV	Mountain District - Atlanta
LIA-126-01	Spalding	YES	Griffin						Towaliga	Region IV	Mountain District - Atlanta
LIA-126-02	Spalding	NO	Orchard Hill						Towaliga	Region IV	Mountain District - Atlanta
LIA-126-03	Spalding	NO	Sunny Side						Towaliga	Region IV	Mountain District - Atlanta
LIA-127-00	Stephens	NO							Stephens County	Region II	Northeast District - Athens
LIA-127-01	Stephens	NO	Avalon						Stephens County	Region II	Northeast District - Athens
LIA-127-02	Stephens	NO	Martin						Stephens County	Region II	Northeast District - Athens
LIA-127-03	Stephens	YES	Toccoa						Stephens County	Region II	Northeast District - Athens

LIA-128-00	Stewart	YES				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-128-01	Stewart	NO	Lumpkin			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-128-02	Stewart	NO	Richland			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-00	Sumter	YES		Michael Sudduth, Code Enforcement	<a href="mailto:msudduth@sumtercountyga.us">msudduth@sumtercountyga.us</a>	Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-01	Sumter	YES	Americus	Josh Roth, Building Official	<a href="mailto:pubwrks@cityofamericus.net">pubwrks@cityofamericus.net</a>	Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-02	Sumter	NO	Andersonville			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-03	Sumter	NO	DeSoto			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-04	Sumter	NO	Leslie			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-129-05	Sumter	YES	Plains	Michael Sudduth, Code Enforcement	<a href="mailto:msudduth@sumtercountyga.us">msudduth@sumtercountyga.us</a>	Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-130-00	Talbot	NO	Geneva			Pine Mountain	Region V	West Central District - Macon
LIA-130-01	Talbot	NO	Junction City			Pine Mountain	Region V	West Central District - Macon
LIA-130-02	Talbot	NO	Talbot			Pine Mountain	Region V	West Central District - Macon
LIA-131-00	Taliaferro	NO	Talbot			Piedmont	Region IV	Northwest District - Athens
LIA-131-01	Taliaferro	NO	Crawfordville			Piedmont	Region IV	Northwest District - Athens
LIA-131-02	Taliaferro	NO	Sharon			Piedmont	Region IV	Northwest District - Athens
LIA-132-00	Tattall	NO	Crawfordville			Ogeechee River	Region III	Coastal District - Brunswick
LIA-132-01	Tattall	NO	Cobbtown			Ogeechee River	Region III	Coastal District - Brunswick
LIA-132-02	Tattall	NO	Collins			Ogeechee River	Region III	Coastal District - Brunswick
LIA-132-03	Tattall	YES	Glennville	Willie Bland, Code Enforcement	(912) 654-2461	Ogeechee River	Region III	Coastal District - Brunswick
LIA-132-04	Tattall	NO	Manassas			Ogeechee River	Region III	Coastal District - Brunswick
LIA-132-05	Tattall	NO	Reidsville			Ogeechee River	Region III	Coastal District - Brunswick
LIA-133-00	Taylor	NO	Butler			Ocmulgee River	Region V	West Central District - Macon
LIA-133-01	Taylor	NO	Reynolds			Ocmulgee River	Region V	West Central District - Macon
LIA-133-02	Taylor	YES	Reynolds	Charles White, Public Works Director	(229) 868-5688	Ocmulgee River	Region V	West Central District - Macon
LIA-134-00	Telfair	NO	Helena			Alamaha	Region III	Southwest District - Albany
LIA-134-01	Telfair	NO	Jacksonville			Alamaha	Region III	Southwest District - Albany
LIA-134-02	Telfair	NO	Lumber City			Alamaha	Region III	Southwest District - Albany
LIA-134-03	Telfair	NO	McRae	Anthony (Andy) Dykes, Public Works Director	(229) 868-6126	Alamaha	Region III	Southwest District - Albany
LIA-134-04	Telfair	YES	Milan			Alamaha	Region III	Southwest District - Albany
LIA-134-05	Telfair	NO	Scotland			Alamaha	Region III	Southwest District - Albany
LIA-134-06	Telfair	NO	Scotland			Alamaha	Region III	Southwest District - Albany
LIA-135-00	Terrill	YES	Bronwood	Martha Ann Coo	(229) 995-4476	Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-135-01	Terrill	NO	Bronwood			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-135-02	Terrill	NO	Dawson			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-135-03	Terrill	NO	Parrot			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-135-04	Terrill	NO	Sasser			Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-136-00	Thomas	NO	Barwick			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-01	Thomas	NO	Boston			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-02	Thomas	NO	Boston			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-03	Thomas	NO	Coolidge			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-04	Thomas	NO	Meigs			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-05	Thomas	NO	Ochlocknee			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-06	Thomas	NO	Pavo			Middle South Georgia	Region V	Southwest District - Albany
LIA-136-07	Thomas	NO	Thomasville	James Petrak, City Engineer	(229) 227-7000	Middle South Georgia	Region V	Southwest District - Albany
LIA-137-00	Tift	YES	Omega	James Petrak, City Engineer	(229) 386-7961	Middle South Georgia	Region V	Southwest District - Albany
LIA-137-01	Tift	YES	Tifton	Carl Forston, Tift County Development Services	<a href="mailto:carl.forston@tiftcounty.org">carl.forston@tiftcounty.org</a>	Middle South Georgia	Region V	Southwest District - Albany
LIA-137-02	Tift	YES	Tifton	Carl Forston, Tift County Development Services	<a href="mailto:carl.forston@tiftcounty.org">carl.forston@tiftcounty.org</a>	Middle South Georgia	Region V	Southwest District - Albany
LIA-137-03	Tift	NO	TyTy	Bert Crowe, Environmental Management	<a href="mailto:bcrowe@tifton.net">bcrowe@tifton.net</a>	Middle South Georgia	Region V	Southwest District - Albany
LIA-138-00	Toombs	YES	Lyons	John Jones, County Manager	(912) 526-3311	Oocopee River	Region III	Coastal District - Brunswick
LIA-138-01	Toombs	NO	Lyons			Oocopee River	Region III	Coastal District - Brunswick
LIA-138-02	Toombs	NO	Santa Claus			Oocopee River	Region III	Coastal District - Brunswick
LIA-138-03	Toombs	YES	Vidalia	Shaun Oliver, Code Enforcement	(912) 526-7661	Oocopee River	Region III	Coastal District - Brunswick
LIA-139-00	Towns	NO	Hiwassee			Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-139-01	Towns	YES	Young Harris	Gary Weller, Hayes / James	(706) 632-4981	Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-140-00	Treutlen	NO	Soperton		<a href="mailto:info@hayesjames.com">info@hayesjames.com</a>	Oocopee River	Region III	Northwest District - Augusta
LIA-141-00	Troup	YES	Soperton			Oocopee River	Region III	Northwest District - Augusta
LIA-141-01	Troup	YES	Hogansville	Scott Harris, Farmer Bailey and Associates	(706) 845-5885	Roosevelt	Region I	West Central District - Macon
LIA-141-02	Troup	YES	LaGrange	Horner Samuels, Senior Building Inspector	(706) 883-2059	Roosevelt	Region I	West Central District - Macon
LIA-141-03	Troup	YES	Westpoint	Matthew (Matt) Livingston, Building Inspector	<a href="mailto:hsamuels@lagrange-ga.org">hsamuels@lagrange-ga.org</a>	Roosevelt	Region I	West Central District - Macon
LIA-142-00	Turner	NO	Ashburn	Mary Wynn, County Clerk	(229) 567-4313	Middle South Georgia	Region V	Southwest District - Albany
LIA-142-01	Turner	YES	Rebecca	Ben Taylor, City Manager	(229) 567-9431	Middle South Georgia	Region V	Southwest District - Albany
LIA-142-02	Turner	NO	Sycamore			Middle South Georgia	Region V	Southwest District - Albany
LIA-143-00	Twiggs	NO	Danville			Central Georgia	Region IV	West Central District - Macon
LIA-143-01	Twiggs	NO	Jeffersonville			Central Georgia	Region IV	West Central District - Macon
LIA-143-02	Twiggs	NO	Jeffersonville			Central Georgia	Region IV	West Central District - Macon
LIA-144-00	Union	YES	Union	Randy Day, Supervisor	(706) 439-6039	Blue Ridge Mountain	Region I	Mountain District - Cartersville

LIA-144-01	Union	Blairsville	YES	Randy Day, Supervisor	<a href="mailto:uppermt@uniongov.com">uppermt@uniongov.com</a>	(706) 439-6039	Blue Ridge Mountain	Region I	Mountain District - Cartersville
LIA-145-00	Upson	Blairsville	YES				Towaliga	Region IV	West Central District - Macon
LIA-145-01	Upson	Thomaston	YES				Towaliga	Region IV	West Central District - Macon
LIA-145-02	Upson	Yatesville	NO				Towaliga	Region IV	West Central District - Macon
LIA-146-00	Walker	Chickamauga	YES	Wayland Butler	<a href="mailto:planning@walker.ga.us">planning@walker.ga.us</a>	(706) 638-4048	Coosa River	Region I	Mountain District - Cartersville
LIA-146-01	Walker	Lafayette	NO	James Powell, Zoning Administrator	<a href="mailto:jpowell-zoning@comcast.net">jpowell-zoning@comcast.net</a>	(706) 375-3177	Coosa River	Region I	Mountain District - Cartersville
LIA-146-02	Walker	Lookout Mountain	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-146-03	Walker	Rossville	NO				Coosa River	Region I	Mountain District - Cartersville
LIA-147-00	Walton	Between	YES	Sherry Foster, City Clerk	<a href="mailto:sfoster@rossvillega.com">sfoster@rossvillega.com</a>	(706) 866-1325	Walton County	Region IV	Northeast District - Athens
LIA-147-02	Walton	Good Hope	YES				Walton County	Region IV	Northeast District - Athens
LIA-147-03	Walton	Jersey	NO				Walton County	Region IV	Northeast District - Athens
LIA-147-04	Walton	Logansville	YES				Walton County	Region IV	Northeast District - Athens
LIA-147-05	Walton	Monroe	YES				Walton County	Region IV	Northeast District - Athens
LIA-147-06	Walton	Social Circle	NO				Walton County	Region IV	Northeast District - Athens
LIA-147-07	Walton	Wainur Grove	YES				Walton County	Region IV	Northeast District - Athens
LIA-148-00	Ware	Waycross	YES	Wayne Kilmark, Planning and Code Director		(912) 287-4379	Satilla River	Region III	Coastal District - Brunswick
LIA-148-01	Ware	Waycross	YES	Gene Thomas, Engineering Department	<a href="mailto:gthomas@waycrossga.com">gthomas@waycrossga.com</a>	(912) 287-2945	Satilla River	Region III	Coastal District - Brunswick
LIA-148-02	Warren	Camak	NO				Warren County	Region IV	Northeast District - Augusta
LIA-148-03	Warren	Norwood	NO				Warren County	Region IV	Northeast District - Augusta
LIA-148-04	Warren	Warrenton	YES				Warren County	Region IV	Northeast District - Augusta
LIA-150-00	Washington	Washington	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-01	Washington	Davisboro	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-02	Washington	Deepstep	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-03	Washington	Harrison	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-04	Washington	Connee	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-05	Washington	Ridgely	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-150-06	Washington	Sandersville	YES	Chad Forehand, Building Official	<a href="mailto:cforehand@sandersville.net">cforehand@sandersville.net</a>	(478) 552-2525	Central Georgia	Region IV	Northeast District - Augusta
LIA-150-07	Washington	Tennille	YES				Central Georgia	Region IV	Northeast District - Augusta
LIA-151-00	Wayne	Jesup	NO				Satilla River	Region III	Coastal District - Brunswick
LIA-151-01	Wayne	Odum	NO				Satilla River	Region III	Coastal District - Brunswick
LIA-151-02	Wayne	Screven	NO				Satilla River	Region III	Coastal District - Brunswick
LIA-151-03	Wayne	Screven	NO				Satilla River	Region III	Coastal District - Brunswick
LIA-152-00	Webster	Webster	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-152-01	Webster	Preston	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-152-02	Webster	Webster	NO				Lower Chattahoochee River	Region V	Southwest District - Albany
LIA-153-00	Wheeler	Alamo	NO				Oochopee River	Region III	Northeast District - Augusta
LIA-153-01	Wheeler	Glenwood	NO				Oochopee River	Region III	Northeast District - Augusta
LIA-153-02	Wheeler	Glenwood	NO				Oochopee River	Region III	Northeast District - Augusta
LIA-154-00	White	Cleveland	YES	Harry Barton	<a href="mailto:hbarton@whitecounty.net">hbarton@whitecounty.net</a>	(706) 865-6768	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-154-01	White	Helen	YES	Connie Tracas		(706) 865-2017	Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-154-02	White	Helen	NO				Upper Chattahoochee River	Region II	Mountain District - Cartersville
LIA-155-00	Whitfield	Cohutta	YES	Christopher Hester, Inspections	<a href="mailto:chester@whitfieldcounty.ga.com">chester@whitfieldcounty.ga.com</a>	(706) 876-2512	Limestone Valley	Region I	Mountain District - Cartersville
LIA-155-01	Whitfield	Dalton	NO				Limestone Valley	Region I	Mountain District - Cartersville
LIA-155-02	Whitfield	Tunnel Hill	YES	Dena Haverland, Regulatory Compliance	<a href="mailto:dhaverland@dhull.com">dhaverland@dhull.com</a>	(706) 529-1010	Limestone Valley	Region I	Mountain District - Cartersville
LIA-155-03	Whitfield	Varnell	YES	Blake Griffin, City Administrator		(706) 673-2365	Limestone Valley	Region I	Mountain District - Cartersville
LIA-155-04	Whitfield	Varnell	YES	Jason Hall, City Administrator	<a href="mailto:jhall@cityofvarnell.com">jhall@cityofvarnell.com</a>	(706) 694-8800	Limestone Valley	Region I	Mountain District - Cartersville
LIA-156-00	Wilcox	Abbeville	NO				Ocmulgee River	Region V	Southwest District - Albany
LIA-156-01	Wilcox	Pineview	NO				Ocmulgee River	Region V	Southwest District - Albany
LIA-156-02	Wilcox	Pitts	NO				Ocmulgee River	Region V	Southwest District - Albany
LIA-156-03	Wilcox	Pitts	NO				Ocmulgee River	Region V	Southwest District - Albany
LIA-156-04	Wilcox	Rochelle	NO				Ocmulgee River	Region V	Southwest District - Albany
LIA-157-00	Wilkes	Rayle	YES	David Tyler, County Administrator	<a href="mailto:wilkescountyadm@yahoo.com">wilkescountyadm@yahoo.com</a>	(706) 678-2511	Broad River	Region II	Northeast District - Athens
LIA-157-01	Wilkes	Tignall	NO				Broad River	Region II	Northeast District - Athens
LIA-157-02	Wilkes	Washington	YES	David VanHart, Building Official	<a href="mailto:buildingoff@washingtonwilkes.org">buildingoff@washingtonwilkes.org</a>	(706) 678-3277	Broad River	Region II	Northeast District - Athens
LIA-158-00	Wilkinson	Alentown	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-01	Wilkinson	Gordon	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-02	Wilkinson	Inwinton	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-03	Wilkinson	Ivey	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-04	Wilkinson	McIntyre	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-05	Wilkinson	Tombsboro	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-158-06	Wilkinson	Tombsboro	NO				Central Georgia	Region IV	Northeast District - Augusta
LIA-159-00	Worth	Poulan	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-159-01	Worth	Sumner	NO				Middle South Georgia	Region V	Southwest District - Albany
LIA-159-02	Worth	Sylverster	YES	Angel Gray, Code Enforcement	<a href="mailto:ag903@cityofsylvesterga.com">ag903@cityofsylvesterga.com</a>	(229) 776-8505	Middle South Georgia	Region V	Southwest District - Albany
LIA-159-03	Worth	Sylverster	YES				Middle South Georgia	Region V	Southwest District - Albany
LIA-159-04	Worth	Warwick	NO				Middle South Georgia	Region V	Southwest District - Albany

## Local Issuing Authority

Rows

Is Moa? = 'Yes'

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	<u>LIA</u>	<u>Is Moa?</u>	<u>Is Active?</u>	<u>County</u>	<u>Swcd</u>	<u>Region</u>
	Acworth	Yes	Yes	Cobb	Cobb County	Region 1
	Albany	Yes	Yes	Dougherty	Flint River	Region 5
	Alpharetta	Yes	Yes	Fulton	Fulton County	Region 1
	Athens-Clarke County	Yes	Yes	Clarke	Oconee River	Region 2
	Atlanta	Yes	Yes	Fulton	Fulton County	Region 1
	Augusta-Richmond County	Yes	Yes	Richmond	Brier Creek	Region 3
	Bibb County	Yes	Yes	Bibb	Ocmulgee River	Region 5
	Buford	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Carroll County	Yes	Yes	Carroll	West Georgia	Region 1
	Cartersville	Yes	Yes	Bartow	Coosa River	Region 1
	Charlton County	Yes	Yes	Charlton	Satilla River	Region 3
	Clayton County	Yes	Yes	Clayton	Clayton County	Region 4
	Cobb County	Yes	Yes	Cobb	Cobb County	Region 1
	Columbia County	Yes	Yes	Columbia	Columbia County	Region 2
	Columbus-Muscogee County	Yes	Yes	Muscogee	Pine Mountain	Region 5
	Conyers	Yes	Yes	Rockdale	Rockdale County	Region 4
	Covington	Yes	Yes	Newton	Upper Ocmulgee River	Region 4
	Coweta County	Yes	Yes	Coweta	West Georgia	Region 1
	Dalton	Yes	Yes	Whitfield	Limestone Valley	Region 1

	Dekalb County	Yes	Yes	DeKalb	Dekalb County	Region 2
	Dougherty County	Yes	Yes	Dougherty	Flint River	Region 5
	Douglas County	Yes	Yes	Douglas	West Georgia	Region 1
	Douglasville	Yes	Yes	Douglas	West Georgia	Region 1
	Duluth	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Fairburn	Yes	Yes	Fulton	Fulton County	Region 1
	Fayette County	Yes	Yes	Fayette	Towaliga	Region 4
	Fayetteville	Yes	Yes	Fayette	Towaliga	Region 4
	Floyd County	Yes	Yes	Floyd	Coosa River	Region 1
	Forest Park	Yes	Yes	Clayton	Clayton County	Region 4
	Griffin	Yes	Yes	Spalding	Towaliga	Region 4
	Gwinnett County	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Henry County	Yes	Yes	Henry	Henry County	Region 4
	Holly Springs	Yes	Yes	Cherokee	Limestone Valley	Region 1
	Houston County	Yes	Yes	Houston	Ocmulgee River	Region 5
	Johns Creek	Yes	Yes	Fulton	Fulton County	Region 1
	Jonesboro	Yes	Yes	Clayton	Clayton County	Region 4
	Kennesaw	Yes	Yes	Cobb	Cobb County	Region 1
	LaGrange	Yes	Yes	Troup	Roosevelt	Region 1
	Lilburn	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Lowndes County	Yes	Yes	Lowndes	Alapaha	Region 5
	Macon	Yes	Yes	Bibb	Ocmulgee River	Region 5
	McDonough	Yes	Yes	Henry	Henry County	Region 4
	Milton	Yes	Yes	Fulton	Fulton County	Region 1
	Newnan	Yes	Yes	Coweta	West Georgia	Region 1
	Peachtree City	Yes	Yes	Fayette	Towaliga	Region 4

	Peachtree Corners	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Pine Lake	Yes	Yes	DeKalb	Dekalb County	Region 2
	Rockdale County	Yes	Yes	Rockdale	Rockdale County	Region 4
	Rome	Yes	Yes	Floyd	Coosa River	Region 1
	Roswell	Yes	Yes	Fulton	Fulton County	Region 1
	Sandy Springs	Yes	Yes	Fulton	Fulton County	Region 1
	Smyrna	Yes	Yes	Cobb	Cobb County	Region 1
	Snellville	Yes	Yes	Gwinnett	Gwinnett County	Region 2
	Stockbridge	Yes	Yes	Henry	Henry County	Region 4
	Troup County	Yes	Yes	Troup	Roosevelt	Region 1
	Tunnel Hill	Yes	Yes	Whitfield	Limestone Valley	Region 1
	Tyrone	Yes	Yes	Fayette	Towaliga	Region 4
	Valdosta	Yes	Yes	Lowndes	Alapaha	Region 5
	Varnell	Yes	Yes	Whitfield	Limestone Valley	Region 1
	Warner Robins	Yes	Yes	Houston	Ocmulgee River	Region 5
	Waycross	Yes	Yes	Ware	Satilla River	Region 3
	Whitfield County	Yes	Yes	Whitfield	Limestone Valley	Region 1
	Woodstock	Yes	Yes	Cherokee	Limestone Valley	Region 1



# GEORGIA SOIL AND WATER CONSERVATION DISTRICT SUPERVISORS

(C) Chairman

(VC) Vice Chairman

(ST) Secretary Treasurer

\*Appointed Supervisors

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6/17/2016

<u>ALAPAHA</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Berrien	21435 US Highway, Alapaha, GA 31622-	(229) 532-9715	
*	Berrien	436 Rev. Hendley Rd, Nashville, GA 31639-	(229) 543-1630	
	Clinch			
	Clinch	384 Wood Lake Drive, Homerville, GA 31634-	(912) 487-5141	
	Cook	3245 Antioch Road, Adel, GA 31620	(229) 549-5818	
	Cook	400 Math Chaney Road, Adel, GA 31620-	(229) 549-7276	(229) 549-7276
	Echols	461 Roy Padgett Road, Lake Park, GA 31636-	(229) 559-5577	
*	Echols	350 Broadway Street, Lake Park, GA 31636-	(229) 559-8283	
	Lanier	430 N Pecan Street, Lakeland, GA 31635-	(229) 482-3340	
*	Lanier	111 W. Main Street, Lakeland, GA 31635-	(229) 482-2495	(229) 460-3125
	Lowndes	6170 Cat Creek Road, Hahira, GA 31632-	(229) 243-7817	
*	Lowndes	3693 Hickory Grove Road, Valdosta, GA 31606-9624	(229) 242-5318	(229) 242-5318

<u>ALTAMAHA</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Appling	3452 County Farm Road, Baxley, GA 31513-	(912) 367-6431	
*	Appling	595 Jeff Deen Road, SE, Baxley, GA 31513-	(912) 367-6432	(912) 282-9886
	Bacon	1017 Wolf Pit Church Road, Nicholls, GA 31554-3664	(912) 632-5792	
*	Bacon	119 Biscayne Road, Alma, GA 31510-	(912) 632-5036	
	Coffee	P O Box 665, Douglas, GA 31533-	(912) 384-3610	
*	Coffee	P O Box 2703, Douglas, GA 31534-	(912) 384-7614	(912) 384-9224
	Jeff Davis	466 W.H. Smith Road, Denton, GA 31532-	(912) 375-5246	(912) 375-5246
*	Jeff Davis	50 Dogwood Road, Hazlehurst, GA 31539-	(912) 375-5838	
	Telfair	636 Grahamville Road, McRae, GA 31055-	(229) 868-5285	(229) 868-5285
*	Telfair	P O Box 277, McRae, GA 31055-	(229) 868-6268	(229) 868-5619

<u>BLUE RIDGE MOUNTAIN</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Fannin	Box 157 Toccoa Valley Dr., Blue Ridge, GA 30513-	(706) 838-4324	
*	Fannin	10623 Old Highway 76, Morganton, GA 30560-	(706) 374-6585	(706) 455-3008
	Rabun	6595 Warwoman Road, Clayton, GA 30525-	(706) 782-3603	
*	Rabun	130 Louisiana Circle, Clayton, GA 30525	(706) 982-9434	(706) 782-1579
	Towns	1340 Palmer Place 76E, Hiawassee, GA 30546-	(706) 896-3851	(706) 896-3943
*	Towns	P O Box 125, Young Harris, GA 30582-	(706) 994-6272	(706) 379-3111
	Union	290 Wellborn Branch Drive, Blairsville, GA 30512-	(706) 745-1568	(706) 781-8802
*	Union	P O Box 206, Blairsville, GA 30514-		

<u>BRIER CREEK</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
*	C	Burke	622 Lake Pearl Road, Waynesboro, GA 30830-	(706) 554-4510	
		Burke	5506 Highway 56 S., Waynesboro, GA 30830-	(706) 554-0908	
		Glascok			
*		Glascok	4744 Bethel Acres Road, Gibson, GA 30810-	(706) 598-0191	
		Jefferson	1004 James Road, Louisville, GA 30434-	(478) 625-8323	(478) 625-2000
*		Jefferson	P. O. Box 12, Wrens, GA 30833-	(706) 547-6207	(706) 830-7467
		Jenkins	1676 Highway 23 North, Millen, GA 30442-	(478) 982-5413	
*	T	Jenkins	932 Tillmanstone Road, Millen, GA 30442-	(478) 982-5458	(478) 982-4285
		Richmond	5170 Henderson Rd, Hephzibah, GA 30810-	(706) 592-0155	(706) 664-8842
*	VC	Richmond	P.O. Box 192, Hephzibah, GA 30815-	(706) 592-6322	
<u>BROAD RIVER</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
		Banks	2063 Georgia Highway 326, Commerce, GA 30530-	(706) 335-2953	
*	VC	Banks	1665 Georgia Highway 326, Commerce, GA 30530-	(706) 335-5042	
		Elbert	2723 Winns Mill Road, Royston, GA 30662-	(706) 245-5631	
*		Elbert	3601 Mize Farm Drive, Bowman, GA 30624-	(706) 245-4334	
		Franklin			
*		Franklin	1040 Crenshaw Road, Martin, GA 30557-	(706) 384-4463	(706) 384-4813
		Hart			
*	Ch	Hart	1407 Airline & Goldmine Road, Canon, GA 30502-		
		Madison	625 Donald Smith Road, Hull, GA 30646-	(706) 789-2531	
*	C	Madison	9766 Highway 98 W, Commerce, GA 30530-	(706) 335-7905	(706) 621-1892
		Oglethorpe	340 Old Edwards Road, Arnoldsville, GA 30619-	(706) 742-2040	
*	ST	Oglethorpe	563 Hutchins Road, Crawford, GA 30639-	(706) 743-5947	
		Wilkes	1277 Tignall Rd, Washington, GA 30673-	(706) 678-5705	(706) 318-0445
*		Wilkes	6895 Elberton Road, Tignall, GA 30668-		
<u>CATOOSA COUNTY</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
		Catoosa	360 Bowman Springs Road, Ringgold, GA 30736-	(706) 935-5584	(706) 935-5572
C		Catoosa	370 Houston Valley Road, Ringgold, GA 30736-	(706) 965-9173	(423) 227-7929
		Catoosa	2269 Three Notch Road, Ringgold, GA 30736-	(706) 965-8542	(706) 876-1108
*	VC	Catoosa	P O Box 295, Ringgold, GA 30736-	(706) 935-4324	(404) 635-4600
		Catoosa	546 Tom Hunt Road, Chickamauga, GA 30707-	(706) 375-4049	(423) 598-3867

**CENTRAL GEORGIA**

	<b><u>COUNTY</u></b>	<b><u>ADDRESS</u></b>	<b><u>HOME PHONE</u></b>	<b><u>OFFICE PHONE</u></b>
	Bleckley	176 Nicholson Carr Rd., Cochran, GA 31014-	(478) 934-6856	(478) 290-8695
*	Bleckley	108 Marie Drive, Cochran, GA 31014-	(478) 934-2932	(478) 278-0204
	Dodge	2391 Milan Eastman Road, Eastman, GA 31023-	(478) 285-1343	(478) 374-6055
*	Dodge	2594 Chauncey-Rhine Highway, Eastman, GA 31023-	(478) 374-4259	
	Johnson	997 Bill Oliver Road, Wrightsville, GA 31096-	(478) 864-2253	
*	Johnson	5 Pleasant Grove Church Rd., Wrightsville, GA 31096-	(478) 864-3754	
	Laurens	888 Hillbridge Road, Dexter, GA 31019-	(478) 875-3476	(478) 875-3476
*	Laurens	936 Green Loop, Montrose, GA 31065-	(478) 676-3489	(877) 678-2863
	Twiggs	881 Sam Floyd Road, Danville, GA 31017-	(478) 945-3793	
*	Twiggs	8358 Bullard Road, Dry Branch, GA 31020-	(478) 945-3069	
	Washington	270 News Bridge Road, Tennille, GA 31089-	(478) 552-0361	(478) 552-7413
*	Washington	1289 Brantley Road, Harrison, GA 31035-	(478) 552-9430	(478) 357-1300
	Wilkinson	135 Springhill Drive, Irwinton, GA 31042-	(478) 946-2081	(478) 946-2667
*	Wilkinson	P O Box 362, Gordon, GA 31031-	(478) 628-2551	(478) 946-6045

**CLAYTON COUNTY**

	<b><u>COUNTY</u></b>	<b><u>ADDRESS</u></b>	<b><u>HOME PHONE</u></b>	<b><u>OFFICE PHONE</u></b>
VC	Clayton	7761 Morant Drive, Jonesboro, GA 30236-	(770) 478-5642	(770) 477-3798
	Clayton	4613 Bouldercrest Road, Ellenwood, GA 30294-	(404) 968-3105	(770) 473-5480
C	Clayton	7026 New Dale Road, Rex, GA 30273-	(478) 251-8525	(770) 467-4252
*	T	7753 Kennington Lane, Jonesboro, GA 30236-	(770) 478-2040	
*	Clayton	2587 Carnes Crossing Way, Jonesboro, GA 30236-	(678) 817-3735	(678) 634-0953

**COASTAL**

	<b><u>COUNTY</u></b>	<b><u>ADDRESS</u></b>	<b><u>HOME PHONE</u></b>	<b><u>OFFICE PHONE</u></b>
V	Bryan	276 Sterling Woods Drive, Richmond Hill, GA 31324-	(912) 727-2848	(912) 727-4290
*	ST	374 Strathy Hall Drive, Richmond Hill, GA 31324-	(912) 727-3334	
	Chatham	702 Bloomingdale Road, Bloomingdale, GA 31302-	(912) 748-4241	(912) 748-4210
*	Chatham	126 Grove Point Island Road, Savannah, GA 31419-	(912) 925-7790	(912) 920-8100
	Liberty	P O Box 2187, Hinesville, GA 31310-	(912) 368-5920	(912) 271-0133
*	Liberty	1172 Fleming Loop Road, Fleming, GA 31309-	(912) 884-2304	(912) 876-3130
	Long	484 Stafford Avenue, Ludowici, GA 31316-	(912) 545-9421	
*	Long	1547 Elim Church Road, NE, Ludowici, GA 31316-	(912) 266-0005	
	McIntosh	P.O. Box 2298, Darien, GA 31305-	(912) 832-2401	
*	McIntosh	P O Box 196, Darien, GA 31305-	(912) 437-4526	

<u>COBB COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
C	Cobb	4880 Lower Roswell Rd., Ste 165# 524, Marietta, GA 30068-4385	(770) 993-9992	(404) 512-4583
T	Cobb	2100 Cannon Way, Marietta, GA 30064-	(770) 422-4676	(770) 421-8140
	Cobb	3587 Spencer Lane, Marietta, GA 30066-	(770) 928-2430	(770) 641-3707
*	Cobb	605-B Mauldin Drive, Woodstock, GA 30188	(770) 973-2288	(678) 445-0077
*	Cobb	2681 Moon Cabin Drive, Powder Springs, GA 30127-	(770) 943-7237	(678) 461-3412
<u>COLUMBIA COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
VC	Columbia	2102 Magnolia Parkway, Grovetown, GA 30813-	(706) 860-1039	(706) 868-3736
	Columbia	P. O. Box 204014, Martinez, GA 30917-	(706) 863-2885	(706) 799-7920
ST	Columbia	5260 Columbia Road, Grovetown, GA 30813-	(706) 863-1413	
*	Columbia	152 Misty Woods Drive, Grovetown, GA 30813-	(706) 860-4763	(706) 868-3711
*	Columbia	189 Kestwick Drive, Martinez, GA 30907-	(706) 860-7850	(706) 868-4670
<u>COOSA RIVER</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Bartow	161 Jimmie Nelson Road, Kingston, GA 30145-	(770) 655-5406	(770) 655-5406
*	Bartow	20 Angus Trail, Cartersville, GA 30120-	(770) 382-4963	(404) 656-2804
*	Chattooga	1407 Fish Hatchery Road, Summerville, GA 30747-	(706) 857-7689	
	Chattooga	333 Parker Lane, Lyerly, GA 30730-	(706) 875-4834	(706) 857-0700
	Dade	1688 Highway 136, Trenton, GA 30752-	(706) 657-2001	
	Dade	, Trenton, GA 30752-		
	Floyd	462 Reynolds Bend Drive SE, Rome, GA 30161-	(706) 291-8651	
	Floyd	3853 Calhoun Road NE, Rome, GA 30161-	(706) 291-4849	
	Gordon			
*	Gordon	P O Box 1269, Calhoun, GA 30703-	(706) 629-3534	(706) 346-5599
	Paulding			
*	Paulding	3836 Hiram Douglasville Hwy, Hiram, GA 30141-	(770) 943-2253	
	Polk	206 Judkin Mill Road, Cedartown, GA 30125-	(770) 748-1867	
*	Polk	558 Runyon Road, Cedartown, GA 30125-	(770) 749-9239	(770) 317-5630
	Walker	3617 Chamberlain Road, LaFayette, GA 30728-	(706) 638-1885	
*	Walker	6204 W. Armuchee Road, Summerville, GA 30747-	(706) 397-2407	(706) 638-0258

	<u>DEKALB COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	C/	DeKalb	432 Burlington Road NE, Atlanta, GA 30307-	(404) 378-6040	
		DeKalb	1703 Dyson Drive NE, Atlanta, GA 30307-1315		
		DeKalb	P O Box 1341, Decatur, GA 30031-	(404) 377-8388	(404) 372-1051
		DeKalb	3967 Belmont Ridge Drive, Lithonia, GA 30038-	(770) 480-9887	(678) 418-9460
*		DeKalb	4672 Fellswoods Drive, Stone Mountain, GA 30083-	(404) 290-9019	
		<u>FLINT RIVER</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
		Baker	3952 Newton Highway, Newton, GA 39870-	(229) 734-4046	(229) 336-3306
*		Baker	5486 GA Highway 253, Colquitt, GA 39837-	(229) 416-8107	
	C	Calhoun	P. O. Box 10, Leary, GA 39862	(229) 881-2767	
*		Calhoun	14060 Georgia Highway 37, Morgan, GA 39866-	(229) 835-2585	
	VC	Decatur	801 Attapulgus Road, Climax, GA 39834-	(229) 246-2504	
*		Decatur	2107 Backlake Circle, Bainbridge, GA 39819-	(229) 465-3987	(229) 465-3987
		Dougherty	1930 Dawson Road, Albany, GA 31707-	(229) 347-9197	(229) 883-1143
*		Dougherty	2617 East Doublegate Dr, Albany, GA 31721-	(229) 436-0016	(229) 430-2900
		Early	P O Box 628, Blakely, GA 39823	(229) 723-3808	(229) 723-3525
*		Early	14050 Highway 200 West, Damascus, GA 39841-	(229) 725-4202	
		Grady	2536 Hairrell Road, Whigham, GA 39897-	(229) 377-2255	(229) 221-8255
*		Grady	192 Harrell Avenue, Whigham, GA 39897-	(229) 762-4207	
		Miller	233 Bush Grimes Road, Colquitt, GA 39837-	(229) 758-2102	(229) 221-1781
*		Miller	209 Mayhaw Road, Colquitt, GA 39837-	(229) 758-3847	(229) 758-3847
		Mitchell	5067 River Road, Camilla, GA 31730-	(229) 336-0241	
*		Mitchell	5806 Horseshoe Road, Camilla, GA 31730	(229) 336-7767	(229) 336-7767
	T	Seminole	5966 Highway 91 South, Donalsonville, GA 39845-	(229) 524-2814	(229) 524-5720
*		Seminole	5133 Hornsby Road, Iron City, GA 39859-	(229) 724-2915	(229) 220-5751
		<u>FULTON COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	C/	Fulton	330 River Knoll Drive, Sandy Springs, GA 30328-	(678) 615-7980	(770) 433-3552
		Fulton	2631 Forrest Avenue NW, Atlanta, GA 30318-	(404) 794-1507	(770) 361-6661
	VC	Fulton	4274 McClatchey Circle NE, Atlanta, GA 30342-	(404) 252-9218	(770) 263-1012
*		Fulton	1538 Jones Road, Roswell, GA 30075-	(706) 614-9047	(678) 614-2369
*		Fulton	615 Scarlet Oak Trail, Milton, GA 30004-0914	(770) 998-1276	(404) 867-8283

<u>GWINNETT COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
David VanLandingham	Gwinnett	3763 Galdway Drive, Snellville, GA 30039-	(770) 985-4269	
VC Lawrence K Kaiser	Gwinnett	325 Amberbrook Circle, Grayson, GA 30017-	(770) 609-6193	(404) 909-5619
C Ellis R Lamme	Gwinnett	676 Tanner Road, Dacula, GA 30019-	(770) 365-2593	(770) 365-2593
* Louis Young Jr	Gwinnett	935 Hazel Court, SW, Liburn, GA 30047-	(770) 335-4142	(770) 325-0357
* Matthew Retter	Gwinnett	3012 Loreli Lane, Lawrenceville, GA 30044-	(770) 231-0652	(770) 963-7944

<u>HALL COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Edward E Anderson	Hall	5118 High Meadow Run, Gainesville, GA 30506-	(770) 506-0400	(770) 531-6988
C Mike R Haynes	Hall	4877 Clarks Bridge Road, Gainesville, GA 30506-	(770) 983-3035	(770) 983-3352
ST T Larry Nix	Hall	3776 Anglin Drive, Gainesville, GA 30507-	(770) 534-7890	(770) 534-7890
* Jane R Hemmer	Hall	3645 White Sulphur Road, Gainesville, GA 30507-	(770) 532-2768	(770) 532-1203
* Thomas S Blackstock	Hall	3721 Blackstock Road, Talmo, GA 30575-	(770) 535-0242	(770) 533-0363

<u>HENRY COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Vikki Consiglio	Henry	305 Broadmoor Way, McDonough, GA 30253-	(770) 507-3232	(404) 362-9995
C Ronald M Turpin	Henry	812 Elliott Road, McDonough, GA 30252-	(770) 474-1543	
Amy Rollins	Henry	52 New Hope Drive, McDonough, GA 30252-	(678) 850-2466	
* Butch Oliver	Henry	2425 McGarity Road, McDonough, GA 30252-	(770) 914-7863	(770) 862-0266
* Hugh M Simpson	Henry	688 Oakland Road, McDonough, GA 30253		

<u>LAMAR COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Russ Walters	Lamar	956 Johnstonville Road, Barnesville, GA 30204-	(404) 444-0274	
Roy Studle	Lamar	374 Piedmont Road, Barnesville, GA 30204-	(678) 967-9984	
S/T Lynn Parker	Lamar	530 Fredonia Church Rd., Barnesville, GA 30204-	(770) 358-6826	
* Chad Thompson	Lamar	1211 Ramah Church Rd, Barnesville, GA 30204	(770) 358-3401	(770) 358-8051
* Andy Bush	Lamar	1153 Van Buren Drive, Barnesville, GA 30204-	(770) 358-1311	(770) 358-1311

<u>LIMESTONE VALLEY</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	William Grizzle	Cherokee	762 Lower Union Hill Road, Canton, GA 30115-	(770) 345-5305	(770) 597-6306
*	Don Keeter	Cherokee	501 Pineview Drive, Canton, GA 30014-	(770) 265-8704	(706) 253-9665
	Kenny McClure	Gilmer	3883 Mountaintown Road, Ellijay, GA 30540-	(706) 635-7055	(706) 889-7055
*	Paul Nealey	Gilmer	175 Jennifer Drive, Ellijay, GA 30540-	(706) 635-5629	(706) 692-3581
	James F. Petty	Murray	805 Little Murray Road, Crandall, GA 30711-	(706) 695-4374	(706) 264-2368
*	Linda Loughridge	Murray	322 Ballground Road, Chatsworth, GA 30705-	(706) 695-4987	
	Jerry L Edwards	Pickens	49 Cape Trail, Jasper, GA 30143-	(706) 692-5610	(706) 253-7035
*	Robert Jones	Pickens	, Jasper, GA 30143-		
	Wesley Fogle	Whitfield	159 Farmdale Way, Dalton, GA 30721-	(706) 270-5997	(706) 271-7240
	Bob Seaton	Whitfield	P.O. Box 26, Cohutta, GA 30710-	(706) 278-7073	
<u>LINCOLN COUNTY</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Ch	Leroy Bufford	Lincoln	1664 Graball Road, Tignall, GA 30668-	(706) 359-2180	(706) 359-1390
	VACANT	Lincoln	, , GA 30817-		
S	Stanton E. Tankersley Sr	Lincoln	4458 Double Branches Road, Lincolnton, GA 30817-	(706) 359-3077	
*	T Olin Reed	Lincoln	2167 Reed Road, Lincolnton, GA 30817-	(706) 359-4677	
*	Marcus Matthews	Lincoln	4811 Clay Hill Road, Lincolnton, GA 30817-	(706) 359-3802	(706) 359-7179
<u>LOWER CHATTAHOOCHEE RIVER</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Chad Brooks	Clay	162 Enterprise Road, Edison, GA 39846-	(229) 835-3198	
	Gerald Isler	Clay	2902 Edison Highway, Coleman, GA 39836-		
	Wendell Arrington	Lee	P O Box 1277, Leesburg, GA 31763-	(229) 759-8841	
*	Julian Thaggard	Lee	299 Grave-Springs Road, Leesburg, GA 31763-	(220) 975-9060	(229) 759-6321
	George Cathrall	Quitman	110 Sunny View Farms Rd., Georgetown, GA 39854-	(229) 334-9285	(334) 726-1173
*	Ralph M Balkcom Jr	Quitman	344 Ralph Sr Road, Georgetown, GA 39854-	(334) 687-1325	
	Frankie Sauls	Randolph	Route 1 Box 675, Shellman, GA 39886-	(229) 679-2264	
*	Hiram Bo Beard	Randolph	452 Five Forks Road, Shellman, GA 39886-	(229) 679-5714	
	VACANT	Schley			
*	Burt Strange	Schley	47 Strange Rd, Ellaville, GA 31806-	(229) 937-2234	(229) 938-2579
	Mac Lane	Stewart	10567 GA Highway 39, Omaha, GA 31821-	(334) 750-1062	
	Richard Morrison	Stewart	1715 Lynch Road, Lumpkin, GA 31815-	(229) 838-4955	(229) 942-3401
	William Reid	Sumter	750 Tallent Store Road, Americus, GA 31719-	(229) 389-1387	(229) 924-2474
*	Bill Bowen	Sumter	789 Highway 49 South, Americus, GA 31719-	(229) 924-7581	
	Jack H Hufstetler	Terrell	1334 Johnson Street, SE, Dawson, GA 39842-	(229) 995-5524	
VC	Mark Masters	Terrell	5000 Sasser Herod Road, Dawson, GA 39842-	(229) 995-2980	(229) 854-4258
	VACANT	Webster			
*	Andrew Payne	Webster	1872 Payne Pond Road, Weston, GA 31832-	(229) 828-2140	(229) 815-4560

	<u>MCDUFFIE COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
T	George R Reeves	McDuffie	3390 Wrens Highway, Thomson, GA 30824-	(706) 595-2980	
	Larry D Morris	McDuffie	3125 Whiteoak Road, Thomson, GA 30824-	(706) 595-3344	(706) 595-5969
VC	Frederick R Vergeer	McDuffie	3256 Cedar Road NW, Thomson, GA 30824-	(706) 595-5321	(706) 541-6133
*	Donald F Palmer Jr	McDuffie	153 Story-Randall Road, Thomson, GA 30824-	(706) 595-5391	(706) 595-3777
*	Roger Burton	McDuffie	298 Hobbs Mill Road, Dearing, GA 30808-	(706) 595-8736	

	<u>MIDDLE SOUTH GEORGIA</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
C	Milton Ussery	Ben Hill	P.O. Box 1016, Fitzgerald, GA 31750-	(229) 424-3532	
*	Joseph K Phillips	Ben Hill	244 El Harris Road, Fitzgerald, GA 31750	(229) 483-4083	(229) 424-3620
	Dan Niewoehner	Brooks	3152 Highway 84, Dixie, GA 31629-	(229) 264-5889	(229) 263-1922
*	Van F. Murphy	Brooks	9284 Valdosta Highway, Quitman, GA 31643-	(229) 775-2338	(229) 324-2350
	Thomas Ralph Coleman Jr	Colquitt	4518 Dunn Road, Hartsfield, GA 31756-	(229) 941-2930	(229) 941-5394
*	Preston Jimmerson	Colquitt	3618 Funston Sale City Road, Doerun, GA 31744-	(229) 454-9530	
	John Woodard	Crisp	170 Drayton Lane, Cordele, GA 31015-	(229) 273-3510	(229) 273-3510
*	James Farrow Baker	Crisp	165 Bodrey Road, Cordele, GA 31015-	(229) 273-3626	(229) 273-7811
	Bob Martin	Inwin	310 Cornflower Road, Ocilla, GA 31774-	(229) 468-4239	
*	Donald McWhorter	Inwin	447 Ocierfield Drive, Fitzgerald, GA 31750-	(229) 468-5124	
	Donald L. Hall Sr	Thomas	1094 Rose Garden Road, Meigs, GA 31765-	(229) 683-3322	(229) 413-3403
*	Michael Wheeler	Thomas	3185 Enon Road, Coolidge, GA 31738-	(229) 263-2552	(229) 263-4164
	Brian Ponder	Tift	121 W R Ponder Road, Tifton, GA 31794-	(229) 528-4714	(229) 392-1374
*	Grady M Thompson Jr	Tift	21 Connell Ray Road, Tifton, GA 31794-	(229) 382-5981	(229) 382-6117
	Ross Kendrick	Turner	510 Wagon Wheel Road, Sycamore, GA 31790-	(229) 567-0641	(229) 238-1774
*	Alex Sumner	Turner	315 Sumner Road, Sycamore, GA 31790-	(229) 567-3721	
	Keith White	Worth	648 Shingler/Sumner Rd., Poulan, GA 31781-	(229) 776-5834	(229) 317-1721
*	William M. Young Jr.	Worth	165 Billy Young Road, Sumner, GA 31789-	(229) 776-4108	(229) 881-0275

<u>OCMULGEE RIVER</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
* Lindsay Holliday	Bibb	3091 Ridge Avenue, Macon, GA 31204-	(478) 742-8699	(478) 746-5695
* Donald Newberry	Bibb	5710 Rogers Road, Lizella, GA 31052-5518		
T Charlie F Harris	Crawford	6717 U S Highway 341 North, Musella, GA 31066-	(478) 836-4475	(478) 825-0865
* Jimmy Moncrief	Crawford	4076 Hollis Road, Roberta, GA 31078-	(478) 836-4749	
* John W Sanders Sr	Dooly	1387 Shiloh Road, Vienna, GA 31092-	(229) 938-3456	(229) 268-9181
* James D Warbington Sr	Dooly	3200 Tippettville Road, Vienna, GA 31092-	(229) 268-6946	(478) 987-1173
* Larry Morton	Houston	152 Morton Road, Kathleen, GA 31047-	(478) 987-3109	(478) 987-3386
* David Muse	Houston	P O Box 35, Perry, GA 31069-	(478) 987-3386	
VACANT	Macon			
* Gary Slaton	Macon	P O Box 235, Oglethorpe, GA 31068-	(478) 472-8675	(478) 472-8675
* George Hancock	Peach	5409 Mosley Road, Byron, GA 31008-	(478) 825-2666	(478) 825-5323
* VACANT	Peach			
C Timothy Allen	Pulaski	2716 Lower River Road, Eastman, GA 31023-	(478) 955-0108	(478) 862-3115
* Robert A Lancaster	Pulaski	1240 Eastman Highway, Hawkinsville, GA 31036-	(478) 892-2855	
* James H Willis	Taylor	164 Carpenter Road, Rupert, GA 31081-	(478) 862-5749	
* Jack McGlaun	Taylor	426 W Old Wire Road, Butler, GA 31006-	(478) 862-3240	(229) 365-3066
* Larry Stubbs	Wilcox	1982 Matthews Road, Abbeville, GA 31001-	(229) 365-2419	
* Leon Arant	Wilcox	456 Clements Road, Pitts, GA 31072-	(229) 365-3612	
<u>OCONEE RIVER</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
VACANT	Barrow			
* Doug Garrison	Barrow	636 Iris Lane, Winder, GA 30680-	(770) 867-6413	(678) 858-2978
* Ray C. Rozier	Clarke	301 Timber Creek Drive, Athens, GA 30605-	(706) 369-1543	(706) 296-2657
* Fred O. Smith	Clarke	425 Rivermont Road, Athens, GA 30606	(706) 548-2599	(706) 247-6777
* William D Johnson	Jackson	2738 Cedar Grove Church Road, Jefferson, GA 30549-	(706) 367-8634	(706) 215-5322
* Tony Michael Embrick	Jackson	4356 Highway 334, Commerce, GA 30530-	(706) 335-6681	(206) 296-3885
* Janice Marable	Oconee	5981 High Shoals Road, Bishop, GA 30621-	(706) 769-5154	(706) 338-0204
* Bernard A Garrett	Oconee	1100 Bernard Garrett Road, Statham, GA 30666-	(770) 725-7266	(770) 725-7655

<u>OGEECHEE RIVER</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
ST	Charles L. Finch	Bulloch	3894 Old Portal Road, Portal, GA 30450-	(912) 865-2939	(912) 865-2939
* C	Fred G Blitch Jr	Bulloch	625 Fred Blitch Road, Statesboro, GA 30458-	(912) 865-5454	(912) 865-5454
	Jerry Lanier	Candler	12982 Salem Church Road, Metter, GA 30439-	(912) 685-2845	
	Randy Durden	Candler	1376 Racco Road, Metter, GA 30439-	(912) 685-3260	
	Joseph Davis	Effingham	4100 Stillwell-Clyo Road, Clyo, GA 31303-	(912) 754-6956	(912) 660-7035
	Joseph Burns	Effingham	5374 Clyo-Kildare Road, Newington, GA 30446-	(912) 754-6606	(912) 213-9133
	Charles Sands Jr	Evans	P O Box 26, Daisy, GA 30423-	(912) 739-1358	(912) 687-1280
* VC	Gary Bell	Evans	P O Box 36, Bellville, GA 30414-	(912) 739-4177	
	Lamar E Zipperer	Screven	3574 Newington Highway, Sylvania, GA 30467-	(912) 829-4241	(912) 682-2946
* *	A.W. Robinson III	Screven	2831 Cameron Road, Sylvania, GA 30467-	(912) 863-7653	
	Adair Branch	Tattnall	14845 Highway 169, Glennville, GA 30427-	(912) 654-4014	
* *	Lavanda Lynn	Tattnall	2585 Cedar Creek Church Rd., Collins, GA 30421-	(912) 684-3216	
<u>OHOOPEE RIVER</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
	Jerry H Fagler	Emanuel	618 Bird Flanders Road, Swainsboro, GA 30401-	(912) 469-3626	
* *	F Bennett Whitfield	Emanuel	2561 Lambs Bridge Road, Twin City, GA 30471	(478) 763-2951	(478) 763-3308
	VACANT	Montgomery			
	Howard Morris	Montgomery	3770 Hwy 221, Mount Vernon, GA 30445-	(912) 594-6884	
	Ben Newton	Toombs	123 Sid Newton Road, Lyons, GA 30436-	(912) 565-7150	
* *	Chris Hopkins	Toombs	1234 Marvin Church Road, Lyons, GA 30436-	(912) 565-8318	(912) 293-3045
ST	LaVerne W Davis	Treutlen	5470 3rd Street North, Soperton, GA 30457-	(912) 529-4798	
	Bill Barrett	Treutlen	797 Hwy 221, Soperton, GA 30457-	(912) 529-3519	
	VACANT	Wheeler			
* *	Lynn Johnson	Wheeler	429 W. Highway 126, Alamo, GA 30411-	(912) 568-7672	

<u>PIEDMONT</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
* Richard Torrance	Baldwin	740 Lake Laurel Road NE, Milledgeville, GA 31061-	(478) 451-3071	(478) 251-6693
* David Blizzard	Baldwin	179 O'Quinns Pond Road NE, Milledgeville, GA 31061-	(478) 453-3115	
* Tim Duvall	Greene	1440 Copelan Road, Madison, GA 30650	(706) 453-2521	(706) 453-6079
* Larry J Eley	Greene	2331 Eley Road, White Plains, GA 30678-	(706) 467-2184	
* Richard S Joslyn	Hancock	9687 Jones Street, Sparta, GA 31087-	(706) 444-0407	(706) 444-7412
* Bob Woodall Jr.	Hancock	1664 Rives Road, Sparta, GA 31087	(706) 444-5464	
* Thomas Yarbrough	Jones	P O Box 426, Gray, GA 31032-0426	(478) 986-4129	(478) 256-2933
* Hoyt Brown	Jones	126 Oliver Greene Road, Gray, GA 31032-	(478) 986-1765	(478) 986-4739
* John Marvin Ruark	Morgan	6350 Bostwick Road, Bostwick, GA 30623-	(706) 342-3290	(706) 342-0553
* Patrick H Hardy	Morgan	3891 Bethany Road, Madison, GA 30650-	(706) 342-1448	(706) 342-1448
* Heck Davis	Putnam	302 Glades Road NW, Eatonton, GA 31024-	(706) 485-8961	(706) 485-8020
* Pat Weems	Putnam	734 Sparta Highway, Eatonton, GA 31024-	(706) 485-5922	
* Thomas MacFie	Taliaferro	6360 Lower Mill Road NE, Crawfordville, GA 30631-	(770) 307-7311	
* Stanley Jackson	Taliaferro	1931 Malcom Place Road, SW, Crawfordville, GA 30631-	(706) 456-2757	(706) 456-2757

<u>PINE MOUNTAIN</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
* Benjamin M Miller	Chattahoochee	115 Manta Road, Cusseta, GA 31805-	(706) 577-1248	(706) 989-3312
* Larry F Dillard	Chattahoochee	502 Patterson Road, Cusseta, GA 31805-	(706) 989-1059	(706) 329-3670
* Glen Bray	Harris	57 Fairhaven Drive, Eilerslie, GA 31807-	(706) 587-1084	(706) 562-0048
* Jerold K Edwards	Harris	2439 Barnes Mill Road, Hamilton, GA 31811-	(706) 628-4844	(706) 582-2833
* Joey S Wells	Marion	190 Ronnie Road, Buena Vista, GA 31803-	(229) 649-7181	(229) 649-7267
* Sam T Rigdon Sr	Marion	320 Oliver Street, Buena Vista, GA 31803-	(229) 649-7547	(229) 649-7547
* VACANT	Muscogee			
* Harvey L Milner	Muscogee	8558 Liberty Hall Drive, Midland, GA 31820-4293	(706) 569-4264	(706) 653-4160
* Lee Lucas Jr.	Talbot	P O Box 454, Talbotton, GA 31827-	(706) 665-8839	(706) 665-8839
* Frank J Jordan Jr	Talbot	P O Box 456, Talbotton, GA 31827-	(706) 665-8678	(706) 665-8606

<u>ROCKDALE COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
* David Shipp	Rockdale	3061 Stone Bridge Trail, Conyers, GA 30094-	(770) 843-0313	(770) 483-9474
* Russell Tinning	Rockdale	2644 Paces Landing Drive, Conyers, GA 30012-	(678) 935-8159	(770) 483-1110
* VACANT	Rockdale			
* Fox McCarthy	Rockdale	1776 Old Camp Trail, Conyers, GA 30012-	(770) 483-9474	
* Edwin Shirey, Jr.	Rockdale	2161 Klondike Road, Conyers, GA 30094-	(770) 365-0480	

<u>ROOSEVELT</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
VACANT	Meriwether			
Ryan Johnson	Meriwether	165 Flint Drive, Woodbury, GA 30293-	(706) 846-4464	(706) 298-1726
Glen Gosa	Meriwether	1025 Mountain Ridge Drive, Manchester, GA 31816-	(706) 884-6917	(706) 637-6236
Marcus Jones	Troup	271 Frost School Road, LaGrange, GA 30241-	(706) 637-8818	(706) 884-5333
Joel David Keith	Troup	2772 Mountville Road, Hogansville, GA 30230-	(706) 882-3114	
Julian M Jones III	Troup	121 Ashling Drive, LaGrange, GA 30240-		
<u>SATILLA RIVER</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Marvin H Giddens Jr	Atkinson	38 Sunnyside Road, Pearson, GA 31642-	(912) 422-3045	(912) 422-8002
James C Grantham	Atkinson	49 Guthrie Road, Willacoochee, GA 31650	(912) 534-5413	
Curtis J Tumlin	Brantley	P O Box 452, Nahunta, GA 31553-	(912) 462-5336	
Walter C Thomas	Brantley	1528 Church Street, South, Hoboken, GA 31542-	(912) 458-2353	
Harold Gay	Camden	354 Cole Drive, Kingsland, GA 31548-	(912) 729-3311	(912) 674-6348
William R Alexander	Camden	P O Box 416, Woodbine, GA 31569-	(912) 729-2458	
Ross Ferrell	Charlton	1387 Kingfisher Landing Road, Folkston, GA 31537-	(912) 281-4238	
John L Murray	Charlton	P O Box 65, Folkston, GA 31537-	(912) 496-6162	
Ann T Keene	Glynn	1975 GA Highway 99, Brunswick, GA 31523-	(912) 265-8808	
Matthew Raiford	Glynn	163 Florines Way, Brunswick, GA 31253-	(678) 794-3454	
Jim Waters	Pierce	4625 Highway 203, Blackshear, GA 31516-	(912) 449-8795	(912) 281-8609
Joe Boyett	Pierce	P.O. Box 1030, Blackshear, GA 30516-		
VACANT	Ware			
Daniel Good	Ware	1306 Satilla Boulevard, Waycross, GA 31503-	(912) 285-0689	(912) 222-1349
Kristy Arnold	Wayne	1400 Dry Creek Road, Screven, GA 31560-	(912) 579-2725	(912) 294-3485
Jonny Harris	Wayne	334 Kayville Road, Screven, GA 31560-	(912) 586-6585	
<u>STEPHENS COUNTY</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Russell Biggers	Stephens	127 Edwards Drive, Toccoa, GA 30577-	(706) 886-2298	
Roger Dale Sheppard	Stephens	1189 Rock Quarry Circle, Toccoa, GA 30577-	(706) 886-9628	(706) 886-3316
Lakie Meeks	Stephens	3510 Rock Creek Road, Toccoa, GA 30577-	(706) 779-5938	(706) 244-1192
Evan B. Hellenga	Stephens	641 E. Tugaloo Street, Toccoa, GA 30577-	(706) 886-9700	(706) 779-3341
M. Jeanette Jamieson	Stephens	P O Box 852, Toccoa, GA 30577-	(706) 886-1168	(706) 886-6889

<u>TOWALIGA</u>	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
* Douglas G Cawthon	Butts	1023 Highway 36 East, Jackson, GA 30233-	(770) 775-4070	
Tommy Presley	Butts	815 Keys Ferry Road, Jackson, GA 30233-	(770) 775-3404	(770) 725-4574
Travis R Hardy	Fayette	108 Mask Road, Brooks, GA 30205-	(770) 719-8376	
Ricky Minter	Fayette	283 Hills Bridge Road, Fayetteville, GA 30215-	(770) 461-2840	
Barry S Peters	Monroe	208 Union Gin Road, Forsyth, GA 31029-	(478) 994-2706	(478) 994-9246
* James Vernon Ham	Monroe	P.O. Box 255, Smarr, GA 31086-	(478) 994-0589	(478) 993-7879
Thomas M Lacey	Pike	P O Box 114, Williamson, GA 30292-0114	(770) 228-9739	
* Rex J Yerkes	Pike	14334 Highway 109 East, Meansville, GA 30256-	(770) 567-8659	
Danny Meadows	Spalding	P O Box 681, Jackson, GA 30233-	(404) 831-1479	
* Walter Cliff Futral Jr	Spalding	4953 Jackson Road, Griffin, GA 30223-	(770) 227-7017	(770) 228-1811
Sidney L Beach	Upson	P O Box 5074, Thomaston, GA 302860020	(706) 647-9396	(706) 647-0580
* Harold D Fallin	Upson	461 Atwater Road, Thomaston, GA 30286-	(706) 648-2553	(706) 648-2553

**UPPER CHATTAHOOCHEE RIVER**

	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
T George W. Lyons	Dawson	2732 Highway 9 South, Dawsonville, GA 30534-	(706) 265-3328	(706) 265-3328
* Charles A Tatum	Dawson	475 Grizzle Farm Road, Dawsonville, GA 30534-	(706) 216-7182	
Leonard W. Ridings	Forsyth	5955 Keith Bridge Road, Cumming, GA 30131-	(770) 887-4786	
* E H Reid	Forsyth	7327 Majors Road, Cumming, GA 30040-	(770) 887-5389	
Tracy Frady	Habersham	316 Morris Frady Road, Mount Airy, GA 30563-	(706) 754-5582	(706) 499-2461
* Gilbert Barrett	Habersham	388 Smith Loop, Demorest, GA 30535-	(706) 776-5812	
Tracy Lee Grizzle	Lumpkin	158 Tracy Grizzle Road, Dahlonega, GA 30533-	(706) 864-3216	
* Kenneth Beasley	Lumpkin	41 Beasley Circle, Dahlonega, GA 30533-	(706) 864-6261	
C David Sills	White	3495 Post Road, Cleveland, GA 30528-	(706) 865-7047	(706) 878-8606
* Edsel R Nix	White	5177 Westmoreland Road, Cleveland, GA 30528-	(706) 865-3567	

**UPPER OCMULGEE RIVER**

	<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
Preston Wynens	Jasper	270 Sugar Hill Rd, Hillsboro, GA 31038-	(706) 468-8583	
VC William H Whitten	Jasper	2984 Smithboro Road, Monticello, GA 31064-	(706) 468-8955	
* Charlie Lane	Jasper	659 Avant Road, Monticello, GA 31064-	(706) 468-6037	
David T Hays	Newton	c/o Mansfield Group 1108 Monticello St, Covington, GA 30014-	(770) 786-7038	(770) 787-5400
Timothy Anderson	Newton	1634 Campbell Road, Covington, GA 30014-	(770) 787-7095	(770) 787-2300
* Phillip M Standard	Newton	5428 Salem Road, Covington, GA 30016-	(770) 786-4178	(770) 314-4178

<u>WALTON COUNTY</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
C	Dan Bennett	Walton	c/o Walton EMC P O Box 260, Monroe, GA 30655-	(770) 267-8829	(770) 267-6253
	Herman Wiley	Walton	2081 Alcovy Station Road, Covington, GA 30014-	(770) 464-3276	(770) 846-6877
ST	George Nathan Malcom	Walton	830 Pleasant Valley Road, Monroe, GA 30655-	(770) 267-1230	
* VC	Cristina Carrell	Walton	630 Riverbend Road, Monroe, GA 30655-	(770) 267-3547	(770) 990-6392
*	Sonny Turner	Walton	909 Stillbrook Drive, Monroe, GA 30655-	(770) 267-6337	
<u>WARREN COUNTY</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
VC	Dan N Crumpton	Warren	P O Box 47, Warrenton, GA 30828-	(706) 465-2488	(706) 465-3241
	Chadwick Mosely	Warren	P.O. Box 7, Warrenton, GA 30828-	(706) 465-2972	(706) 836-0812
C	James H McMichael	Warren	435 Main Street, Warrenton, GA 30828-	(706) 465-3857	(706) 465-2453
S/T	Norma Garner	Warren	262 Reynolds Rd, Warrenton, GA 30828	(706) 465-2195	
	Steve Smith	Warren	2055 Thomson Highway, Warrenton, GA 30828-		(706) 465-9255
<u>WEST GEORGIA</u>		<u>COUNTY</u>	<u>ADDRESS</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
VC	Carl Brack	Carroll	25 Maple Lane, Carrollton, GA 30117-	(770) 214-0278	(770) 832-3501
*	Tony Cole	Carroll	771 Mandville Road, Carrollton, GA 30117-	(770) 832-0318	
	Lisle Robinson Bowers	Coweta	4146 Gordon Road, Senoia, GA 30276-	(770) 251-2419	(770) 253-7005
* ST	Matthew Burns Jr.	Coweta	P O Box 2032, Newnan, GA 30264-	(770) 252-1094	(770) 683-4790
	Tommy E Waldrop	Douglas	2912 Post Road, Winston, GA 30187-	(770) 942-4571	(770) 920-7128
	Nolan Kell	Douglas	3721 Mason Creek Road, Winston, GA 30187-	(770) 942-0138	(770) 942-2696
	Billy Gene Sims	Haralson	969 Seventh Courtground Rd., Bremen, GA 30110-	(770) 537-3585	(770) 537-5159
*	Joan M Boalch	Haralson	2655 Monroe Mill Road, Buchanan, GA 30113-	(770) 646-3277	
	Talmadge Davis	Heard	P O Box 127, Franklin, GA 30217-	(706) 675-3552	
* C	Denney H Rogers	Heard	24391 Georgia Highway 100, Ephesus, GA 30170-	(770) 854-5957	(770) 854-8412

Insert Tab 9

Sample Forms

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# Site Inspection Report

## Erosion and Sedimentation Inspection Report

Maintain Reports on-site

<b>Site:</b>	<b>Date:</b>	<b>Time:</b>
<b>Inspector:</b>	<b>Accompanied By:</b>	
<b>Stage of Construction:</b>		
<b>Site:</b>		
<b>Observation:</b>		
<b>Recommendations:</b>		
<b>Contractors's Corrective Action (and Date):</b>		
<b>Site:</b>		
<b>Observation:</b>		
<b>Recommendations:</b>		
<b>Contractors's Corrective Action (and Date):</b> _____		



# B.M.P Inspection Report

Project: \_\_\_\_\_ Inspection Date: \_\_\_\_\_ Time: \_\_\_\_\_

Type of Inspection: Routine \_\_\_\_\_ Re-Inspection \_\_\_\_\_

Stage of Construction: BMP Installation/Clearing Grading Curb/Gutter Building Other \_\_\_\_\_

Weather/Soil Condition: Raining/Wet Light Rain/Medium Clear/Dry

Erosion Device Inspected	Status		
Bf: Buffer Zone	Passed	Failed	Comment
Ds1: Soil Stabilization: mulch only 6" to 10"	Passed	Failed	Comment
Ds2: Soil Stabilization: (temp. seeding)	Passed	Failed	Comment
Ds3: Soil Stabilization: (permanent vegetation)	Passed	Failed	Comment
Ds4: Soil Stabilization: (sodging)	Passed	Failed	Comment
Ga: Gablon	Passed	Failed	Comment
Du: Dust Control	Passed	Failed	Comment
Cd: Check Dams: rock/other	Passed	Failed	Comment
Cb: Channel Stabilization: (rip rap or vegetation)	Passed	Failed	Comment
Co: Construction Exit Pad	Passed	Failed	Comment
Mb: Geotextiles	Passed	Failed	Comment
Rd: Rock Filter Dam	Passed	Failed	Comment
Rt: Retrofit: Detention/Sediment Pond	Passed	Failed	Comment
Sd1: Sediment Barrier	Passed	Failed	Comment
Sd2: Inlet Sediment Trap	Passed	Failed	Comment
Sd3: Temporary Sediment Basin	Passed	Failed	Comment
Sr: Temporary Stream Crossing	Passed	Failed	Comment
St: Storm Drain Outlet Protection	Passed	Failed	Comment
Dn1: Temporary Down Drain Structure	Passed	Failed	Comment
Sb: Stream Bank Stabilization	Passed	Failed	Comment
Wt: Veg. Waterway or St/Water Conv. Channel	Passed	Failed	Comment
Tree Preservation Fencing	Passed	Failed	Comment
Trash	Passed	Failed	Comment

1. What action(s) was taken for any failed activities listed above? Verbal Notification: \_\_\_\_\_  
 Written Notification: \_\_\_\_\_ Stop Work Order: \_\_\_\_\_ Citation #: \_\_\_\_\_
2. What time frame was given to comply with the above violation: Days: \_\_\_\_\_ Other: \_\_\_\_\_
3. Have any complaints or violations been issued on this project previously? Yes: \_\_\_\_\_ No: \_\_\_\_\_
4. If yes, explain violations/fines: \_\_\_\_\_  
 \_\_\_\_\_
5. Are there state waters present? Yes: \_\_\_\_\_ No: \_\_\_\_\_
6. Were all permits posted? Yes: \_\_\_\_\_ No: \_\_\_\_\_
7. Is an approved E&S plan on site? Yes: \_\_\_\_\_ No: \_\_\_\_\_

Comments:

Inspected By: \_\_\_\_\_



















# Daily Inspection Report

*Inspection performed by certified personnel each day construction activity occurs on-site*

Project Information	
Date:	Project Name:
Project Location:	
Inspection Observations	
Rainfall within past 24 hours (inches):	Is rainfall greater than 0.5"? Inspection Required <input type="checkbox"/>
Inspection Observations	
<b>Petroleum Product Storage Areas:</b> Are all of the temporary and permanent controls contained in Plan in place? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
<b>Vehicle Entrances and Exits:</b> Is there tracking of sediment from locations where vehicles enter and leave the project? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe the location(s) and the corrective actions that must be taken.	
Other Observations	
Is an Erosion, Sedimentation and Pollution Control Plan revision required? <input type="checkbox"/> Yes <input type="checkbox"/> No      Date of revision:	
Corrective Actions and Date:	

\_\_\_\_\_  
Signature of Certified Personnel

\_\_\_\_\_  
Printed Name of Certified Personnel



# Weekly Inspection Report

Inspection performed by certified personnel at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater

## Project Information

Date:	Project Name:
Project Location:	
Name of Inspector:	

## Inspection Event

Regular weekly inspection: <input type="checkbox"/>	Inspection within 24 hours of 0.5" storm event <input type="checkbox"/>
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## Inspection Observations

**Disturbed areas that have not undergone final stabilization:**  
Are all of the temporary and permanent controls contained in Plan in place and properly maintained?  Yes  No  
If no, describe the location(s) of deficiencies and corrective actions that must be taken.

Corrective Action Taken and Date:

**Material storage areas exposed to precipitation:**  
Are all of the temporary and permanent controls contained in Plan in place and properly maintained?  Yes  No  
If no, describe the location(s) of deficiencies and corrective actions that must be taken.

Corrective Action Taken and Date:

**Discharge locations or points.**  
Are erosion control measures preventing impacts to receiving waters?  Yes  No  
If no, describe observations:



# Monthly Inspection Report

*Inspection performed by certified personnel at least once per month*

Project Information	
Date:	Project Name:
Project Location:	
Inspection Observations	
Rainfall within past 24 hours (inches):	Is rainfall greater than 0.5"? Inspection Required <input type="checkbox"/>
Inspection Observations	
Areas that have undergone final stabilization: Are all permanent stabilization controls contained in Plan in place? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
Other observations: Are pollutants entering the drainage system or receiving waters? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe the location(s) and the corrective actions that must be taken.  Are all erosion and sediment control measures operating properly? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) and the corrective actions that must be taken.	
Other Observations	
Is an Erosion, Sedimentation and Pollution Control Plan revision required? <input type="checkbox"/> Yes <input type="checkbox"/> No      Date of revision:	
Corrective Actions and Date:	

\_\_\_\_\_  
Signature of Certified Personnel

\_\_\_\_\_  
Printed Name of Certified Personnel



## Construction Checklist of BMPs And Minimum Requirements

Project Name & File No. \_\_\_\_\_

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

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

Inspected by: \_\_\_\_\_

### Stage of Construction

Pre-Construction Phase

Construction Phase

Building Phase

Final Stabilization

CHECK DAM <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Cd</span>		
Minimum Requirement	Passed	Failed
Center: 9" lower than outer edges.		
Side Slopes: 2:1 or flatter		
Spacing: Toe of upstream dam is at the same elevation as the top of the downstream dam.		
Geotextile: Placed between the rock and its soil foundation.		
Maintenance: Sediment removed when depth reaches 1/2 the original dam height. Dam removed and area stabilized when useful life has expired.		

CHANNEL STABILIZATION <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Ch</span>		
Minimum Requirement	Passed	Failed
Installation: Channel lining installed immediately after grading and vegetate all bare areas.		
Riprap Lining: Graded to 1.5:1 or less. A filter blanket, at least 6" thick, of sand, gravel, and/or geotextile material should be between soil and riprap.		
Outlet: Adequate outlet for free flow of water from flood plains into channel.		
Clearing: Objectionable materials removed from the channel. As many trees preserved, as possible.		
Buffers: Preserved by clearing for soil placement on one side of channel only. Buffers re-established with appropriate vegetation.		
Maintenance: Inspected periodically and necessary repairs made immediately.		

CONSTRUCTION EXIT <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Co</span>		
Minimum Requirement	Passed	Failed
Aggregate Size: 1.5"-3.5"		
Pad Thickness: 6" minimum		
Pad Width: 20 ft minimum		
Pad Length: 50 ft minimum		
Location: At all exit points.		
Geotextile: Placed the full length and width of the exit.		
Maintenance: Peiodic top dressing with 1.5"-3.5" stone as conditions demand.		

CONSTRUCTION ROAD STABILIZATION <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Cr</span>		
Minimum Requirement	Passed	Failed
Aggregate Size: 1.5"-3.5"		
Pad Thickness: 8"-10"		
Pad Width: 14 ft minimum.		
Maintenance: Peiodic top dressing with 1.5"-3.5" stone as conditions demand.		

STREAM DIVERSION CHANNEL <span style="float: right;">(Dc)</span>		
Minimum Requirement	Passed	Failed
Size: Channel width should be a minimum of 6 ft with side slopes flatter than 2:1.		
Lining: The liner should consist of geotextile or class I riprap.		
Maintenance: Inspected daily for construction material positioning.		

DIVERSION <span style="float: right;">(Di)</span>		
Minimum Requirement	Passed	Failed
Site Preparation: Trees, brush, stumps, and other objectionable material have been removed.		
Fills: All fills have been compacted. All un-needed excavated material has been disposed of and stabilized. Ridge should be at least 10 ft wide. Add 10% height for settlement.		
Stabilization: Channel outlets have adequate vegetation, riprap, and/or concrete.		
Maintenance: Inspected frequently and after each rainfall. Necessary repairs made immediately.		

(Dn1) DOWNDRAIN STRUCTURE (Dn2)		
Minimum Requirement	Passed	Failed
Location: On un-disturbed soil or well-compacted fill.		
Outlet: Stabilized with rock riprap.		
Pipe: Heavy duty, flexible tubing staked at 10 ft intervals for temporary structure. Joints are well-connected and watertight.		
Maintenance: Check after every rainfall. Necessary repairs made promptly. Temporary structure removed after useful life. Exposed areas stabilized		

FILTER RING <span style="float: right;">(Fr)</span>		
Minimum Requirement	Passed	Failed
Size: At inlets with a diameter less than 12", the stone size should be 3"-5"		
Size: At inlets with a diameter greater than 12", the stone size should be 10"-15"		
Height: The filter ring should have a minimum height of 2 ft from grade.		
Maintenance: The ring should be kept clear of trash and debris, and the sediment should be removed at 1/2 full		

GABION <span style="float: right;">(Ga)</span>		
Minimum Requirement	Passed	Failed
Design: Designed and installed by a professional familiar with the use of gabions		
Maintenance: Periodically inspected for signs of undercutting or excessive erosion		

GRADE STABILIZATION STRUCTURE <span style="float: right;">(Gr)</span>		
Minimum Requirement	Passed	Failed
Materials: Constructed of concrete, rock, masonry, steel, aluminum, or treated wood.		
Outlet: Adequate, stable outlet for discharge.		
Vegetation: On all disturbed areas.		
Maintenance: Periodically inspected for signs of undercutting or periodic erosion.		

LEVEL SPREADER <span style="float: right;">(Lv)</span>		
Minimum Requirement	Passed	Failed
Grade: No greater than 1% for the last 15 ft of the dike or diversion.		
Length: Determined by the design professional from estimated storm flow.		
Outlet: Discharges onto an undisturbed stabilized area to create uniform sheet flow.		
Maintenance: No blockages at point of discharge.		

ROCK FILTER DAM <span style="float: right;">(Rd)</span>		
Minimum Requirement	Passed	Failed
Height: The dam center shall be 9" lower than the outer edge and not higher than the channel banks.		
Side Slopes: 2:1 or flatter		
Location: Located so that it will not cause flooding of upstream property.		
Rock Size: Determined by the design criteria set forth in Appendix C of the Manual		
Top Width: 6 ft or greater		
Maintenance: Sediment removed when it reaches a depth of 1/2 the original height of the dam. Remove dam at the end of its useful life.		

RETAINING WALL <span style="float: right;">(Re)</span>		
Minimum Requirement	Passed	Failed
Design: Designed and installed by a professional familiar with the use of retaining walls.		
Maintenance: Periodically inspected for signs of undercutting or excessive erosion.		

RETROFIT <span style="float: right;">(Rt)</span>		
Minimum Requirement	Passed	Failed
Height: 1/2 the height of the outlet control structure		
Half-Round Pipe: Diameter should be 1.5x the principal pipe outlet diameter.		
Slotted Board Dam: Minimum posts size of 4"x4". The spacing between shall be 0.5"-1.0"		
Stone Size: 3-4" stone		
Pond Inlet: Sediment entry point should be at opposite end of basin from outlet. If not, baffles shall be installed		
Maintenance: Trash and debris hindering drainage shall be removed. Sediment removed when structure is 1/3 full. Structure removed when final stabilization achieved.		

SEDIMENT BARRIER <span style="float: right;">(Sd1)</span>		
Minimum Requirement	Passed	Failed
Location: Intended for areas where sheet flow occurs. Installed along the contour. Where state waters are present, 2 rows of Type "S" is installed.		
Brush Barrier: Wind-rowed on the contour. Width should be between 5-10 ft and height should be between 3-5 ft.		
Silt Fence: Verify fabric type and support spacing for each application. Entrenched to a depth of 6". Verify post size.		
Maintenance: Sediment removed at 1/2 the original height of the barrier. Product replaced when it cannot maintain 80% of properly installed height. Removed once final stabilization has occurred		

INLET SEDIMENT TRAP <span style="float: right;">(Sd2)</span>		
Minimum Requirement	Passed	Failed
Excavated: A minimum depth of 1.5 ft is provided. Side slopes should be 2:1 or flatter.		
Fabric & Frame: Steel posts are used. Fabric is entrenched at least 12" and fabric is securely fastened to the posts.		
Curb Inlet: 8" concrete blocks wrapped in filter fabric or gravel bags consisting of #57 stone wrapped in filter fabric or equivalent material.		
Gravel: 3" in diameter or larger stone placed on slope toward the inlet. 1/2"-3/4" gravel placed on slope away from inlet.		
Maintenance: Sediment removed when accumulation has reached 1/2 the height of the trap. Remove once contributing drainage basin has been stabilized		

TEMPORARY SEDIMENT BASIN <span style="float: right;">(Sd3)</span>		
Minimum Requirement	Passed	Failed
Location: Not placed in a live stream		
Principal Spillway: Vertical pipe should extend through the embankment and exit beyond the downstream toe of the fill. All pipe and riser connections should be watertight. Pipe should be a minimum of 8" in diameter		
Riser: 1/2" perforations spaced 3" apart covered with 2 ft of 3"-4" stone. Embedded 9" into an 18" thick concrete base.		
Emergency Spillway: Constructed on undisturbed ground. Minimum bottom width of 8 ft. Stabilized with vegetation, riprap, or concrete.		
Maintenance: All damages caused by erosion or equipment repaired before the end of each day. Sediment removed when 1/3 of the storage volume has been lost.		

TEMPORARY SEDIMENT TRAP <span style="float: right;">(Sd4)</span>		
Minimum Requirement	Passed	Failed
Depth: Maximum depth is 4 ft		
Overflow: The maximum permanent wet depth is 2 ft. Slopes are less than 2%.		
Combination: The maximum depth of ponded water is 12".		
Rock: Height of the embankment is not greater than 5.5 ft. The top width is at least 3 ft. Slopes do not exceed 2:1.		
Maintenance: All damages caused by erosion or equipment repaired before the end of each day. Sediment removed when 1/3 of the storage volume has been lost.		

FLOATING SURFACE SKIMMER <span style="float: right;">(Sk)</span>		
Minimum Requirement	Passed	Failed
Excavation Pit: 4 x 4 x 2 ft pit filled with riprap under the skimmer. Must be lower than the invert of the outlet barrel of the riser.		
Apparatus: Schedule 40 or greater PVC or other appropriate materials		
Maintenance: Use a floatable rope to remove trash and debris that accumulates on the outside of guard. Free skimmer from being stuck in the mud.		

SEEP BERM <span style="float: right;">(SpB)</span>		
Minimum Requirement	Passed	Failed
Location: Not located above fill slopes that have not achieved permanent stabilization. Not located across streams, ditches, or waterways.		
Berm: Minimum width of 12" and height of 4 ft. Compacted by mechanical equipment.		
Vegetation: Planted with seed that has 70% or better germination		
Spacing: The toe of the upstream dike is at the same elevation as the top of downstream dike.		
Maintenance: Inspect after every 1/2" rainfall or greater. Remove sediment when accumulation is 1/3 the height of the intermediate dike		

TEMPORARY STREAM CROSSING <span style="float: right;">(Sr)</span>		
Minimum Requirement	Passed	Failed
Size: Large enough to convey full bank flow without appreciably altering the stream flow characteristics.		
Location: Installed perpendicular to the stream.		
Overflow Protection: Elevated crossings, crown fills over pipes, or diversions and dikes.		
Maintenance: Inspect after every rainfall and at least once a week.		

STORM DRAIN OUTLET PROTECTION <span style="float: right;">(St)</span>		
Minimum Requirement	Passed	Failed
Alignment: The apron is properly aligned and preferably straight throughout its length		
Grade: Constructed at 0% grade with no overfall at the end. The top of the riprap at the downstream end is level with the receiving channel. Compacted any required fill.		
Filter Fabric: Gravel filter or Geotextile installed between the riprap and subgrade. Fabric is free of any punching or tears. Gravel filter is properly graded and installed according to the manufacturer's recommendation		
Riprap Thickness - 1.5x the maximum stone diameter Upstream Width - 3x the diameter of the outlet pipe Length of Apron - Refer to Plan		
Maintenance: Inspect riprap outlet structures after heavy rain events. Make repairs immediately.		

SURFACE ROUGHENING <span style="float: right;">(Su)</span>		
Minimum Requirement	Passed	Failed
Steeper than 3:1: Roughened by either Stair-Step Grading, Grooving, or Tracking		
Flatter than 3:1: Soils loosened to a depth of 2"-4"		
Stair-Step Grading: Maximum depth of 30"-40" Maximum width of 40"-50"		
Grooving: Un-Mowed slopes with a minimum depth of 3" and maximum spacing of 15". Mowed slopes with a minimum depth of 1" and maximum spacing of 12"		
Tracking: Not recommended on clay soils. Sandy soils may be tracked.		
Vegetation: Roughened areas are seeded and mulched immediately after roughening		

TURBIDITY CURTAIN <span style="float: right;">(Tc)</span>		
Minimum Requirement	Passed	Failed
Location: Barrier placed 25 ft outside of the construction area where possible. Curtain placed parallel to flow.		
Water Body: Not altered by the installation of the curtain.		
Filling: Required permits and variances have been obtained and allowable limits have not been exceeded.		
Maintenance: Removed when no longer needed. Excess sediment carefully removed.		

VEGETATED WATERWAY <span style="float: right;">(Wt)</span>		
Minimum Requirement	Passed	Failed
Channel: Free of all trees, bank projections, and other objectionable material that will impeded normal flow. Shaped to desired cross section and stabilized in accordance vegetative standards.		
Fill: Compacted as needed. Excess fill disposed of in an appropriate manner		

TOPSOILING <span style="float: right;">(Tp)</span>		
Minimum Requirement	Passed	Failed
Stripping: Confined to the immediate construction area with a typical depth of 4"-6." Topsoil is friable, loamy, and free of debris and objectionable rock.		
Stockpile: Located where natural drainage is not obstructed and contained by a sediment barrier. Stabilized with temporary vegetative measures		
Spreading: Applied at a uniform depth of 5". Subsoil has been loosened and agricultural lime added as required		

TREE PROTECTION <span style="float: right;">(Tr)</span>		
Minimum Requirement	Passed	Failed
Fence: Orange plastic fabric stapled to 2x4 treated wood stakes. Treated wood fencing with orange fabric attached used for single family homes		
Protection Zone: Local government contacted regarding tree ordinances and critical rooting distance		

BUFFER ZONE <span style="float: right;">Bf</span>		
Minimum Requirement	Passed	Failed
Width: For warm water fisheries, a minimum of 25 ft from the point of wretched vegetation shall be protected. For cold water fisheries, a minimum of 50 ft from the point of wretched vegetation shall be protected.		
Maintenance: Area closet to the stream is maintained at all times with minimal impact from equipment.		
Variance: A variance is required for any work inside State mandated buffers		

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) <span style="float: right;">Ds1</span>		
Minimum Requirement	Passed	Failed
Preparation: Soil loosened to a minimum depth of 3"		
Application: Applied by hand or mechanical equipment.		
Anchoring: Anchored with a disk harrow or tackifier. Polyethylene film entrenched at the top		
Materials & Related Depths Straw or Hay - 2" to 4" Wood waste/chips - 2" to 3"		

COASTAL DUNE STABILIZATION <span style="float: right;">Cs</span>		
Minimum Requirement	Passed	Failed
Location: 100-140 ft depending on wind conditions from the mean high tide line.		
Posts: Minimum length of 7 ft with a minimum diameter of 3". Spacing should be 10 ft apart and entrenched to a depth of 3 ft.		
Snow Fence: Standard commercial 4 ft high snow fence with a slat spacing of 1-1/4". Fencing should be spaced 30-40 ft apart.		
Placement: Placed perpendicular to the prevailing winds. When winds are parallel to water, an additional 30 ft section should be placed perpendicular to the original fence.		
Vegetation: Established immediately following dune development. Irrigate is necessary.		
Preservation: Dunes protected from human and vehicular traffic. Crosswalks provided for beach access.		

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) <span style="float: right;">Ds2</span>		
Minimum Requirement	Passed	Failed
Preparation: Soil should be loose and friable. Soil should be scarified when sealed by rainfall.		
Lime & Fertilizer: Applied at a rate determined by the soil pH.		
Seeding: Plant species selected based on site and soil conditions, area, and time of year.		
Irrigation: Applied at a rate that will not cause runoff and erosion.		
Mulch: Placed after seeding to retain moisture.		

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) <span style="float: right;">Ds3</span>		
Minimum Requirement	Passed	Failed
Preparation: Soil should be loose and friable. Soil should be scarified when sealed by rainfall.		
Lime & Fertilizer: Applied at a rate of 1-2 tons/acre unless soil tests indicate otherwise. Refer to Manual for 2nd & 3rd year fertilizer rates.		
Seeding: Plant species selected based on site and soil conditions, area, and time of year.		
Mulch: Applied in accordance with Ds1 specifications		
Irrigation: Applied at a rate that will not cause runoff and erosion.		
Mowing: 6" of top growth maintained at all times		

DISTURBED AREA STABILIZATION (WITH SODDING) <span style="float: right;">Ds4</span>		
Minimum Requirement	Passed	Failed
Surface: Soil surface is brought to final grade and clear of any trash, debris, and clods larger than 1".		
Installation: Sod applied to soil surface only (not to frozen or gravel type soils). Cut and installed within 36 hours of digging.		
Lime & Fertilizer: Applied based on soil tests or at a rate of 1-2 tons/acre.		
Anchoring: Sod should be anchored with pins on slopes steeper than 3:1.		
Irrigation: Used as a supplement to rainfall for a minimum of 2-3 weeks.		
Mowing: Grass height should not be cut less than 2"-3".		

DUST CONTROL <span style="float: right;">Du</span>		
Minimum Requirement	Passed	Failed
Methods: Mulch, vegetation, tackifiers, or irrigation used to prevent surface and air movement of dust.		

FLOCCULANTS & COAGULANTS <span style="float: right;">FI-Co</span>		
Minimum Requirement	Passed	Failed
Application: Conforms to manufacturer's guidelines.		
Type: Only anionic forms shall be used.		
Location: Intended for use in construction storm water ditches that feed ponds or basins. Not intended for use to surface waters of the state.		

STREAMBANK STABILIZATION (WITH PERMANENT VEGETATION) <span style="float: right;">Sb</span>		
Minimum Requirement	Passed	Failed
Design: Designed and installed by a professional familiar with the process.		
Materials: None used that could be poisonous to fish or aquatic life.		
Runoff: Diverted away from the area being treated.		
Side Slope: Should be 2:1 or flatter.		
Work Sequence: Work started at an upstream stable point along the bank.		
Stake Health: Cut with a saw. Planted the same day as prepared. Buds upward. Split, stripped, and mushroomed cuttings replaced.		
Stake Installation: Begins at water's edge and works up the bank.		
Vegetation: Native trees and shrubs.		
Inspection: Checked regularly for wash-outs, undercutting, unhealthy vegetation, especially after heavy rains. Make necessary repairs immediately.		
Maintenance: All failures fixed with structural materials, new plants, and mulch immediately.		



