

Appendix D

CREDIT CALCULATION FORM

Owner's Representative (Engineer):

Name: \_\_\_\_\_
Mailing Address: \_\_\_\_\_
Street Address: \_\_\_\_\_
City/State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone/Fax: \_\_\_\_\_

Georgia Registration Number (PE): \_\_\_\_\_

TOTAL SITE CHARACTERISTICS (Attach site plan):

Total Site Area: \_\_\_\_\_ acres
Total Site Impervious Area: \_\_\_\_\_ acres (sum of the three below)
Paved Area: \_\_\_\_\_ acres Roof Area: \_\_\_\_\_ acres
Other Impervious Area: \_\_\_\_\_ acres
Explain: \_\_\_\_\_

STORMWATER FACILITY INFORMATION (attach a separate sheet for each facility):

Facility Parcel ID: \_\_\_\_\_
Description of Facility: \_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

HYDROLOGIC CHARACTERISTICS (Attach drainage area map):

All values below shall pertain to the drainage area for the
Facility being analyzed only, not the whole site.

Method used (check one): [ ] Rational Method [ ] SCS Curve Number method

Pre-development:

Drainage Area to Facility: \_\_\_\_\_ acres
Runoff Coefficient: \_\_\_\_\_ (C Factor or SCS Curve Number)
Time of Concentration: \_\_\_\_\_ min (5 minutes minimum)
Rainfall Intensity (Rational Method only): \_\_\_\_\_ in/hr
Storm Duration (SCS method only): \_\_\_\_\_ hours
(use same duration for routing calculations shown below)

QPRE: \_\_\_\_\_ cfs

Post-development:

Drainage Area Impervious Acreage: \_\_\_\_\_ acres (sum of the three below)
Paved Area: \_\_\_\_\_ acres Roof Area: \_\_\_\_\_ acres
Other Impervious Area: \_\_\_\_\_ acres
Explain: \_\_\_\_\_
Runoff Coefficient: \_\_\_\_\_ (C Factor or SCS Curve Number)

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Time of Concentration: \_\_\_\_\_ min (5 minutes minimum)  
Rainfall Intensity (Rational Method only): \_\_\_\_\_ in/hr  
Storm Length (Rational Method only): \_\_\_\_\_ minutes

### **DETENTION/RETENTION FACILITY DATA** (attach all calculations):

Facility Storage Volume at Overflow: \_\_\_\_\_ ft<sup>3</sup>  
Inflow Hydrograph Peak Flow: \_\_\_\_\_ cfs

#### **Q<sub>POST</sub>:**

Routed Hydrograph Peak Flow: \_\_\_\_\_ cfs  
Flow through outlet: \_\_\_\_\_ cfs  
Flow over emergency spillway: \_\_\_\_\_ cfs

Attach stage-discharge-storage information in tabular form, storage volume calculations, outlet description, overflow description, runoff calculations, and all other pertinent information necessary to perform a detailed review.

### **ENGINEER'S CERTIFICATION:**

**I hereby certify that the detention/retention facility(ies) has (have) been constructed in substantial conformance with pertinent design requirements and that the detention/retention facility(ies) is(are) in an acceptable state of maintenance and repair. I further certify that these calculations, technical details and information provided reflect accurately the condition of the detention/retention facility at the time of my inspection.**

\_\_\_\_\_  
Signature and Seal of PE

\_\_\_\_\_  
Date