



City of Acworth
Community Development Department

4415 Senator Russell Avenue
Acworth, Georgia 30101
Office: (770) 974-2032
Fax: (770) 917-0590
www.acworth.org

DEVELOPMENT PLAN REVIEW APPLICATION

Project Name: _____

Former Project Name (if applicable): _____

Zoning District: _____ Acreage: _____ Number of Units (if applicable): _____

Owner(s) name: _____

Applicant(s) Name: _____

Property Location: _____
Property Address Land Lot(s), Parcel(s)

Contact Mailing Address: _____

Contact Phone Number: _____ Fax: _____

Contact Email address (if available): _____

Note: After concept plans are approved by the Mayor and Board of Aldermen, civil construction plans may be submitted. All plan review application packages must be complete prior to review (see attached checklist). The City is billed by hourly basis from a contract engineer – the applicant is responsible for all fees incurred during the course of the review. This includes, but is not limited to, any extended reviews, resubmittals, telephone consultations, or meetings. By signing this application, the applicant and/or owner agree to these terms and conditions. The applicant is responsible for obtaining all Cobb County Fire and Water & Sewer approvals. Proof of approvals (stamped plans) is required prior to the City’s approval.

Applicant Checklist:

- Required number of complete sets of development construction plans (3) w/stipulations attached
Required Hydrology Study (2 sets)
Required Fee (first submittal only) - \$500.00: < 5 acres; \$750.00: 5-15 acres; \$50/acre: > 15 acres
(Additional fees may be incurred – see note above.)
Resubmittal Fee (each submittal): \$300.00: < 5 acres; \$500.00: 5-15 acres; \$35/acre: > 15 acres
Signed Submittal Sheet for Cobb County Fire and Cobb County Water & Sewer (See attached page)
Applicant’s completed checklist (See attached pages 3-14)
Was a variance required? (If so, provide the City approved Stipulation Letter)

Owner’s signature: _____ Date: _____

Print Owner’s Name: _____

Applicant’s signature: _____ Date: _____

Print Applicant’s Name: _____



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DEVELOPMENT PLAN REVIEW APPLICATION

– Please be advised –

This form must be completed & attached to the application form upon submittal for plan review and approval.

Development: _____

Cobb County Fire & Emergency Services

The above mentioned civil site development plans have been submitted to Cobb County Fire & Emergency Services for review.

Cobb Fire Signature

Date

Print Name (Cobb Fire)

Cobb County Water & Sewer

The above mentioned civil site development plans have been submitted to the Cobb County Water & Sewer Department for review.

Cobb Water Signature

Date

Print Name (Cobb Water)



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Development Name: _____

Location: _____

Owner/Developer: _____

Contact: _____ Phone #: _____

Engineer: _____

Contact: _____ Phone #: _____

***** This checklist shall be completed by the plan preparer and submitted with the application *****

***** If a project has been approved with differing requirements by the Mayor & Board, please note as such on the plans*****

***** This checklist does not constitute a full review. Applicant is responsible for all applicable City Codes and Ordinances *****

Applicant Verified	Item Addressed X = no	Item Description	Re-review
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SITE DEVELOPMENT:

- | | | | | |
|-------|--------------------------|--------------------------|---|--------------------------|
| SD.01 | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate Scale (No less than 1" = 100') and North Arrow | <input type="checkbox"/> |
| SD.02 | <input type="checkbox"/> | <input type="checkbox"/> | Dedications Appropriately Indicated | <input type="checkbox"/> |
| SD.03 | <input type="checkbox"/> | <input type="checkbox"/> | Section Lines | <input type="checkbox"/> |
| SD.04 | <input type="checkbox"/> | <input type="checkbox"/> | Location, Width; Names of Streets and Railroads | <input type="checkbox"/> |
| SD.05 | <input type="checkbox"/> | <input type="checkbox"/> | Utility Easements | <input type="checkbox"/> |
| SD.06 | <input type="checkbox"/> | <input type="checkbox"/> | Existing and Proposed Site Topography | <input type="checkbox"/> |
| SD.07 | <input type="checkbox"/> | <input type="checkbox"/> | 100-Year Flood Plain or Statement, Wetlands, State Waters and Buffers
(Delineate: 25' undisturbed state / 50' undisturbed City / 75' impervious setback) | <input type="checkbox"/> |
| SD.08 | <input type="checkbox"/> | <input type="checkbox"/> | Delineate 100-year floodplain limits on the grading / drainage drawing, with the 100-year base flood elevations (BFE's) | <input type="checkbox"/> |
| SD.09 | <input type="checkbox"/> | <input type="checkbox"/> | Provide the cut-fill volume compensation cross-sections and calculations if construction fill is placed within the 100 year floodplain | <input type="checkbox"/> |
| SD.10 | <input type="checkbox"/> | <input type="checkbox"/> | Building Locations and FFE's | <input type="checkbox"/> |
| SD.11 | <input type="checkbox"/> | <input type="checkbox"/> | Location, Height and Materials of Walls and Fences | <input type="checkbox"/> |

Applicant Verified	Item Addressed X = no	Item Description	Re-review
SD.12	<input type="checkbox"/>	Dumpster Location in Rear with Screen Enclosure (not chain link) and gate, 10' x 10' concrete pad, and hose bibb	<input type="checkbox"/>
SD.13	<input type="checkbox"/>	Driveway Location and Dimensions	<input type="checkbox"/>
SD.14	<input type="checkbox"/>	Applicable Covenants or Restrictions	<input type="checkbox"/>
SD.15	<input type="checkbox"/>	Traffic Flow on Adjoining Streets Requires Improvements	<input type="checkbox"/>
SD.16	<input type="checkbox"/>	Parking Location and Adequacy (See Parking Checklist)	<input type="checkbox"/>
SD.17	<input type="checkbox"/>	Paved sidewalks (at least 5' wide) shall be provided along all road frontages	<input type="checkbox"/>
SD.18	<input type="checkbox"/>	Landscape strip (at least 6' wide) shall separate sidewalks from roadway curbs. Where practical limitations require the sidewalk may be placed as close as 2' from the curb, but no closer than 2' unless authorized by the Mayor and Aldermen	<input type="checkbox"/>
SD.19	<input type="checkbox"/>	Open Space Amount and Location	<input type="checkbox"/>
SD.20	<input type="checkbox"/>	Protective Screening	<input type="checkbox"/>
SD.21	<input type="checkbox"/>	ARC and GRTA Review Required	<input type="checkbox"/>
SD.22	<input type="checkbox"/>	Storm Water Detention (See Storm Water Drainage Section)	<input type="checkbox"/>
SD.23	<input type="checkbox"/>	Stream Crossing Requires Mayor and Alderman Approval	<input type="checkbox"/>
SD.24	<input type="checkbox"/>	Vehicular Connection to Adjacent Commercial Properties (if applicable)	<input type="checkbox"/>
SD.25	<input type="checkbox"/>	DOT Requirements: Georgia, Cobb, Acworth	<input type="checkbox"/>
SD.26	<input type="checkbox"/>	Improvements to Existing Streets Needed to Accommodate Increased Traffic (City may require traffic counts and/or traffic studies)	<input type="checkbox"/>
SD.27	<input type="checkbox"/>	Curb cuts shall be no closer than 40' to an intersection and no closer than 30' to another curb cut. A curb cut shall no less than 24' wide, no more than 30' wide and no closer than 20' to a property line without approval of Public Works Director	<input type="checkbox"/>
SD.28	<input type="checkbox"/>	Corner Visibility: No fence, structure, sign, planting or other obstruction shall be within 15' of the intersection of the R/W (Section 83 or as specified by the Public Works Department)	<input type="checkbox"/>
SD.29	<input type="checkbox"/>	Handicap Accessible Sidewalk along frontage	<input type="checkbox"/>
SD.30	<input type="checkbox"/>	Hydrology Report (See Hydrology Report Review Checklist)	<input type="checkbox"/>

Applicant Verified	Item Addressed X = no	Item Description	Re-review
SD.31	<input type="checkbox"/>	Storm Drains 42" and smaller carrying storm water from the street through lots shall be extended at least 60' behind the building (Sub. & Dev. Reg's Section 31)	<input type="checkbox"/>
SD.32	<input type="checkbox"/>	Water and Sewer (Separate approval required by Cobb Water and Sewer and Cobb Fire) <ul style="list-style-type: none"> <input type="checkbox"/> Sufficient Fire Hydrants <input type="checkbox"/> Hose bibbs at Dumpster Pads <input type="checkbox"/> Sewer profile with utility and storm crossings 	<input type="checkbox"/>
SD.33	<input type="checkbox"/>	Septic Tanks: If Sanitary Sewer is not available and road frontage of lot is at least 100', septic tank may be approved by the Cobb County Health Dept. and the following shall be provided to the Health Dept: (Sub. & Dev. Reg's Section 30) <ul style="list-style-type: none"> <input type="checkbox"/> Topographic Information <ul style="list-style-type: none"> <input type="checkbox"/> Location of Drainage Facilities, Natural and Proposed <input type="checkbox"/> Percolation Test Results Indicated on Plat <input type="checkbox"/> Sanitary Sewer Fixtures Per Dwelling Unit 	<input type="checkbox"/>
SD.34	<input type="checkbox"/>	Loading spaces where required must be 12' x 35' with 14' vertical clearance and must be screened	<input type="checkbox"/>
SD.35	<input type="checkbox"/>	Number of loading spaces conforms to Table K (Section 89)	<input type="checkbox"/>
SD.36	<input type="checkbox"/>	Erosion and Sedimentation Control Plan (See E&SC Plan Review Checklist)	<input type="checkbox"/>
SD.37	<input type="checkbox"/>	State Erosion Control Certification Number and expiration date identified	<input type="checkbox"/>
SD.38	<input type="checkbox"/>	Detention facility structural wall review: The City and the City's Engineer both require a Structural Engineer to be retained by applicant	<input type="checkbox"/>
SD.39	<input type="checkbox"/>	Dam Design Review: The City and the City's engineer both require a Structural Engineer to be retained by applicant	<input type="checkbox"/>

PARKING REQUIREMENTS:

PK.01	<input type="checkbox"/>	Private Streets Shall Not Be Used to Satisfy Off-street Parking Requirements	<input type="checkbox"/>
PK.02	<input type="checkbox"/>	Required Parking Spaces Conforms to Table J (Section 85)	<input type="checkbox"/>
PK.03	<input type="checkbox"/>	30% of Required Parking Spaces are in Side or Rear Yard for All Commercial, Industrial, and Dense Residential Districts (C-1, C-2, OIT, LRO, OP, LI, HI, R-5, RC, RM-6, and RM-8)	<input type="checkbox"/>
PK.04	<input type="checkbox"/>	Overflow Parking: Additional parking above the maximums provided in Table J shall be constructed of impervious materials and shall be in rear or side yards	<input type="checkbox"/>

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- PK.05 Required Parking Pavement Structure is: **(Section 86)**
 4” of 3,000 PSI Concrete with 20’ Control Joints, Reinforced
 Asphaltic Concrete – Surface and Binder Totaling 3” Thickness
 Bricks in a 4” Concrete Base or Sand Granite Leveling Base
- PK.06 Parking Space Dimensions: 9’ x 20’
- PK.07 Driveway Aisles:
 90° Parking – 24’ Drive Isle Width
 60° Parking – 20’ Drive Isle Width
- PK.08 Parking lot meets landscape requirements
- PK.09 No Parking in required front yard except single family residential which may have up to 35% of front yard used for parking
- PK.10 Overflow parking shall be designed to accommodate vehicles up to 8,000 pounds and may be grass pave, Turfstone, UNI Eco-stone, or other surfaces approved by the Administrator and City Engineer **(Section 87)**
- PK.11 Handicap parking meets ADA reqts (2% max slope, acces. route, details, etc.)

STREET/ROADWAY DESIGN REQUIREMENTS:

- RD.01 Subgrade Must Be at Least 98% Standard Proctor Density
- RD.02 Cul-de-sacs: 700’ Maximum Length, 100’ Diameter R/W; 80’ Diameter Roadway
- RD.03 Minimum Roadway Grade – 1%
- RD.04 Horizontal Curves: Minimum radius of 100’; minimum of 100’ tangent between reverse curves on major thoroughfares
- RD.05 Minimum roadway profile standards:
- | | <u>R/W</u> | <u>WIDTH</u>
(BC – BC) | <u>BASE</u>
(GAB) | <u>BINDER</u>
("E") | <u>SURFACE</u>
(SUPERPAVE) | <u>MAX. GRADE</u> |
|---------------------|------------|---------------------------|----------------------|------------------------|-------------------------------|-------------------|
| Major Thoroughfares | 100’ | 52’ | 10” | 3” | 2” | 5% |
| Industrial Streets | 50’ | 30’ | 10” | 3” | 2” | 15% |
| Collector Streets | 50’ | 28’ | 8” | 2” | 1” | 15% |
| Minor Streets | 50’ | 24’ | 8” | 2” | 1” | 15% |

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RD.06	<input type="checkbox"/>	<input type="checkbox"/> Horizontal Sight Distance Minimums: <input type="checkbox"/> 400' for Major Thoroughfares <input type="checkbox"/> 300' for Minor Thoroughfares <input type="checkbox"/> 200' for Collectors and Local Streets	<input type="checkbox"/>
RD.07	<input type="checkbox"/>	Intersections: No less than 60° angle of intersection; curb radius not less than 25'; R/W at radius shall be chords rather radii, from the beginning to the end of where the chord radius intersects the R/W Line	<input type="checkbox"/>
RD.08	<input type="checkbox"/>	Either Curb and Gutter or Rolled Curb Shall Be Installed on All Streets	<input type="checkbox"/>
RD.09	<input type="checkbox"/>	Sidewalks shall be provided near schools and other places of public assembly, in commercial areas, and intensive residential developments (i.e. Apartment Areas)	<input type="checkbox"/>
RD.10	<input type="checkbox"/>	Storm drain minimum size under streets is 18 inches. (Section 29)	<input type="checkbox"/>
RD.11	<input type="checkbox"/>	Storm Drains under roadways shall be reinforced concrete pipe (Paved invert required for running stream, i.e. 160 Ac drainage area)	<input type="checkbox"/>
RD.12	<input type="checkbox"/>	Storm Drains 42" and smaller carrying stormwater from the street through lots shall be extended at least 60' behind the building (Section 31)	<input type="checkbox"/>
RD.13	<input type="checkbox"/>	Gutter spread calculations, HEC-12, or approved alternate which show gutter spread for 25-year storm is less than half the travel lane with Manning "n" = 0.016 for pavement	<input type="checkbox"/>
RD.14	<input type="checkbox"/>	Provide street profile drawings, showing all cross drains, culverts, inlets etc.	<input type="checkbox"/>
RD.15	<input type="checkbox"/>	Fire Hydrants: Residential Subdivisions - Fire Hydrants (measured along hose lay) shall be no more than 400' from the center of the lot at the building line; Non-Residential Subdivisions – fire hydrants shall be no more than 500' apart	<input type="checkbox"/>
RD.16	<input type="checkbox"/>	Curb Cuts shall be no closer than 40' to an intersection and no closer than 30' to another curb cut; a curb cut shall be no more than 30' wide and no closer than 20' to a property line without approval of Public Works Director (Section 81)	<input type="checkbox"/>
RD.17	<input type="checkbox"/>	Improvements to existing streets needed to accommodate increased traffic (Section 82)	<input type="checkbox"/>
RD.18	<input type="checkbox"/>	Corner Visibility: No fence, structure, sign, planting or other obstruction shall be within 15' of the intersection of the R/W (Section 83)	<input type="checkbox"/>

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STORMWATER DRAINAGE SYSTEM:

(Cobb County 409.02.01)

- SW.01 Approved Pipe Materials
- a. Concrete: RCP
- Slope (S): $1\% \leq S \leq 10\%$
- Class under fills shall conform to GA DOT standard 1030D
- b. High Density Polyethylene: HDPE (not permitted under traffic areas)
- Slope (S): $1\% \leq S$
- Smooth bore pipe only
- Watertight bell and spigot gasketed joints must be provided
- Must have granular backfill to top of pipe
- No HDPE with depth finished Grade to invert >10'
- 36" diameter or larger shall be inspected and certified by a Geotechnical Engineer or a manufacturer's representative
- Submit manufacturer data upon submission to City and City's engineer
- SW.02 Design Criteria
- Design Storm: Minimum 25- year frequency storm
- Slope: See pipe material
- Velocity:
- Minimum Velocity of 3 fps for 25- year frequency storm
- Exit velocities greater than 8 fps shall have energy dissipation devices in addition to rip-rap
- Unimproved ditch velocities must be < 5 fps.
- Maximum continuous length of storm drainage pipe 300' for pipes 48 inches and smaller
- SW.03 Easement required for drainage from adjacent site
- Minimum 20' wide for pipes
- Minimum 20' wide for open channels
- No easements of stormwater piping on private property
- No devices on private property (inlets, outlets, grates, etc.)
- SW.04 Provide Storm Drainage Calculations
- SW.05 Details for All Types of Drainage Structures Used Including Headwalls
- SW.06 Provide Storm Drain Profiles Including:
- 25- year and 100- year HGL's
- All utilities and storm crossings
- Structure identification labels consistent with storm drain plan labels
- Pipe size, length, material, and slope
- Structure type consistent with plan
- All structure invert and top elevations

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HYDROLOGY REPORT:

HY.01	<input type="checkbox"/>	<input type="checkbox"/>	Cover Sheet <input type="checkbox"/> Project Title <input type="checkbox"/> Georgia Professional's Seal with signature and date <input type="checkbox"/> Design Firm's name, address, and phone number	<input type="checkbox"/>
HY.02	<input type="checkbox"/>	<input type="checkbox"/>	Pre- Development and Post- Development maps are clear and adequate <input type="checkbox"/> Sub-basins are clearly labeled <input type="checkbox"/> Contributing area for each sub-basin is shown <input type="checkbox"/> Show Runoff coefficient for each sub-basin	<input type="checkbox"/>
HY.03	<input type="checkbox"/>	<input type="checkbox"/>	Narrative provides clear rationale and methodology for hydrology study	<input type="checkbox"/>
HY.04	<input type="checkbox"/>	<input type="checkbox"/>	Summary tables show pre and post-development flows for 2, 5, 10, 25, 50 and 100-year storms. Post developed flows must be less than or equal to pre-development flows for all storm events	<input type="checkbox"/>
HY.05	<input type="checkbox"/>	<input type="checkbox"/>	Rational method may be used for drainage areas up to 50 acres; US Soil Conservation Service (SCS) method may be used for all drainage areas	<input type="checkbox"/>
HY.06	<input type="checkbox"/>	<input type="checkbox"/>	Time of concentration (Tc) calculations must be shown and made with accepted procedures. Minimum Tc for pre-development conditions is 10 min. unless site is less than 1 acre, in which case 5 minutes may be used	<input type="checkbox"/>
HY.07	<input type="checkbox"/>	<input type="checkbox"/>	Outlet control structure detail is included in hydrology report. Detail must be consistent with detention pond grading elevations and construction drawings	<input type="checkbox"/>
HY.08	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic model input is consistent with outlet control structure details	<input type="checkbox"/>
HY.09	<input type="checkbox"/>	<input type="checkbox"/>	Detention pond grading with 100-year storm elevation and volume is included in hydrology report	<input type="checkbox"/>
HY.10	<input type="checkbox"/>	<input type="checkbox"/>	Downstream impact of development showing timing/release and/or development impact on flood plain in respective basin	<input type="checkbox"/>
HY.11	<input type="checkbox"/>	<input type="checkbox"/>	Narrative provides clear rationale and methodology for hydrology study	<input type="checkbox"/>
HY.12	<input type="checkbox"/>	<input type="checkbox"/>	Water Quality calculations are included and adequate	<input type="checkbox"/>
HY.13	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic model input is consistent with outlet control structure details	<input type="checkbox"/>

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PLANNING & ZONING REVIEW:

- | | | | | |
|-------|--------------------------|--------------------------|---|--------------------------|
| PZ.01 | <input type="checkbox"/> | <input type="checkbox"/> | Does this project warrant a DRI study:
Office – Greater than 400,000 SF / Commercial – Greater than 300,000 SF
Mixed Use – Greater than 400,000 SF (w/1,800 SF reserved for res. units) or >120 Acres | <input type="checkbox"/> |
| PZ.02 | <input type="checkbox"/> | <input type="checkbox"/> | Indicate graphic scale | <input type="checkbox"/> |
| PZ.03 | <input type="checkbox"/> | <input type="checkbox"/> | Indicate north arrow | <input type="checkbox"/> |
| PZ.04 | <input type="checkbox"/> | <input type="checkbox"/> | Site location map provided | <input type="checkbox"/> |
| PZ.05 | <input type="checkbox"/> | <input type="checkbox"/> | Date of original & all revisions | <input type="checkbox"/> |
| PZ.06 | <input type="checkbox"/> | <input type="checkbox"/> | Exact boundary lines of the tract (heavy line giving lengths and bearings) | <input type="checkbox"/> |
| PZ.07 | <input type="checkbox"/> | <input type="checkbox"/> | Lot size(s) in square feet | <input type="checkbox"/> |
| PZ.08 | <input type="checkbox"/> | <input type="checkbox"/> | Zoning classification of parcel | <input type="checkbox"/> |
| PZ.09 | <input type="checkbox"/> | <input type="checkbox"/> | Zoning classification of adjacent parcels | <input type="checkbox"/> |
| PZ.10 | <input type="checkbox"/> | <input type="checkbox"/> | Indicate references to recorded subdivision plats of adjacent parcels by record name/plat/book/page # (if applicable) | <input type="checkbox"/> |
| PZ.11 | <input type="checkbox"/> | <input type="checkbox"/> | Indicate Rezone Case # with conditions and/or Stipulation Letter with Conditions – show as a detail (if applicable) | <input type="checkbox"/> |
| PZ.12 | <input type="checkbox"/> | <input type="checkbox"/> | Indicate Variance Case # with conditions – show as a detail (if applicable) | <input type="checkbox"/> |
| PZ.13 | <input type="checkbox"/> | <input type="checkbox"/> | Delineate all setbacks on all lots for district | <input type="checkbox"/> |
| PZ.14 | <input type="checkbox"/> | <input type="checkbox"/> | Meets required lot widths | <input type="checkbox"/> |
| PZ.15 | <input type="checkbox"/> | <input type="checkbox"/> | Delineate any and all streams with 75’ buffer shown and labeled:
(25’ State undisturbed; 25’ City of Acworth Undisturbed; 25’ Impervious Surface Buffer = 75’ from top of banks) | <input type="checkbox"/> |
| PZ.16 | <input type="checkbox"/> | <input type="checkbox"/> | Show existing roads with right-of-way shown | <input type="checkbox"/> |
| PZ.17 | <input type="checkbox"/> | <input type="checkbox"/> | Show building area (square feet) | <input type="checkbox"/> |
| PZ.18 | <input type="checkbox"/> | <input type="checkbox"/> | Label proposed use of building | <input type="checkbox"/> |

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PZ.19	<input type="checkbox"/>	<input type="checkbox"/>	Total number of parking spaces provided (w/dimensions) correct (_____ spaces required)	<input type="checkbox"/>
PZ.20	<input type="checkbox"/>	<input type="checkbox"/>	Indicate loading/unloading space required	<input type="checkbox"/>
PZ.21	<input type="checkbox"/>	<input type="checkbox"/>	Tree islands and end cap islands provided for every 12 contiguous parking spaces with one 3” cal. hardwood tree per planter area (two if double row of parking)	<input type="checkbox"/>
PZ.22	<input type="checkbox"/>	<input type="checkbox"/>	RDF met (< 25 acres = 15 u/acre; > 25 acres = 20 u/acre)	<input type="checkbox"/>
PZ.23	<input type="checkbox"/>	<input type="checkbox"/>	Identify any and all specimen trees. All specimen trees shall be protected. If a specimen tree is proposed to be removed, a full explanation and recompense calculations and trees shall be shown	<input type="checkbox"/>
PZ.24	<input type="checkbox"/>	<input type="checkbox"/>	Active tree protective fencing shall be shown on all plan sheets	<input type="checkbox"/>
PZ.25	<input type="checkbox"/>	<input type="checkbox"/>	All designated tree protection areas shall be shown on all plan sheets	<input type="checkbox"/>
PZ.26	<input type="checkbox"/>	<input type="checkbox"/>	Provide all tree planting details (Cobb County details acceptable)	<input type="checkbox"/>
PZ.27	<input type="checkbox"/>	<input type="checkbox"/>	Note & illustrate all disturbed areas to be sodded and/or fully landscaped	<input type="checkbox"/>
PZ.28	<input type="checkbox"/>	<input type="checkbox"/>	Indicate all sidewalks along entire road frontage (both frontages if corner lot)	<input type="checkbox"/>
PZ.29	<input type="checkbox"/>	<input type="checkbox"/>	Indicate all sidewalks with h/c accessibility and connectivity from street to building	<input type="checkbox"/>
PZ.30	<input type="checkbox"/>	<input type="checkbox"/>	Indicate inter-parcel access if adjoining commercial property (if applicable)	<input type="checkbox"/>
PZ.31	<input type="checkbox"/>	<input type="checkbox"/>	Indicate any easements or encroachments (if applicable)	<input type="checkbox"/>
PZ.32	<input type="checkbox"/>	<input type="checkbox"/>	Identify all detention pond fencing and materials (wood fence or vinyl coated chain link) and height proposed	<input type="checkbox"/>
PZ.33	<input type="checkbox"/>	<input type="checkbox"/>	Show required landscape around detention pond (min. 6’ tall evergreen)	<input type="checkbox"/>
PZ.34	<input type="checkbox"/>	<input type="checkbox"/>	Note on plans responsible party for detention pond maintenance	<input type="checkbox"/>

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- PZ.35 Tree Ordinance Maintenance note: (For commercial developments)
- “A maintenance bond, letter of credit or escrow account is required for all materials planted to meet ordinance requirements. The amount of this “maintenance surety” must be 100 percent of the cost of all required plant materials and the cost of the installation and guarantee of those materials. The surety is the responsibility of the owner/developer of the project. It must be prepared on forms provided by the Planning & Zoning Department and must be posted prior to the issuance of the Certificate of Occupancy (C/O).” The expiration date of the surety instrument shall be determined as twelve (12) months from the date of the surety.**
- PZ.36 Lighting plan for approval – no light poles over 40’ height; lights directed downward toward parking lot; no spillover to adjacent property (if applicable)

This file includes all three checklists and guidance documents as well as Appendix 1.

To access the desired checklist and guidance document, go to the bottom of this page and click on the appropriate tab.

Use the arrows on the bottom left hand corner of this page to advance the tabs for the 2015 checklists.

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: _____ **Address:** _____

City/County: _____ **Date on Plans:** _____

Plan **Included**
Page # **Y/N**

TO BE SHOWN ON ES&PC PLAN

- | | | |
|---|---|--|
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
<i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i> |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
<i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)</i> |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*
<i>(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)</i> |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 5 Provide the name, address and phone number of primary permittee. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 6 Note total and disturbed acreage of the project or phase under construction. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 9 Description of the nature of construction activity. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit. |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.* |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."* |
| <input style="width: 60px; height: 20px;" type="text"/> | <input style="width: 60px; height: 20px;" type="text"/> | 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits." |

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."* |
| <input type="checkbox"/> | <input type="checkbox"/> | 17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."* |
| <input type="checkbox"/> | <input type="checkbox"/> | 18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." |
| <input type="checkbox"/> | <input type="checkbox"/> | 19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." |
| <input type="checkbox"/> | <input type="checkbox"/> | 20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." |
| <input type="checkbox"/> | <input type="checkbox"/> | 21 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 23 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 24 Provide BMPs for the remediation of all petroleum spills and leaks. |
| <input type="checkbox"/> | <input type="checkbox"/> | 25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 26 Description of the practices that will be used to reduce the pollutants in storm water discharges.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). |
| <input type="checkbox"/> | <input type="checkbox"/> | 28 Provide complete requirements of inspections and record keeping by the primary permittee.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 29 Provide complete requirements of sampling frequency and reporting of sampling results.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 30 Provide complete details for retention of records as per Part IV.F. of the permit.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 31 Description of analytical methods to be used to collect and analyze the samples from each location.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 32 Appendix B rationale for NTU values at all outfall sampling points where applicable.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 34 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.* |
| <input type="checkbox"/> | <input type="checkbox"/> | 35 Graphic scale and North arrow. |

36 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

37 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

39 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.

40 Delineation and acreage of contributing drainage basins on the project site.

41 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

44 Soil series for the project site and their delineation.

45 The limits of disturbance for each phase of construction.

46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. 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.

47 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

48 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2015

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: _____ Address: _____

City/County: _____ Date on Plans: _____

Plan
Page #

Included
Y/N

TO BE SHOWN ON ES&PC PLAN

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

2 Level II certification number issued by the Commission, signature and seal of the certified design professional.

*(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
The Level II certification must be issued to the Design Professional whose signature and seal are on the Plan.*

3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*

(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)

4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

May be shown on ES&PC Plan sheets and/or ES&PC notes.

5 Provide the name, address and phone number of primary permittee.

May be shown on cover sheet, ES&PC Plan or under ES&PC notes.

6 Note total and disturbed acreage of the project or phase under construction.

Must be shown on ES&PC Plan or under ES&PC notes.

7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.

GPS location of the construction exit must be shown on cover sheet and may also be shown on ES&PC Plan sheets and ES&PC notes. It must match the NOI.

8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

The initial Plan date should be shown on all pages. With each resubmittal, the revision date and entity requesting revisions should be shown on cover sheet and each sheet that has been revised.

9 Description of the nature of construction activity.

Provide a description of the existing site and a description of the proposed project. These must be shown on ES&PC Plan or under ES&PC notes.

10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

Site location must be delineated showing surrounding area roads and highways. If the project is being done in phases, each individual phase must be delineated and labeled. This information is important for Plan Reviewers if a site visit is needed, or if the site needs to be located on another map.

11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.

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. Describe any neighboring area which could be affected by the

post-developed runoff from the site.

- 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.

The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*

The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.**

The Plan must include a statement indicating that the primary permittee must retain the design professional who prepared the Plan, except when the primary permittee has requested in writing and EPD has agreed to an alternate design professional, 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.

- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation without first acquiring the necessary variances and permits."

See Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (I) and (II) on pages 15,16,17 & 18 of the permit and show under ES&PC notes.

- 16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.**

See part IV. C. on page 19 of the permit. This can be clarified in a narrative and shown under ES&PC notes. Revisions or amendments should be submitted to the Local Issuing Authority for review.

- 17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit.**

The Plan must include a description of how waste materials, including waste building materials, construction and demolition debris, concrete washout, excavated sediment, etc., will be properly disposed of. Any disposal of solid waste to waters of the State is prohibited unless authorized by a Section 404 permit.

- 18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

Must be shown on ES&PC Plan or under ES&PC notes.

- 19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

Must be shown on ES&PC Plan or under ES&PC notes.

20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

Must be shown on ES&PC Plan or under ES&PC notes.

21 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

If any storm water associated with construction activities discharges into an Impaired Stream Segment that has been 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), the ES&PC Plan must include at least four (4) of the BMPs listed in Part III.C.2. (a) - (i) of the Permit. The Impaired Stream Segment(s) should be delineated on the ES&PC Plan. Georgia's most current and subsequent "305(b)/303(d) List Documents (Final)" can be viewed on the GAEPD website. www.gaepd.org/Documents/305b.html

22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*

List of TMDL Implementation Plans can be viewed on the GAEPD website, www.gaepd.org. The TMDL Implementation Plan for sediment should be delineated on the ES&PC Plan.

23 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*

When the project allows the concrete washdown of tools, concrete mixer chutes, hoppers and rear of the vehicles on the project site delineate the location of the area provided for washing and provide detail of BMPs that will be used. If the project does not allow the concrete washdown on the project site, note that on the Plan.

24 Provide BMPs for the remediation of all petroleum spills and leaks.

The Plan must provide BMPs and guidance for the prevention of spills and leaks of petroleum products from any areas where such products are stored or used as well as guidance for the proper remediation of any spills and leaks that do occur. This information can be in the form of a separate Spill Prevention/Spill Response document so long as that information accompanies the Plan.

25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*

The Plan must contain a description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. These may include storm water detention and retention structures, use of vegetated swales and natural depressions for flow attenuation or a combination of these practices (sequential systems). The Plan must also include a technical explanation of the basis used to select these practices where flows will exceed pre-development levels. The Plan must indicate that velocity dissipation devices will be placed at discharge locations and along the length of any outflow channel in order to provide a non-erosive flow so that the natural physical and biological characteristics and functions of the water course are maintained and protected. The installation of these devices may be subject to Section 404 of the Federal Clean Water Act.

Note: The permittee is only responsible for the installation and maintenance of storm water management devices prior to final stabilization of the site and not the operation and maintenance of such structures after construction activities have been completed.

26 Description of the practices that will be used to reduce the pollutants in storm water discharges.*

The Plan must identify all potential sources of storm water pollution expected to be present on the site and provide a narrative explaining how the pollutants will be minimized in the storm water discharges.

27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

Activity schedule must be site specific. The narrative description and timeline for each phase of construction may be shown on ES&PC Plan sheet or under ES&PC notes.

28 Provide complete requirements of inspections and record keeping by the primary permittee.*

The Plan must include all of the inspections and record keeping requirements of the primary permittee as stated in Part IV.D.4.a. on page 23 of the Permit. The complete inspection and record keeping requirements shall be shown on the Plan under ES&PS notes.

29 Provide complete requirements of sampling frequency and reporting of sampling results.*

See page 26 Sampling Frequency and page 25 section E. Reporting in the permit. Complete sampling frequency and reporting requirements are to be shown on the Plan under ES&PC notes.

30 Provide complete details for retention of records as per Part IV.F. of the permit.*

See page 28 section F. Retention of Records in the permit. Complete details of retention of records are to be shown on the Plan under ES&PC notes.

31 Description of analytical methods to be used to collect and analyze the samples from each location.*

This narrative must be shown on the Plan under ES&PC notes and shall include quality control/assurance procedures and precise sampling methodology for each sampling location.

32 Appendix B rationale for NTU values at all outfall sampling points where applicable.*

When the permittee has determined that some or all outfalls will be monitored, a rationale must be shown on the Plan under ES&PC notes which includes 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).

33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*

The Plan shall include 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 locations of the site or the common development. The map must include (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 the 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.

34 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.*

The Plan must be shown in a minimum of three phases with each phase shown on a separate sheet. Initial phase of the Plan must include the required 67 cy per acre sediment storage, construction exit, tree-save fence if applicable and any other BMPs necessary to prevent sediment from leaving the site such as silt fence, inlet protection on existing storm drain structures, diversions, check dams, temporary ground cover, etc. Limits of disturbance for the initial phase are to be only the areas needed to install initial BMPs. The intermediate phase should show rough grading and utility construction. BMPs

should include initial inlet protection, additional silt fence as needed, any revised sediment storage needed as drainage basins are altered, outlet protection, retrofit if applicable, matting with temporary or permanent vegetation as needed, temporary down drains, filter rings, etc. Final phase of Plan should show finished grade, curbing and paving if applicable, building construction if applicable, etc. BMPs should include permanent vegetation, appropriate inlet protection, etc. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and the 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.

35 Graphic scale and North arrow.

The graphic scale and North arrow must be clearly shown on all phases of the ES&PC Plan sheets.

36 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

The initial, intermediate, and final phase sheets of the Plan must show the proposed grade in bold contour lines with the above intervals overlaying the original contour lines. Elevations of both the existing and proposed contour lines must be shown.

37 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov

38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

The State Law of Georgia mandates these minimum undisturbed buffers, but the Local Issuing Authorities are allowed to require more stringent buffers of State waters. The minimum undisturbed buffers required by the State and all other buffers of State waters required by the issuing authority must be delineated. Any undisturbed buffer area that is impacted by the project site must be noted on the Plan.

39 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE MUST BE DELINEATED ON ALL PHASES OF THE PLAN. When a project is located in a jurisdiction with a certified Local Issuing Authority and the LIA must make a determination of State waters that are not delineated on the plan, the Plan review could be delayed for beyond the full forty-five day review time allowed to the LIA, or the full thirty-five day review time allowed to the District if the District is reviewing the plan. For all projects in a jurisdiction where there is no certified Local Issuing Authority regulating that project, EPD is responsible for State waters determinations and there are no time limits for reviewing the Plan.

ALL WETLANDS LOCATED WITHIN THE PROJECT SITE ONLY MUST BE DELINEATED.

If the Local Issuing Authority requires an undisturbed buffer of wetlands, delineate required buffer.

40 Delineation and acreage of contributing drainage basins on the project site.

All existing drainage basins on the project site and their acreage must be delineated on the existing conditions and/or on the initial phase of the Plan. As the basins are altered or new ones created during intermediate and final phases, the new basins and their acreage must be delineated throughout each phase of the Plan.

41 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

Hydrology study and drainage maps should be separate from the Plan. Maps should include each individual basin draining to, through, and from, the project site, with each one delineated, labeled and showing its total acreage.

42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

completed.

The Plan must provide both pre- and post-construction estimates of the runoff coefficient or peak discharge flow for the site. This can be in the form of a hydrologic study so long as that study is made a part of the Plan and accompanies the Plan. A complete hydrologic study is not a required element of the Plan, only the pre and post-construction estimates of the run-off coefficient or peak discharge flow for the site.



- 43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.

Identify/Delineate all storm water discharge points.

The storm-drain pipe and weir velocities must show the flow characteristics of the pipe at full flow including pipe diameter, flow rate (cfs), velocity (fps), and tailwater conditions. This information should be shown in a chart on the storm-drain profile sheet, ES&PC intermediate phase sheet, or on the ES&PC detail sheet that shows outlet protection.

The dimensions of the apron must include length (La), width at the headwall (W1), down-stream width (W2), average stone diameter (d50), and stone depth (D) designed in accordance with Figures 6-24.1 and 6-24.2 in the Manual. These should be shown in a chart on ES&PC intermediate and/or final phase sheet or ES&PC detail sheet with outlet protection. velocity dissipation devices shall be placed at all 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 functions and characteristics are maintained and protected.



- 44 Soil series for the project site and their delineation.

Soil series delineations are required for the Plan review and can be found on the NRCS web site. The highest level of soil survey required for the project site, such as a level three or level four survey for projects that will be using septic systems, must be delineated on the Plan. The soil series delineation should be shown on the existing site Plan or the initial phase Plan. A chart listing the soils located on the project should be shown on the sheet with their delineation.



- 45 The limits of disturbance for each phase of construction.

The limits of disturbance for the initial phase should delineate only the area required to be disturbed for the installation of perimeter control and initial sediment storage. The intermediate phase should delineate the entire area to be disturbed for that phase, such as grading, drainage, utilities installed, etc. The final phase should delineate any additional areas to be disturbed such as individual lots, etc.



- 46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. 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.

For each common drainage location, a temporary (or Permanent) sediment basin (Sd3, Rt, or excavated Sd2) providing at least 67 cubic yards of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 67 cubic yards of storage per acre 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. Sediment basins may not be appropriate for some common drainage locations and a written justification explaining the decision not to use sediment basins must be included in the Plan. Worksheets from the Manual must be completed and shown on the Plan or attached to the Plan for each temporary sediment basin designed for the project. All cross sections and details required per the Manual for Sd3's must be shown on the ES&PC detail section of the Plan. Completed worksheets from the Manual must be shown on the Plan for each retrofit and excavated inlet sediment

trap. When the design professional chooses to use equivalent controls the calculations used to obtain the required 67 cubic yards per acre drained must be included on the Plan. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

47 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

BMPs for all phases of the Plan must be consistent with and no less stringent than the Manual and shown using uniform coding symbols from the Manual. The uniform coding symbols legend from the Manual must be included and may be shown on detail sheet or any of the ES&PC Plan sheets.

48 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

The erosion and sediment control detail sheet must show a detailed drawing for each structural BMP shown on the Plan. All BMPs and details shown must, at a minimum, meet the guidelines given in the Manual. Note that a worksheet is provided in the Manual for most structural BMPs that must be included on the ES&PC Plan or detail sheet.

49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Must be shown on ES&PC Plan, on the ES&PC detail sheet or under ES&PC notes.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2015

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: _____ Address: _____

City/County: _____ Date on Plans: _____

Plan Page #	Included Y/N
<input type="checkbox"/>	<input type="checkbox"/>

TO BE SHOWN ON ES&PC PLAN

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

<input type="checkbox"/>	<input type="checkbox"/>
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2 Level II certification number issued by the Commission, signature and seal of the certified design professional.

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)

<input type="checkbox"/>	<input type="checkbox"/>
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3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

<input type="checkbox"/>	<input type="checkbox"/>
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4 Provide the name, address and phone number of primary permittee.

<input type="checkbox"/>	<input type="checkbox"/>
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5 Note total and disturbed acreage of the project or phase under construction.

<input type="checkbox"/>	<input type="checkbox"/>
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6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.

<input type="checkbox"/>	<input type="checkbox"/>
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7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

<input type="checkbox"/>	<input type="checkbox"/>
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8 Description of the nature of construction activity.

<input type="checkbox"/>	<input type="checkbox"/>
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9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

<input type="checkbox"/>	<input type="checkbox"/>
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10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.

<input type="checkbox"/>	<input type="checkbox"/>
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11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.

<input type="checkbox"/>	<input type="checkbox"/>
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12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*

<input type="checkbox"/>	<input type="checkbox"/>
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13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*

<input type="checkbox"/>	<input type="checkbox"/>
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14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation.**"

<input type="checkbox"/>	<input type="checkbox"/>
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15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits."

<input type="checkbox"/>	<input type="checkbox"/>
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16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.**"

<input type="checkbox"/>	<input type="checkbox"/>
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17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit.**"

<input type="checkbox"/>	<input type="checkbox"/>
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18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

21 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*

23 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*

24 Provide BMPs for the remediation of all petroleum spills and leaks.

25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*

26 Description of the practices that will be used to reduce the pollutants in storm water discharges.*

27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

28 Provide complete requirements of inspections and record keeping by the primary permittee.*

29 Provide complete requirements of sampling frequency and reporting of sampling results.*

30 Provide complete details for retention of records as per Part IV.F. of the permit.*

31 Description of analytical methods to be used to collect and analyze the samples from each location.*

32 Appendix B rationale for NTU values at all outfall sampling points where applicable.*

33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*

34 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.*

35 Graphic scale and North arrow.

36 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1" : 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

37 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. |
| <input type="checkbox"/> | <input type="checkbox"/> | 39 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 40 Delineation and acreage of contributing drainage basins on the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 41 Delineate on-site drainage and off-site watersheds using USGS 1' :2000' topographical sheets. |
| <input type="checkbox"/> | <input type="checkbox"/> | 42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| <input type="checkbox"/> | <input type="checkbox"/> | 43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. |
| <input type="checkbox"/> | <input type="checkbox"/> | 44 Soil series for the project site and their delineation. |
| <input type="checkbox"/> | <input type="checkbox"/> | 45 The limits of disturbance for each phase of construction. |
| <input type="checkbox"/> | <input type="checkbox"/> | 46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. 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. |
| <input type="checkbox"/> | <input type="checkbox"/> | 47 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| <input type="checkbox"/> | <input type="checkbox"/> | 48 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| <input type="checkbox"/> | <input type="checkbox"/> | 49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. |

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2015

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: _____ Address: _____

City/County: _____ Date on Plans: _____

Plan Page #	Included Y/N
<input type="checkbox"/>	<input type="checkbox"/>

TO BE SHOWN ON ES&PC PLAN

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

<input type="checkbox"/>	<input type="checkbox"/>
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2 Level II certification number issued by the Commission, signature and seal of the certified design professional.

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)

The Level II certification must be issued to the Design Professional whose signature and seal are on the Plan.

<input type="checkbox"/>	<input type="checkbox"/>
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3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

May be shown on ES&PC Plan sheets and/or ES&PC notes.

<input type="checkbox"/>	<input type="checkbox"/>
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4 Provide the name, address and phone number of primary permittee.

May be shown on cover sheet, ES&PC Plan or under ES&PC notes.

<input type="checkbox"/>	<input type="checkbox"/>
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5 Note total and disturbed acreage of the project or phase under construction.

Must be shown on ES&PC Plan or under ES&PC notes.

<input type="checkbox"/>	<input type="checkbox"/>
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6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.

GPS locations of the begining and end of the infrastructure project must be shown on cover sheet and may also be shown on ES&PC Plan sheets and ES&PC notes. It must match the NOI.

<input type="checkbox"/>	<input type="checkbox"/>
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7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

The initial Plan date should be shown on all pages. With each resubmittal, the revision date, and the entity requesting revisions should be shown on cover sheet and each sheet that has been revised.

<input type="checkbox"/>	<input type="checkbox"/>
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8 Description of the nature of construction activity.

Provide a description of the existing site and a description of the proposed project. These must be shown on ES&PC Plan or under ES&PC notes.

<input type="checkbox"/>	<input type="checkbox"/>
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9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

Site location must be delineated showing surrounding area roads and highways. If the project is being done in phases, each individual phase must be delineated and labeled. This information is important for Plan Reviewers if a site visit is needed, or if the site needs to be located on another map.

<input type="checkbox"/>	<input type="checkbox"/>
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10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.

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. Describe any neighboring area which could be affected by the post-developed runoff from the site.

<input type="checkbox"/>	<input type="checkbox"/>
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11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.

The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs and sediment basins in accordance with part IV.A.5. within 7 days after installation."*
The Plan must include a statement indicating that the primary permittee must retain the design professional who prepared the Plan, or an alternative professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within (7) days after installation. Alternatively, for linear infrastructure projects, the primary permittee must retain the design professional who prepared the Plan, or alternative design professional approved by EPD in writing to inspect (a) the installation of 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 (7) days after the 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 (7) days and the permittee must correct all deficiencies within (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.

- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation without first acquiring the necessary variances and permits."
See Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (I) and (II) on pages 15,16 & 17 of the permit and show under ES&PC notes.

- 16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*

See part IV. C. on page 19 of the permit. This can be clarified in a narrative and shown under ES&PC notes. Revisions or amendments should be submitted to the Local Issuing Authority for review.

- 17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit.**

The Plan must include a description of how waste materials, including waste building materials, construction and demolition debris, concrete washout, excavated sediment, etc., will be properly disposed of. Any disposal of solid waste to waters of the State is prohibited unless authorized by a Section 404 permit.

- 18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

Must be shown on ES&PC Plan or under ES&PC notes.

- 19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

Must be shown on ES&PC Plan or under ES&PC notes.

- 20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

Must be shown on ES&PC Plan or under ES&PC notes.

- 21 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

If any storm water associated with construction activities discharges into an Impaired Stream Segment that has been 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), the ES&PC Plan must include at least four (4) of the BMPs listed in Part III.C.2. (a) - (t) of the Permit. The Impaired Stream Segment(s) should be delineated on the ES&PC Plan. Georgia's most current and subsequent "305(b)/303(d) List Documents (Final)" can be viewed on the GAEPD website. www.gaepd.org/Documents/305b.html

- 22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*

List of TMDL Implementation Plans can be viewed on the GAEPD website, www.gaepd.org. The TMDL Implementation Plan for sediment should be delineated on the ES&PC Plan.

- 23 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*

When the project allows the concrete washdown of tools, concrete mixer chutes, hoppers and rear of the vehicles on the project site, delineate the location of the area provided for washing and provide detail of BMPs that will be used. If the project does not allow the concrete washdown on the project site, note that on the Plan.

- 24 Provide BMPs for the remediation of all petroleum spills and leaks.

The Plan must provide BMPs and guidance for the prevention of spills and leaks of petroleum products from any areas where such products are stored or used as well as guidance for the proper remediation of any spills and leaks that do occur. This information can be in the form of a separate Spill Prevention/Spill Response document so long as that information accompanies the Plan.

- 25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*

The Plan must contain a description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. These may include storm water detention and retention structures, use of vegetated swales and natural depressions for flow attenuation or a combination of these practices (sequential systems). The Plan must also include a technical explanation of the basis used to select these practices where flows will exceed pre-development levels. The Plan must indicate that velocity dissipation devices will be placed at discharge locations and along the length of any outflow channel in order to provide a non-erosive flow so that the natural physical and biological characteristics and functions of the water course are maintained and protected. The installation of these devices may be subject to Section 404 of the Federal Clean Water Act.

Note: The permittee is only responsible for the installation and maintenance of storm water management devices prior to final stabilization of the site and not the operation and maintenance of such structures after construction activities have been completed.

26 Description of the practices that will be used to reduce the pollutants in storm water discharges.*

The Plan must identify all potential sources of storm water pollution expected to be present on the site and provide a narrative explaining how the pollutants will be minimized in the storm water discharges.

27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

Activity schedule must be site specific. The narrative description and timeline for each phase of construction may be shown on ES&PC Plan sheet or under ES&PC notes.

28 Provide complete requirements of inspections and record keeping by the primary permittee.*

The Plan must include all of the inspections and record keeping requirements of the primary permittee as stated in Part IV.D.4.a. on page 23 of the Permit. The complete inspection and record keeping requirements shall be shown on the Plan under ES&PS notes.

29 Provide complete requirements of sampling frequency and reporting of sampling results.*

See page 26 Sampling Frequency and page 25 section E. Reporting in the permit. Complete sampling frequency and reporting requirements are to be shown on the Plan under ES&PC notes.

30 Provide complete details for retention of records as per Part IV.F. of the permit.*

See page 28 section F. Retention of Records in the permit. Complete details of retention of records are to be shown on the Plan under ES&PC notes.

31 Description of analytical methods to be used to collect and analyze the samples from each location.*

This narrative must be shown on the Plan under ES&PC notes and shall include quality control/assurance procedures and precise sampling methodology for each sampling location.

32 Appendix B rationale for NTU values at all outfall sampling points where applicable.*

When the permittee has determined that some or all outfalls will be monitored, a rationale must be shown on the Plan under ES&PC notes which includes 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).

33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*

The Plan shall include 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 locations of the site or the common development. The map must include (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 the 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.

- 34 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.*

The Plan must be shown in a minimum of three phases with each phase shown on a separate sheet. Initial phase of the Plan must include the required 67 cy per acre sediment storage, construction exit, tree-save fence if applicable and any other BMPs necessary to prevent sediment from leaving the site such as silt fence, inlet protection on existing storm drain structures, diversions, check dams, temporary ground cover, etc. Limits of disturbance for the initial phase are to be only the areas needed to install initial BMPs. The intermediate phase should show rough grading and utility construction. BMPs should include initial inlet protection, additional silt fence as needed, any revised sediment storage needed as drainage basins are altered, outlet protection, retrofit if applicable, matting with temporary or permanent vegetation as needed, temporary down drains, filter rings, etc. Final phase of Plan should show finished grade, curbing and paving if applicable, building construction if applicable, etc. BMPs should include permanent vegetation, appropriate inlet protection, etc. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and the 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.

- 35 Graphic scale and North arrow.

The graphic scale and North arrow must be clearly shown on all phases of the ES&PC Plan sheets.

- 36 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

The initial, intermediate, and final phase sheets of the Plan must show the proposed grade in bold contour lines with the above intervals overlaying the original contour lines. Elevations of both the existing and proposed contour lines must be shown.

- 37 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov

- 38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

The State Law of Georgia mandates these minimum undisturbed buffers, but the Local Issuing Authorities are allowed to require more stringent buffers of State waters. The minimum undisturbed buffers required by the State and all other buffers of State waters required by the issuing authority must be delineated. Any undisturbed buffer area that is impacted by the project site must be noted on the Plan.

- 39 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE MUST BE DELINEATED ON ALL PHASES OF THE PLAN. When a project is located in a jurisdiction with a certified Local Issuing Authority and the LIA must make a determination of State waters that are not delineated on the plan, the Plan review could be delayed for beyond the full forty-five day review time allowed to the LIA, or the full thirty-five day review time allowed to the District if the District is reviewing the plan. For all projects in a jurisdiction where there is no certified Local Issuing Authority regulating

that project, EPD is responsible for State waters determinations and there is no time limits for reviewing the Plan.

ALL WETLANDS LOCATED WITHIN THE PROJECT SITE ONLY MUST BE DELINEATED.

If the Local Issuing Authority requires an undisturbed buffer of wetlands, delineate required buffer.

- 40 Delineation and acreage of contributing drainage basins on the project site.

All existing drainage basins on the project site and their acreage must be delineated on the existing conditions and/or on the initial phase of the plan. As the basins are altered or new ones created during intermediate and final phases, the new basins and their acreage must be delineated throughout each phase of the Plan.

- 41 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

Hydrology study and drainage maps should be separate from the Plan. Maps should include each individual basin draining to, through and from the project site, with each one delineated, labeled and showing its total acreage.

- 42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

The Plan must provide both pre- and post-construction estimates of the runoff coefficient or peak discharge flow for the site. This can be in the form of a hydrologic study so long as that study is made a part of the Plan and accompanies the Plan. A complete hydrologic study is not a required element of the Plan, only the pre and post-construction estimates of the run-off coefficient or peak discharge flow for the site.

- 43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

The storm-drain pipe and weir velocities must show the flow characteristics of the pipe at full flow, including pipe diameter, flow rate (cfs), velocity (fps), and tailwater conditions. This information should be shown in a chart shown on storm-drain profile sheet, ES&PC intermediate phase sheet or on the ES&PC detail sheet that shows outlet protection.

The dimensions of the apron must include length (La), width at the headwall (W1), down-stream width (W2), average stone diameter (d50), and stone depth (D) designed in accordance with Figures 6-24.1 and 6-24.2 in the Manual. These should be shown in a chart on ES&PC intermediate and/or final phase sheet or ES&PC detail sheet with outlet protection. velocity dissipation devices shall be placed at all 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 functions and characteristics are maintained and protected.

- 44 Soil series for the project site and their delineation.

Soil series delineations are required for the Plan review and can be found on the NRCS web site. The highest level of soil survey required for the project site, such as a level three or level four survey for projects that will be using septic systems, must be delineated on the Plan. The soil series delineation should be shown on the existing site Plan or the initial phase Plan. A chart listing the soils located on the project should be shown on the sheet with their delineation.

- 45 The limits of disturbance for each phase of construction.

The limits of disturbance for the initial phase should delineate only the area required to be disturbed for the installation of perimeter control and initial sediment storage. The intermediate phase should delineate the entire area to be disturbed for that phase, such as grading, drainage, utilities installed, etc. The final phase should delineate any additional areas to be disturbed such as individual lots, etc.

- 46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage

when using equivalent controls. 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.

For each common drainage location, a temporary (or permanent) sediment basin (Sd3, Rt, or excavated Sd2) providing at least 67 cubic yards of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 67 cubic yards of storage per acre 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. Sediment basins may not be appropriate for some common drainage locations and a written justification explaining the decision not to use sediment basins must be included in the Plan. Worksheets from the Manual must be completed and shown on the Plan or attached to the Plan for each temporary sediment basin designed for the project. All cross sections and details required per the Manual for Sd3's must be shown on the ES&PC detail section of the Plan. Completed worksheets from the Manual must be shown on the Plan for each retrofit and excavated inlet sediment trap. When the design professional chooses to use equivalent controls the calculations used to obtain the required 67 cubic yards per acre drained must be included on the Plan. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

47 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

BMPs for all phases of the Plan must be consistent with and no less stringent than the Manual and shown using uniform coding symbols from the Manual. The uniform coding symbols legend from the Manual must be included and may be shown on detail sheet or any of the ES&PC Plan sheets.

48 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

The erosion and sediment control detail sheet must show a detailed drawing for each structural BMP shown on the Plan. All BMPs and details shown must, at a minimum, meet the guidelines given in the Manual. Note that a worksheet is provided in the Manual for most structural BMPs that must be included on the ES&PC Plan or detail sheet.

49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Must be shown on ES&PC Plan, on the ES&PC detail sheet or under ES&PC notes.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2015

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees)**

SWCD: _____

Project Name: _____ **Address:** _____

City/County: _____ **Date on Plans:** _____ 5/24/2014

Plan Page #	Included Y/N
<input type="checkbox"/>	<input type="checkbox"/>

TO BE SHOWN ON ES&PC PLAN

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

<input type="checkbox"/>	<input type="checkbox"/>
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2 Level II certification number issued by the Commission, signature and seal of the certified design professional.

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

3 Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*

(A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.)

<input type="checkbox"/>	<input type="checkbox"/>
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4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

<input type="checkbox"/>	<input type="checkbox"/>
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5 Provide the name, address and phone number of the primary permittee or tertiary permittee.

<input type="checkbox"/>	<input type="checkbox"/>
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6 Note total and disturbed acreage of the project or phase under construction.

<input type="checkbox"/>	<input type="checkbox"/>
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7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

<input type="checkbox"/>	<input type="checkbox"/>
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9 Description of the nature of construction activity.

<input type="checkbox"/>	<input type="checkbox"/>
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10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

<input type="checkbox"/>	<input type="checkbox"/>
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11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.

<input type="checkbox"/>	<input type="checkbox"/>
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12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 18 of the permit.

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 17 & 18 of the permit.

<input type="checkbox"/>	<input type="checkbox"/>
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14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."*

<input type="checkbox"/>	<input type="checkbox"/>
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15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits."

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on

BMPs with a hydraulic component must be certified by the design professional.

17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."

18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

21 Indication that the applicable portion of the primary permittees ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and that each secondary shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees.*

22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of an Biota Impaired Stream Segment, must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*

24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.

25 Provide BMPs for the remediation of all petroleum spills and leaks.

26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.

27 Description of the practices that will be used to reduce the pollutants in storm water discharges.

28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

29 Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.

30 Provide complete requirements of sampling frequency and reporting of sampling results.*

31 Provide complete details for retention of records as per Part IV.F. of the permit.

32 Description of analytical methods to be used to collect and analyze the samples from each location.*

33 Appendix B rationale for NTU values at all outfall sampling points where applicable.*

34 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. *

35 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.

36 Plan addresses BMPs for all phases of common development including individual building lots and out-parcels, etc. regardless of who owns or operates the individual sites. Include a typical and any situational lots applicable.

37 Graphic scale and North arrow.

38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

42 Delineation and acreage of contributing drainage basins on the project site.

43 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. *

45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

46 Soil series for the project site and their delineation.

47 The limits of disturbance for each phase of construction.

48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. 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.

49 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*This requirement of the Common Development 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. If applicable, the * checklist item would be N/A.

Effective January 1, 2015

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees)**

SWCD: _____

Project Name: _____ **Address:** _____

City/County: _____ **Date on Plans:** _____

Plan **Included**
Page # **Y/N**

TO BE SHOWN ON ES&PC PLAN

- | | | |
|---|---|--|
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
<i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
<i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
The Level II certification must be issued to the Design Professional whose signature and seal are on the Plan.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 3 Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*
<i>(A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.)</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
<i>May be shown on ES&PC Plan sheets and/or ES&PC notes.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 5 Provide the name, address and phone number of the primary permittee or tertiary permittee.
<i>May be shown on cover sheet, ES&PC Plan or under ES&PC notes.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 6 Note total and disturbed acreage of the project or phase under construction.
<i>Must be shown on ES&PC Plan or under ES&PC notes.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
<i>GPS location of the construction exit must be shown on cover sheet and may also be shown on ES&PC Plan sheets and ES&PC notes. It must match the NOI.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
<i>The initial Plan date should be shown on all pages. With each resubmittal the revision date and entity requesting revisions should be shown on cover sheet and each sheet that has been revised.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 9 Description of the nature of construction activity.
<i>Provide a description of the existing site and a description of the proposed project. These must be shown on ES&PC Plan or under ES&PC notes.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
<i>Site location must be delineated showing surrounding area roads and highways. If the project is being done in phases, each individual phase must be delineated and labeled. This information is important for Plan reviewers if a site visit is needed, or if the site needs to be located on another map.</i> |
| <input style="width: 100%; height: 20px;" type="checkbox"/> | <input style="width: 100%; height: 20px;" type="checkbox"/> | 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
<i>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. Describe any neighboring area which could be affected by the post-developed runoff from the site.</i> |

- 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 18 of the permit.
The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on pages 17 & 18 of the permit.
The following statement and the signature of the design professional must be shown on the ES&PC Plan or under ES&PC notes. "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."

- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."
The Plan must include a statement indicating that the primary permittee must retain the design professional who prepared the Plan, except when the primary permittee has requested in writing and EPD has agreed to an alternate design professional, 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.

- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation without first acquiring the necessary variances and permits."
See Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (I) and (II) on pages 15,16,17 & 18 of the permit and show under ES&PC notes.

- 16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
See part IV. C. on page 121 & 22 of the permit. This can be clarified in a narrative and shown under ES&PC notes. Revisions or amendments should be submitted to the Local Issuing Authority for review.

- 17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
The Plan must include a description of how waste materials, including waste building materials, construction and demolition debris, concrete washout, excavated sediment, etc., will be properly disposed of. Any disposal of solid waste to waters of the State is prohibited unless authorized by a Section 404 permit.

- 18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
Must be shown on ES&PC Plan or under ES&PC notes.

- 19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
Must be shown on ES&PC Plan or under ES&PC notes.

20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

Must be shown on ES&PC Plan or under ES&PC notes.

21 Indication that the applicable portion of the primary permittees ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and that each secondary shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees.*

The Plan must contain a list of and contact information for all secondary permittees and a statement that the primary permittee shall provide a copy of the Plan (and any subsequent revisions to the Plan) to each secondary permittee. The Plan must include a section for each secondary to sign indicating that they have made a written acknowledgement of receipt of the Plan and a copy of the acknowledgement must be kept in the primary's records.

22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

If any storm water associated with construction activities discharges into an Impaired Stream Segment that has been 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), the ES&PC Plan must include at least four (4) of the BMPs listed in Part III.C.2. (a) - (t) of the Permit. The Impaired Stream Segment(s) should be delineated on the ES&PC Plan. Georgia's most current and subsequent "305(b)/303(d) List Documents (Final)" can be viewed on the GAEPD website. www.gaepd.org/Documents/305b.html

23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*

List of TMDL Implementation Plans can be viewed on the GAEPD website, www.gaepd.org. The TMDL Implementation Plan for sediment should be delineated on the ES&PC Plan.

24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.

When the project allows the concrete washdown of tools, concrete mixer chutes, hoppers and rear of the vehicles on the project site delineate the location of the area provided for washing and provide detail of BMPs that will be used. If the project does not allow the concrete washdown on the project site, note that on the Plan.

25 Provide BMPs for the remediation of all petroleum spills and leaks.

The Plan must provide BMPs and guidance for the prevention of spills and leaks of petroleum products from any areas where such products are stored or used as well as guidance for the proper remediation of any spills and leaks that do occur. This information can be in the form of a separate Spill Prevention/Spill Response document so long as that information accompanies the Plan.

26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.

The Plan must contain a description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. These may include storm water detention and retention structures, use of vegetated swales and natural depressions for flow attenuation or a combination of these practices (sequential systems). The Plan must also include a technical explanation of the basis used to select these practices where flows will exceed pre-development levels. The Plan must indicate that velocity dissipation devices will be placed at discharge locations and along the length of any outflow channel in order to provide a non-erosive flow so that the natural physical and biological characteristics and functions of the water course are maintained and protected. The installation of these devices may be subject to Section 404 of the Federal Clean Water Act.

Note: The permittee is only responsible for the installation and maintenance of storm water management devices prior to final stabilization of the site and not the operation and maintenance of such structures after construction activities have been completed.

27 Description of the practices that will be used to reduce the pollutants in storm water discharges.

The Plan must identify all potential sources of storm water pollution expected to be present on the site and provide a narrative explaining how the pollutants will be minimized in the storm water discharges.

28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

Activity schedule must be site specific. The narrative description and timeline for each phase of construction may be shown on ES&PC Plan sheet or under ES&PC notes.

29 Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.

The Plan must include all of the inspections and record keeping requirements of the primary permittee or tertiary permittee as stated in Part IV.D.4.a. on page 25 of the Permit. The complete inspection and record keeping requirements shall be shown on the Plan under ES&PS notes.

30 Provide complete requirements of sampling frequency and reporting of sampling results.*

See page 31 Sampling Frequency and page 32 section E. Reporting in the permit. Complete sampling frequency and reporting requirements are to be shown on the Plan under ES&PC notes.

31 Provide complete details for retention of records as per Part IV.F. of the permit.

See page 33 section F. Retention of Records in the permit. Complete details of retention of records are to be shown on the Plan under ES&PC notes.

32 Description of analytical methods to be used to collect and analyze the samples from each location.*

This narrative must be shown on the Plan under ES&PC notes and shall include quality control/assurance procedures and precise sampling methodology for each sampling location.

33 Appendix B rationale for NTU values at all outfall sampling points where applicable.*

When the permittee has determined that some or all outfalls will be monitored, a rationale must be shown on the Plan under ES&PC notes which includes 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).

34 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. *

The Plan shall include 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 locations of the site or the common development. The map must include (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 the 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.

35 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.

The Plan must be shown in a minimum of three phases with each phase shown on a separate sheet. Initial phase of the Plan must include the required 67 cy per acre sediment storage, construction exit, tree-save fence if applicable and any other BMPs necessary to prevent sediment from leaving the site such as silt fence, inlet protection on existing storm drain structures, diversions, check dams, temporary ground cover, etc. Limits of disturbance for the initial phase are to be only the areas needed to install initial BMPs. The intermediate phase should show rough grading and utility construction. BMPs should include initial inlet protection, additional silt fence as needed, any revised sediment storage needed as drainage basins are altered, outlet protection, retrofit if applicable, matting with temporary or permanent vegetation as needed, temporary down drains, filter rings, etc. Final phase of Plan should show finished grade, curbing and paving if applicable, building construction if applicable, etc. BMPs should include permanent vegetation, appropriate inlet protection, etc. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and the 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.

- 36 Plan addresses BMPs for all phases of common development including individual building lots and out-parcels, etc regardless of who owns or operates the individual sites. Include a typical and any situational lots applicable.

The Erosion, Sedimentation & Pollution Control plans for a common development is designed for the life of the project and must include practices to be implemented by all secondary permittees involved, whether the primary permittee relinquishes ownership of the land rights or not. This includes providing an ES&PC Plan for typical and situational lots for each secondary permittee (builder) who purchases a lot from the primary permittee (developer). Situational lots may include, but are not limited to, lots adjacent to State waters buffers (in which a double row of Type S sediment barriers must be shown adjacent to wetlands, lots with an extreme grade, etc.

- 37 Graphic scale and North arrow.

The graphic scale and North arrow must be clearly shown on all phases of the ES&PC Plan sheets.

- 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

The initial, intermediate and final phase sheets of the Plan must show the proposed grade in bold contour lines with the above intervals overlaying the original contour lines. Elevations of both the existing and proposed contour lines must be shown.

- 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org

- 40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

The State Law of Georgia mandates these minimum undisturbed buffers, but the Local Issuing Authorities are allowed to require more stringent buffers of State waters. The minimum undisturbed buffers required by the State and all other buffers of State waters required by the issuing authority must be delineated. Any undisturbed buffer area that is impacted by the project site must be noted on the Plan.

- 41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE MUST BE DELINEATED ON ALL PHASES OF THE PLAN. When a project is located in a jurisdiction with a certified Local Issuing Authority and the LIA must make a determination of State waters that are not delineated on the plan, the Plan review could be delayed for

beyond the full forty-five day review time allowed to the LIA, or the full thirty-five day review time allowed to the District if the District is reviewing the plan. For all projects in a jurisdiction where there is no certified Local Issuing Authority regulating that project, EPD is responsible for State waters determinations and there is no time limits for reviewing the Plan.

ALL WETLANDS LOCATED WITHIN THE PROJECT SITE ONLY MUST BE DELINEATED.

If the Local Issuing Authority requires an undisturbed buffer of wetlands, delineate required buffer.

42 Delineation and acreage of contributing drainage basins on the project site.

All existing drainage basins on the project site and their acreage must be delineated on the existing conditions and/or on the initial phase of the Plan. As the basins are altered or new ones created during intermediate and final phases, the new basins and their acreage must be delineated throughout each phase of the Plan.

43 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

Hydrology study and drainage maps should be separate from the Plan. Maps should include each individual basin draining to, through and from the project site, with each one delineated, labeled and showing its total acreage.

44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.*

The Plan must provide both pre- and post-construction estimates of the runoff coefficient or peak discharge flow for the site. This can be in the form of a hydrologic study so long as that study is made a part of the Plan and accompanies the Plan. A complete hydrologic study is not a required element of the Plan, only the pre and post-construction estimates of the run-off coefficient or peak discharge flow for the site.

45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.

Identify/Delineate all storm water discharge points.

The storm-drain pipe and weir velocities must show the flow characteristics of the pipe at full flow including pipe diameter, flow rate (cfs), velocity (fps), and tailwater conditions. This information should be shown in a chart shown on storm-drain profile sheet, ES&PC intermediate phase sheet or on the ES&PC detail sheet that shows outlet protection.

The dimensions of the apron must include length (La), width at the headwall (W1), down-stream width (W2), average stone diameter (d50), and stone depth (D) designed in accordance with Figures 6-24.1 and 6-24.2 in the Manual. These should be shown in a chart on ES&PC intermediate and/or final phase sheet or ES&PC detail sheet with outlet protection. velocity dissipation devices shall be placed at all 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 functions and characteristics are maintained and protected.

46 Soil series for the project site and their delineation.

Soil series delineations are required for the Plan review and can be found on the NRCS web site. The highest level of soil survey required for the project site, such as a level three or level four survey for projects that will be using septic systems, must be delineated on the Plan. The soil series delineation should be shown on the existing site Plan or the initial phase Plan. A chart listing the soils located on the project should be shown on the sheet with their delineation.

47 The limits of disturbance for each phase of construction.

The limits of disturbance for the initial phase should delineate only the area required to be disturbed for the installation of perimeter control and initial sediment storage. The intermediate phase should delineate the entire area to be disturbed for that phase, such as grading, drainage, utilities installed, etc. The final phase should delineate any additional areas to be disturbed such as individual lots, etc.

48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin,

retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written

justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. 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.

For each common drainage location, a temporary (or Permanent) sediment basin (Sd3, Rt, or excavated Sd2) providing at least 67 cubic yards of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site. The 67 cubic yards of storage per acre 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. Sediment basins may not be appropriate for some common drainage locations and a written justification explaining the decision not to use sediment basins must be included in the Plan. Worksheets from the Manual must be completed and shown on the Plan or attached to the Plan for each temporary sediment basin designed for the project. All cross sections and details required per the Manual for Sd3's must be shown on the ES&PC detail section of the Plan. Completed worksheets from the Manual must be shown on the Plan for each retrofit and excavated inlet sediment trap. When the design professional chooses to use equivalent controls the calculations used to obtain the required 67 cubic yards per acre drained must be included on the Plan. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.

49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

BMPs for all phases of the Plan must be consistent with and no less stringent than the Manual and shown using uniform coding symbols from the Manual. The uniform coding symbols legend from the Manual must be included and may be shown on detail sheet or any of the ES&PC Plan sheets.

50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

The erosion and sediment control detail sheet must show a detailed drawing for each structural BMP shown on the Plan. All BMPs and details shown must, at a minimum, meet the guidelines given in the Manual. Note that a worksheet is provided in the Manual for most structural BMPs that must be included on the ES&PC Plan or detail sheet.

51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Must be shown on ES&PC Plan, on the ES&PC detail sheet or under ES&PC notes.

*This requirement of the Common Development 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. If applicable, the * checklist item would be N/A.

Effective January 1, 2015

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N	
<input type="checkbox"/>	<input type="checkbox"/>	a. During construction activities, 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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the NPDES Permit.
<input type="checkbox"/>	<input type="checkbox"/>	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 the NPDES Permits.
<input type="checkbox"/>	<input type="checkbox"/>	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).
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned is less. All calculations must be included on the plan.
<input type="checkbox"/>	<input type="checkbox"/>	j. Use "Dirt II" techniques available on the EPD website, 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.
<input type="checkbox"/>	<input type="checkbox"/>	k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within 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 storm water (including sheet flow) may be discharged.
- q. Conduct soil tests to identify and to implement site-specific fertilizer needs.
- r. Certified personnel for primary permittees 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); secondary permittees, Part IV.D.4.b.(3). (a) – (c); and tertiary permittees Part IV.D.4.c.(3).(a) – (c) .
- 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 aDesign Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)
- 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.

Effective January 1, 2015



Plan Review # _____

Name of District
SOIL & WATER CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL PLAN REVIEW

DATE ON PLANS

Local Issuing Authority

DATE RECEIVED BY SSWCC

TOTAL PROJECT ACRES

County

TOTAL DISTURBED ACRES

PLAN DESIGNER

cert.#

SOIL SERIES FOR PROJECT

GPS location of the construction exit or GPS locations of the Beginning and End of the Infrastructure project.
Give the Latitude and Longitude in decimal degrees.

NAME OF PROJECT

ADDRESS (INCLUDING COUNTY)

APPLICANT

ADDRESS

PHONE NUMBER

REPORT OF TECHNICAL REVIEW

_____ The erosion and sediment control plan for the above named project or activity meets the requirements of the erosion and sediment control ordinance or rules and regulations governing land-disturbing activities in _____ under the provisions of the Erosion and Sedimentation Act of _____

_____ The erosion and sediment control plan does not meet said requirements in the _____ through failure to include the following:

Technical review by: _____

GSWCC Level II cert.# _____

Organization: _____

Date: _____

The technical review as accomplished and reported above was done at the request of and is concurred in by the NAME OF DISTRICT Soil and Water Conservation District.

DISTRICT SUPERVISOR

DATE