

EXPANDED E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST

This checklist is intended for instructional purposes only

(For use by new technicians or to illustrate check items in standard technical review checklist)

Project: _____ NPDES/Project No. _____

Project Location: _____ Date: _____

Check-off: c = Complies, d = Deficient, na = Not applicable

Item Location: D = E&S Drawings, N = E&S Narrative, D&N = Drawings and Narrative

“The E&S Plan shall be prepared by a person trained and experienced in E&S control methods and techniques applicable to the size and scope of the project being designed”

Name of Plan Designer Provided _____ Business Address _____ Telephone No. _____ **Item Location**
D&N

“The existing topographic features of the project site and the immediate surrounding area”

Complies Deficient N/A

Legible mapping

Printing and numbering can be easily read

☐ ☐ ☐

D

Scale is large enough to clearly depict the topography

☐ ☐ ☐

Clutter has been avoided

☐ ☐ ☐

Match Lines provided for adjacent sheets

☐ ☐ ☐

Existing contours

Dashed lines easily visible and labeled at 10' maximum intervals

☐ ☐ ☐

D

Maximum contour interval is 2 feet

☐ ☐ ☐

Type of Cover

Vegetative Cover shown on the plan map(s)

☐ ☐ ☐

D

Existing improvements, i.e. roads, buildings, utilities, etc.

All public and private roadways on or adjacent to the site/labeled

☐ ☐ ☐

D

All existing buildings, including those to be razed, on or adjacent

☐ ☐ ☐

All existing waterlines, sewer lines, power lines, gas lines, etc.

☐ ☐ ☐

Sufficient surrounding area

Drainage areas and receiving waters clearly shown

☐ ☐ ☐

D

Complete mapping symbols legend and north arrow

All symbols used on the maps are clearly identified

☐ ☐ ☐

D

North arrow provided on each map

☐ ☐ ☐

Location map, i.e. USGS 7½ Min. Quad Map(s)

Site Outline on Legible photo copy of appropriate Quad Map(s)

☐ ☐ ☐

D or N

Quad Name(s) provided

☐ ☐ ☐

Existing Vegetation

☐ ☐ ☐

D

“The types, depth, slope, locations and limitations of the soils”

Types, slopes, and locations of soil types

Soil boundaries clearly shown on plan maps

☐ ☐ ☐

D or N

Legible photo copy of NRCS soil map with site outline provided

☐ ☐ ☐

Soil symbols identified

☐ ☐ ☐

Soil type use limitations and resolutions

Appropriate use limitations identified

☐ ☐ ☐

N

Resolutions to use limitations adequately described

☐ ☐ ☐

How resolutions are addressed in the E&S Plan described

☐ ☐ ☐

	Complies	Deficient	N/A	
Hydric soils			☐	N
All Potentially hydric soils identified	☐	☐	☐	
Wetland Determination provided	☐	☐	☐	
Wetland Delineation provided	☐	☐	☐	
“The characteristics of the earth disturbance activity, including the past, present, and proposed land uses and the proposed alteration to the project site”				
Proposed NPDES boundary and limits of construction			☐	D
Permit boundary is clearly shown on all plan maps	☐	☐	☐	
Limits of construction are clearly shown & within permit boundaries	☐	☐	☐	
Phase boundaries are clearly shown	☐	☐	☐	
Proposed contours/grades				D
All proposed grading is shown on Erosion Control Plan maps	☐	☐	☐	
Proposed contours are solid lines, darker than existing contours	☐	☐	☐	
Proposed contours tie into existing contours	☐	☐	☐	
Proposed waterways and stormwater management facilities				D
All proposed channels, swales, and pipes clearly shown & labeled	☐	☐	☐	
Transition points for all waterways clearly shown	☐	☐	☐	
All PCSM BMP locations clearly shown	☐	☐	☐	
All inlets identified/labeled	☐	☐	☐	
All proposed outfalls clearly shown and labeled	☐	☐	☐	
Proposed improvements, i.e., roads, buildings, utilities, etc.				D
All proposed roadways, including temporary access, clearly shown	☐	☐	☐	
Proposed building footprints, if known, are clearly shown	☐	☐	☐	
Lot boundaries and lot numbers are identified	☐	☐	☐	
Proposed utility mainlines, including sanitary, clearly shown	☐	☐	☐	
Station numbers provided	☐	☐	☐	
Proposed stockpile locations shown	☐	☐	☐	
Application has been made for required 105 permits	☐	☐	☐	
Past — at least 50 years, if known — present and proposed land uses				N
Brownfields identified, including reclaimed brownfields, abandoned landfills, old farm dumps, spill locations, underground fuel storage tanks and contaminated soil	☐	☐	☐	
Previously mined areas identified	☐	☐	☐	
Previous fruit orchards identified	☐	☐	☐	
Existing conditions adequately described	☐	☐	☐	
Proposed land use adequately described	☐	☐	☐	
“The volume and rate of runoff from the project area and its upstream watershed area”				
Maximum drainage areas during construction				D or N
Drainage areas for all proposed basins, traps and channels shown correctly on plan maps	☐	☐	☐	
Photo copy of work map showing drainage areas provided	☐	☐	☐	
Drainage areas used are maximums during construction	☐	☐	☐	
Offsite drainage area(s) on USGS quadrangle map				N
Drainage areas too large for the plan maps are shown on the Location map or other photo copy of USGS Quad map	☐	☐	☐	
Discharge analysis provided (non-surface water discharges)	☐	☐	☐	N
Flowage easements addressed	☐	☐	☐	

“The location of all surface waters of this Commonwealth which may receive runoff within or from the project site and their classification under Chapter 93”

	Complies	Deficient	N/A	
Existing streams, wetlands, floodway, etc.			☐	D
All existing stream channels — defined bed and bank — within or adjacent to the site are shown on the plan map(s) & labeled	☐	☐	☐	
All existing wetlands and springs are shown on the plan map(s)	☐	☐	☐	
Wetlands shown are consistent with delineation report	☐	☐	☐	
For streams with FEMA study, 100-year floodways are shown	☐	☐	☐	
Receiving watercourses				D
All receiving storm sewer systems are clearly shown and labeled	☐	☐	☐	
Receiving waters beyond plan map coverage shown on USGS map	☐	☐	☐	
Downstream analysis provided for proposed discharges where needed	☐	☐	☐	N
Chapter 93 classification of streams or other water bodies				N
All special protection waters are clearly identified	☐	☐	☐	
All existing uses are clearly identified	☐	☐	☐	

“A narrative description of the location and type of perimeter and onsite BMPs used before, during and after the earth disturbance activity”

_____ Description provided in the narrative **N**

“A sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities that ensure the proper functioning of all BMPs”

Complete and site specific sequence of BMP installation				D
Access to site and perimeter BMPs is adequately addressed	☐	☐	☐	
Suitable BMPs are in place for clearing and grubbing and demolition operations	☐	☐	☐	
Sequence addresses installation of all proposed E&S BMPs	☐	☐	☐	
Proper handling of base flow during work within stream channels	☐	☐	☐	
Runoff from access roads and utility lines properly addressed	☐	☐	☐	
BMPs outletting to proposed structures are adequately addressed	☐	☐	☐	
Suitable BMPs are in place for all stages of construction	☐	☐	☐	
Suitable BMPs are in place for PCSM BMP installation	☐	☐	☐	
Appropriate instructions provided to avoid compaction of infiltration areas	☐	☐	☐	
Information is detailed and site specific	☐	☐	☐	
No maintenance items	☐	☐	☐	
Activities planned to limit exposed areas				D
Special value areas are kept outside the limits of construction	☐	☐	☐	
Initial clearing is limited to areas of perimeter BMPs	☐	☐	☐	
Sequence addresses field-marking the limits of disturbance	☐	☐	☐	
Cuts and fills are stabilized in regular vertical increments	☐	☐	☐	
Limits are placed on utility trenching	☐	☐	☐	
Disturbed subareas are stabilized upon reaching final grade	☐	☐	☐	
Blanketing is specified for disturbances in critical areas	☐	☐	☐	
Immediate stabilization provided in special protection watersheds	☐	☐	☐	

	Complies	Deficient	N/A	
Removal of temporary BMPs				D
Instructions provided for topsoil replacement, addition of soil amendments, seeding and mulching	☐	☐	☐	
Conditions of stabilization are adequately defined	☐	☐	☐	
Specific instructions given for removal/conversion of basins & traps	☐	☐	☐	
Removal of all temporary BMPs is addressed	☐	☐	☐	
Instructions provided for proper installation of PCSM BMPs	☐	☐	☐	
“Supporting calculations and measurements” and “Plan Drawings”				D
General				
Plan Drawings meet standards in Appendix D	☐	☐	☐	
Standard Notes added to plan drawings	☐	☐	☐	
Appropriate Optional Notes added to plan drawings	☐	☐	☐	
Grading Standards added to plan drawings	☐	☐	☐	
Site Access (Chapter 3)				D
Rock Construction Entrances provided where needed	☐	☐	☐	
Standard Construction Detail # 3-1 and/or 3-2 provided	☐	☐	☐	
Temporary and Permanent Access Roads shown	☐	☐	☐	
Standard Construction Detail # 3-3 and/or 3-4 provided	☐	☐	☐	
Broad-based Dips used on active haul roads	☐	☐	☐	
Standard Construction Detail # 3-6 and/or 3-7 provided	☐	☐	☐	
Spacing complies with Table 3.2	☐	☐	☐	
Open-top Culverts used on active haul roads	☐	☐	☐	
Standard Construction Detail #3-8 provided	☐	☐	☐	
Water Deflectors used on haul roads	☐	☐	☐	
Standard Construction Detail #3-9 provided	☐	☐	☐	
Ditch Relief Culverts used on haul roads	☐	☐	☐	
Standard Construction Detail #3-10 provided	☐	☐	☐	
Spacing Complies with Table 3.3	☐	☐	☐	
Turnouts provided where needed on haul roads	☐	☐	☐	
Compost Filter Sock Trap provided where needed	☐	☐	☐	
Temporary Stream Crossings provided where needed	☐	☐	☐	
Standard Construction Detail # 3-12-14 provided	☐	☐	☐	
Figure 3.4 provided for temporary bridges	☐	☐	☐	
Temporary Wetland Crossings provided where needed	☐	☐	☐	
Figure 3.5 3.6, or 3.7 provided	☐	☐	☐	
Figure 3.8 provided where Causeway is proposed	☐	☐	☐	
Temporary Bypass System provided for in-stream work	☐	☐	☐	
Figure 3.9, 3.10, 3.11, or 3.12 provided	☐	☐	☐	
Standard Construction Detail #3-15 or Figure 3.13 provided for Cofferdams	☐	☐	☐	
Silt Curtain details comply with Figure 3.14, 3.15, 3.16, or 3.17	☐	☐	☐	
Pumped Water Filter Bags provided where needed	☐	☐	☐	
Standard Construction Detail # 3-16 provided	☐	☐	☐	
Standard Construction Detail #3-17 provided for sump pits	☐	☐	☐	
Sediment Barriers (Chapter 4)				
All sediment barriers are shown on existing level contour	☐	☐	☐	D
Barrier ends extended upslope or tied into constructed berms	☐	☐	☐	D
Sediment barriers avoid concentrated flows	☐	☐	☐	D
Slope lengths comply with Figure 4.2, Figure 4.3 or Table 4.4	☐	☐	☐	D
Typical details are provided for each type of barrier proposed	☐	☐	☐	D

	Complies	Deficient	N/A	
Details comply with standard details in Chapter 4, including notes	☐	☐	☐	D
Standard Construction Detail #4-3 and/or 4-4, or 4-5 provided for Weighted Sediment Filter Tubes	☐	☐	☐	D
Standard Construction Detail # 4-6 provided	☐	☐	☐	D
Standard Construction Det. #4-11 provided for Sediment Filter Log	☐	☐	☐	D
Standard Construction Det. # 4-12 provided for Wood Chip Berm	☐	☐	☐	D
Vegetative Filter Strip complies with Table 4.5	☐	☐	☐	D
Standard E&S Worksheet #1 completed for Compost Filter Socks	☐	☐	☐	N
Standard E&S Worksheet #2 completed for Compost Filter Berms	☐	☐	☐	N
Standard E&S Worksheet #3 completed for Standard Silt Fence	☐	☐	☐	N
Standard E&S Worksheet #4 completed for Reinforced Silt Fence	☐	☐	☐	N
Standard E&S Worksheet #5 completed for Alt. Reinforced SF	☐	☐	☐	N
Standard E&S Worksheet #6 completed for Super Silt Fence	☐	☐	☐	N
Standard E&S Worksheet #7 completed for Straw Bale Barriers	☐	☐	☐	N
Standard E&S Worksheet #8 completed for Rock Filters	☐	☐	☐	N
Note: Plan preparer may provide the information on the standard worksheets in another format as long as it is present in the narrative and identified as such.				

Channels (Chapter 6)

All proposed channels shown and labeled on plan map(s)	☐	☐	☐	D
Channel locations are accessible	☐	☐	☐	D
Conflicts with utility lines, roadways, buildings, cuts & fills avoided	☐	☐	☐	D
Sharp turns and flow obstructions avoided	☐	☐	☐	D
Steep slope problems avoided	☐	☐	☐	D
Temporary crossings provided where needed	☐	☐	☐	D
Diversions located upslope of disturbed areas	☐	☐	☐	D
Diversions and outlet channels discharge to waterways or adequately sized storm sewers	☐	☐	☐	D
Collectors located below disturbed areas	☐	☐	☐	D
Collectors discharge to upslope sides of basins or traps	☐	☐	☐	D
Outlet channels protected from adjacent disturbed areas	☐	☐	☐	D
Positive grade provided throughout length of channel	☐	☐	☐	D
Channel bed slopes consistent with those used in calculations	☐	☐	☐	D
Drainage areas are maximums for life of each channel	☐	☐	☐	D
Typical detail provided for each channel shape and lining	☐	☐	☐	D
Manufacturer's installation & stapling details provided	☐	☐	☐	D
All critical dimensions specified	☐	☐	☐	D
Dimensions and linings consistent with those in calculations	☐	☐	☐	D
Temporary liners provided for vegetated channels	☐	☐	☐	D
Underlayment specified for riprap channels	☐	☐	☐	D
Transition zones identified (change in lining)	☐	☐	☐	D
No rock filters or check dams during earthmoving operations	☐	☐	☐	D
Peak flow calculations provided for all channels	☐	☐	☐	N
Standard E&S Worksheet #s 9 and 10 used for Rational Equation	☐	☐	☐	N
Runoff coefficients consistent with Table 5.2	☐	☐	☐	N
Weighted coefficients used for mixed cover drainage areas	☐	☐	☐	N
2-Yr/1-Hr storm used for temporary channels	☐	☐	☐	N
5-Yr/1-Hr storm used for temps in special protection	☐	☐	☐	N
10-Yr/1-Hr storm used for permanent channels	☐	☐	☐	N
Overland flow $\leq$ 150 feet	☐	☐	☐	N
Shallow concentrated flow consistent with Figure 5.1	☐	☐	☐	N

	Complies	Deficient	N/A	
Standard E&S Worksheet # 11 completed properly	☐	☐	☐	N
All channels addressed, including outlet channels for basins and traps	☐	☐	☐	N
Multipliers (1.6, 2.25, 2.75) used properly	☐	☐	☐	N
Significant changes in channel bed slope addressed	☐	☐	☐	N
Manning's "n" adjusted for flow conditions	☐	☐	☐	N
$Q \geq Q_r$	☐	☐	☐	N
$D \geq d + \text{minimum required freeboard}$	☐	☐	☐	N
Flow width:flow depth ratios $\leq 12 w:1 d$	☐	☐	☐	N
$V \leq V_a$	☐	☐	☐	N
$\tau_d \leq \tau_a$	☐	☐	☐	N
2 sets of calculations provided for vegetated channels, one for temporary liner and one for vegetated condition	☐	☐	☐	N

Note: Plan preparer may provide the information on the standard worksheets in another format as long as it is present in the narrative and identified as such.

Sediment Basins (Chapter 7)

All proposed sediment basins shown and labeled on plan map(s)	☐	☐	☐	D
Basin locations are accessible	☐	☐	☐	D
Conflicts with utility lines, roadways, buildings, cuts & fills avoided	☐	☐	☐	D
Steep slope problems avoided	☐	☐	☐	D
Basins located below disturbed areas	☐	☐	☐	D
Stream channels and wetlands avoided	☐	☐	☐	D
Drainage areas are maximums for life of each basin	☐	☐	☐	D
Construction Detail provided for each basin	☐	☐	☐	D
Interior and exterior contours provided on each detail	☐	☐	☐	D
Principal and emergency spillway locations shown	☐	☐	☐	D
All proposed baffles, silt curtains, and forebays shown	☐	☐	☐	D
Sediment clean-out stake location shown	☐	☐	☐	D
Bottom elevation above seasonal high water table, adjacent wetlands, or perennial stream	☐	☐	☐	D
Required flow lengths, turbidity barrier or forebay provided	☐	☐	☐	D
Typical cross-section provided for each type of principal spillway	☐	☐	☐	D
All critical dimensions and elevations shown	☐	☐	☐	D
Sediment clean-out elevation ≥ 1 ft above basin bottom	☐	☐	☐	D
18" permanent pool provided where needed	☐	☐	☐	D
Dimensions and elevations consistent with those in calcs	☐	☐	☐	D
$Z1 + Z2 \geq 5$	☐	☐	☐	D
$Z1$ and $Z2 \geq 3$ for permanent basin	☐	☐	☐	D
Embankment top width ≥ 8 feet	☐	☐	☐	D
Key trench and anti-seep collars shown	☐	☐	☐	D
Impervious core shown	☐	☐	☐	D
Typical Detail provided for each type of principal spillway	☐	☐	☐	D
All critical dimensions and elevations shown	☐	☐	☐	D
Dimensions and elevations consistent with those in calcs	☐	☐	☐	D
Standard Construction Detail # 7-6 provided	☐	☐	☐	D
Typical provided for anti-seep collars	☐	☐	☐	D
Typical provided for outlet barrel in concrete bed	☐	☐	☐	D
Typical filter diaphragm detail provided where needed	☐	☐	☐	D
Standard Construction Detail #7-12 provided where needed	☐	☐	☐	D
Standard Construction Detail #7-13 provided where needed	☐	☐	☐	D

	Complies	Deficient	N/A	
Skimmer Details provided	☐	☐	☐	D
Standard Construction Detail #7-1 provided	☐	☐	☐	D
Standard Construction Detail #7-2, 7-3 and 7-4 provided	☐	☐	☐	D
Orifice diameter consistent with Figure 7.2	☐	☐	☐	D
Emergency spillway detail(s) provided	☐	☐	☐	D
Protective liner extends beyond toe of embankment	☐	☐	☐	D
Specs provided for embankment materials and compaction	☐	☐	☐	D
Baffle, silt curtain, forebay detail provided	☐	☐	☐	D
Cleanout stake detail provided	☐	☐	☐	D
Basin dewatering device detail provided	☐	☐	☐	D
Basins discharge to surface waters				
or approved alternative	☐	☐	☐	D
Standard E&S Worksheet #12 properly completed	☐	☐	☐	N
Total storage volume $\geq$ Total required storage volume	☐	☐	☐	N
Justification exists for all storage volume reductions	☐	☐	☐	N
Proper dewatering time provided	☐	☐	☐	N
Proper total basin discharge capacity provided	☐	☐	☐	N
Principal spillway discharge capacity $\geq$ 10 Yr./1 Hr storm	☐	☐	☐	N
If not discharging to a surface water, calcs provided to show accelerated erosion not a problem	☐	☐	☐	N
Standard E&S Worksheet #13 properly completed	☐	☐	☐	N
Elevation 4 is at least 0.5 ft above Elevation 3	☐	☐	☐	N
Elevation 6 is at least 2.0 ft above Elevation 5	☐	☐	☐	N
Elevation 6 is at least 1.0 ft above Elevation 5 with				
Discharge capacity for 100-year storm (on Worksheet #12)	☐	☐	☐	N
Required flow length:width ratio at Elevation 3 provided	☐	☐	☐	N
Emergency spillway provided	☐	☐	☐	N
Standard E&S Worksheet #14 properly completed	☐	☐	☐	N
Storage volume at water surface elevation equal to top of settling volume is $\geq$ "Total Storage Volume Provided" on E&S Worksheet #12	☐	☐	☐	N
Storage volume at water surface elevation equal to top of sediment storage volume $\geq$ "Required Sediment Storage Volume" on E&S Worksheet #12	☐	☐	☐	N
Standard E&S Worksheet #15 properly completed	☐	☐	☐	N
Top elevation = Top of dewatering zone	☐	☐	☐	N
Bottom elevation = Top of sediment storage zone	☐	☐	☐	N
Diagonal symmetry evident	☐	☐	☐	N
Standard E&S Worksheet #16 properly completed	☐	☐	☐	N
Figure 7.2 provided with dewatering volume and skimmer orifice size plotted	☐	☐	☐	N
Dewatering time measured from top of dewatering zone to top of sediment storage zone	☐	☐	☐	N
Standard E&S Worksheet #17 properly completed	☐	☐	☐	N
Orifice flow is calculated for flow into top of riser	☐	☐	☐	N
Principal spillway capacity is lesser of riser and barrel	☐	☐	☐	N
Total discharge capacity $\geq$ Required discharge capacity	☐	☐	☐	N
Standard E&S Worksheet #18 properly completed	☐	☐	☐	N
Lf is 1.1 X Ls for temp basin & 1.15 X Ls for perm. basin	☐	☐	☐	N
Downstream analysis OK	☐	☐	☐	N
Note: Plan preparer may provide the information on the standard worksheets in another format as long as it is present in the narrative and identified as such.				

Sediment Traps (Chapter 8)

	Complies	Deficient	N/A	
All proposed traps shown on plan map(s)	☐	☐	☐	D
Spillway locations shown	☐	☐	☐	D
Trap locations are accessible	☐	☐	☐	D
Conflicts with utility lines, roadways, buildings, cuts & fills avoided	☐	☐	☐	D
Steep slope problems avoided	☐	☐	☐	D
Traps located below disturbed areas	☐	☐	☐	D
Stream channels and wetlands avoided	☐	☐	☐	D
Drainage areas are maximums for life of each trap	☐	☐	☐	D
Construction Detail provided for each irregular-shaped trap	☐	☐	☐	D
Interior and exterior contours provided for such traps	☐	☐	☐	D
Bottom elevation above seasonal high water table, adjacent wetlands, or perennial stream	☐	☐	☐	D
Required flow lengths, turbidity barrier or forebay provided	☐	☐	☐	D
Compost sock trap details provided and comply with SCD #3-11	☐	☐	☐	D
Typical cross-section provided for each type of trap	☐	☐	☐	D
All critical dimensions and elevations shown	☐	☐	☐	D
Dimensions and elevations consistent with those in calcs	☐	☐	☐	D
Sediment clean-out elevation ≥ 1 ft above trap bottom	☐	☐	☐	D
Typical Detail provided for each type of spillway	☐	☐	☐	D
All critical dimensions and elevations shown	☐	☐	☐	D
Dimensions and elevations consistent with those in calcs	☐	☐	☐	D
Skimmer details provided where needed	☐	☐	☐	D
Standard Construction Detail # 7-1 provided	☐	☐	☐	D
Standard Construction Details #7-2, 7-3 and 7-4 provided	☐	☐	☐	D
Orifice diameter consistent with Figure 7.2	☐	☐	☐	D
Specs provided for embankment materials and compaction	☐	☐	☐	D
Baffle, silt curtain, forebay detail provided	☐	☐	☐	D
Cleanout stake detail provided	☐	☐	☐	D
Trap Outlet Basin Detail provided	☐	☐	☐	D
Trap Dewatering Device Detail provided	☐	☐	☐	D
Traps Discharge to surface waters or approved alternative	☐	☐	☐	D
Standard E&S Worksheet #17 properly completed	☐	☐	☐	N
Tributary drainage areas do not exceed 5.0 acres	☐	☐	☐	N
Required storage capacity provided	☐	☐	☐	N
2:1 Flow length to width ratio provided at elevation h	☐	☐	☐	N
Embankment spillway width is 2 X # AC or 2 X h	☐	☐	☐	N
Barrel-riser spillway provides 1.5 CFS/AC discharge capacity	☐	☐	☐	N
Correct outlet basin dimensions specified	☐	☐	☐	N
Standard E&S Worksheet #13 provided for irregular shaped traps	☐	☐	☐	N
Downstream analysis OK	☐	☐	☐	N

Note: Plan preparer may provide the information on the standard worksheets in another format as long as it is present in the narrative and identified as such.

Outlet Protection (Chapter 9)

All temporary and permanent outfalls are shown and labeled	☐	☐	☐	D
Locations are accessible to construction equipment	☐	☐	☐	D
Outlet protection provided for all temporary & permanent outfalls	☐	☐	☐	D
Sufficient space exists to construct outlet protection	☐	☐	☐	D
Discharges are properly oriented	☐	☐	☐	D
Outlet areas properly protected from adjacent disturbed areas	☐	☐	☐	D

	Complies	Deficient	N/A	
Typical Details are provided for all types of outlet protection	☐	☐	☐	D
All critical dimensions and elevations are provided	☐	☐	☐	D
Dimensions and elevations are consistent with calcs	☐	☐	☐	D
Standard E&S Worksheet #18 completed for all riprap aprons	☐	☐	☐	N
Calculations provided for adjusted discharge velocity	☐	☐	☐	N
Apron dimensions conform to Figure 9.3 or 9.4	☐	☐	☐	N
Flow transition mat lengths conform to Figure 9.6	☐	☐	☐	N
Stilling Basin Dimensions conform to Standard Construction Detail 9-4 and Figure 9.7	☐	☐	☐	N
Stilling Well Dimensions conform to Figures 9.8, 9.9, and 9.10	☐	☐	☐	N
Supporting calculations are provided for all other types of outlet protection	☐	☐	☐	N
Downstream stability analysis provided where needed	☐	☐	☐	N

Note: Plan preparer may provide the information on the standard worksheets in another format as long as it is present in the narrative and identified as such.

Other BMPs

Waterbars specified on utility line ROWs and abandoned roads	☐	☐	☐	D
Standard Construction Detail # 3-5 provided	☐	☐	☐	D
Spacing complies with Table 3.1	☐	☐	☐	D
Storm sewer inlet protection provided where needed	☐	☐	☐	D
Standard Construction Detail # 4-15 and 4-16 provided for inlet filter bags	☐	☐	☐	D
Standard Construction Detail # 4-17 and 4-18 provided for stone and concrete block inlet protection	☐	☐	☐	D
Standard Construction Detail # 4-19 and 4-20 provided for stone inlet protection	☐	☐	☐	D
Standard Construction Detail # 4-21 provided for alternate type M stone inlet protection	☐	☐	☐	D
Standard Construction Detail # 4-22 provided for type C inlet not at grade	☐	☐	☐	D
Standard Construction Detail # 4-23 provided for type M inlet not at grade	☐	☐	☐	D
Erosion Control Blanketing Locations shown on map(s)	☐	☐	☐	D
Complete installation detail(s) provided	☐	☐	☐	D
Typicals provided for on-lot BMPs	☐	☐	☐	D
Other BMPs (specify) _____				
Location(s) shown on plan map(s) & labeled	☐	☐	☐	D
Typical Detail provided with all pertinent dimensions and elevations	☐	☐	☐	D
Design calculations	☐	☐	☐	N

Temporary Stabilization

Seed type	☐	☐	☐	D
Seed rate of application	☐	☐	☐	
Agricultural lime specified at 1 or 2 T/acre	☐	☐	☐	
Fertilizer type and application rate specified	☐	☐	☐	
Mulch type and application rate specified	☐	☐	☐	
Mulch anchoring type and application rate specified	☐	☐	☐	

	Complies	Deficient	N/A	D
Permanent Stabilization				
Topsoil replacement specs provided	☐	☐	☐	
Standard E&S Worksheet # 21 completed on plan drawings	☐	☐	☐	
Seed types suitable for soil and site conditions specified	☐	☐	☐	
Seed rate of application appropriate	☐	☐	☐	
Agricultural lime specified at 6 T/acre or as per soil test	☐	☐	☐	
10-20-20 fertilizer specified at ½ ton/acre or as per soil test	☐	☐	☐	
Mulch type and application rate specified	☐	☐	☐	
Mulch anchoring type and application rate specified	☐	☐	☐	
Blanketing shown in critical areas, steep slopes, & areas of concentrated flow	☐	☐	☐	
Stabilization of non-graded, but unstabilized, areas, including agricultural areas, within the project site boundaries addressed	☐	☐	☐	

“A maintenance program, which provides for the operation and maintenance of BMPs and the inspection of BMPs on a weekly basis and after each stormwater event, including the repair or replacement of BMPs to ensure effective and efficient operation. The program must provide for completion of a written report documenting each inspection and all BMP repair, or replacement and maintenance activities”

Maintenance Information				D
All E&S BMPs inspected weekly and after each runoff event	☐	☐	☐	
Plan specifies maintenance of inspection & maintenance logs	☐	☐	☐	
Maximum sediment storage elevation/level in BMPs specified	☐	☐	☐	
Time frames for completing specific maintenance and repairs for each type of BMP proposed.	☐	☐	☐	
Site stabilization repair parameters and directions	☐	☐	☐	
Disposal directions for sediment removed from BMPs	☐	☐	☐	

“Procedures that ensure that the proper measures for the recycling or disposal of materials associated with or from the project site will be undertaken in accordance with this title”

Offsite Waste and Borrow Areas (see Standard notes 10 & 11 in Appendix C)				D
Project construction wastes are identified	☐	☐	☐	
Directions for recycling/disposal of construction wastes	☐	☐	☐	
Soil/rock disposal and borrow areas provided with BMPs	☐	☐	☐	
Note on plans regarding clean fill requirements	☐	☐	☐	

“Identification of naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

Potential for geologic or soil conditions to cause pollution during construction is addressed	☐	☐	☐	N
Soil sample locations shown on plan maps	☐	☐	☐	D
Instructions for proper handling and/or disposal of all materials that could cause pollution are provided	☐	☐	☐	D
Typical details are provided for proper handling and/or disposal of all such materials	☐	☐	☐	D
The locations of all such materials are clearly shown on the plan maps	☐	☐	☐	D

“Identification of the potential thermal impacts to surface waters of this Commonwealth from the earth disturbance activity including BMPs to avoid, minimize or mitigate potential pollution from thermal impacts”

	Complies	Deficient	N/A	
An analysis of how thermal impacts associated with the project will be avoided is provided	☐	☐	☐	N
If thermal impacts cannot be avoided, impacts are minimized	☐	☐	☐	D&N
BMPs provided to mitigate thermal impacts	☐	☐	☐	D&N

“The E&S Plan shall be planned, designed, and implemented to be consistent with the PCSM Plan under § 102.8 (relating to PCSM requirements). Unless otherwise approved by the Department, the E&S Plan must be separate from the PCSM Plan and labeled “E&S” or “Erosion and Sediment Control Plan” and be the final plan for construction”

Overall design of project supports managing of stormwater for erosion control during earth disturbance activities	☐	☐	☐	D&N
Erosion control BMPs can be integrated into structural and Non-structural PCSM practices and approaches	☐	☐	☐	D&N

“Identification of existing and proposed riparian forest buffers”

Existing and proposed riparian forest buffers are shown on the plan drawings	☐	☐	☐	D
--	--------------------------	--------------------------	--------------------------	---