



## Hydrologic Soil Group

Hydrologic Soil Group - Summary by Map Unit - Bedford County, Virginia (VA23)			
Map unit symbol	Map unit name	Rating	Percent of AOI
6C	Bedford (am. 7 to 15) percent slopes	C	23.8%
20D	Bedford (am. 15 to 20) percent slopes	B	70.2%
Totals for Area of Interest			100.0%

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

precipitation from long-duration storms

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water and soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (AD, BD, or CD), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

# EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A WALK BUILDING WITH ASSOCIATED PARKING AND UTILITY IMPROVEMENTS A PORTION OF THE PARKING AREA FOR THE EXISTING LENS GAS PROPERTY WILL BE RECONFIGURED AS PART OF THIS PROJECT. THE SITES LOCATED WITHIN BOLDFOURTH COUNTY, THE SITE GENERALLY SLOPES FROM NORTH TO SOUTH. THE TOTAL DISTURBED AREA IS APPROXIMATELY 4.2 ACRES.

EXISTING SITE CONDITIONS: THE SITE IS CURRENTLY A WACOT LOT AND IS COMPRISED MAINLY OF MANAGED TURF WITH SOME EXISTING IMPROVEMENTS FOR THE LENS GAS SITE AND FOR THE EXISTING ROADWAYS. THERE IS A LARGE STORM SEWER LINE AND UNDERGROUND POWER LINE RUNNING ALONG THE NORTHERN SIDE OF THE SITE. THERE ARE ALSO OVERHEAD UTILITIES ON THE PROPERTY THAT WILL NEED TO BE REMOVED OR RELOCATED FOR THIS PROJECT.

OFF-SITE AREAS. AT THIS TIME, THERE ARE NO FILL OR BORROW AREAS PLANNED WITH THIS PROJECT. THE CONTRACTOR SHALL NOTIFY BOULDER COUNTY OF ANY FILL OR BORROW AREAS PRIOR TO TRANSPORTING ANY MATERIAL ON OR OFF-SITE. EROSION CONTROL MEASURES MAY BE REQUIRED FOR OFF-SITE AREAS ASSOCIATED WITH THIS PROJECT.

**SOILS:** THE FOLLOWING SOILS INFORMATION IS REEFERENCED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE'S WEB SOIL SURVEY. ACCORDING TO THIS SOIL SURVEY, THE SOILS PRESENT ON-SITE ARE 6C – BOTETOURT LOAM, 7 TO 15 PERCENT SLOPES (HSG-C), AND 200 – FREDERICK LOAM, 15 TO 30 PERCENT SLOPES (HSG-B).

THE PROPERTY. THE G.C. SHALL PAY SPECIAL ATTENTION TO THESE AREAS AND ENSURE THAT STEEP SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE AFTER REACHING FINAL GRADE.

EROSION AND SEDIMENT CONTROL MEASURE, NARRATIVE, UNLESS OTHERWISE NOTICED, ALL VEGETATE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (VESC). THE MINIMUM STANDARDS OF THE VESC SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

SILT FENCE--STD. 3.05.....A TEMPORARY BARRIER CONSTRUCTED ALONG THE PERIMETER OF THE DISTURBED AREA AS REQUIRED TO INTERCEPT AND DETAIN SEDIMENT.

TEMPORARY DIVERSION DIKE-STD. 3.09.....A TEMPORARY RIDGE OF COMPACTED SOIL CONSTRUCTED AT THE TOP OR BAS. DISTURBED AREA TO DIVERT SEDIMENT-LADEN RUNOFF TO A SEDIMENT-TRAPPING FACILITY.

OUTLET PROTECTION—STD. 3.18.....STRUCTURALLY LINED APRONS OR OTHER ACCEPTABLE ENERGY DISSIPATING DEVICES PLACED AT THE OUTLETS OF PIPES OR PAVED CHANNEL SECTIONS TO PREVENT SCOUR AT STORMWATER OUTLETS.

VEGETATIVE -

TEMPORARY SEEDING—3, 31 ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 14 DAYS TO 1-YEAR BY SEEDING WITH AN APPROPRIATE RAPIDLY GROWING SEED MIXTURE.

PERMANENT SEEDING—STD, 3.32.... ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.

MULCHING-STD. 3.35.....MULCH SHALL BE APPLIED TO ALL TEMPORARY AND VEGETATION AND TO PROTECT THE SOIL SURFACE FROM RAINDROP IMPACTS

MANAGEMENT STRATEGIES:

a) CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE

C) THE LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN

E) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR MAY ITEMS BE REMOVED FOLLOWING THE STABILIZATION OF THE CONTRIBUTING AREAS.

ALL ARMS STORED  
PERMANENTLY STABILIZ  
WITHIN THIS PLAN SET.

STORMWATER RUNOFF AND ADEQUATE CHANNEL NARRATIVE. STORMWATER QUANTITY AND QUALITY CALCULATIONS HAVE BEEN PROVIDED FOR THIS PROPERTY PREVIOUSLY UNDER THE "TALENT TOWN CENTER PHASE I INFRASTRUCTURE DESIGN SUBMITTAL," BY ENGINEERING CONCEPTS, INC. DATED DECEMBER 8, 2006 AND REVISED AUGUST 1, 2007. STORMWATER RETENTION FACILITIES ARE PROVIDED ON-SITE TO ADDRESS WATER QUALITY REQUIREMENTS. CALCULATIONS WERE PROVIDED TO SHOW THAT POST-DEVELOPMENT POLLUTANT LOAD IS LESS THAN PRE-DEVELOPMENT POLLUTANT LOAD AND NO STORMWATER QUALITY MEASURES ARE REQUIRED.

MAINTENANCE/INSPECT

FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL, MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A STORM EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION WHERE AREAS HAVE BEEN FINALLY (OR TEMPORARILY) STABILIZED OR RAINFALL IS UNLIKELY. DUE TO THE EXTREMELY SHORT TIME FRAME, INSPECTIONS SHOULD BE CONDUCTED AT LEAST ONCE EVERY MONTH.

A. INSPECTED DISTURBED AREAS AND AREAS OF MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR, SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT EXISTING CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF ENTRY INTO THE STORM DRAINAGE SYSTEM FOR UNDESIRABLE SEDIMENTATION. CORRECT SITE CONDITIONS AS REQUIRED TO PREVENT FURTHER SEDIMENTATION.

B. IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD MEMORANDUMS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES ARE REQUIRED FOR IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS ANTICIPATED, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.

C. A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR, INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERTAINING TO THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS, AND ACTIONS TAKEN SHALL BE MADE AND SUBMITTED TO THE DISTRICT ENGINEER AND THE DISTRICT INSPECTOR AS PART OF THE MONTHLY REPORTING REQUIREMENTS.

D. SEDIMENTATION FROM THE SITE, LOCATIONS IN NEED OF REPAIR, LOCATIONS OF FAILED OR INADEQUATE CONTROLS, AND CONDITIONS WHERE ADDITIONAL CONTROLS ARE NEEDED.

MINIMUM STANDARDS							CRITERIA, TECHNIQUE OR METHOD					PRACTICES PROVIDED				
No.	15	16	17	18	19	20	21									
1	PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL POST CONSTRUCTION EROSION CONTROL MEASURES ARE INSTALLED. TEMPORARY EROSION CONTROL MEASURES SHALL BE APPLIED TO DENUDED AREAS THAT MAY BE AT FINAL GRADE BUT WILL REMAIN DENUDED (UNSTABILIZED) FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DENUDED FOR MORE THAN ONE (1) YEAR.												(TS) (PS) (MU)			
2	DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE EROSION PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INDIVIDUALLY TRANSPORTED FROM THE PROJECT SITE.												(SF) (TS)	FOR PROTECTED STOCKPILES		
3	A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS FORECAST THAT, IN THE OPINION OF THE LOCAL PROGRAM ADMINISTRATOR OR DESIGNATED AGENT, IS SUFFICIENT, MAINTAIN ENOUGH TO SURVIVE AND WILL IMPROVE EROSION.												(TS) (PS) (MU)	FOR ALL DENUDED AREAS		
4	SEDIMENT BASINS AND TRAPS, PERMEABLE DICES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSTREAM LAND DISTURBANCE TAKES PLACE.												(SF) (P) (ST) (DD) (CD)	FOR ALL DRAINAGE DIVIDES		
5	STABILIZATION METHODS SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DICES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.												(TS) (PS) (MU)	FOR ALL EARTHEN STRUCTURES		
6	SEDIMENT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.												(TS) (PS) (MU)			
7	CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE EXPOSING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZATION MEASURES UNTIL THE PROBLEM IS CORRECTED.												(TS) (PS) (MU)			
8	CONCENTRATED RUNOFF SHALL NOT ALLOW RUNOFF CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY EROSION CONTROL MEASURE OR SOLE PAVING IN A STRUCTURE.														NO CONCENTRATED RUNOFF SHALL BE CONCENTRATED FROM THE STEEP SLOPES ON-SITE. IF THE RUNOFF IS CONCENTRATED FROM THE STEEP SLOPES ON-SITE, THE RUNOFF SHALL BE CONFINED TO A CHANNEL OR TRAP, AND THE CHANNEL OR TRAP SHALL BE DESIGNED TO PREVENT EROSION. ON-SITE EROSION SHALL BE PREVENTED BY THE DESIGN OF THE TRAP OR CHANNEL.	
9	WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.												(P)			
10	ALL STORM SEWER SYSTEMS THAT ARE MADE, PERMANENT, DURING CONSTRUCTION SHALL BE PROTECTED AS THEY ARE CONSTRUCTED. THE PROTECTION SHALL BE MAINTAINED UNTIL THE SYSTEM IS FULLY OPERATIONAL AND OTHERWISE TREATED TO REMOVE SEDIMENT.															
11	BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL.												(OP)			
12	WHEN WORK IN A LIVE WATERCOURSE IS REQUIRED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EROSION CONTROL, SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COTTERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF IT IS ARMORED BY NONERODIBLE COVER MATERIALS.													NOT APPLICABLE NO CHECKS ON-SITE		
13	WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX (6) MONTH PERIOD, A TEMPORARY STRUCTURE CONSISTING OF NONERODIBLE MATERIAL OR PROPOSED LIVE WATERCOURSE SHALL BE CONSTRUCTED TO CROSS THE WATERCOURSE.													NOT APPLICABLE NO CHECKS ON-SITE		
14	ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE WATERCOURSE IS COMPLETED.													NOT APPLICABLE NO CHECKS ON-SITE		
15	THE BERMS AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.													NOT APPLICABLE NO CHECKS ON-SITE		
16	UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: 1) NO MORE THAN 500 LINEAL FEET OF ANY TRENCH MAY BE OPENED AT ONE TIME. 2) EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. 3) ERECTION FROM DEVALUING AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. 4) MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. 5) STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE CHAPTERS. 6) APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.													UTILIZE FOR SANITARY, STORM SEWER & PLUMBING INSTALLATION		
17	WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE. THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.													(CE)		
18	ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NO LONGER NEEDED. THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED BY THE LOCAL PROGRAM ADMINISTRATOR, TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.													(TS) (PS) (MU)		
19	PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, RUNOFF DURATION DUE TO INCREASED VOLUME, AND WATERSHEDS AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED REGULATORY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS: A. EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION OF ANY TYPE OF EROSION CONTROL MEASURE, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED DIRECTLY INTO AN ADJACENT OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM, THE FOLLOWING STANDARDS SHALL BE OBSERVED: 1. ANALYSIS AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED. B. ADEQUATE OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER: 1. THE APPLICANT SHALL DETERMINE THE DRAINAGE AREA OF THE PROJECT IN QUESTION OR 2. (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF THE TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL. (b) BED OR BANKS, AND CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF THE 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A 2-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL, BED OR BANKS; AND C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL: 1. DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL, OR 2. IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-YEAR STORM IS CONTAINED WITHIN THE APPROPRIATIONS; OR 3. PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION. D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO HAVE THE IMPROVEMENTS TO THE SUBJECT PROJECT. E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT. F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE. G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PREVENT EROSION OF THE RECEIVING CHANNEL. H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE. I. INCREASED VOLUMES OF SHEET FLOODING THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIRECTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY. J. IN APPLYING THESE STORMWATER RUNOFF CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT UNLESS THE DEVELOPMENT IS CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT RELATE TO THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS. K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL, AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO: 1. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS. 2. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 72 HOURS. 3. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 96 HOURS. 4. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 120 HOURS. 5. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 144 HOURS. 6. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 168 HOURS. 7. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 192 HOURS. 8. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 216 HOURS. 9. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 240 HOURS. 10. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 264 HOURS. 11. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 288 HOURS. 12. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 312 HOURS. 13. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 336 HOURS. 14. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 360 HOURS. 15. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 384 HOURS. 16. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 408 HOURS. 17. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 432 HOURS. 18. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 456 HOURS. 19. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 480 HOURS. 20. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 504 HOURS. 21. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 528 HOURS. 22. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 552 HOURS. 23. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 576 HOURS. 24. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 600 HOURS. 25. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 624 HOURS. 26. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 648 HOURS. 27. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 672 HOURS. 28. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 696 HOURS. 29. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 720 HOURS. 30. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 744 HOURS. 31. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 768 HOURS. 32. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 792 HOURS. 33. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 816 HOURS. 34. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 840 HOURS. 35. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 864 HOURS. 36. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 888 HOURS. 37. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 912 HOURS. 38. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 936 HOURS. 39. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 960 HOURS. 40. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 984 HOURS. 41. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1008 HOURS. 42. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1032 HOURS. 43. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1056 HOURS. 44. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1080 HOURS. 45. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1104 HOURS. 46. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1128 HOURS. 47. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1152 HOURS. 48. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1176 HOURS. 49. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1200 HOURS. 50. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1224 HOURS. 51. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1248 HOURS. 52. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1272 HOURS. 53. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1296 HOURS. 54. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1320 HOURS. 55. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1344 HOURS. 56. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1368 HOURS. 57. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1392 HOURS. 58. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1416 HOURS. 59. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1440 HOURS. 60. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1464 HOURS. 61. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1488 HOURS. 62. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1512 HOURS. 63. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1536 HOURS. 64. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1560 HOURS. 65. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1584 HOURS. 66. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1608 HOURS. 67. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1632 HOURS. 68. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1656 HOURS. 69. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1680 HOURS. 70. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1704 HOURS. 71. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1728 HOURS. 72. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1752 HOURS. 73. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1776 HOURS. 74. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1800 HOURS. 75. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1824 HOURS. 76. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1848 HOURS. 77. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 1872 HOURS. 78. 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