

**STORM WATER STORAGE
MAYSVILLE C&D LANDFILL, PHASE 1**

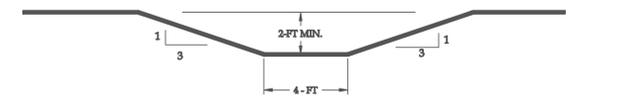
DRAINAGE AREA	RUNOFF COEFFICIENT, C	DRAINAGE AREA (AC)	IMPERVIOUS AREA (AC)	IMPERVIOUS FRACTION (IA)	HUBERT, NC (NOAA) RAINFALL INTENSITY		PEAK DISCHARGE (CFS)
					1 (IN/HR), 25-YR	6 (IN/HR), 25-YR	
1	0.35	1.4	0.15	0.11	8.55	4.19	
2	0.35	1	0.15	0.15	8.55	2.99	
3	0.35	1	0.15	0.15	8.55	2.99	
4	0.35	1.1	0.15	0.14	8.55	3.29	

RETENTION VOLUME REQUIRED PER STORM EVENT

DRAINAGE AREA	RUNOFF COEFFICIENT, RV	DRAINAGE AREA (AC)	RETENTION VOLUME REQUIRED (CF)					VOLUME PROVIDED (CF)
			1-IN	2-IN	4-IN	6-IN	8-IN	
1	0.15	1.4	744	1,491	2,977	4,465	5,953	8,013
2	0.19	1	672	1,345	2,686	4,029	5,372	7,287
3	0.19	1	672	1,345	2,686	4,029	5,372	7,558
4	0.17	1.1	690	1,382	2,759	4,138	5,518	7,288

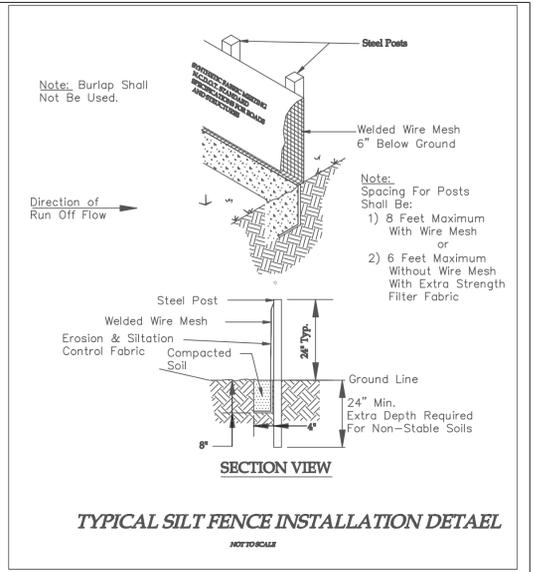
NC DENR Stormwater BMP Manual
Simple Method (Schueler, 1987)
RV = 0.05 + 0.9 * IA
V = 3630 * RD * Rv * A

BASED ON NC DENR STORMWATER BMP MANUAL USING SIMPLE METHOD (SHULER, 1987), THE STORMWATER DITCHES SURROUNDING PHASE 1 OF THE C&D LANDFILL WILL ADEQUATELY STORE RUNOFF FROM THE 25-YR, 24-HR STORM EVENT.



NOTES:

- ALL EXTERIOR STRUCTURAL FILL BERM SLOPES ARE 3H:1V
- LANDFILLING SLOPES ARE PROPOSED AT 4H:1V
- THERE ARE NO SURFACE WATERS ON SITE (WATERS OF THE UNITED STATES).
- NO 100-YR FLOODPLAINS LOCATED WITHIN 2,000-FT FROM LIMITS OF WASTE BASED ON CURRENT FEMA NC FIRM INFORMATION FIRM MAP NUMBER 3720542200K
- PROPERTY BOUNDARY INFORMATION TAKEN FROM PROPERTY SURVEYS PERFORMED BY PARKER & ASSOCIATES, JACKSONVILLE, NC
- THE PROPOSED C&D LANDFILL FACILITY BOUNDARY IS LOCATED WITHIN THE JURISDICTIONAL LIMITS OF THE TOWN OF MAYSVILLE. ZONING IS I-1
- NEAREST SURFACE WATER IS WHITE OAK RIVER AND AN UNNAMED TRIBUTARY TO WHITE OAK RIVER BEYOND 2,000-FT.



Erosion and Sedimentation Control Notes:

- Clearing or grading operations shall begin at low points of outfall release or other locations where sediment control measures are shown on the plan and the sediment control devices (silt fences, SW ditches, etc.) shall be installed before or simultaneously with the disturbance of any area draining to the device.
- Sediment control devices and structures shall be installed, maintained and amended as needed to provide effective control of accelerated erosion and sedimentation until the contributing watersheds are stabilized.
- Construction Sequence:**
 - Notify Engineer, owner and Land Quality Section prior to beginning construction.
 - Construction equipment shall only access the project site using the existing haul road for the mine.
 - Limits of clearing will be as shown. Owner may lessen the amount to clear. Confirm prior to start of work. Silt fence shall be installed at the down slope edge of clearing immediately after a pathway is cleared. Silt fence shall be maintained until the upstream area is stabilized completely. Silt fences are shown based on topographic information in the locations expected to be needed to trap sediment prior to entering down slope areas. Actual locations of installation shall be adjusted to the actual physical on site topography. That is, where silt fence is not shown on the plan but the actual topography reflects a downward slope, silt fence shall be installed. Where the actual topography reflects an upward slope silt fence is not required.
 - Clear and grub Phase 1 Landfill area as needed.
 - Strip topsoil and stockpile for later use within Phase 1 area.
 - Construct Storm Water ditches where shown.
 - Begin rough grading the area that will support the grading of the Phase 1 Landfill.
 - Immediately seed and mulch exterior landfill slopes and Storm Water ditches.
 - Maintain erosion control measures as needed to assure full functionality. Provide ground stabilization (Temporary or Permanent) on perimeter areas and slopes greater than 3:1 within 7 days following the completion of any phase of grading or construction; and 14 days for all other areas internal to the project.
- Seeding Specifications:** Apply lime and fertilizer and work into 4 - 6 inches of soil. Seed mixture shall be distributed uniformly and covered with a clean straw mulch. All mulch shall be crimped or asphalt tacked to hold in place. Material and application rates as follows, and are generally considered minimums. *Mulch rate to be doubled if crimped*:

Material	Application Rate
Lime	3000 lbs./ac.
Fertilizer (10-10-10)	750 lbs./ac.
Mulch	2 tons/ac.
Asphalt Tack	435 gal./ac. (Max)
Permanent Seeding	
Common Bermuda (Unhulled Sept. 1 - April 1)	100 lbs./ac.
(Hulled April 1 - Sept. 1)	75 lbs./ac.
"Rebel" Fescue	50 lbs./ac.
Rye Grain (Sept. 1 - April 1 only)	50 lbs./ac.
German Millet (April 1 - Sept. 1 only)	50 lbs./ac.
Temporary Seeding	
Dec. 1 - April 15	
Kobe Lespedeza	50 lbs./ac.
Rye Grain	120 lbs./ac.
April 15 - Aug. 15	
German Millet	40 lbs./ac.
Aug. 15 - Dec. 30	
Rye Grain	120 lbs./ac.

Material	Application Rate
Lime	3000 lbs./ac.
Fertilizer (10-10-10)	750 lbs./ac.
Mulch	2 tons/ac.
Asphalt Tack	435 gal./ac. (Max)
Permanent Seeding	
Common Bermuda (Unhulled Sept. 1 - April 1)	100 lbs./ac.
(Hulled April 1 - Sept. 1)	75 lbs./ac.
"Rebel" Fescue	50 lbs./ac.
Rye Grain (Sept. 1 - April 1 only)	50 lbs./ac.
German Millet (April 1 - Sept. 1 only)	50 lbs./ac.
Temporary Seeding	
Dec. 1 - April 15	
Kobe Lespedeza	50 lbs./ac.
Rye Grain	120 lbs./ac.
April 15 - Aug. 15	
German Millet	40 lbs./ac.
Aug. 15 - Dec. 30	
Rye Grain	120 lbs./ac.

LEGEND

- EXISTING CONTOUR (1-FT INTERVAL)
- PROPOSED CONTOUR (2-FT INTERVAL)
- ACOE APPROVED WETLAND LIMITS
- LIMITS OF DISTURBANCE
- FACILITY BOUNDARY
- SILT FENCE
- LINER LIMITS / PHASE LIMITS

TOTAL DISTURBED AREA = 9.4 ACRES

CONNECT TO RECYCLING/RECOVERY FACILITY

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

**MAYSVILLE C&D LANDFILL
PHASE 1 PERMIT APPLICATION**

GREEN RECYCLING SOLUTIONS, LLC MAYSVILLE, NC

DRAWN BY: DWW PROJECT ENGINEER: DWW
DESIGN ENGINEER: DWW PROJECT MANAGER: DWW

ERM NC, INC.
LICENSE #C-2216
800 CORPORATE CENTER DRIVE, SUITE 200
CHARLOTTE, NORTH CAROLINA 28208
(704) 961-4545

**PHASE 1
EROSION & SEDIMENTATION CONTROL PLAN**

SCALE: 1"=100' DATE: JUNE 2013

PROJECT NO. 0140408 AutoCAD 2007 POTENTIOMETRIC MAP.DWG

DRAWING NO. 21 REV. NO. SHEET 21 OF 21