

THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDCOM MANUAL "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", FOR SEDIMENTATION TYPE D SOILS. THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN CAN HANDLE. EACH BASIN SHALL BE SIZED IN ACCORDANCE WITH THE TABLE BELOW.

TOTAL SEDIMENT BASIN VOLUME REQUIRED :	SEDIMENT ZONE VOLUME (0.17 A (R K LS P C)/1.3	RKLSPC	DISTURBED CATCHMENT AREA	SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	CATCHMENT AREA, A	75TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	VOLUMETRIC RUNOFF COEFFICIENT, CV	SEDIMENT BASIN SIZING TYPE D SOILS
71.25 m³/Ha	14.5m³ < 50% SETTLING VOL	110.87m³	1 Ha (UNIT AREA)	47.5 m³	1 Ha (UNIT AREA)	19.0 mm	0.25 (APPENDIX F - TABLE F2)	ING LYPE D SOILS

NDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)
THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:

TABLE 6.3A	19.0mm (BLACKTOWN)	75TH PERCENTILE 5-DAY RAINFALL EVENT
APPENDIX C TABLE 4	TYPE D	SEDIMENT TYPE
APPENDIX C TABLE 20	GROUP C	SOIL HYDROLOGIC GROUP
A=RKLSPC	110.87t/Ha/YR	CALCULATED SOIL LOSS, A (RUSLE EQUATION)
APPENDIX A - FIGURE A5	1.0 (DURING EARTHWORKS)	COVER FACTOR (C-FACTOR)
APPENDIX A - TABLE A2	1.3 (COMPACTED)	EROSION CONTROL PRACTICE FACTOR (P-FACTOR)
(TABLE C20 - BLACKTOWN)	0.038	SOIL ERODIBILITY (K-FACTOR)
APPENDIX A - TABLE A1	0.955	LENGTH/SLOPE GRADIENT FACTOR, LS
APPENDIX B	2350	RAINFALL EROSIVITY (R-FACTOR)
(SOURCE)*	VALUE	CONSTRAINT

- THE CAPTURED STORMWATER IN THE SETTLING ZONE SHOULD BE DRAINED TO MEET THE MINIMUM STORAGE CAPACITY REQUIRED WITHIN A FIVE (5) DAY PERIOD FOLLOWING RAINFALL, PROVIDED THE ACCEPTABLE WATER QUALITY (NFR) AND TURBIDITY HAVE BEEN ACHIEVED.
- CHEMICAL FLOCCULENT SUCH AS GYPSUM MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APPLIED DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 36 TO 72 HOURS OF THE STORM EVENT.
- INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL (REFER TO PEGS INSTALLED IN BASINS IN ACCORDANCE WITH THE SWMP). ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

SPRING/SUMMER	AUTUMN/WINTER	SOWING SEASON	
OATS@20kg/Ha + JAPANESE MILLET@20kg/Ha	OATS@40KG/Ha + JAPANESE MILLET@10kg/Ha	SEED MIX	

NOTE : THESE PLANT SPECIES ARE FOR TEMPORARY REVEGETATION ONLY. THEY WILL ONLY PROVIDE PROTECTION FROM EROSION FOR SIX MONTHS. WHERE THE LOTS ARE TO BE LEFT UNDEVELOPED FOR A LONGER PERIOD, THE CONTRACTOR SHALL SEEK ADVICE FROM THE SITE SUPERINTENDENT AS TO MORE APPROPRIATE REVEGETATION METHODS.

THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS:

ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	STOCKPILES, POST CONSTRUCTION	WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	LAND
0.15	0.10	0.05	MAXIMUM C-FACTOR
APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 50% GROUND COVER IS REQUIRED.	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOOT AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.	REMARKS

ONLY

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