



SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	0.25 (APPENDIX F - TABLE F2)
75TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	19.0 mm
CATCHMENT AREA A	1ha (UNIT AREA)
SETTLING ZONE VOLUME (PER HECTARE) 10 CYLAR	47.5 m ³
DISTURBED CATCHMENT AREA	1ha (UNIT AREA)
R K L S P C	110.87m ³
SEDIMENT ZONE VOLUME (0.17 A R K L S P C) 1.3	14.5m ³ < 8% SETTLING VOL
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	77.25 m ³ ha

* (LANDSCAPE MANAGING URBAN STORMWATER MANUAL REFERENCE)		
2. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:		
CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIONITY (R-FACTOR)	2350	APPENDIX B
LENGTH/SLOPE GRADIENT FACTOR (LS)	0.955	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-F-FACTOR)	0.038	(TABLE C20 - BLACKTOWN)
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3 (COMPACTED)	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS A (RUSLE EROSION)	1110.87t/ha/YR	A = R x K x P x C
SOIL HYDROLOGIC GROUP	GROUP C	APPENDIX C TABLE 20
SEDIMENT TYPE	TYPE D	APPENDIX C TABLE 4
75TH PERCENTILE 30DAY RAINFALL EVENT	19.0mm (BLACKTOWN)	TABLE 6.3A

BASIN MANAGEMENT	
1.	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 (NTR) AND TURBIDITY HAVE BEEN ACHIEVED.
2.	CHEMICAL FLOCCULANT SUCH AS CRYSTALLINE MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APPLIED DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 30 TO 120 HOURS OF THE STORM EVENT.
3.	INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL. PREFER 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.
SOWING SEASON	SEED MIX
AUTUMN/WINTER	ONTS@40KcHa + JAPANESE MILLET@100gHa
SPRING/SUMMER	ONTS@200gHa + JAPANESE MILLET@200gHa

FOR DATA ONLY