CLASSIFICATION OF SEDIMENT TRAPS BASED ON PARTICLE SIZE

CLASSIFICATION	MINIMUM PARTICLE SIZE	TYPICAL TRAPPED PARTICLES
TYPE 1	< 0.045mm	CLAY, SILT AND SAND
TYPE 2	0.045 TO 0.14mm	SILT AND SAND [1]
TYPE 3	> 0.14mm	SAND
SUPPLEMENTARY	> 0.42mm	COARSE SAND

[1] TECHNICALLY, SILT PARTICLES HAVE A GRAIN SIZE BETWEN 0.002 AND 0.02mm, WHICH MEANS THAT ONLY TYPE 1 SEDIMENT TRAPS ARE LIKELY TO CAPTURE SILT-SIZED PARTICLES. HOWEVER, FOR GENERAL DISCUSSION PURPOSES, IT CAN BE ASSUMED THAT TYPE 2 SYSTEMS CAPTURE A SIGNIFICANT PROPORTION OF SILT-SIZED PARTICLES.

DEFAULT CLASSIFICATION OF SEDIMENT CONTROL TECHNIQUES

TYPE 1	TYPE 2	TYPE 3
SHEET FLOW TREATMENT TECHNIQUES		
- BUFFER ZONE CAPABLE OF INFILTRATING 100% OF STORMWATER RUNOFF OR PROCESS WATER (*)	- BUFFER ZONE (*) CAPABLE OF INFILTRATING THE MAJORITY OF FLOWS FROM DESIGN STORMS	- BUFFER ZONE (*)
		- FILTER FENCE
- INFILTRATION BASIN OR SAND FILTER BED CAPABLE OF INFILTRATING 100% OF FLOW	- COMPOST / MULCH BERM	- MODULAR SEDIMENT TRAP
		- SEDIMENT FENCE
CONCENTRATED FLOW TREATMENT TECHNIQUES		
- SEDIMENT BASIN (*) (SIZED IN ACCORDANCE WITH DESIGN STANDARD	- BLOCK & AGGREGATE DROP INLET PROTECTION	- COARSE SEDIMENT TRAP
	- EXCAVATED SEDIMENT TRAP WITH TYPE 2 OUTLET	- EXCAVATED DROP INLET PROTECTION (*)
	- FILTER SOCK	- FABRIC DROP INLET PROTECTION
	- FILTER TUBE DAM	
	- MESH & AGGREGATE DROP INLET PROECTION	- FABRIC WRAP FIELD INLET SEDIMENT TRAP
	- ROCK & AGGREGATE DROP INLET PROTECTION	
	- ROCK FILTER DAM	- MODULAR SEDIMENT TRAP
	- SEDIMENT TRENCH (*)	- STRAW BALE BARRIER
	- SEDIMENT WEIR	- U-SHAPED SEDIMENT TRAP
DE-WATERING SEDIMENT CONTROL TECHNIQUES (Selection not based on soil loss rate)		
- TYPE F/D SEDIMENT BASIN	- FILTER BAG OR FILTER TUBE	- COMPOST BERM (*)
- STILLING POND	- FILTER POND	- FILTER FENCE (*)
	- FILTER TUBE DAM	- GRASS FILTER BED (*)
	- PORTABLE SEDIMENT TANK (*)	- HYDROCYCLONE (*)
	- SETTLING POND (*)	- PORTABLE SEDIMENT TANK (*)
	- SUMP PIT	- SEDIMENT FENCE
INSTREAM SEDIMENT CONTROL TECHNIQUES (Selection not based on soil loss rate)		
- PUMP SEDIMENT-LADEN WATER TO AN OFF-STREAM TYPE F OR TYPE D SEDIMENT BASIN OR HIGH FILTRATION SYSTEM	- FILTER TUBE BARRIER	- SEDIMENT FILTER CAGE
	- MODULAR SEDIMENT BARRIER (*)	- MODULAR SEDIMENT BARRIER (*)
	- ROCK FILTER DAM	
	- SEDIMENT WEIR	

(*) CLASSIFICATION DEPENDS ON DESIGN DETAILS

The content of this standard drawing has been extracted from the "Erosion & Sediment Control - A Field Guide for Construction Site Managers" (Feb 2010)

NO.	DATE	DESCRIPTION	APPVD
A	8/8/11	ISSUE FOR CONSTRUCTION	-

AMENDMENTS AND REVISIONS

FILE NAME DESIGN\DOCUMENTS\SESC STD DRAWINGS\...

SURVEY -

SURVEY FILE No -

LEVEL DATUM AHD

MERIDIAN MGA 55

DRAWN F. KROLL SIGNED DATE 8/8/11

DESIGNED PDL SIGNED PDL DATE 21/12/11

CHECKED SIGNED DATE

MANAGER TECHNICAL SERVICES G. Hawes 21.12.11

G. HAWES RPEQ 5693 DATE

DIRECTOR ENGINEERING SERVICES

STUART HOLLEY RPEQ 8940

DATE 21.12.11

Mackay REGIONAL COUNCIL

STANDARD

SEDIMENT CONTROL

TECHNIQUE CLASSIFICATION

SHEET 1 OF 1

WORKS JOB No. -

DRAWING No. A3-00878

AMEND. A