

OVERVIEW OF CRITICAL ESC MEASURES FOR VARIOUS WEATHER CONDITIONS

EXPECTED WEATHER CONDITIONS	LIKELY CRITICAL ASPECTS OF EROSION & SEDIMENT CONTROL
NO RAINFALL OR STRONG WINDS EXPECTED	- IF FAVOURABLE, DRY WEATHER CONDITIONS ARE LIKELY TO EXIST WITH A REASONABLE DEGREE OF CERTAINTY, THEN AVOID UNNECESSARY EXPENDITURE ON EXCESSIVE ESC MEASURES; HOWEVER, ALWAYS ENSURE THE SITE IS APPROPRIATELY PREPARED FOR POSSIBLE, UNSEASONABLE WEATHER CONDITIONS.
	- IT SHOULD BE NOTED THAT EFFECTIVE SEDIMENT CONTROLS AT SITE ENTRY/EXIT POINTS ARE GENERALLY ALWAYS REQUIRED, EVEN DURING DRY WEATHER CONDITIONS.
LIGHT RAINFALL	- IN GENERAL, THE LIGHTER THE RAINFALL, THE HIGHER THE EXPECTED QUALITY (mg/L & TURBIDITY) OF THE WATER DISCHARGED FROM THE SITE.
	- WHEREVER PRACTICAL, SEDIMENT CONTROL MEASURES SHOULD BE DESIGNED TO MAXIMISE THE 'FILTRATION' OF SEDIMENT-LADEN WATER DURING PERIODS OF LIGHT RAINFALL, RATHER THAN GRAVITY-INDUCED SEDIMENTATION.
	- IT SHOULD BE NOTED THAT IF A SITE DISCHARGES TO A MINOR WATERCOURSE, THEN THE RELEASE OF SEDIMENT-LADEN WATER DURING PERIODS OF LIGHT RAINFALL CAN POTENTIALLY CAUSE MORE ENVIRONMENTAL HARM THAN IF THE SAME QUANTITY OF SEDIMENT WERE RELEASED DURING PERIODS OF MODERATE TO HEAVY RAINFALL..
MODERATE TO HEAVY RAINFALL	- IT IS CRITICAL TO ENSURE EFFECTIVE DRAINAGE CONTROL MEASURES EXIST ON THE SITE TO PREVENT THE FORMATION OF RILL AND GULLY EROSION.
	- IT IS CRITICAL TO ENSURE THAT SEDIMENT TRAPS HAVE AN EFFECTIVE FLOW BYPASS SYSTEM TO PREVENT STRUCTURAL FAILURE OF THE SEDIMENT TRAPS.
	- WHEREVER PRACTICAL, SEDIMENT CONTROL MEASURES SHOULD BE DESIGNED TO MAXIMISE THE GRAVITY-INDUCED 'SETTLEMENT' OF SEDIMENT-LADEN WATERS DURING PERIOD OF MODERATE TO HEAVY RAINFALL.
	- IT IS NOTED THAT SEDIMENT CONTROL MEASURES THAT RELY ON 'FILTRATION' PROCESSES (IE. FILTRATION THROUGH GEOTEXTILE FILTER CLOTH) OFTEN EXPERIENCE EXCESSIVE BLOCKAGE DURING SUCH STORM EVENTS.
STRONG WINDS	- ENSURE CONTROL MEASURES ARE APPROPRIATELY ANCHORED.
	- MAINTAIN SOIL SURFACE IN A ROUGHENED CONDITION TO REDUCE DUST GENERATION.
	- ASSESS THE BENEFITS OF CHEMICAL-BASED SOIL STABILISES INSTEAD OF JUST USING WATER TRUCKS.

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

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

AMENDMENTS AND REVISIONS

DRAWN F. K ROLL	SIGNED <i>[Signature]</i>	DATE 8/8/11	DIRECTOR ENGINEERING SERVICES
DESIGNED PDG	SIGNED PDG	DATE 12/12/11	<i>S. M. Holley</i> ST JART HOLLEY RPEQ 8340
CHECKED	SIGNED	DATE	DATE <u>12.12.11</u>
MANAGER TECHNICAL SERVICES <i>[Signature]</i> 12/12/11			
G. FAWES RPEQ 5693 DATE			



WORKS JOB No. -	DRAWING No. A4-00326	AMEND. A
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STANDARD
EROSION CONTROL MEASURES
FOR VARIOUS WEATHER CONDITIONS