

CONSTRUCTION SPECIFICATION FOR DEVELOPMENTS AND SUBDIVISIONS

C211 - Control of Erosion and Sedimentation

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ORIGIN OF DOCUMENT, COPYRIGHT

This document was originally based on AUS-SPEC - Development Construction Specification C211 - Control of Erosion and Sedimentation. Substantial parts of the original AUS-SPEC document have been deleted and replaced in the production of this Tamworth Regional Council Specification. The parts of the AUS-SPEC document that remain are still subject to the original copyright.

REVISIONS: C211 - CONTROL OF EROSION AND SEDIMENTATION

REVISION	AMENDMENT DETAILS	CLAUSES AMENDED	DATE ISSUED (The new version takes effect from this date)	Authorised - Director Regional Services
0	Original Issue		30/11/2018	

GENERAL

C211.01 SCOPE

This Specification is for the installation of structures and the implementation of measures to control erosion and sedimentation in accordance with the approved Erosion and Sediment Control Plan (ESCP) or Storm Water Management Plan (SWMP). These may be temporary or permanent.

The Constructor shall plan and carry out the whole of the Works to avoid erosion and sedimentation of the site, surrounding country, watercourses, waterbodies and wetlands.

All measures for erosion and sedimentation control shall be designed, installed and maintained by the Constructor in such a manner so as not to present a potential hazard or otherwise to any person or property.

C211.02 REFERENCE DOCUMENTS

Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

Where not otherwise specified in the relevant Tamworth Regional Council (TRC) Specifications or the approved design drawings, the Constructor shall use the latest versions of the Reference documentation, including amendments and supplements, listed in the TRC Construction Specifications at the time of the Works approval.

(a) Tamworth Regional Council (TRC) Specifications

C212 - Clearing and Grubbing.

C213 - Earthworks.

(b) Legislation

Protection of the Environment Operations Act 1997 (POEO Act).

(c) Other Publications

Landcom - Managing Urban Stormwater, Soils and Construction, 4th Edition, March 2004 ("the Blue Book").

C211.03 EROSION AND SEDIMENTATION CONTROL PLAN

An Erosion and Sedimentation Control Plan (ESCP) shall be developed for all work where ground disturbance is either known or likely to occur. The ESCP shall be prepared in accordance with Managing Urban Stormwater: Soils and Construction ("the Blue Book"). The ESCP shall be prepared in accordance with the Blue Book by a person with demonstrated skills, experience and qualifications.

All work that involves any disturbance to the surface of land shall be carried out in accordance with an approved ESCP.

C211.04 EROSION AND SEDIMENTATION CONTROL MEASURES

Erosion and sedimentation control measures shall be in accordance with the approved **Scope** ESCP.

Documents Standards Test Methods

Currency

Erosion and Sedimentation

Control Plan

	1
HOLD POINT The ESCP, including all associated details, shall be submitted to the Developer's	
Representative at least ten (10) working days prior to the proposed date of commencement of site work.	Hold Point
PROCESS HELD: Site establishment and any subsequent site works.	
	1
Under no circumstances shall work commence until the Hold Point has been released and all relevant control measures are in place.	Timing
C211.05 EARTHWORKS FOR EROSION AND SEDIMENTATION CONTROL BASINS	
Earthworks for erosion and sedimentation control basins shall be to the planned levels and dimensions shown on the approved design drawings.	Planned Levels
The entire storage and embankment foundation area of erosion and sedimentation control basins shall be cleared in accordance with <i>C212</i> - <i>Clearing and Grubbing</i> and shall be stripped of topsoil and any unsuitable material under embankments removed in accordance with <i>C213</i> - <i>Earthworks</i> .	Site Preparation
The embankments shall be constructed in accordance with C213 - Earthworks.	
C211.06 INLETS, SPILLWAYS AND LOW FLOW OUTLETS FOR SEDIMENTATION CONTROL BASINS AND SEDIMENT TRAPS	
Inlets and spillways shall be constructed in accordance with the approved ESCP.	
C211.07 DROP INLET SEDIMENT CONTROL	
Drop inlet sediment traps and inlet control banks shall be constructed on completion of each gully pit unless otherwise directed by the TRC Representative. These drop inlet sediment traps and inlet control banks are additional to the temporary sedimentation control measures that may be required under Clause C211.09 during construction of the gully pits.	Time of Construction
The drop inlet sediment traps are intended to remove sediment from the surface flow before it enters the drainage system. The inlet control banks shall be constructed as required to prevent the surface flows bypassing the gully pits.	Purpose
The drop inlet sediment traps shall be constructed as shown on the approved design drawings. The associated inlet control banks shall consist of at least two (2) courses of sandbags containing a 10:1 sand/cement mix. The bags shall be keyed at least 25mm into the surface, dampened sufficiently to ensure hydration of the cement and tamped lightly to provide mechanical interlock between adjacent bags.	Control Banks
C211.08 CLEANING SEDIMENTATION CONTROL STRUCTURES	
The Constructor shall clean out permanent sedimentation control structures, cleaning out whenever the accumulated sediment has reduced the capacity of the structure by 70% or more, or whenever the sediment has built up to a point where it is less than 300mm below the spillway crest. All permanent sedimentation control structures shall be cleaned out by the Constructor prior to completion of the Works.	Constructor 's Responsibility
Accumulated sediment shall be removed from permanent sedimentation control structures in such a manner as not to damage the structures. The sediment removed shall be disposed of in such locations that the sediment will not be conveyed back into the construction areas or into watercourses. The Constructor shall provide and maintain suitable access to permanent sedimentation control structures to allow cleaning out in all weather conditions.	Removal of Sediment

TEMPORARY EROSION AND SEDIMENTATION CONTROL

C211.09 GENERAL

Constructor 's The Constructor shall ensure that effective erosion and sedimentation control is provided Responsibility at all times for the duration of the works and until all disturbed surfaces are fully restored or revegetated to the satisfaction of the TRC Representative. **Pollutant Free** Runoff from all areas where the natural surface is disturbed by construction, including access roads, depot and stockpile sites, shall be free of pollutants. The Constructor shall be responsible for all temporary erosion and sedimentation control measures required for this purpose. The Constructor shall provide and maintain slopes, crowns and drains on all excavations Maintenance by the Constructor and embankments to ensure satisfactory drainage at all times. Water shall not be allowed to pond on the Works site unless such ponding is part of an approved ESCP. C211.10 **TEMPORARY DRAINS** Runoff from areas exposed during the work shall be controlled in accordance with the Control of Runoff approved ESCP. C211.11 **TEMPORARY SEDIMENT TRAPS** Temporary sediment-trapping devices shall be provided during construction in Sediment Traps accordance with the approved ESCP to remove sediment from sediment-laden runoff before it enters natural watercourses or adjacent land. C211.12 **BATTER PROTECTION** Constructor 's The Constructor shall take all necessary action to protect batters from erosion during the Responsibility Works. Scour of newly-formed fill batters during and after embankment construction shall be Scour Control minimised by diverting runoff from the formation away from the batter until vegetation is established. MAINTENANCE AND INSPECTION C211.13 The Constructor shall be responsible for operation, monitoring, cleaning out, Constructor 's

specified in the approved ESCP. The Constructor shall provide and maintain access from within the road reserve or from **Access**

C211.14 REMOVAL

All temporary erosion and sedimentation control measures shall be removed by the Constructor when revegetation is established on formerly exposed areas before the end of the Works. All materials used for the temporary erosion and sedimentation control measures shall be removed from the site.

maintenance, repair and rectification of erosion and sediment control measures as

other locations acceptable for cleaning out sedimentation control structures.

Concurrence from the TRC Representative shall be sought to confirm the stanadard of revegetation is satisfactory prior to the removal of the associated control measures required under the ESCP.

TRC WITNESS POINT

The removal of approved erosion and sedimentation control measures requires the concurrence of the TRC Representative.

A joint inspection shall be undertaken by the Constructor and the TRC Representative.

PROCESS HELD: Removal of approved erosion and sedimentation control measures.

Responsibility