

11 April 2022

Nagindar Singh
Department of Planning and Environment
via the Planning Portal

Ground floor, 20 Chandos Street
St Leonards NSW 2065
PO Box 21
St Leonards NSW 1590

T 02 9493 9500
E info@emmconsulting.com.au
www.emmconsulting.com.au

Re: Menangle Sand and Soil Quarry (DA85/2865) - GIS maps (Conditions A10 and A11)

Dear Nagindar,

Menangle Sand and Soil Quarry GIS files were recently supplied through the Planning Portal to meet DA85/2865, Schedule 2, Conditions A10 (b)(v) and A11.

A10 The Applicant must establish and maintain a Nepean River Buffer Zone during Quarrying Operations in the Stage 8 Area. This buffer zone must:

- (a) include a minimum horizontal setback of 10 m extending landward from the 64 m AHD contour on the western side of the Nepean River;
- (b) be informed by a native vegetation identification report, which must:
 - (i) be prepared by a suitably qualified and experienced botanist or ecologist, whose appointment has been endorsed by the Planning Secretary;
 - (ii) include detailed site surveys to identify the DBH of all native trees that occur within the 10 m horizontal setback from the 64 m AHD contour referred to in sub-paragraph (a);
 - (iii) classify all native trees identified in subparagraph (b)(ii) with a DBH of greater than or equal to 0.1 m as Protected Trees and provide their GPS coordinates; and
 - (iv) include a map illustrating a 7.5 m setback (measured at the outside of the native tree trunk) around each of the identified Protected Trees;
- (v) the map required under subparagraph (iv) must overlay high-resolution ortho-photographs, with supporting digital terrain data files provided in spatial format for GIS and as high-resolution JPEG files; and**
- (c) be amended to include the findings of the native vegetation identification report, such that it is widened to include areas where the Protected Tree setbacks extend beyond the minimum 10 m horizontal setback referred to in subparagraph (a).

A11 The Applicant must submit a copy of the native vegetation identification report and associated survey plans, GPS coordinates and data files required under condition A10(b) of Schedule 2 and associated final landform plans to the Planning Secretary for each of Phases 1 to 7 of the development prior to commencing any vegetation clearing or Quarrying Operations in the relevant phase.

Relevant clauses in bold.

The *Vegetation Identification Report* for Substages 8A–8C (Phases 1 and 2) is provided in Appendix A of the *Menangle Sand and Soil Quarry Biodiversity and Rehabilitation Management Plan* (BRMP) (version 3.1, 23

February 2022) as approved by the Secretary on 9 March 2022. The *Vegetation Identification Report* addresses Conditions A10(a), A10(b) (i) to (iv) and A10(c) and parts of Condition A11.

The final landform for Substages 8A–8C is provided in Appendix C of the BRMP to address the relevant part of Condition A11.

The files submitted through the Planning Portal to meet Condition A10 (b)(v) and the reminder of Condition A11 are summarised in Table 1.

Table 1 **Files supplied**

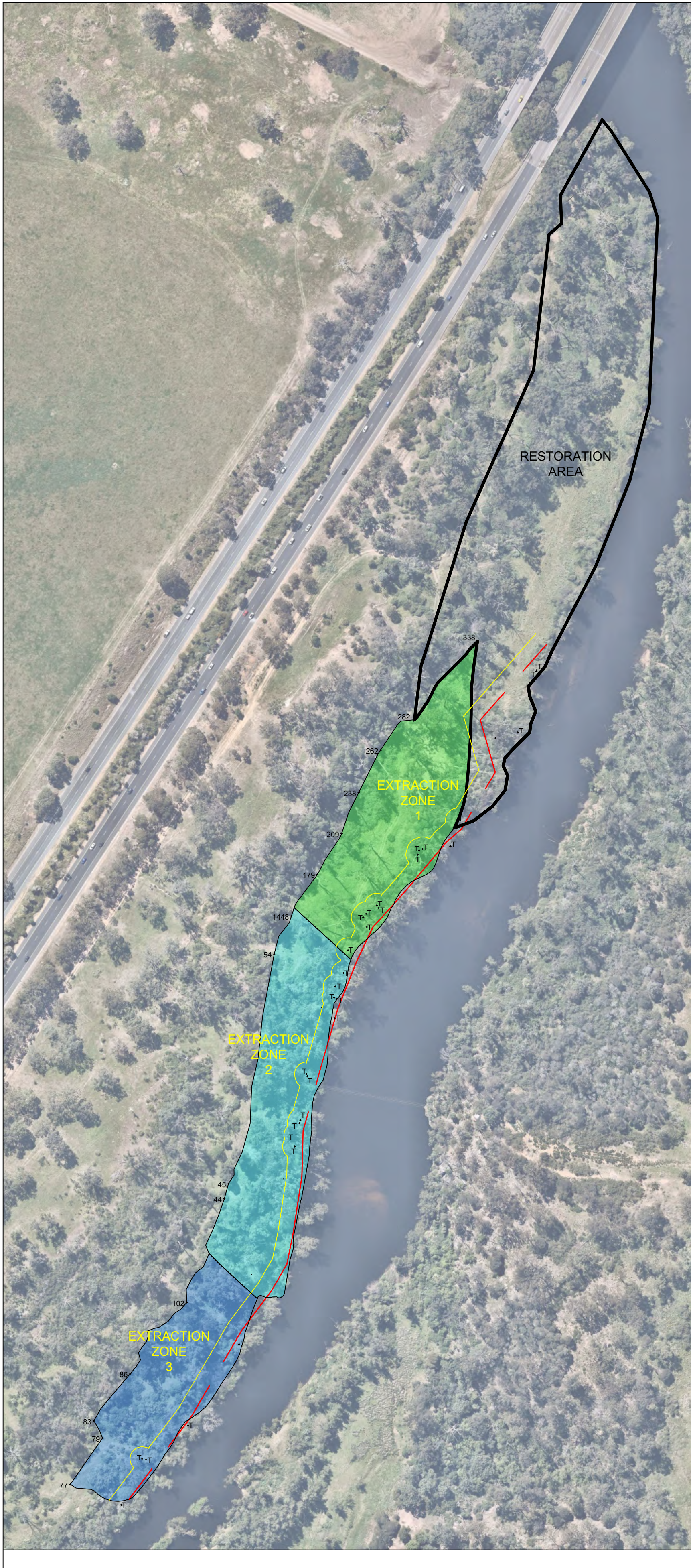
Condition	Requirement	File name	Notes
A10 (b)(v)	High-resolution ortho-photographs of the Substages 8A–8C showing the setback in jpeg and pdf format (provided in Appendix A of the BRMP)	Menangle Quarry_setback survey-jpg	These are also provided in the <i>Vegetation Identification Report</i> .
		Menangle Quarry_setback survey-pdf	
		SurveyedContour_01pl_EMM_20220325	Location of 64 mAHD contour
		SurveyedTree_01pt_EMM_20220325	Locations of trees within 10 m of 64 mAHD contour (upslope)
		Setback_10m_01pl_EMM_20200514	Horizontal setback/Nepean River Buffer Zone (NRBZ)
A11	Data files for final landform plans (provided in Appendix C of the BRMP)	SetoutWorks_01pg_EMM_20220325	Restoration area 1 and extraction areas
		Contour1m_10mSetback_03pl_EMM_20220329	1m contours derived from the final landform design
		InfiltrationSwale10mSetback_01pl_EMM_20200515	Infiltration swale/toe of riverside 1:5 permanent batter
		Setback_10m_01pl_EMM_20200514	Inland extent of horizontal setback
		SetoutWorks_01pg_EMM_20220325	Extraction/rehabilitation area
		FinalLandform_01pg_EMM_20200512	Raster file of the final landform design

We trust that these satisfy the requirements of Conditions A10 and A11 for Substages 8A–8C (Phase 1 and Phase 2).

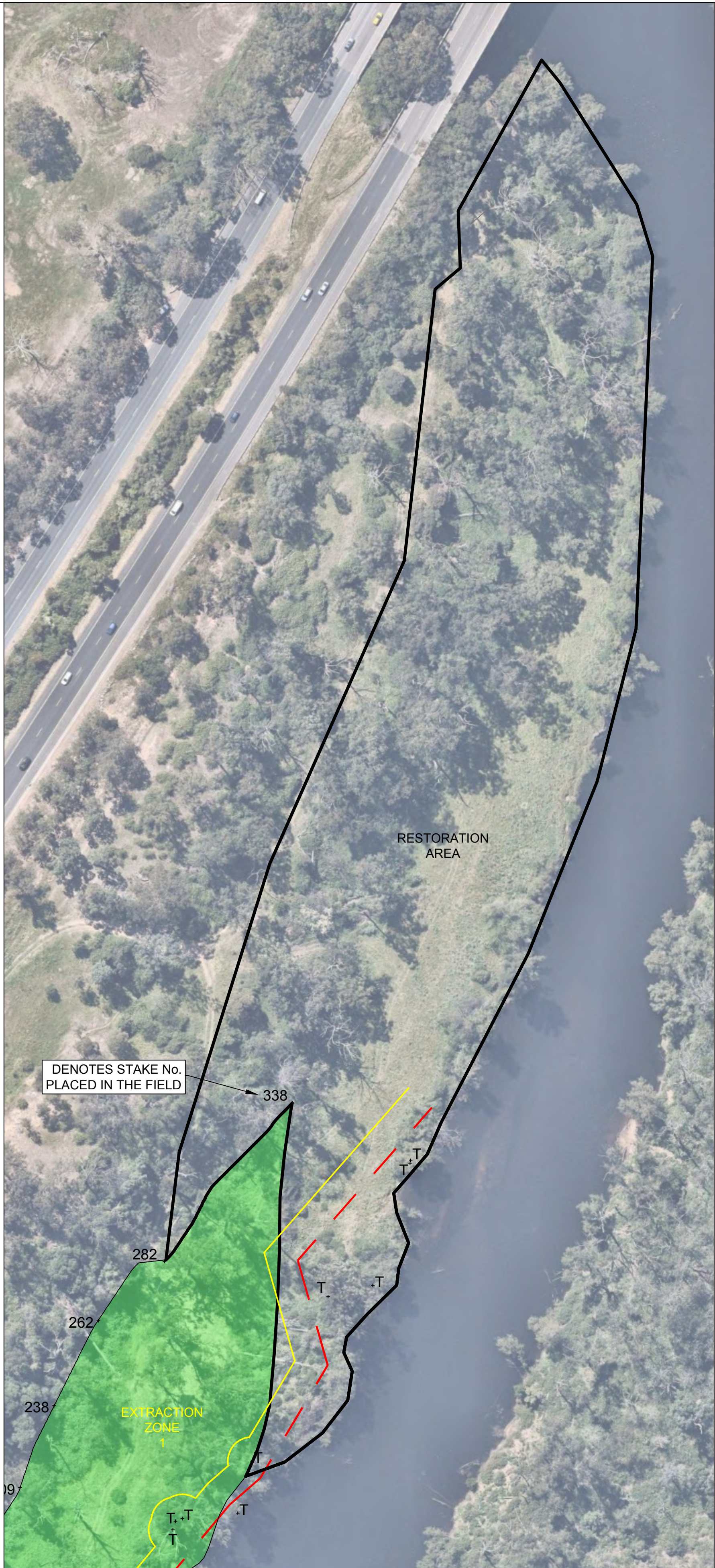
Yours sincerely



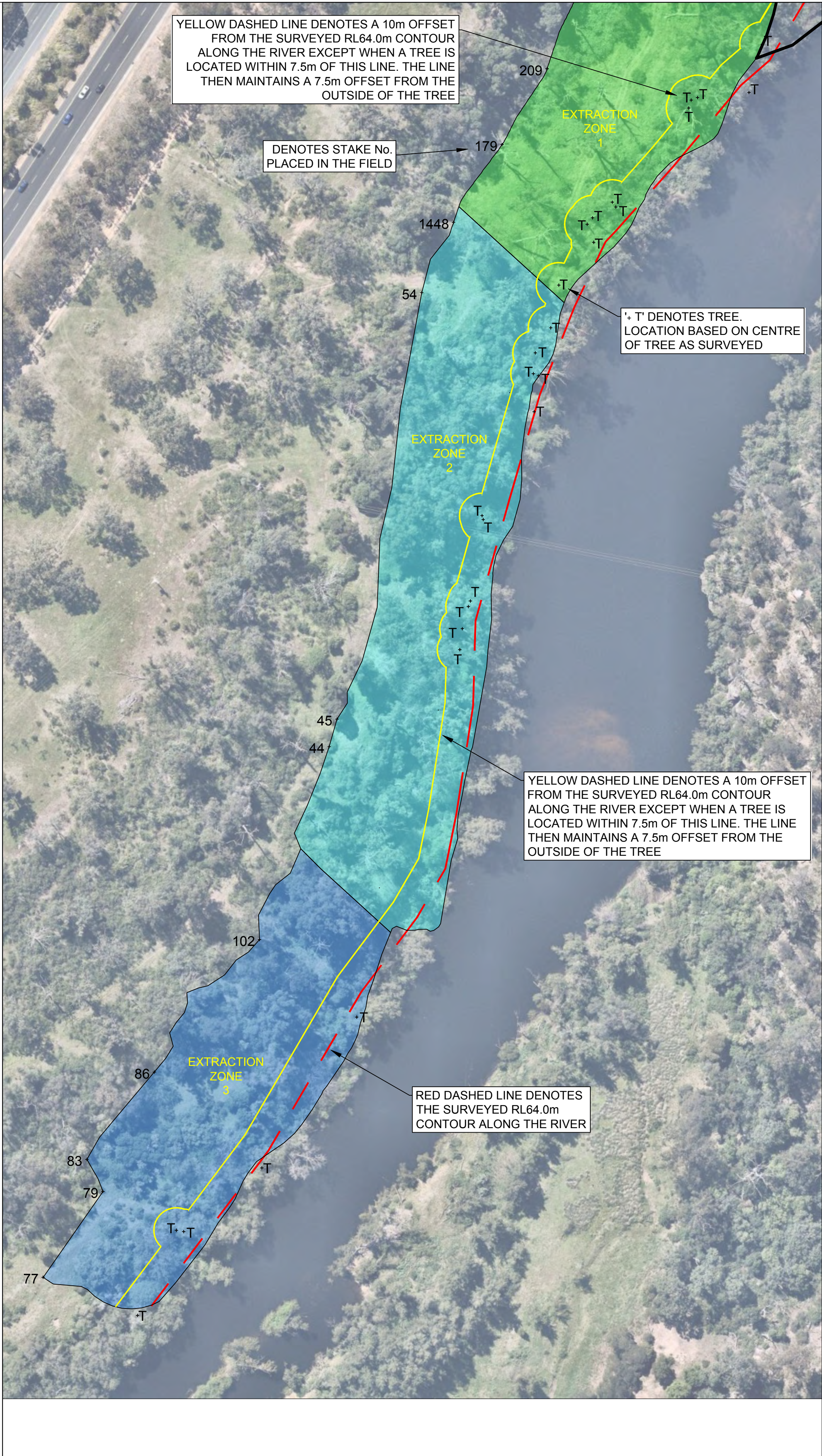
Philip Towler
Associate Director
ptowler@emmconsulting.com.au



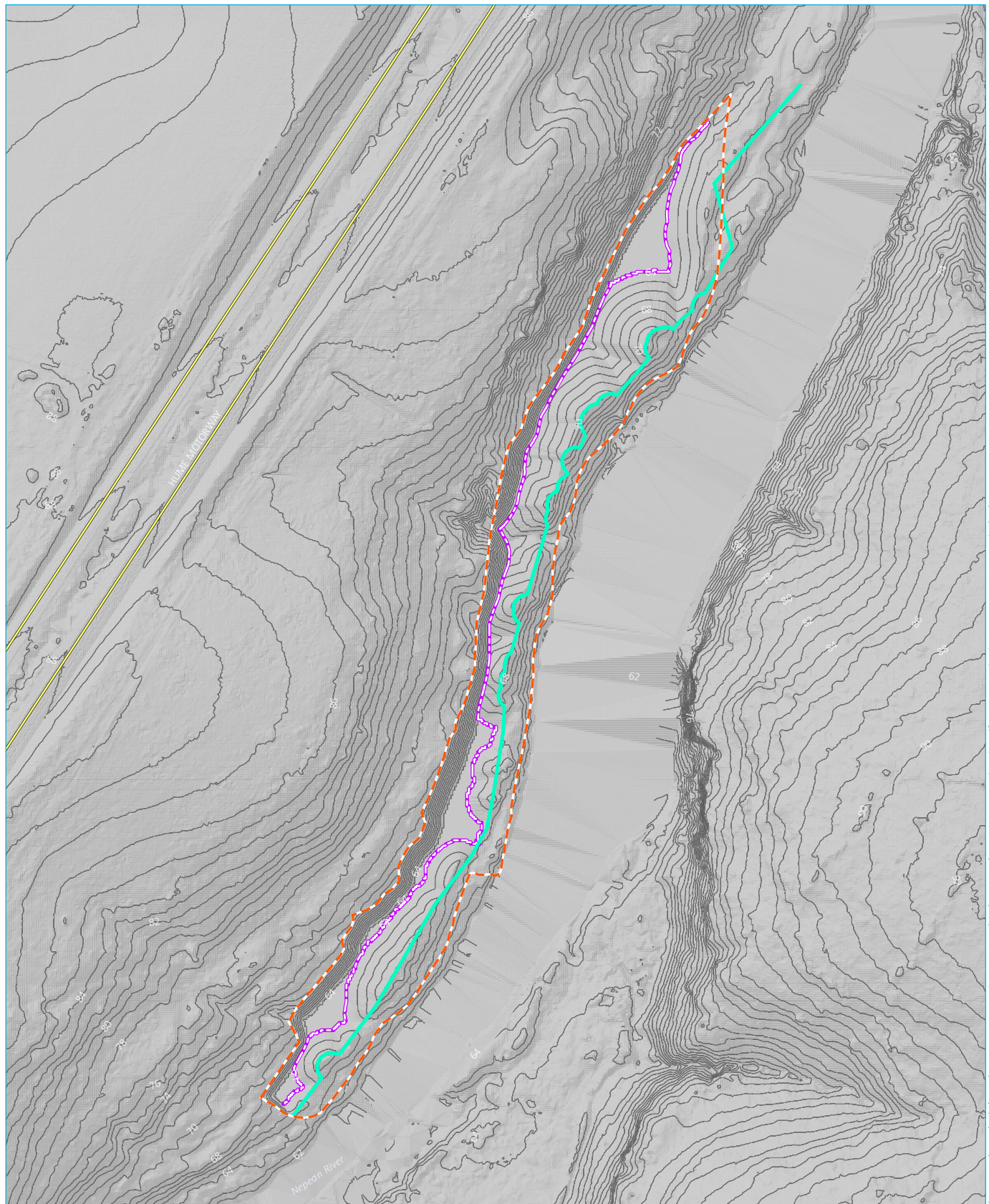
OVERALL PLAN
1:2000



NORTHERN AREA
1:1000



SOUTHERN AREA
1:1000



Source: EMM (2020); DFSI (2017); ELVIS (2020)

KEY

- Stage 8 - extraction/rehabilitation area
- Inland extent of horizontal setback
- Infiltration swale/toe of riverside 1:5 permanent batter
- Contour (1 m)
- Major road

Final landform
Substage 8A-8C

Menangle Quarry Extension