10 July 2019

Ms Melissa Anderson
Environmental Assessment Officer
Energy and Resource Assessments
Department of Planning, Industry & Environment
Level 22, 320 Pitt Street
SYDNEY NSW 2000

Dear Melissa

Re: Austen Quarry – Request for Information regarding Modification 2 to Development Consent SSD 6084

Please find included with this letter the following figures for the Austen Quarry as requested.

1. Quarry Layout with Conservation Area H.
2. Indicative Final Landform.
3. Indicative Cross-Sections of the Final Landform.
4. Updated Indicative Sequence of Extraction and Overburden Emplacement.

The first three figures are provided with figure numbering and titles removed as it is understood that these figures will replace figures provided as appendices to Development Consent SSD 6084.

I note that the Indicative Sequence of Extraction and Overburden Emplacement figure is currently referenced in Statement of Commitments 6.1(a) as being located in the Statement of Environmental Effects for the Modification 1 application. As we have previously discussed, we propose that this reference be modified to refer to the figure presented in the Landscape and Rehabilitation Management Plan. My rationale for this modification is as follows.

1. The sequence and design presented in this figure is indicative. As you would be aware, quarry development is strongly influenced by localised geology. This determines safe and stable face and bench development as the extraction area is progressively developed. Therefore, it is not appropriate for the specific design of these stages to be specified in any development consent.
2. Given the focus on development compliance, we wish to avoid a situation where an auditor is requesting a comparison of face heights, bench lengths and orientation in order to assess compliance.

3. The ultimate limits to the extraction area and overburden emplacement design are the boundaries presented in the site layout figure and the final elevations of each site component.
4. The visual assessment in the original EIS considered final development of the Quarry and not progressive develop. Although Hy-Tec has committed to progressively mitigate visual amenity impacts. Therefore, this approach does not influence the assessment of visual impacts.
5. It is appropriate to include a schedule of extraction and overburden emplacement in the Landscape and Rehabilitation Management Plan where Hy-Tec describe the management and mitigation measures relating to visual amenity.
6. If the sequence is included in the Landscape and Rehabilitation Management Plan, minor changes to the design may be approved through the Department's review of that plan rather than requiring modifications to development consent. Any significant changes that DPIE consider would require assessment, would still be undertaken through a modification application. However, significant changes that would influence visual amenity are unlikely given what is known of the extraction area from Hy-Tec's many years of experience at the Quarry.

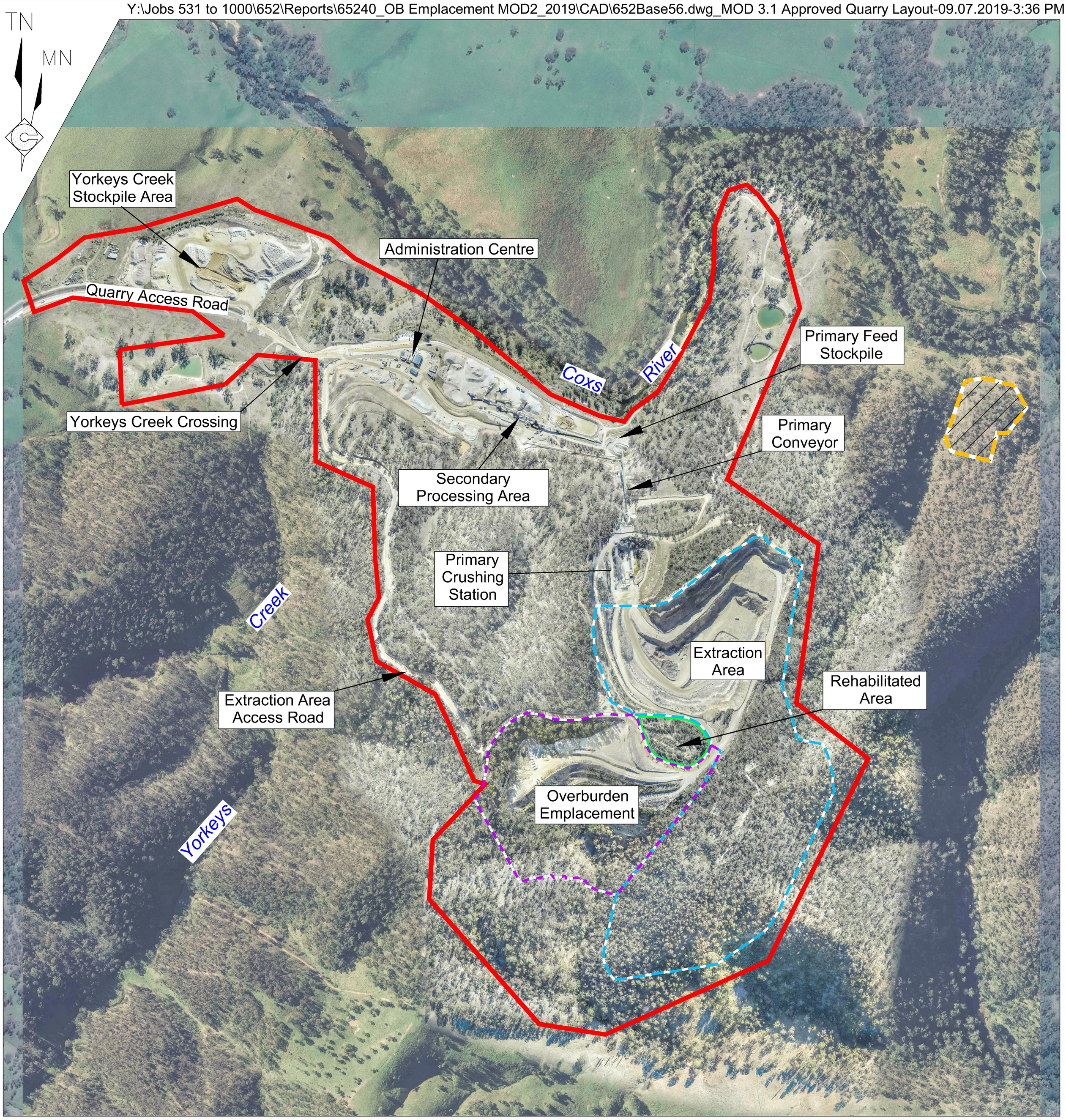
I trust the above provides you with the information and rationale you require to consider this approach to ongoing landscape management at the Austen Quarry. The intention of this approach is to permit Hy-Tec to continue to safely develop the Quarry, without the need for regular modifications to development consent based on changes to an indicative design.

Should you have any questions on the above, please contact myself or Amanda Croker at Hy-Tec.

Yours sincerely

Nick Warren
Principal Environmental Consultant

Copy: Hy-Tec



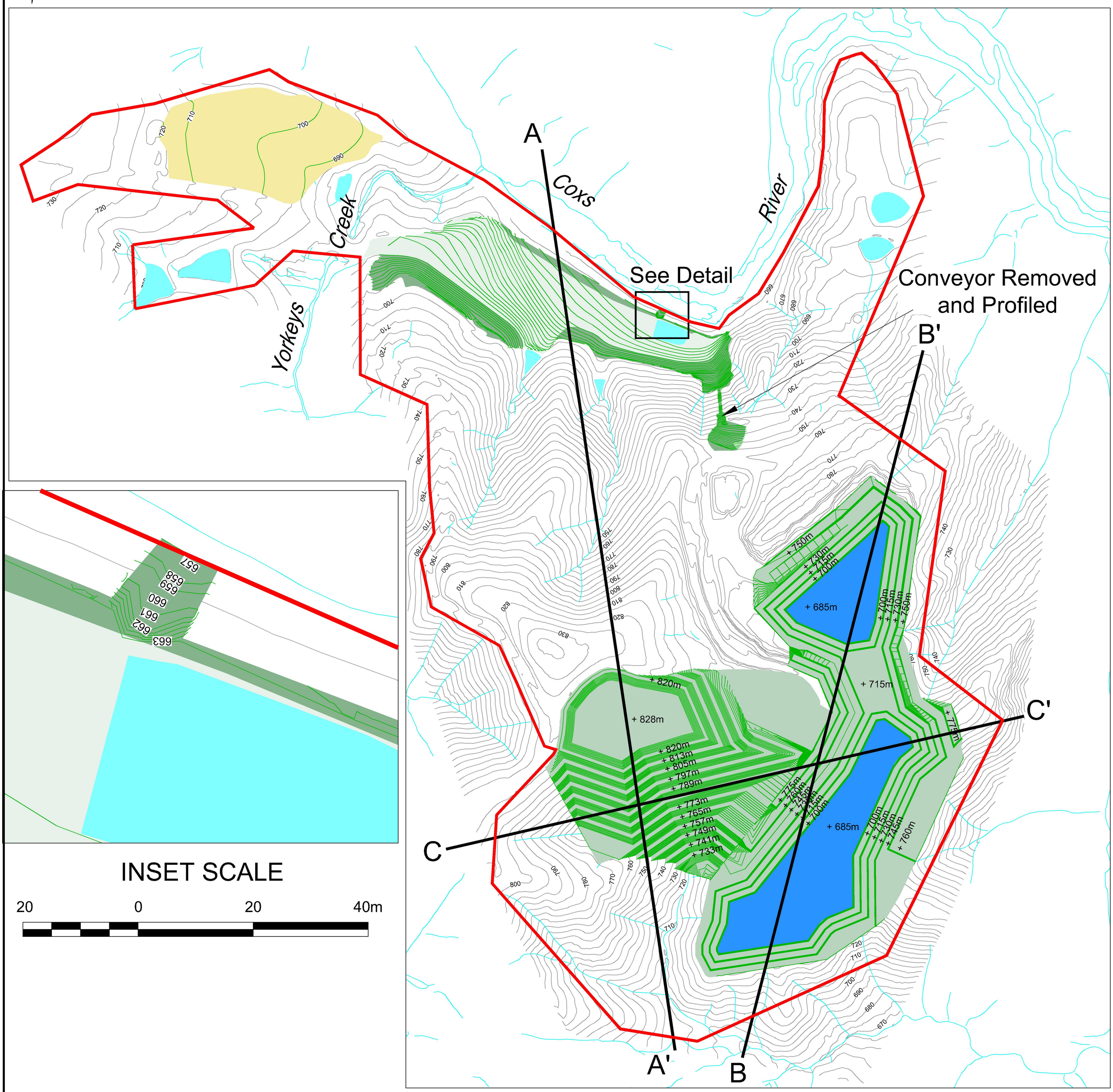
Note: Some boundaries are coincident

REFERENCE
- Quarry Site Boundary
- Extraction Area Boundary
- Overburden Emplacement Area Boundary
- Rehabilitated Area (Offset for Clarity)
- Conservation Area H

SCALE (A4)

200 0 200 400 600 m

Quarry Plan Source: Groundwork Plus - January 2019
Base Photograph Source: CEH Survey - May 2017 & Google Earth - October 2016 (surrounds)



REFERENCE

- Quarry Site Boundary
- 720 Existing Contour (m AHD)(Interval = 5m)
- 720 Final Landform Contour (m AHD)(Interval = 1m and 2m)
- Creek
- Water Storage
- Selected Sections

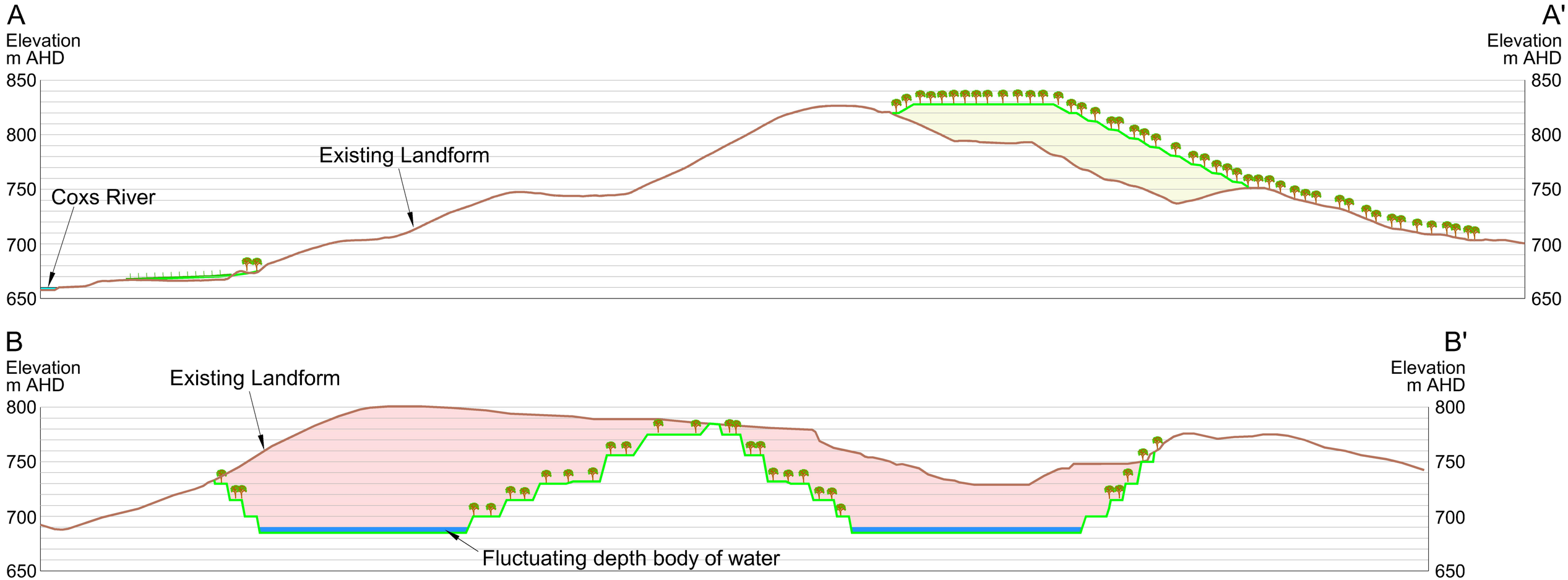
Rehabilitation

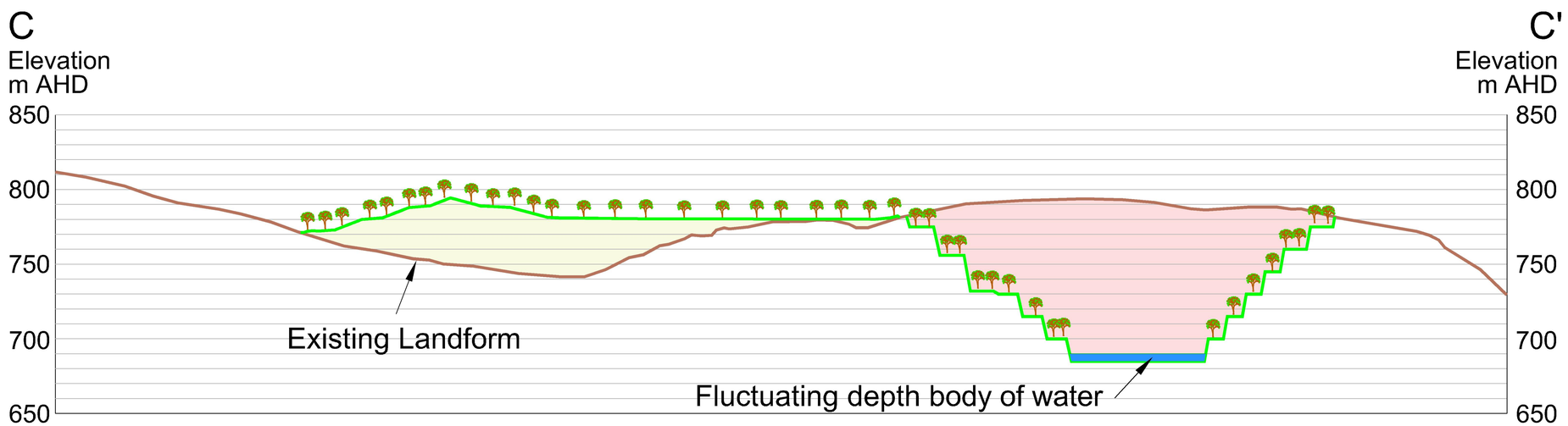
- Woodland
- Open Woodland / Grassland Vegetation
- Pasture
- Fluctuating depth body of water

SCALE 1:12 000 (A4)

200 0 200 400 600 m

Base Source: CEH Survey - May 2017
Overburden Design Source: Groundworks Plus (2019)

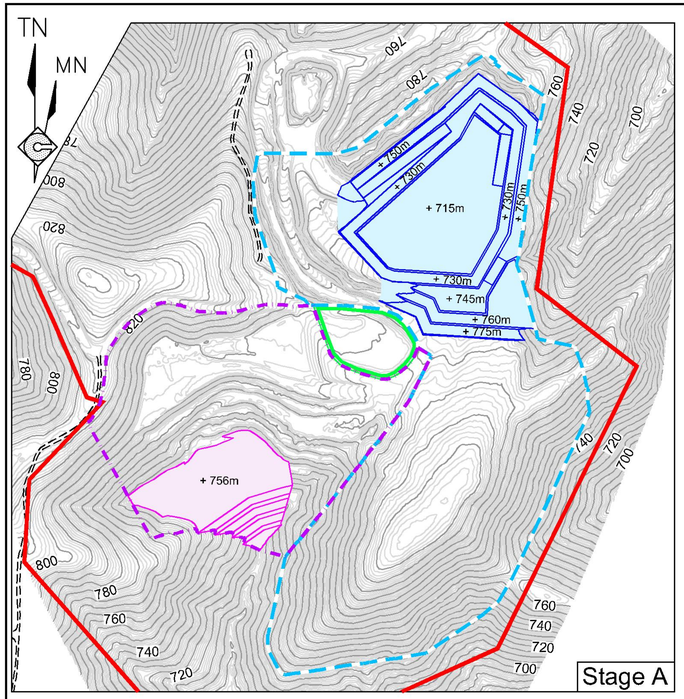


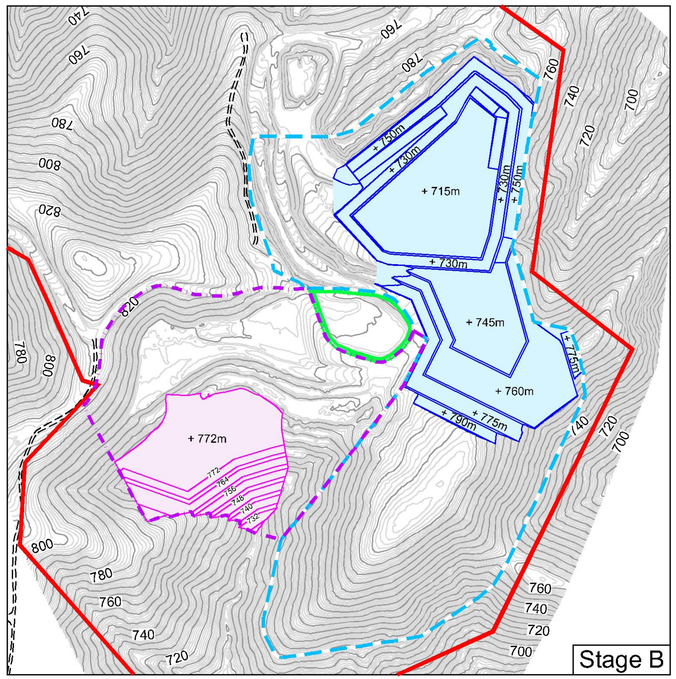


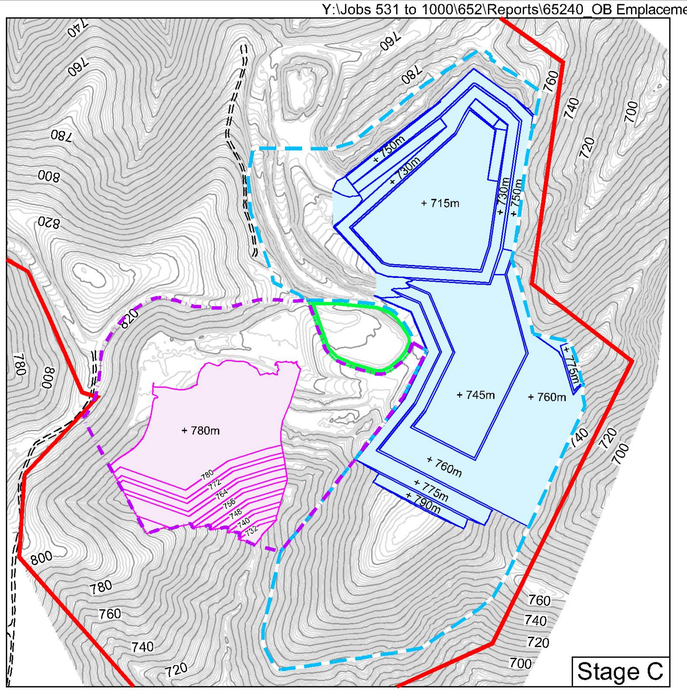
REFERENCE
- Existing Landform
- Final Landform
- Extraction Area
- Overburden Emplacement
- Woodland / Forest
- Grassland
- Fluctuating depth body of water

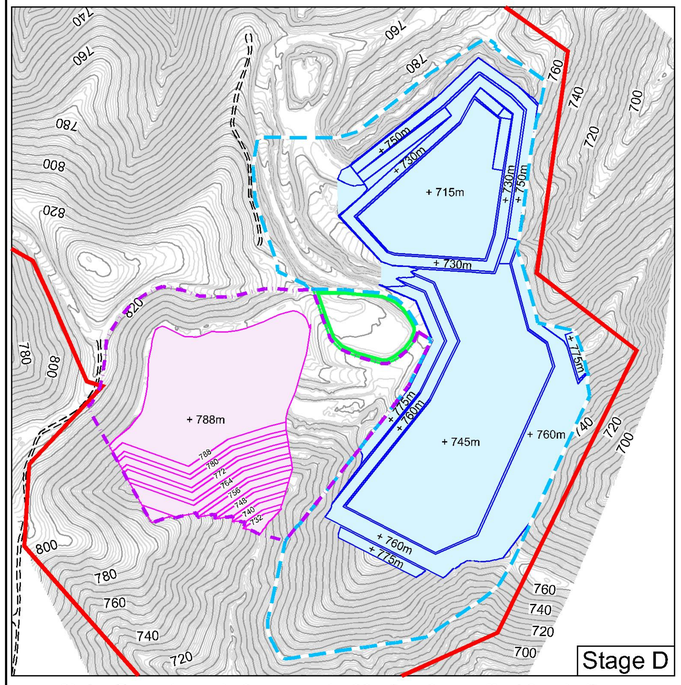
SECTION SCALE 1:6 000 (A4)
No Vertical Exaggeration

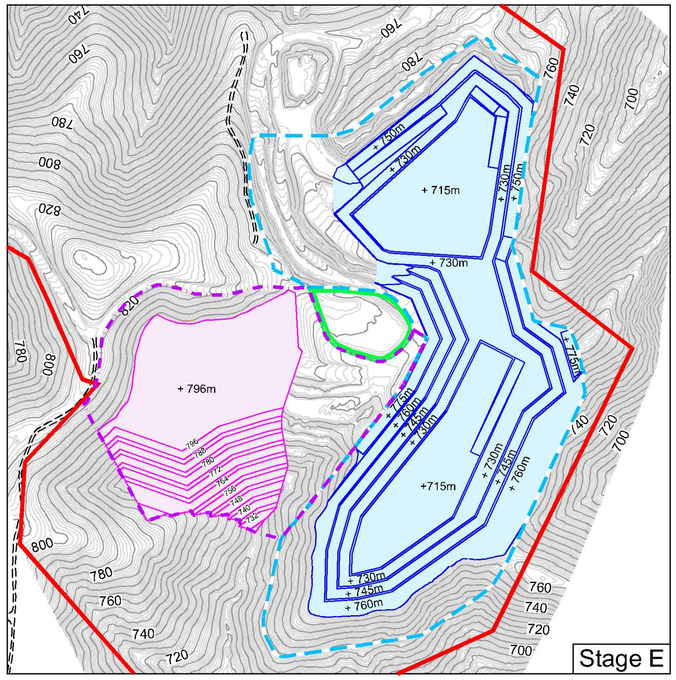
100 0 100 200 300 m

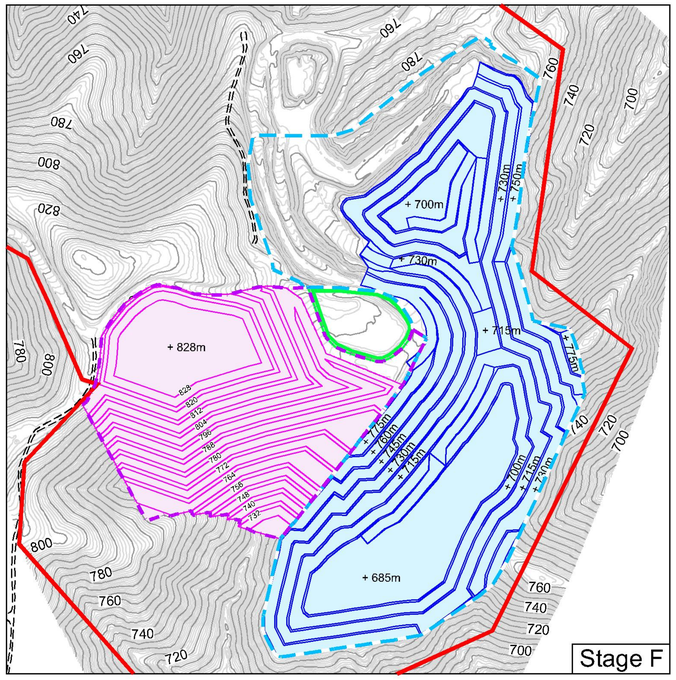












REFERENCE
- Quarry Site Boundary
- Extraction Area Boundary
- Overburden Emplacement Area Boundary
- Extraction Face
- Emplacement Batter
- 820 Existing Contour (m AHD)(Interval = 1m)
- 820 Proposed Contour (m AHD)(Interval = 2m)
- +770 Spot Height (m AHD)
- Unsealed Road / Track
- Rehabilitated Area (Offset for Clarity)
- Sediment Basin

Note: Some boundaries are coincident and are offset for clarity

PLAN SCALE 1:10 000 (A3)

100 0 100 200 300 400 500 m

Quarry Design Source: Groundwork Plus