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Appendix F

Quarry Restoration Plan

(Source: Appendix E.2 - AESNP Hydropower Facility

EIA, March 2001)

APPENDIX E.2

QUARRY RESTORATION PLAN (BEC)

The quarry site requires rehabilitation in order to leave it in an environmentally acceptable state. In order for this rehabilitation to take place the final shaping of the quarry slopes must conform to a rehabilitation design. The aim of the rehabilitation will be to re-vegetate the exposed rock slopes, create a wetland interface and lake zone.

Quarry Preparation

The topsoil and subsoil from the quarry area is to be stockpiled for use in the re-instatement of the exposed slopes. The stockpiles are to be vegetated with an annual grass seed to protect them from being washed away during the excavation period.

Slopes

The slopes created by the shaping exercise need to be such that the area can be vegetated. The exposed rock slope should be left at 1:2 (or less), the wetland terrace at 50 cm below water level and the flooded quarry becomes part of the lake zone.

Re-vegetation

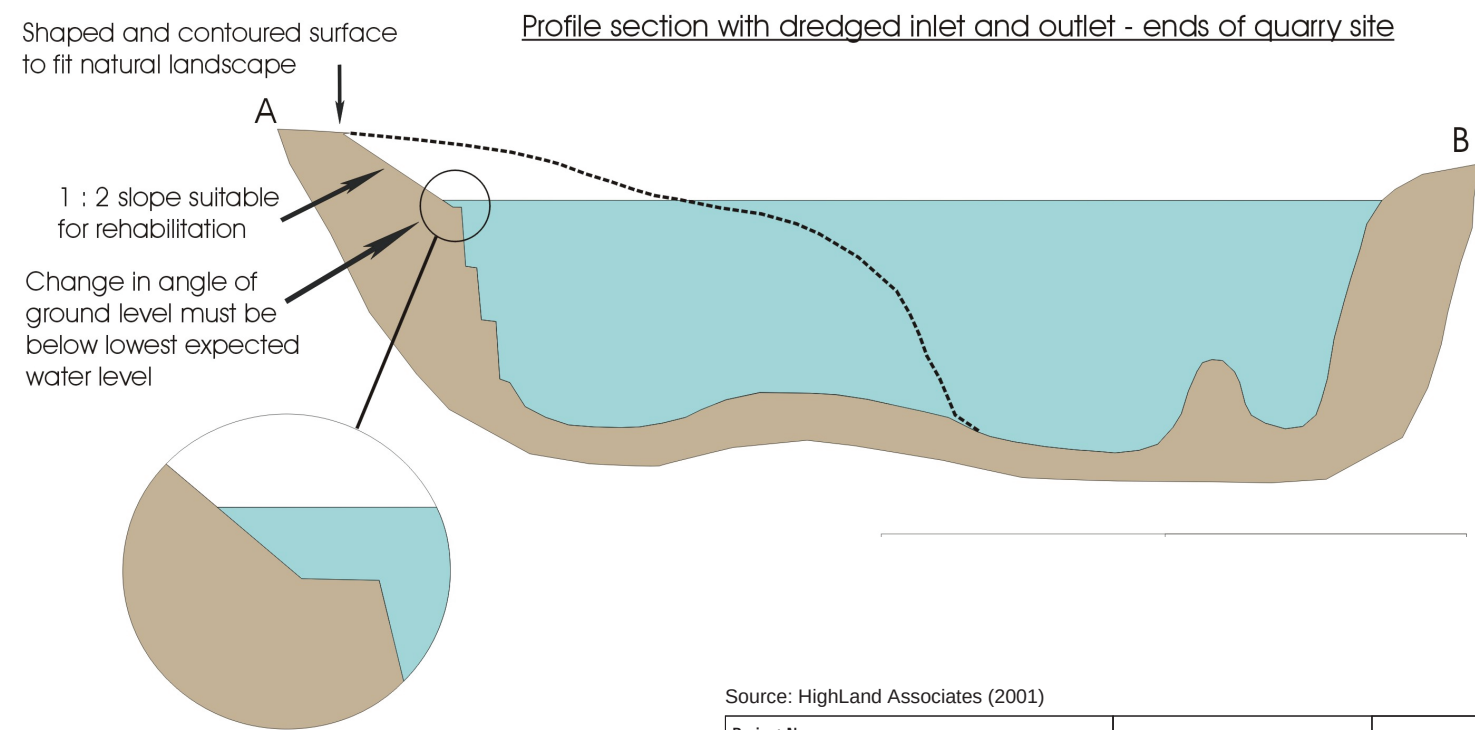
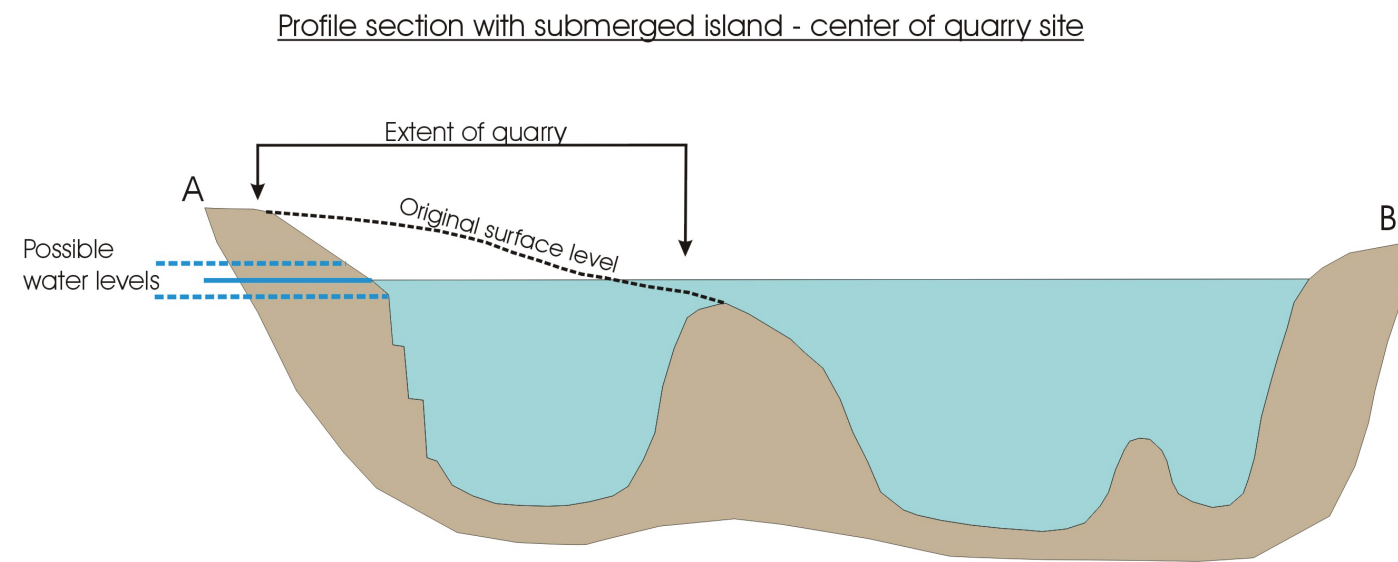
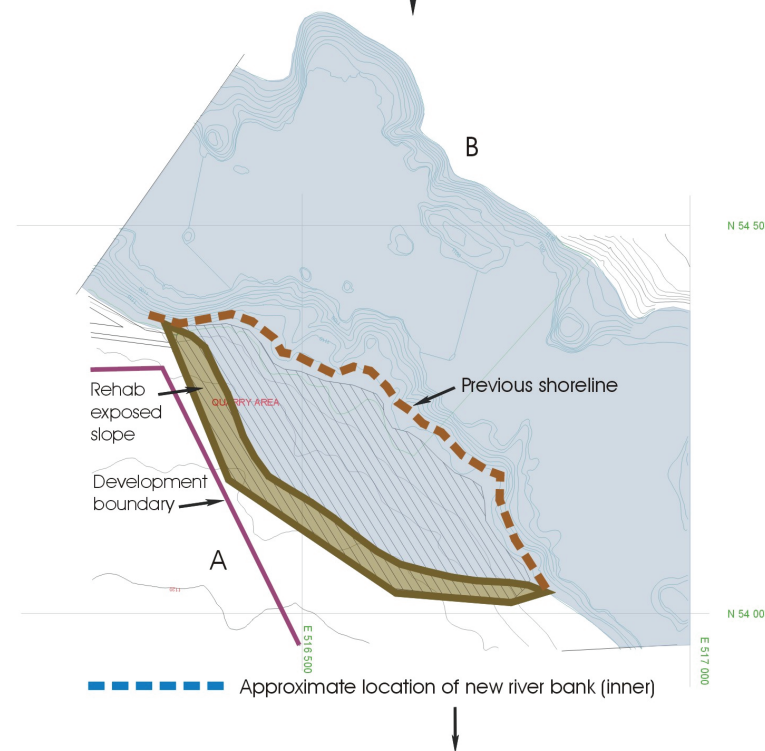
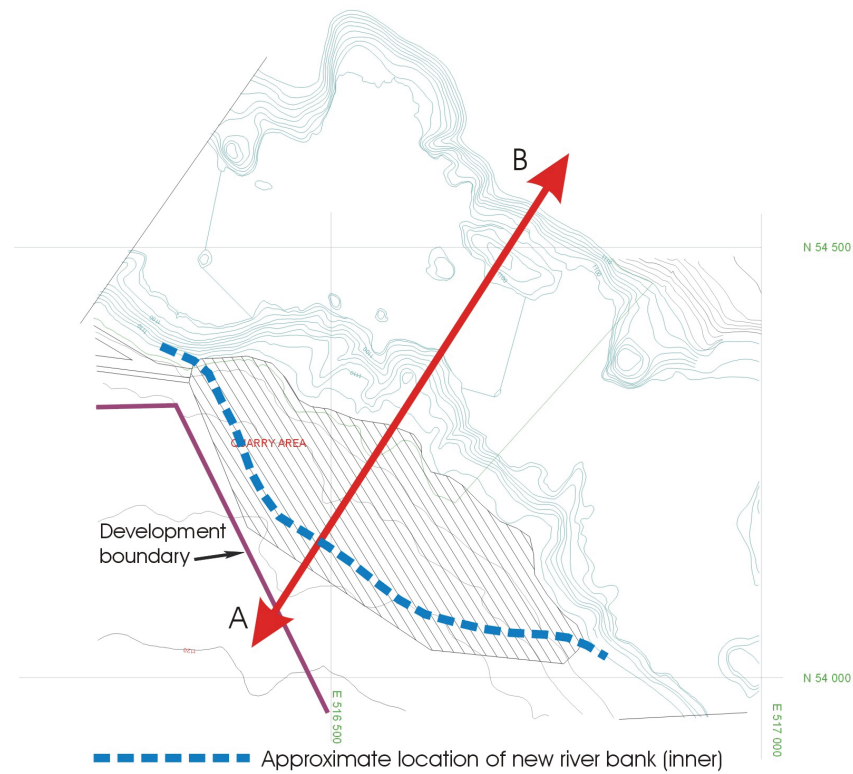
To successfully re-vegetate the slopes, the exposed rock surface will require special attention to allow for its re-vegetation. This is to be achieved by returning the stockpiled subsoil and topsoil, anchoring this soil by means of a geofabric and seeding with local grass and shrub species. It will be necessary to create a good covering of vegetation before the first wet season, to ensure that the slope is stable and not subject to erosion. Protection from erosion caused through high-intensity/short-duration rainfall will be necessary. The area between the quarry limits and the property boundary (development area) is to be rehabilitated using indigenous grasses, shrubs and trees.

Wetland reinstatement

The shallow rock terrace at the waters edge will allow for the creation of a wetland zone, which will act as additional habitat creation. The shelf is to be left at a level of approximately 50cm (below water level). Topsoil is to be placed onto the shelf and should initially be secured through a geofabric, to prevent wash away on flooding, until the vegetation has had a chance to bind the soil in place. Stabilizing seeds from local water loving grasses should be used and in time natural succession of wetland plants will take place.

Lake zone

The balance of the quarry site is to be flooded to form a lake zone which will add to the area available for the shelter of juvenile fish, and breeding adult fish.



Source: HighLand Associates (2001)

Project Name: BUJAGALI HYDROPOWER PROJECT SEA	Date: December, 2006	10045-H-57	Figure F
Prepared for: BUJAGALI ENERGY LIMITED	QUARRY SITE POSSIBLE REHABILITATION SCENARIOS		

Updated by: **BURNSIDE**