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Corangamite Catchment Management Authority and the City of Greater Geelong

A.S. Miner Geotechnical

Case Study for Erosion and Landslides.

Guys Rd Corriemungle (Pau's)

Report No: 356.3/12/06

INCOMPLETE

Prepared for Troy Clarkson

Department of Primary Industries

PO Box 103

Geelong, VIC 3220

and

Leigh Dennis

Corangamite Catchment Management
Authority

64 Dennis Street

Colac, VIC 3250

1. Site Description

1.1 Site I.D.

356.3/12

1.2 Site address

Guys Road, Corriemungle (The Heytesbury). John Pau's property

1.3 Brief site description and general overview

1.4 Map datum/ Map projection/ Zone

WGS84 Zone 54

1.5 Easting

E 685953

1.6 Northing

N 5733556

1.7 Municipality

Corangamite

1.8 CCMA landscape zone

Curdies

1.9 Previous ID

1-Slide 212 Buenen

2_WF5089

1.10 Previous Data Source

1_ BUENEN B.J. 1995. Soil slope failure processes in the Heytesbury Region. B.App.Sci.(Hons) Geology, research thesis, University of Ballarat (unpubl.) 50p.

2-Warren Feltham (2005) CCMA landslide and Erosion Database. Version 2 The University of Ballarat. Geology Department July 2005. Contained in an MapInfo Table entitled "SW_erosion_landslides"

2. Hazard Description

2.1 Soil degradation type

2.2 Soil degradation sub-class

2.3 Description of hazard present on site or threatening site from above or below

2.4 Dimensions of Hazard (width, length and depth if appropriate)

160 m (L) x 320 m (W) x ?? M (D)

2.5 Extent of Hazard (spatial area and volume if appropriate)

5.5 ha from the GIS

2.6 Magnitude of hazard (travel distance or rate of occurrence)

Possibly 30 to 50 metres

2.7 List previous reports or studies relevant to this site

None known

2.8 Custodian of previous reports and studies

NA

3. The Event Has Already Occurred

3.1 Date of first occurrence

Andrew McLennan to confirm

3.2 Date of most recent re-activation or acceleration

Andrew McLennan to confirm

3.3 Actual or postulated trigger event including magnitude and duration

Andrew McLennan to confirm

3.4 Frequency of Trigger Event if known

Andrew McLennan to confirm

3.5 What damage or impact occurred?

Severe disruption to dairying land and some damage to fencing? Andrew McLennan to confirm

3.6 Was there a risk of injury or loss of life?

Very minor risk to farmer driving over the edge of slide after it occurred.

3.7 How important was it?

Moderately important to the land owner but not significant in terms of environmental or water quality issues.

3.8 What asset classes were impacted?

Land Use

3.9 What asset sub classes were impacted?

Dairy

3.10 What are the asset values?

Relative asset value=1

3.11 How severely were assets impacted?

The disruption to land was significant enough to preclude most treatments and has meant this portion of the farm is now unusable

3.12 Estimated cost of impact (including qualitative and quantitative costs for loss of asset, investigations, remedial works, cultural, business and environment)

The estimated 5.5 ha represents a possible loss of \$52,600 in terms of actual land prices based on an average price of \$9,600/ha

There is also additional fencing estimated to be approximately 1200m representing a cost of \$6,000 at \$5/m

4. Remediation Has Already Been Undertaken

4.1 What remediation option was used?

Jock_ I believe a trench type drain has been installed at the top of the site and some regrading has been undertaken or is proposed. No planting to date but fencing has been undertaken

4.2 How was the site initially assessed?

Andrew McLennan to confirm

4.3 How was the remediation designed and by Who?

Andrew McLennan to confirm

4.4 Did it require specialist equipment or subcontractors?

Unlikely

4.5 How effective has the remediation been?

Andrew McLennan to confirm

4.6 How was the effectiveness judged?

Unknown

4.7 Would other treatments worked here?

NA

4.8 Was it early intervention or reactive?

Reactive

4.9 What was the cost of remediation (including design, construction and implementation)?

Andrew McLennan to confirm

4.10 How was the remediation funded?

Unknown

5. Ongoing Review and Monitoring Requirements

5.1 What is the likely ongoing monitoring and review strategy?

None is probable at this site

5.2 What is the nature of future monitoring and maintenance?

NA

5.3 What are the likely costs of monitoring and maintenance?

NA

Photos



Photo 1 John Pau's Property sometimes referred to as "Sliding Slopes" taken in Aug 2006 during a reconnaissance inspection of The Heytesbury

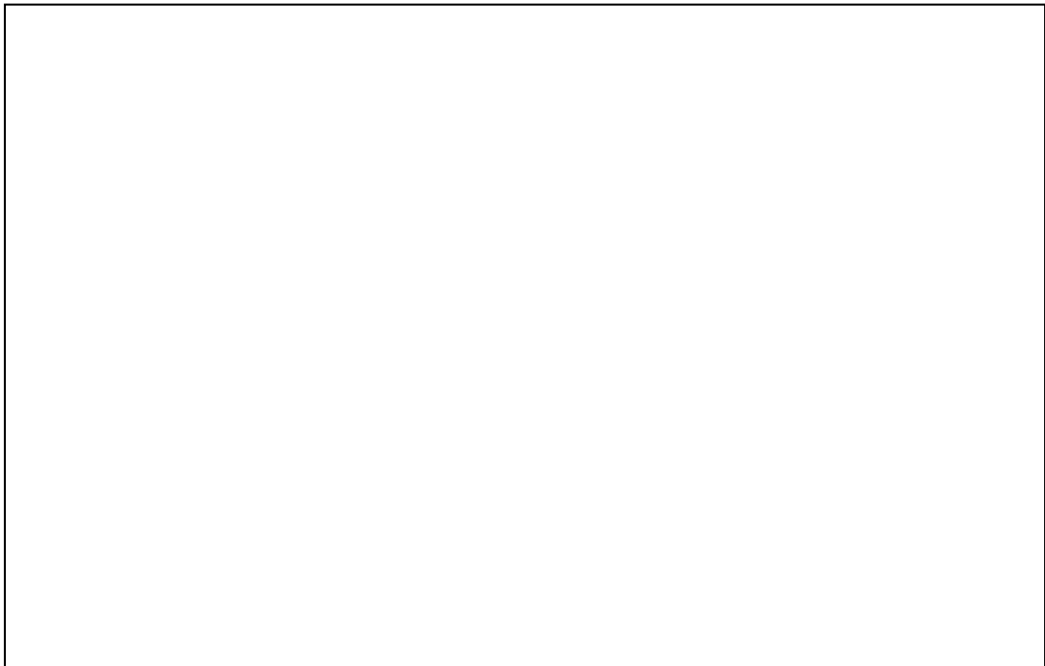


Photo 2

Sketches and Drawings