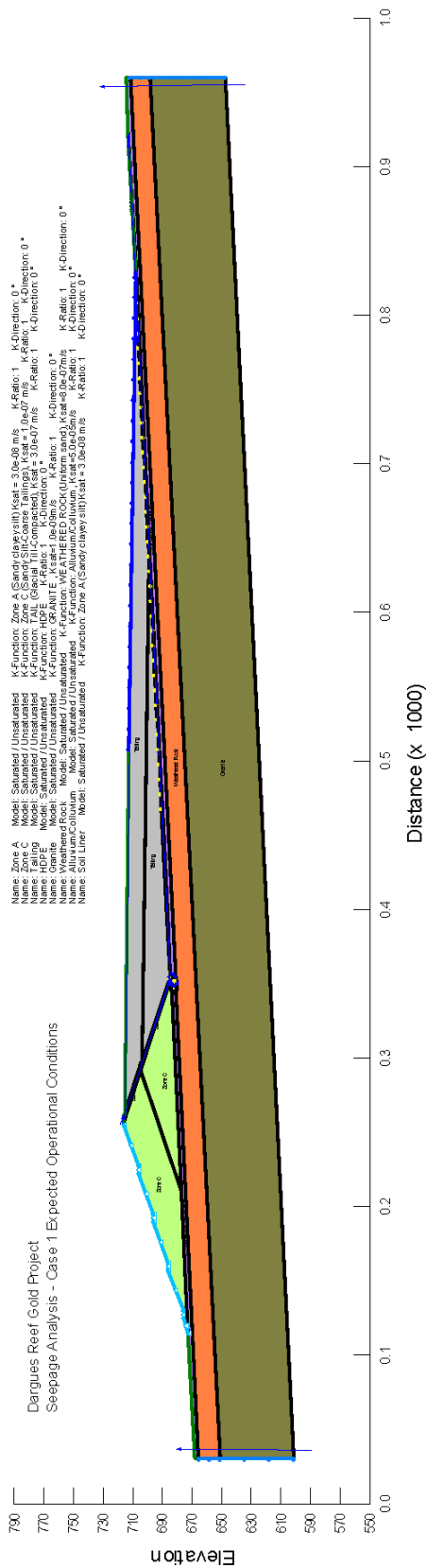
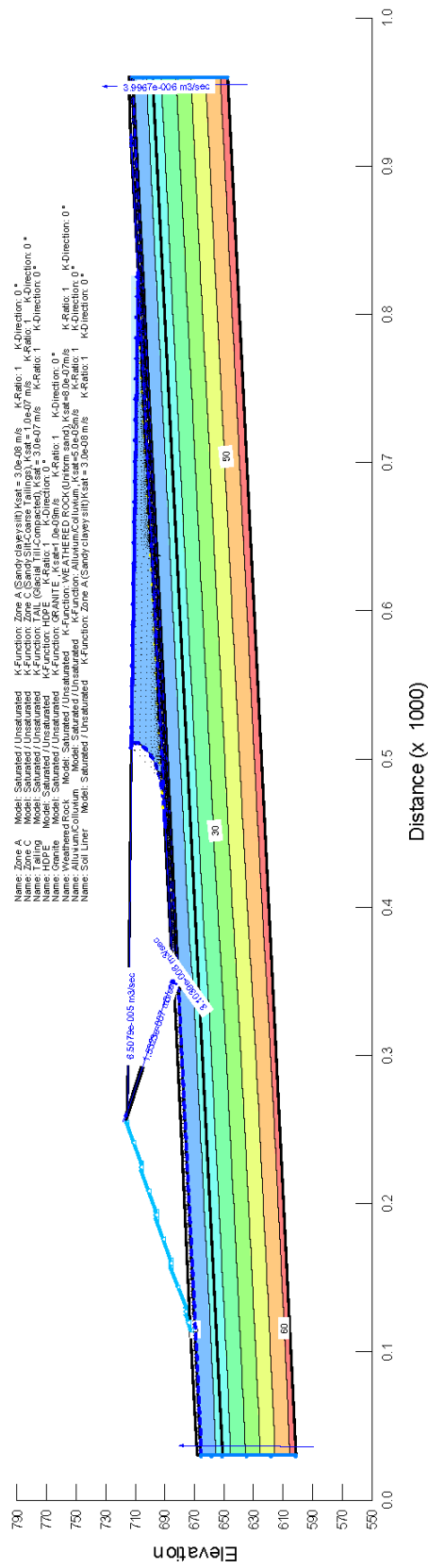


Ref: PE801-00139/10  
Figure 4.6

DARQUES GOLD PROJECT  
DILUTION ASSESSMENT  
SUB-CATCHMENT DE-LINEATION MAP

**Knight Piésold**  
CONSULTING





Ref: PE801-00139/10  
Figure 5.2

DARGUES GOLD PROJECT  
SEEPAGE ANALYSIS  
EXPECTED OPERATIONAL CONDITION

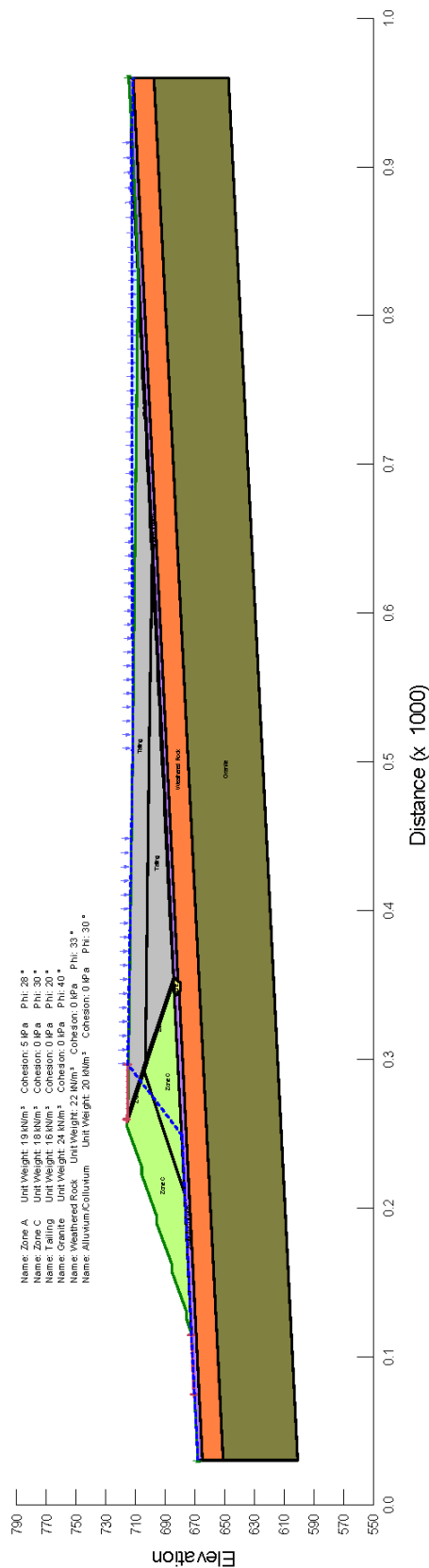
Knight Piésold  
CONSULTING







**DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
MODEL SECTION – STAGE 1**



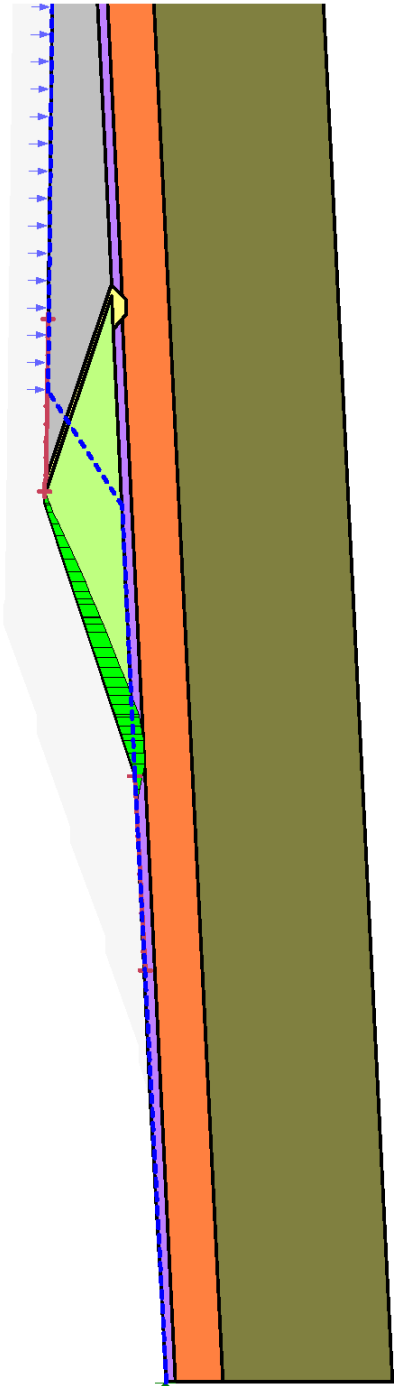
Ref: PE801-00139/10  
Figure 5.5

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
MODEL SECTION – FINAL STAGE

**Knight Piésold**  
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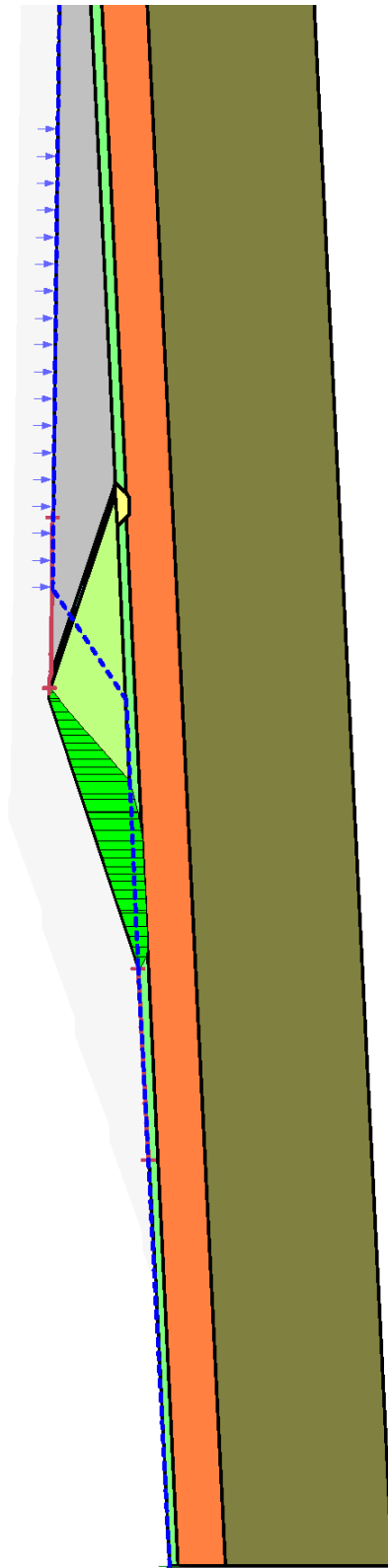
Name: Zone A    Unit Weight: 19 kN/m<sup>3</sup>    Cohesion: 5 kPa    Phi: 28°  
Name: Zone C    Unit Weight: 18 kN/m<sup>3</sup>    Cohesion: 0 kPa    Phi: 30°  
Name: Tailing    Unit Weight: 16 kN/m<sup>3</sup>    Cohesion: 0 kPa    Phi: 20°  
Name: Granite    Unit Weight: 24 kN/m<sup>3</sup>    Cohesion: 0 kPa    Phi: 40°  
Name: Weathered Rock    Unit Weight: 22 kN/m<sup>3</sup>    Cohesion: 0 kPa    Phi: 33°  
Name: Alluvium/Colluvium    Unit Weight: 20 kN/m<sup>3</sup>    Cohesion: 0 kPa    Phi: 30°

1.72



Name: Zone A	Unit Weight: 19 kN/m <sup>3</sup>	Cohesion: 5 kPa	Phi: 28 °
Name: Zone C	Unit Weight: 18 kN/m <sup>3</sup>	Cohesion: 0 kPa	Phi: 30 °
Name: Tailing	Unit Weight: 16 kN/m <sup>3</sup>	Cohesion: 0 kPa	Phi: 20 °
Name: Granite	Unit Weight: 24 kN/m <sup>3</sup>	Cohesion: 0 kPa	Phi: 40 °
Name: Weathered Rock	Unit Weight: 22 kN/m <sup>3</sup>	Cohesion: 0 kPa	Phi: 33 °
Name: Alluvium/Colluvium Undrained	Unit Weight: 20 kN/m <sup>3</sup>	Tau/Sigma Ratio: 0.3	Minimum Strength: 30
Name: Zone A Undrained	Unit Weight: 19 kN/m <sup>3</sup>	Tau/Sigma Ratio: 0.3	Minimum Strength: 50

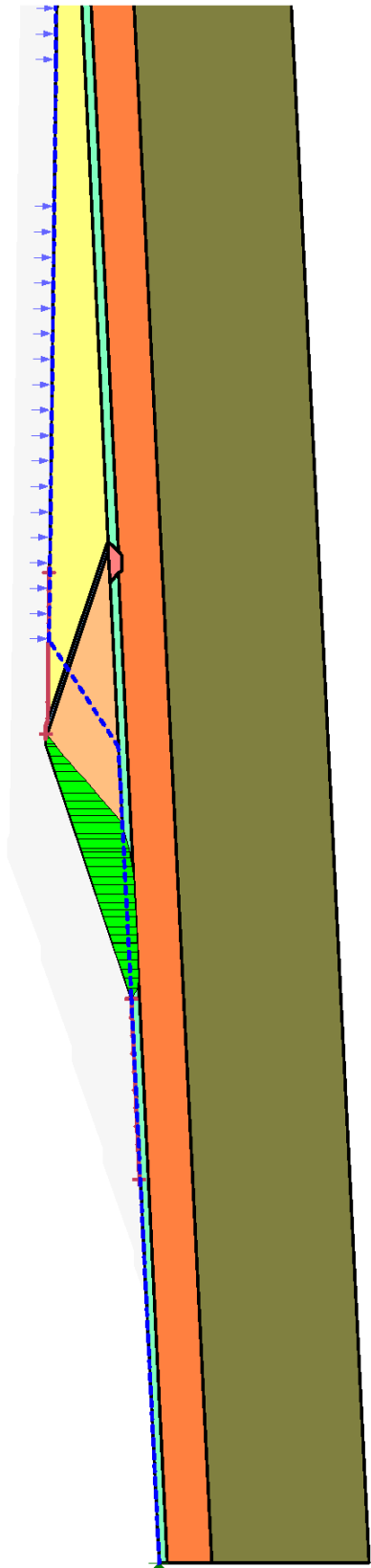
1.30

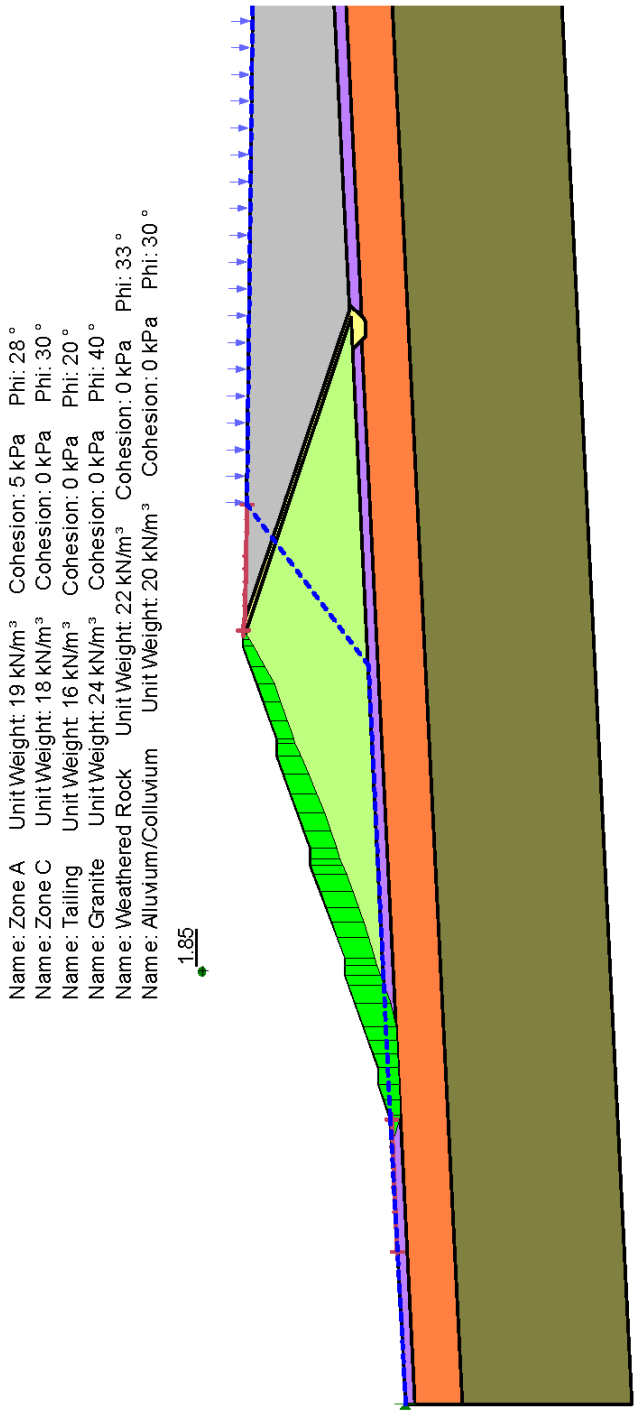




Name: Granite Unit Weight: 24 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 40°  
Name: Weathered Rock Unit Weight: 22 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 33°  
Name: Zone A 80% Unit Weight: 19 kN/m<sup>3</sup> Cohesion: 4 kPa Phi: 23°  
Name: Zone C 80% Unit Weight: 18 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 25°  
Name: Tailing Liquefied Unit Weight: 16 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 5°  
Name: Alluvium/Colluvium Undrained 80% Unit Weight: 20 kN/m<sup>3</sup> Tau/Sigma Ratio: 0.24 Minimum Strength: 24  
Name: Zone A Undrained 80% Unit Weight: 19 kN/m<sup>3</sup> Tau/Sigma Ratio: 0.24 Minimum Strength: 40

1.05

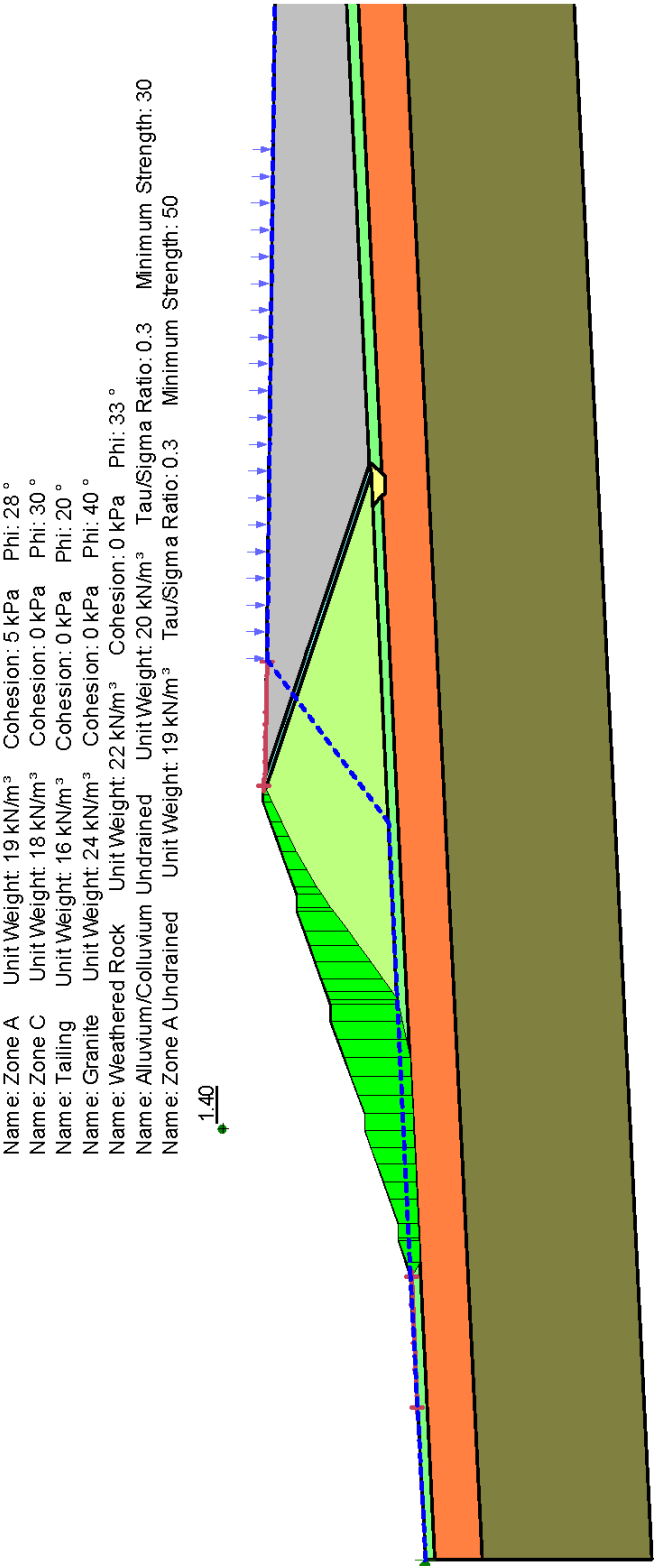




Ref: PE801-00139/10  
Figure 5.9

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
FINAL STAGE - DRAINED

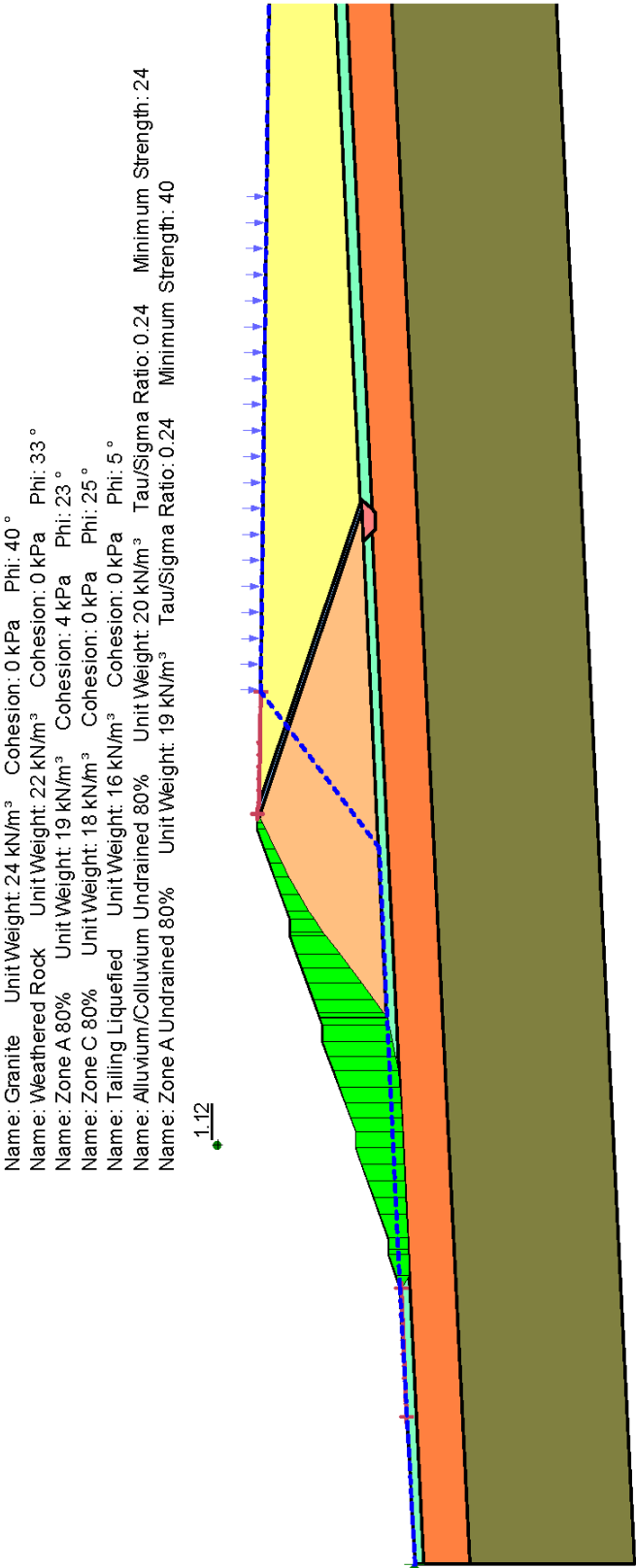
**Knight Piésold**  
CONSULTING



Ref: PE801-00139/10  
Figure 5.10

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
FINAL STAGE - UNDRAINED

**Knight Piésold**  
CONSULTING

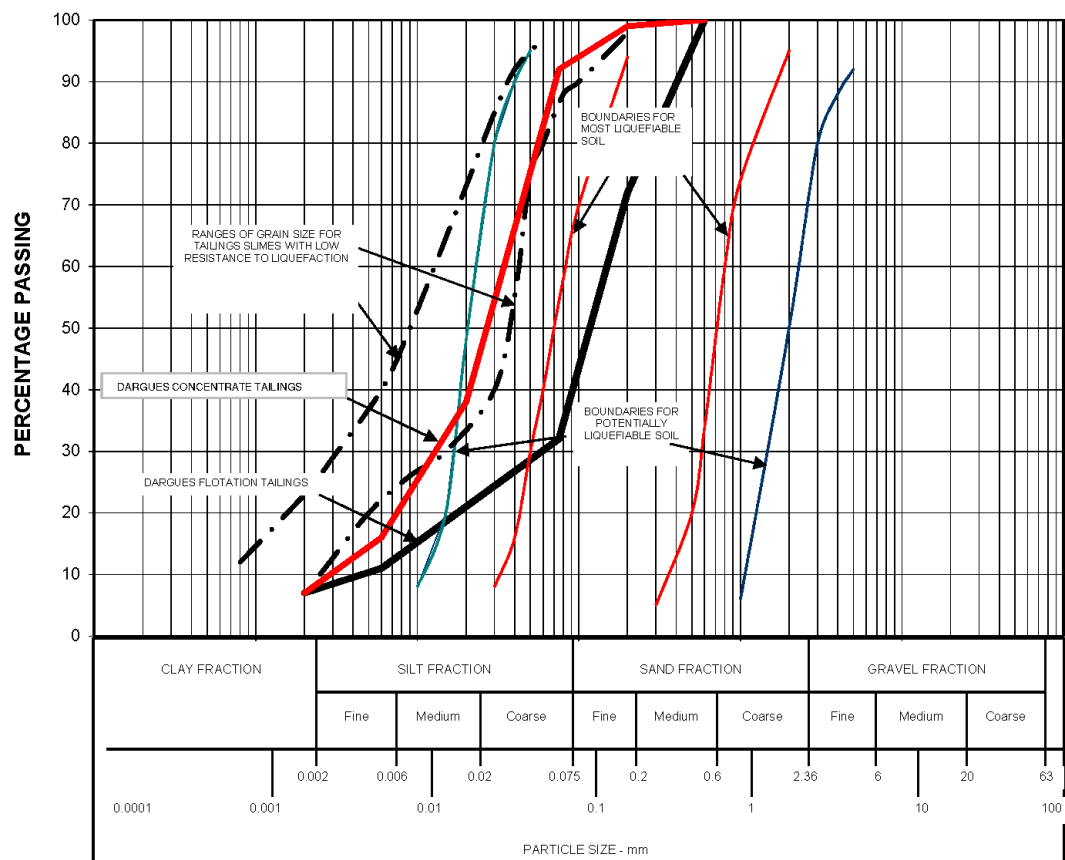


Ref: PE801-00139/10  
Figure 5.11

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
FINAL STAGE – POST SEISMIC

**Knight Piésold**  
CONSULTING





	SOIL DESCRIPTION	LIQUID LIMIT	PLASTICITY INDEX	SPECIFIC GRAVITY
	Dargues Reef - Flotation Tailings Slurry	27	NP	2.71
	Dargues Reef - Concentrate Tailings Slurry	25	7	4.21

DRAWINGS

# DARGUES GOLD PROJECT TAILINGS STORAGE FACILITY

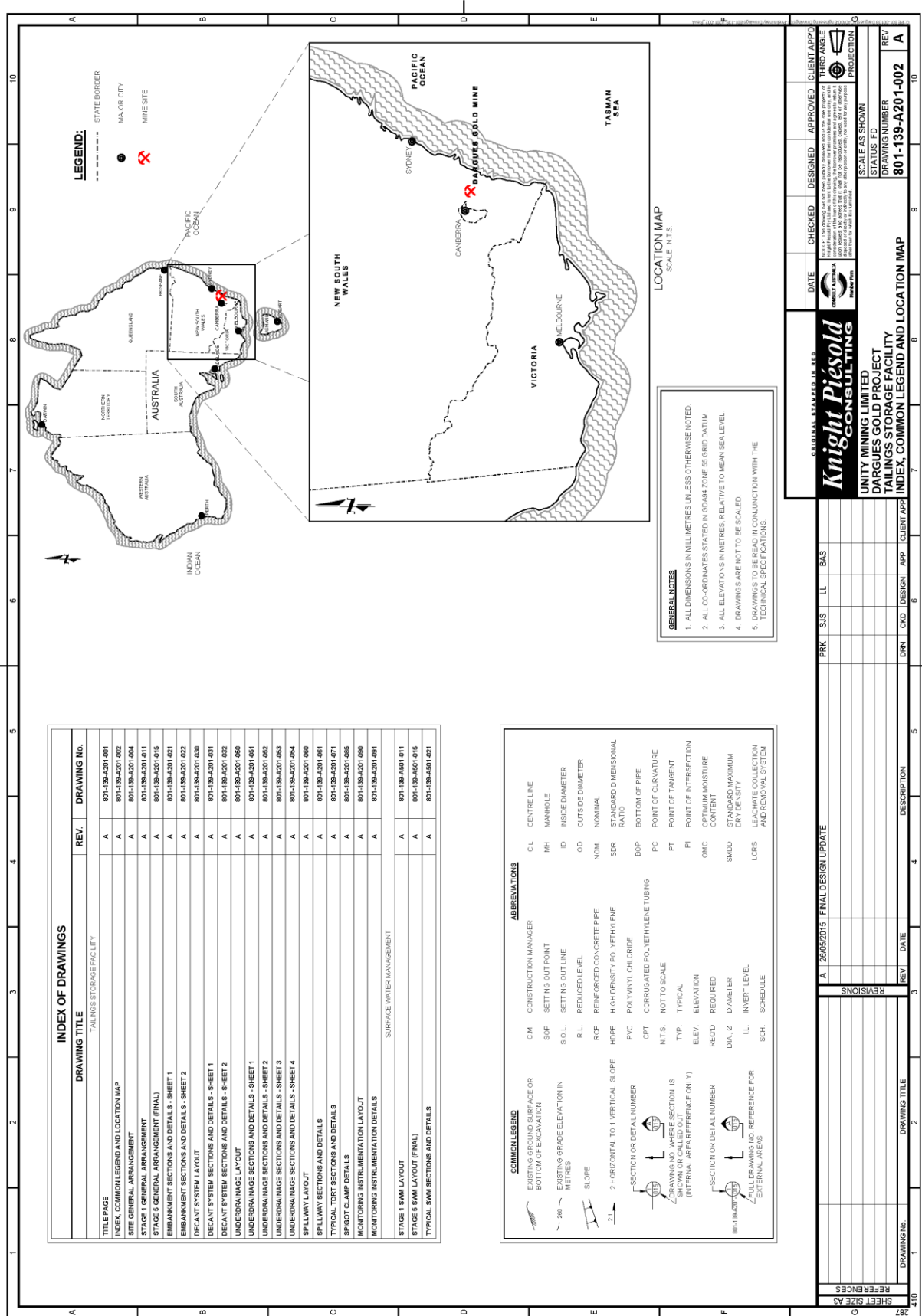
**FINAL DESIGN UPDATE**  
**MAY, 2015**

**Prepared for:**  
**UNITY MINING LIMITED**

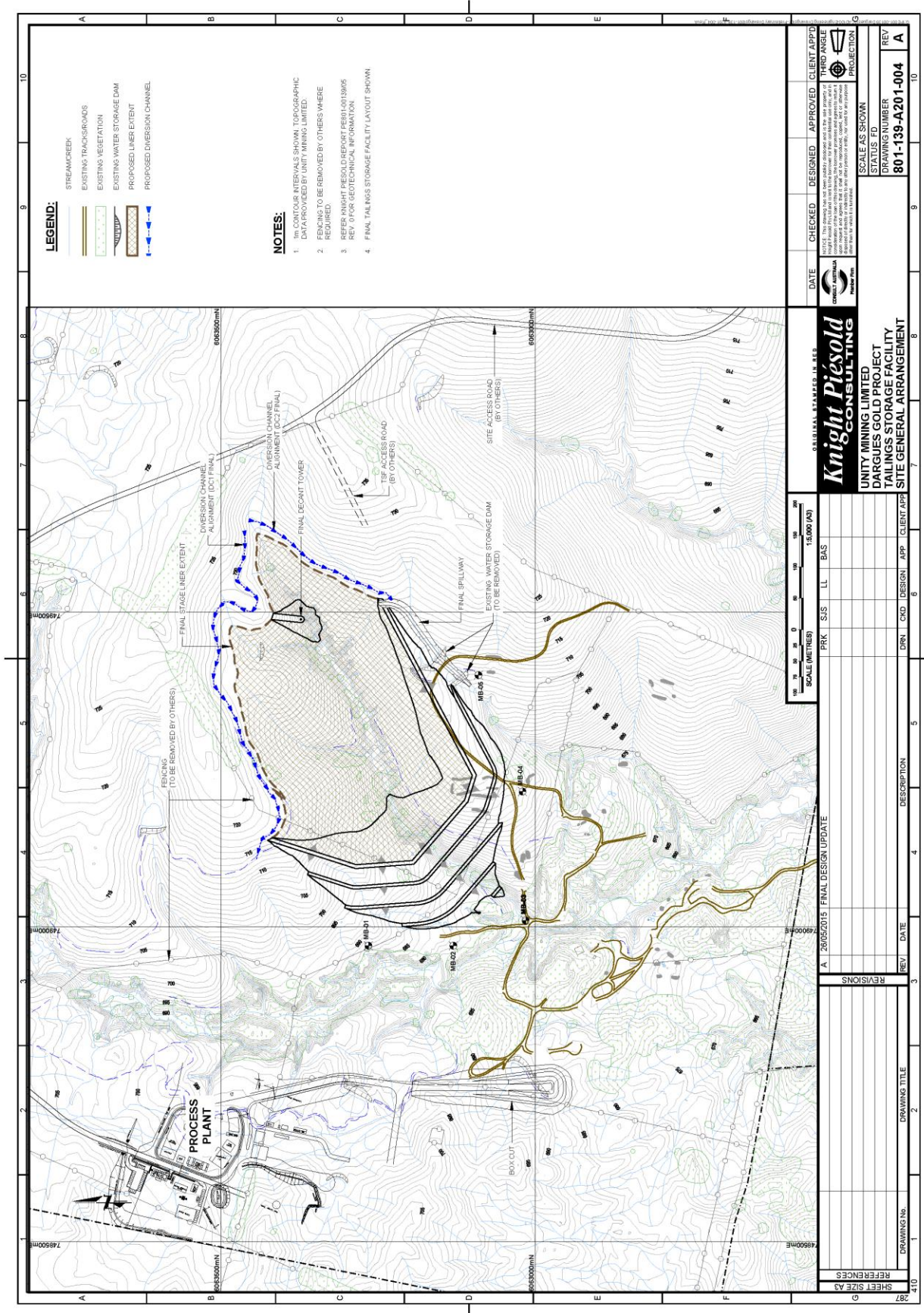
**Prepared by:**  
**Knight Piésold**  
**CONSULTING**

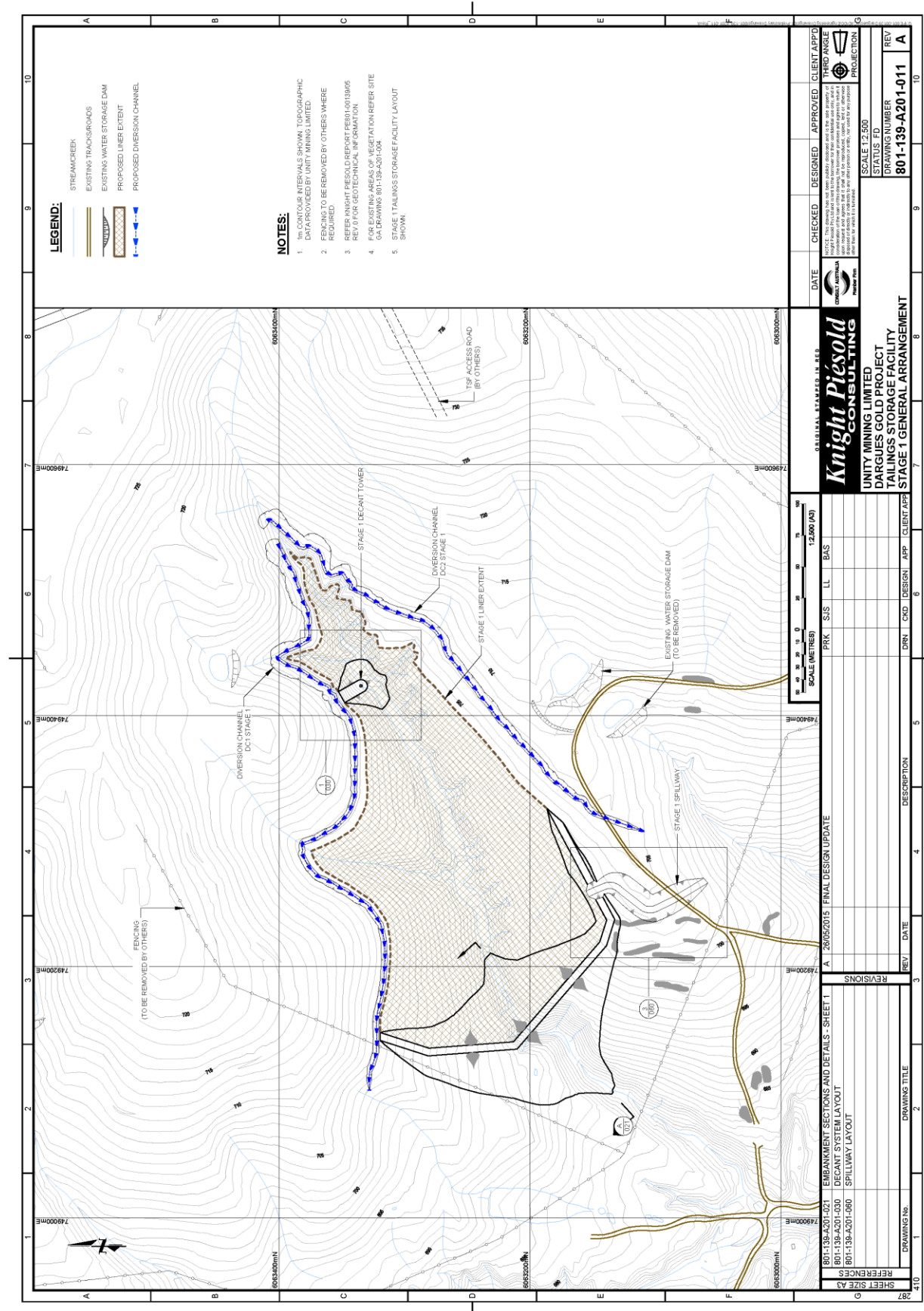
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A.C.N. 001 040 419  
Knight Piésold Pty. Ltd  
Level 1, 184 Adelaide Terrace  
EAST PERTH, WA 6004  
AUSTRALIA

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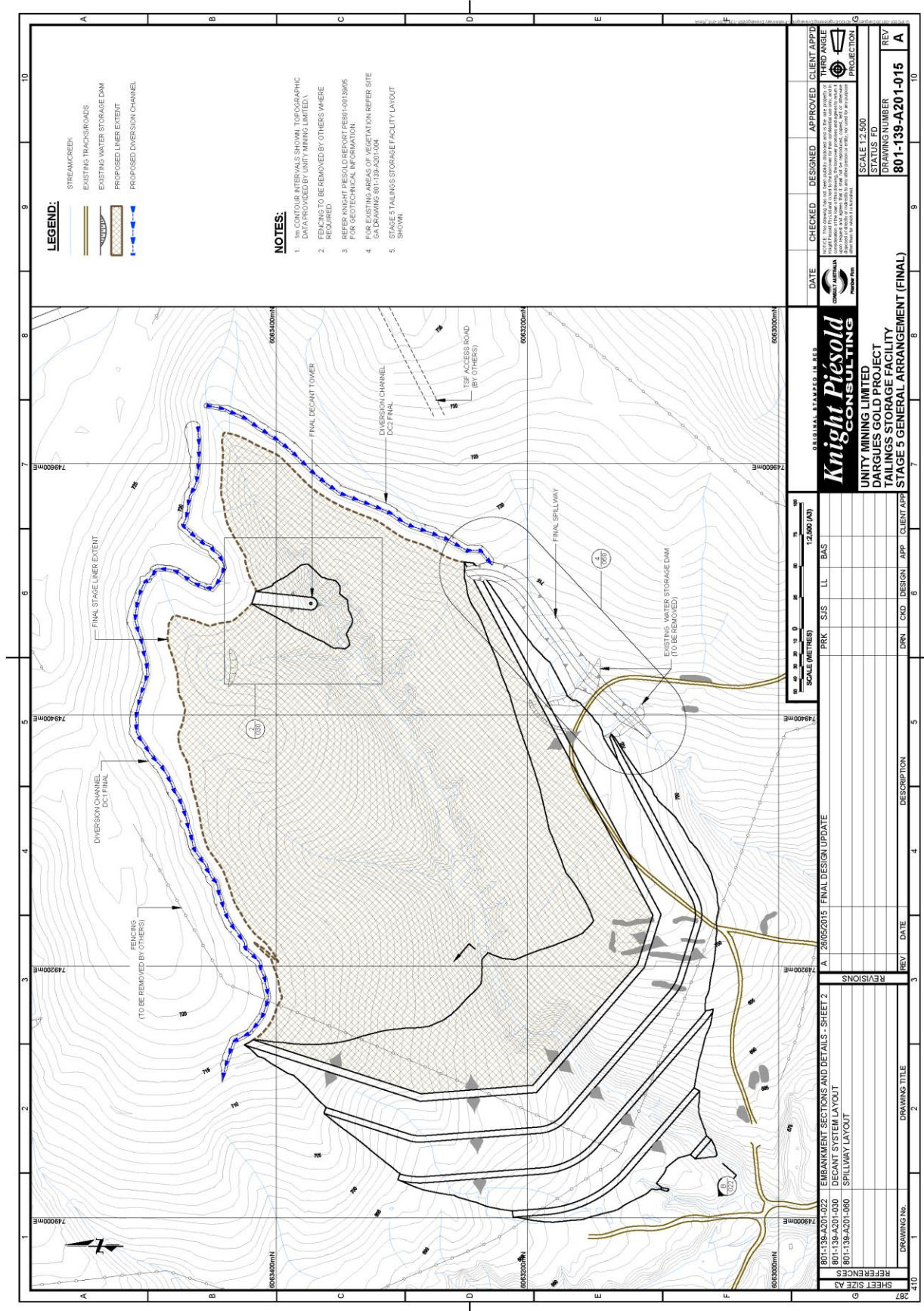


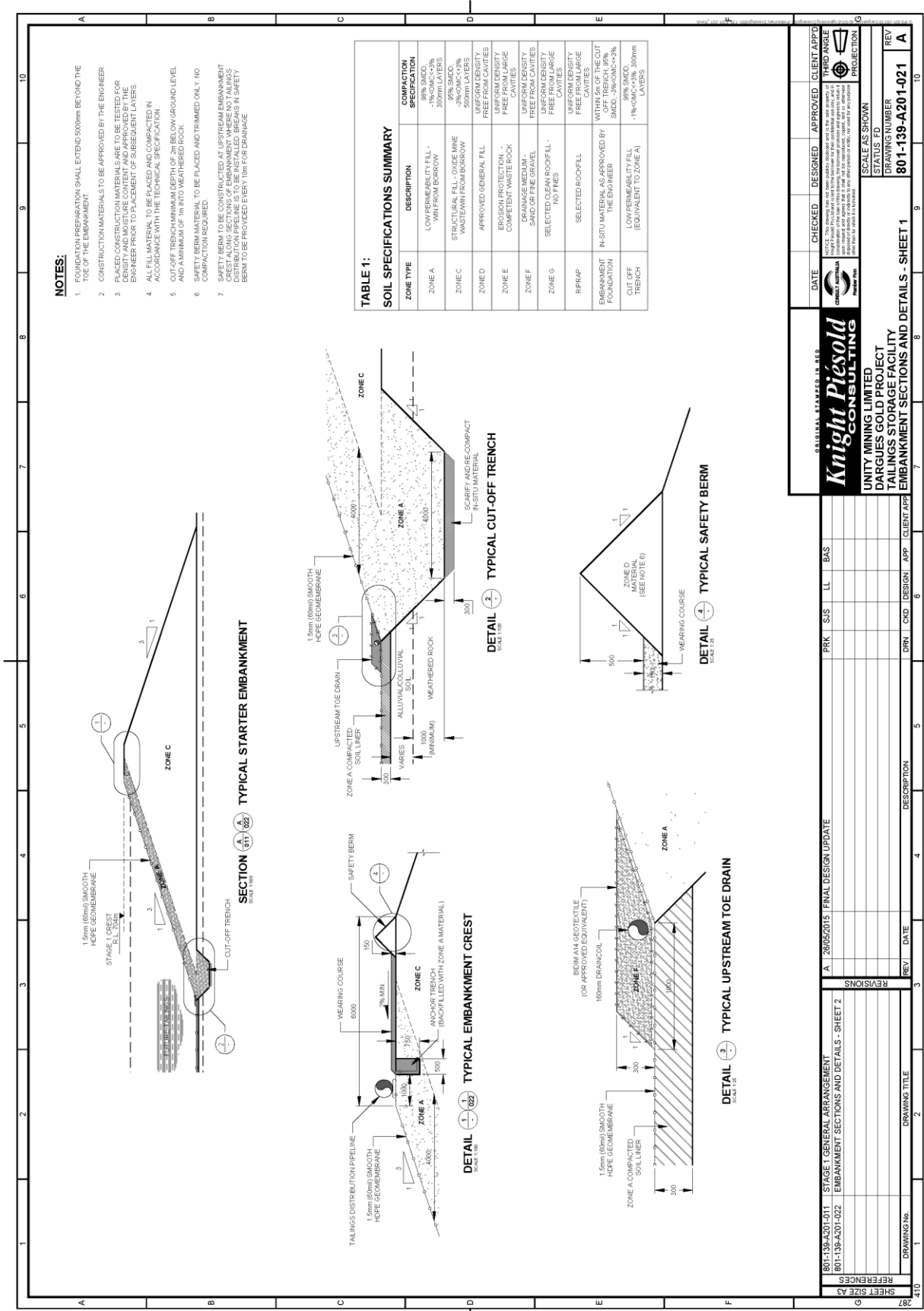
















# ENVIRONMENTAL ASSESSMENT – MODIFICATION 3

Report No. 752/38 – July 2015

Appendix 7

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

