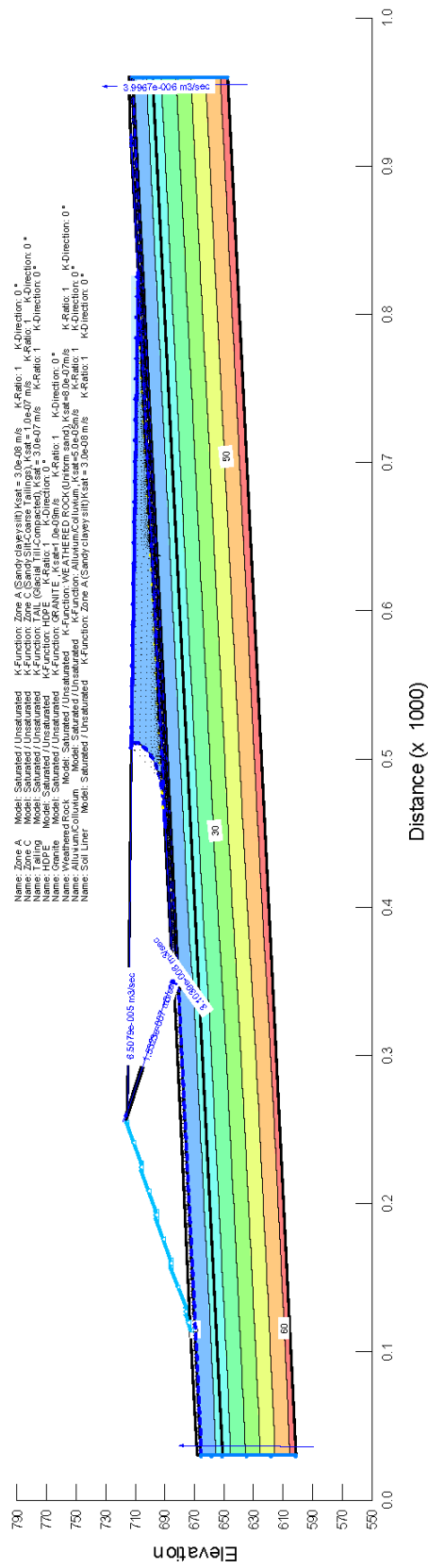


Ref: PE801-00139/10  
Figure 4.6

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

**Knight Piesold**  
CONSULTING

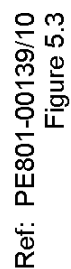




Ref: PE801-00139/10  
Figure 5.2

DARGUES GOLD PROJECT  
SEEPAGE ANALYSIS  
EXPECTED OPERATIONAL CONDITION

Knight Piésold  
CONSULTING

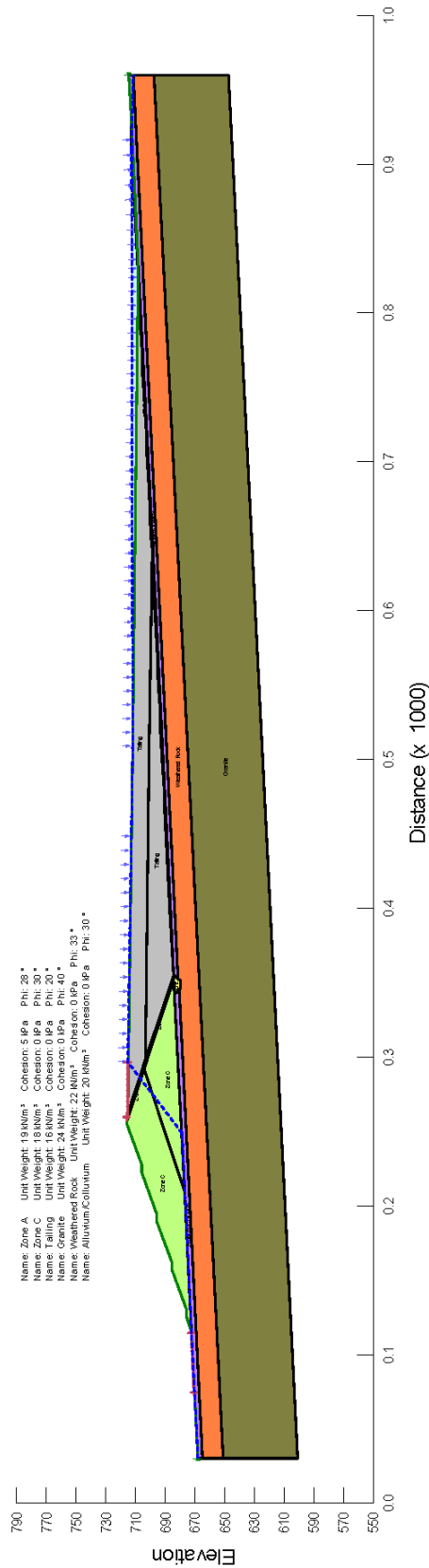


DARGUES GOLD PROJECT  
SEEPAGE ANALYSIS  
UNDERDRAINAGE SYSTEM NOT OPERATIONAL





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



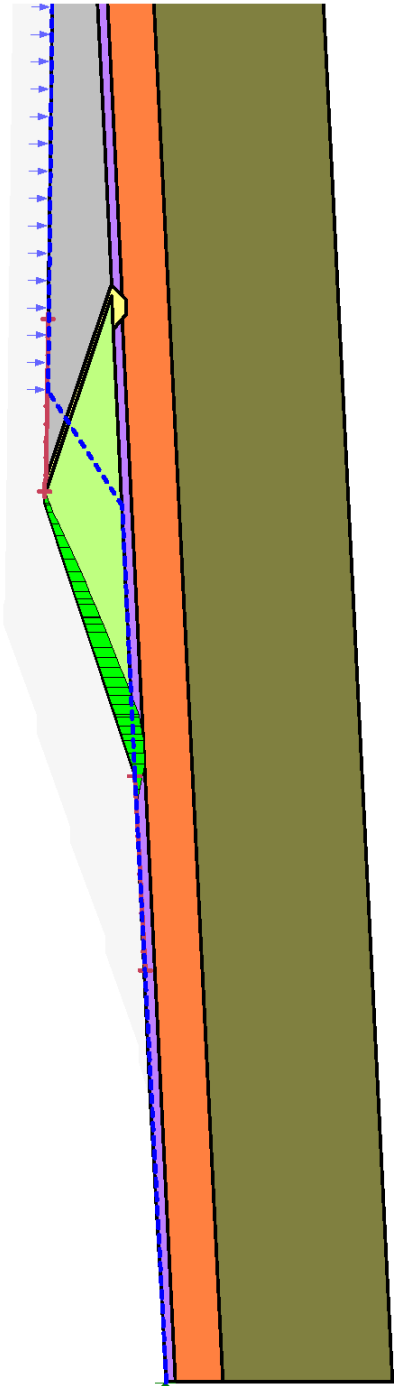
Ref: PE801-00139/10  
Figure 5.5

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
MODEL SECTION – FINAL STAGE

**Knight Piésold**  
CONSULTING

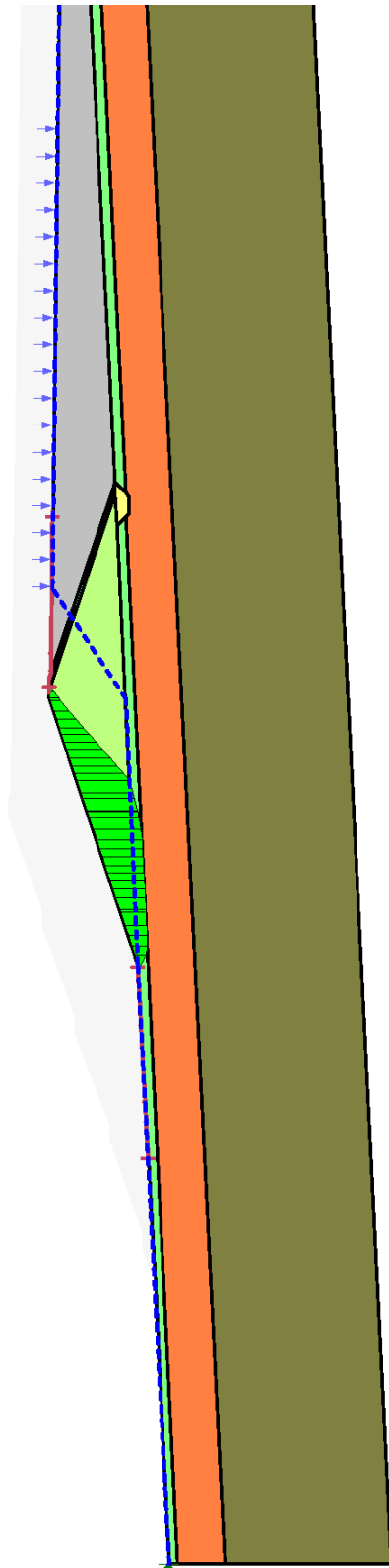
Name: Zone A      Unit Weight: 19 kN/m<sup>3</sup>      Cohesion: 5 kPa      Phi: 28°  
Name: Zone C      Unit Weight: 18 kN/m<sup>3</sup>      Cohesion: 0 kPa      Phi: 30°  
Name: Tailing      Unit Weight: 16 kN/m<sup>3</sup>      Cohesion: 0 kPa      Phi: 20°  
Name: Granite      Unit Weight: 24 kN/m<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

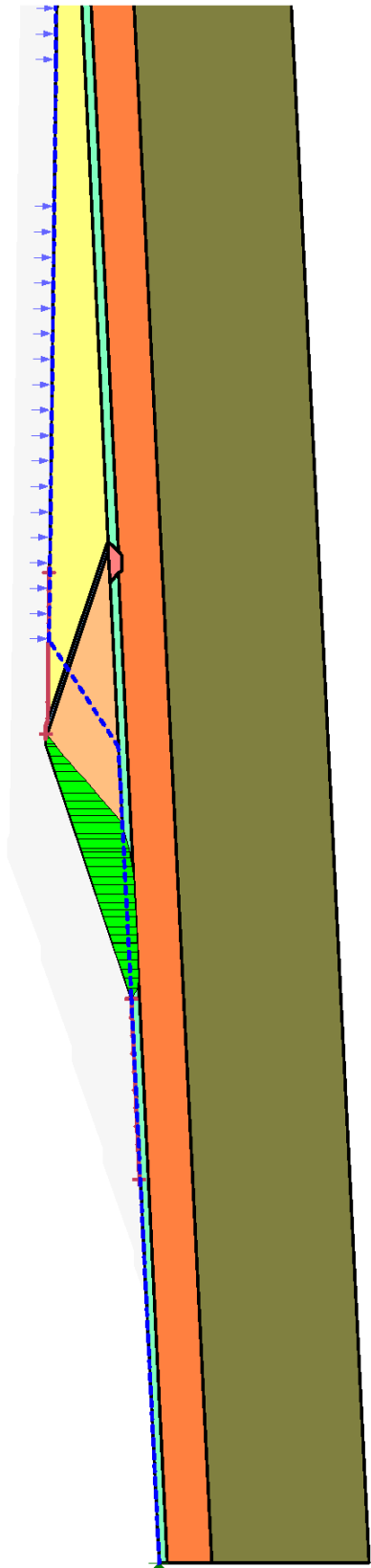
1.30

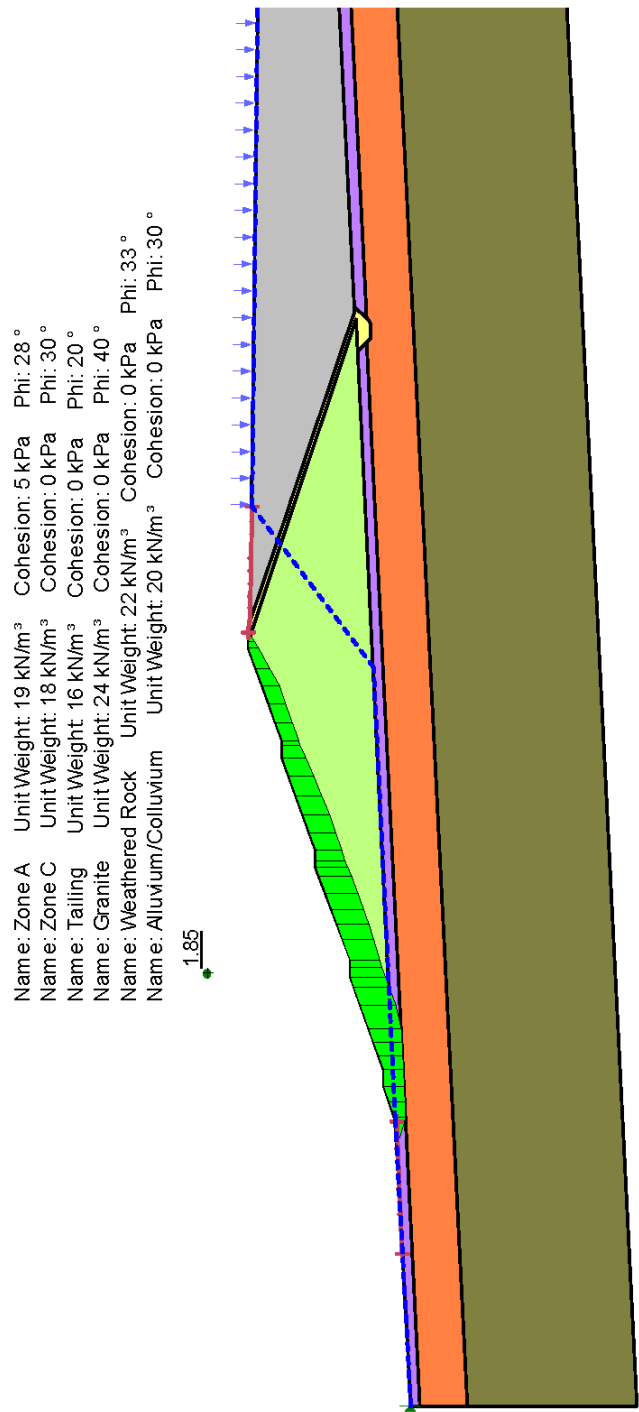




Name: Granite Unit Weight: 24 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 40°  
Name: Weathered Rock Unit Weight: 22 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 33°  
Name: Zone A 80% Unit Weight: 19 kN/m<sup>3</sup> Cohesion: 4 kPa Phi: 23°  
Name: Zone C 80% Unit Weight: 18 kN/m<sup>3</sup> Cohesion: 0 kPa Phi: 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

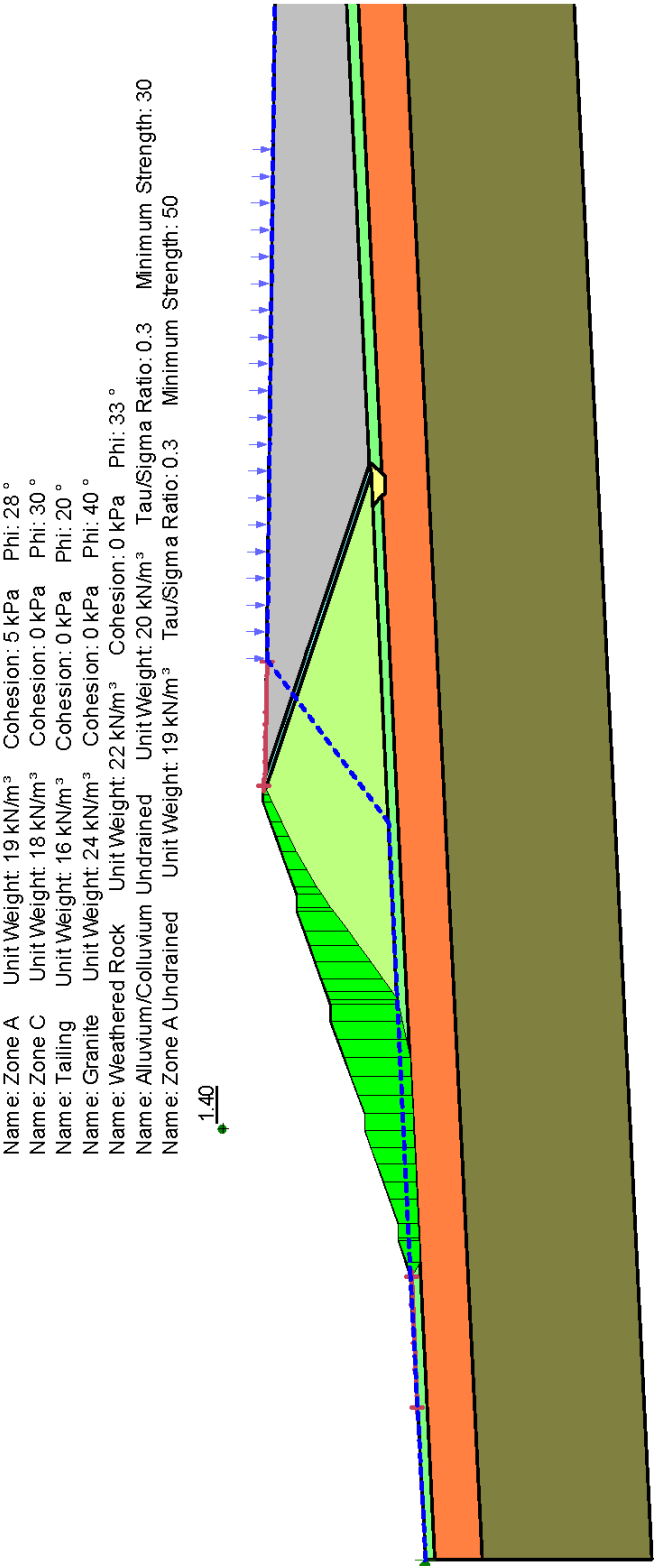




Ref: PE801-00139/10  
Figure 5.9

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
FINAL STAGE - DRAINED

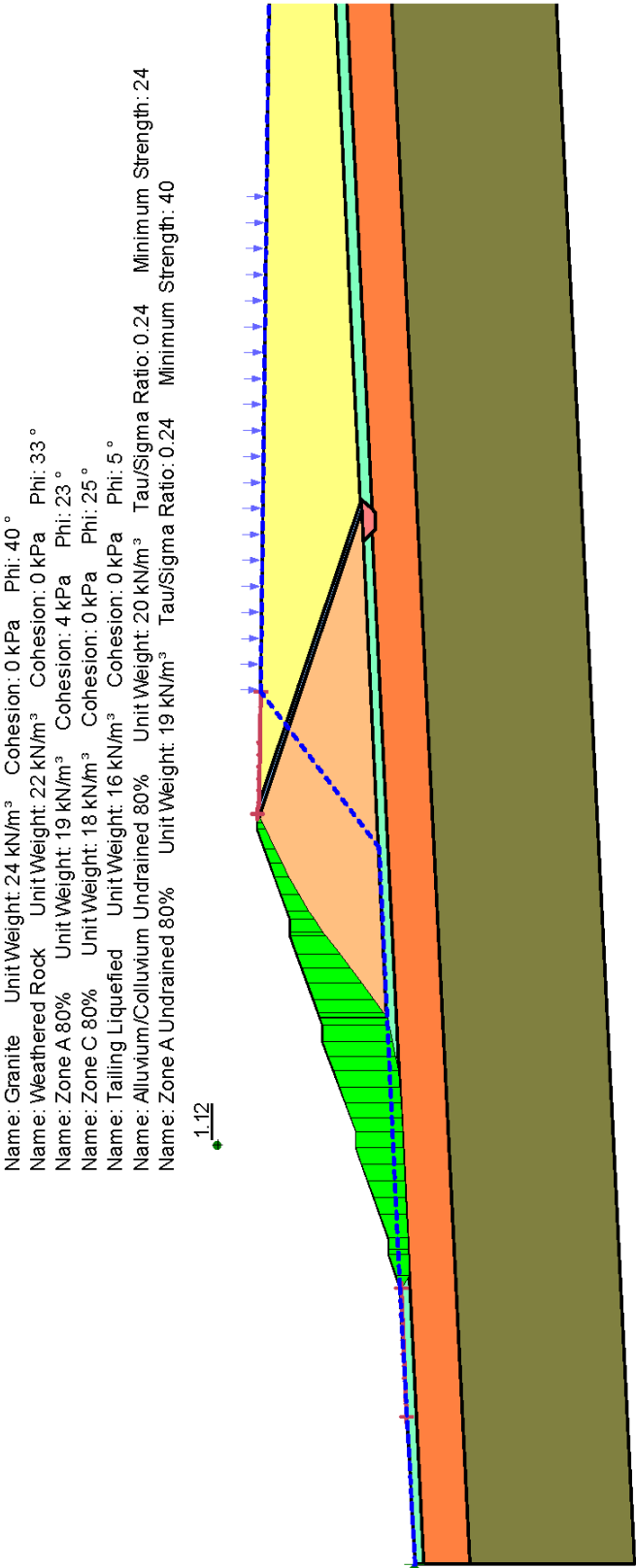
**Knight Piésold**  
CONSULTING



Ref: PE801-00139/10  
Figure 5.10

DARGUES GOLD PROJECT  
STABILITY ANALYSIS  
FINAL STAGE - UNDRAINED

**Knight Piésold**  
CONSULTING

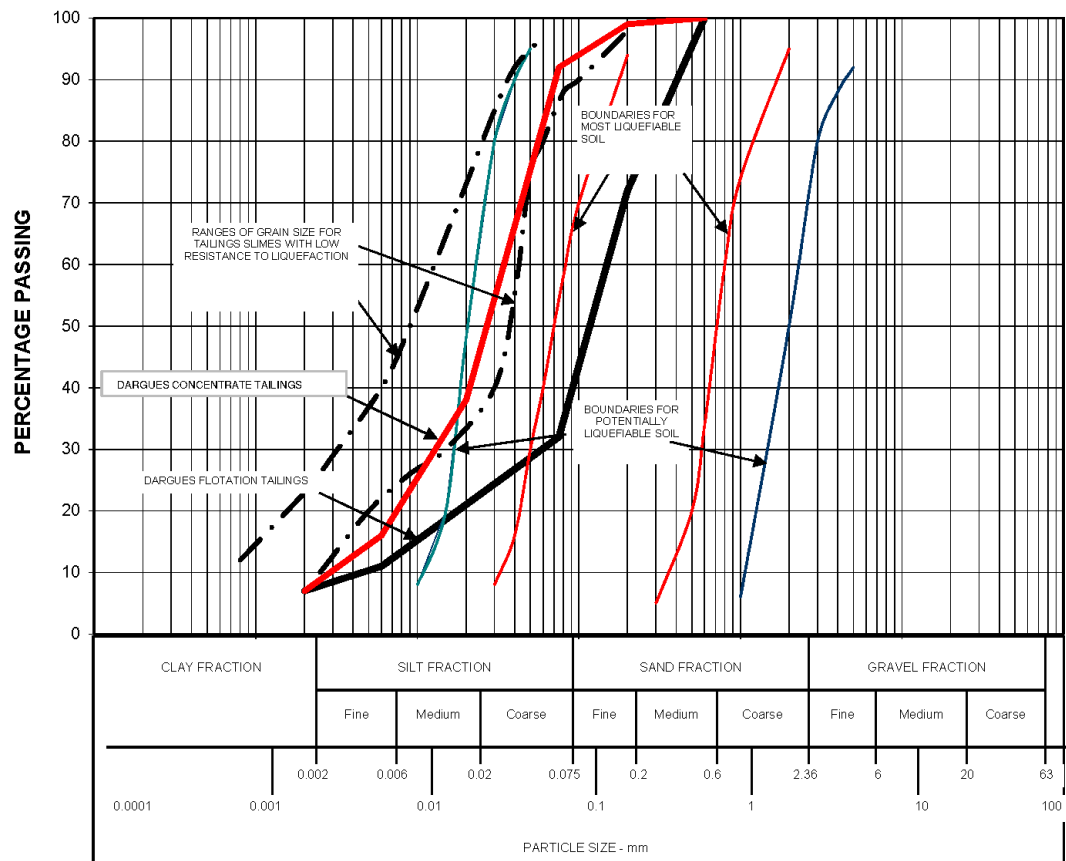


Ref: PE801-00139/10  
Figure 5.11

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

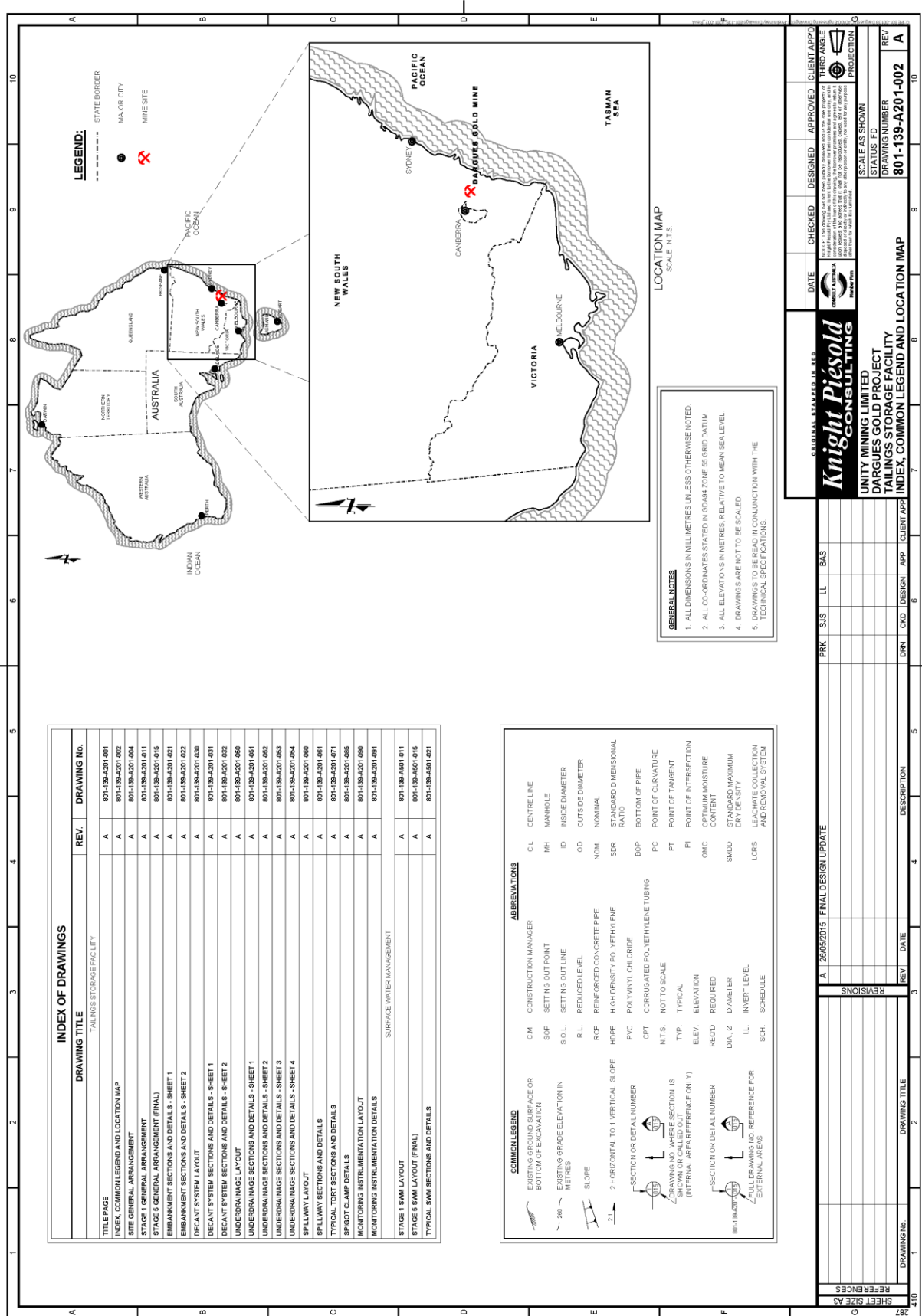
**FINAL DESIGN UPDATE**  
**MAY, 2015**

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

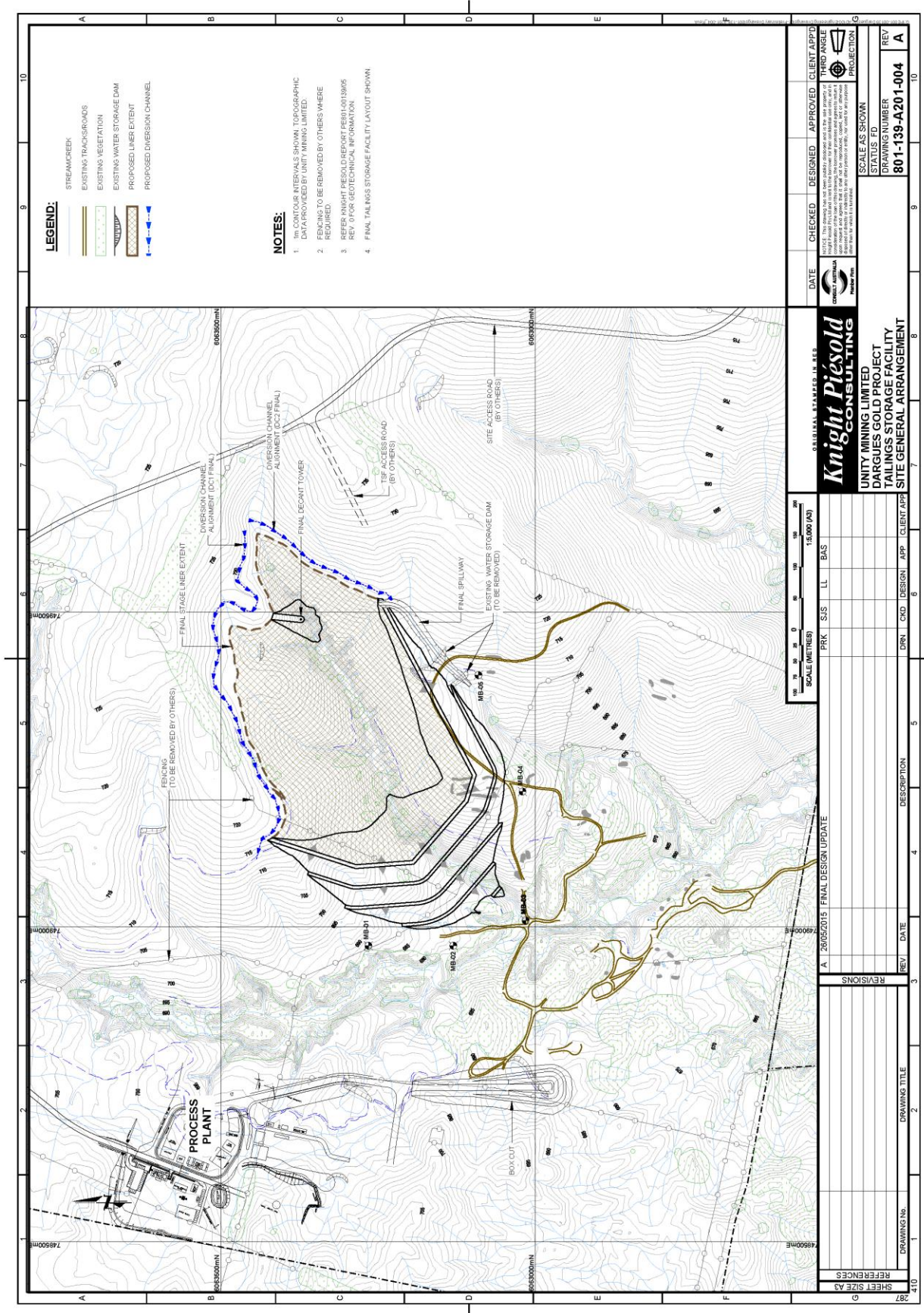
**Prepared by:**  
**Knight Piésold**  
**CONSULTING**

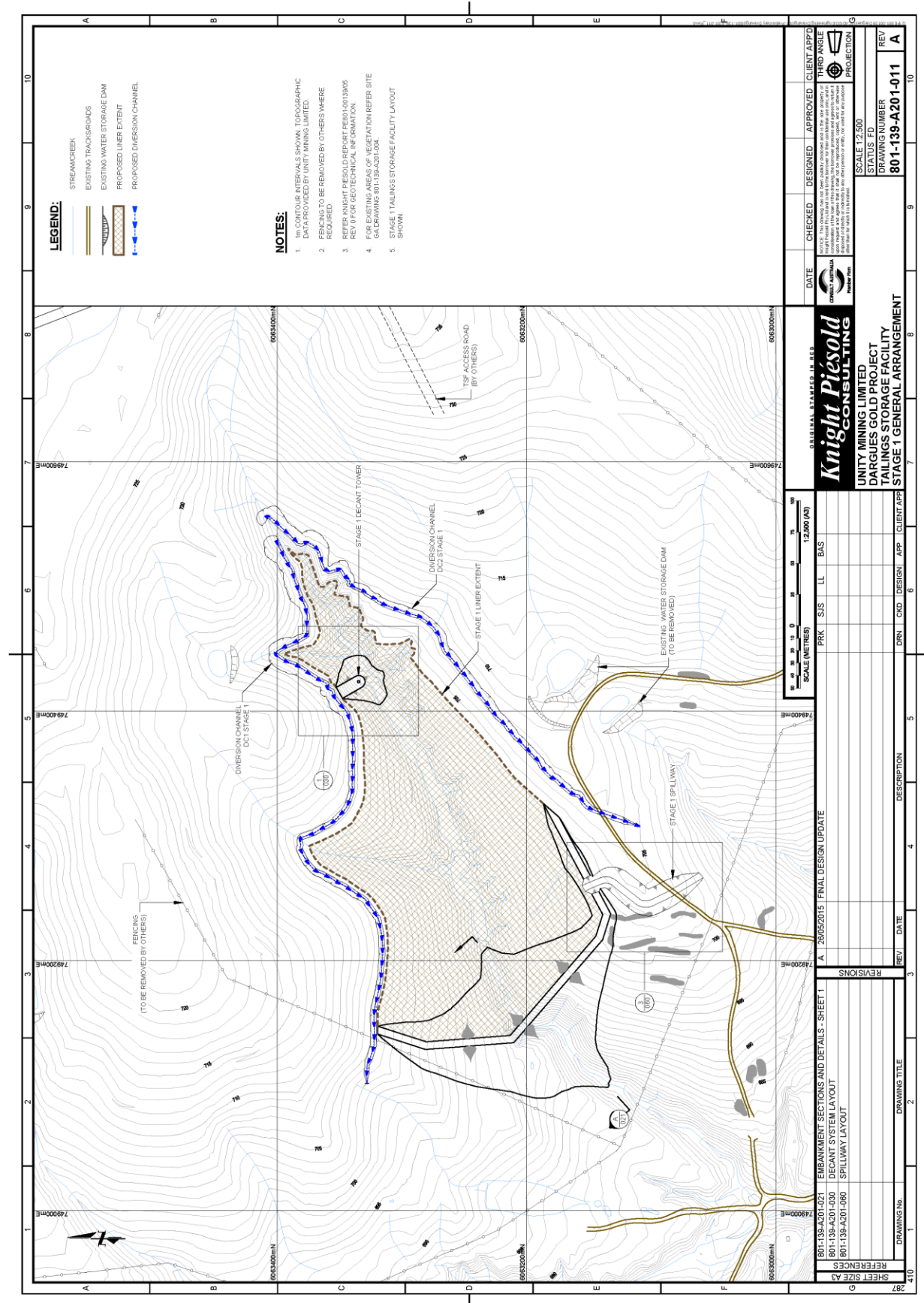
A.B.N. 67 001 040 419  
A.C.N. 001 040 419  
Knight Piésold Pty. Ltd  
Level 1, 184 Adelaide Terrace  
EAST PERTH, WA 6004  
AUSTRALIA

SHEET SIZE A3		DRAWING No.		DRAWING TITLE		REV		DATE		DESCRIPTION		DRN		CXG		DESIGN		APP		CLIENT APP	
REFERENCES		DRAWING No.		DRAWING TITLE		REV		DATE		DESCRIPTION		DRN		CXG		DESIGN		APP		CLIENT APP	
A		26/05/2015		FINAL DESIGN UPDATE		PRK		SJS		LL		BAS									
REVISIONS																					
ORIGINAL DRAWING IN SET		Knight Piésold CONSULTING		UNITY MINING LIMITED		DARGUES GOLD PROJECT		TAILINGS STORAGE FACILITY		TITLE PAGE											
DATE		CHECKED		DESIGNED		APPROVED		CLIENT APPROVED		THIRD ANGLE PROJECTION											
A.B.N. 67 001 040 419		A.C.N. 001 040 419		Knight Piésold Pty. Ltd		Level 1, 184 Adelaide Terrace		EAST PERTH, WA 6004		AUSTRALIA											
STATUS		SCALES		STATUS		NUMBER		801-139-A201-001		REV		A									

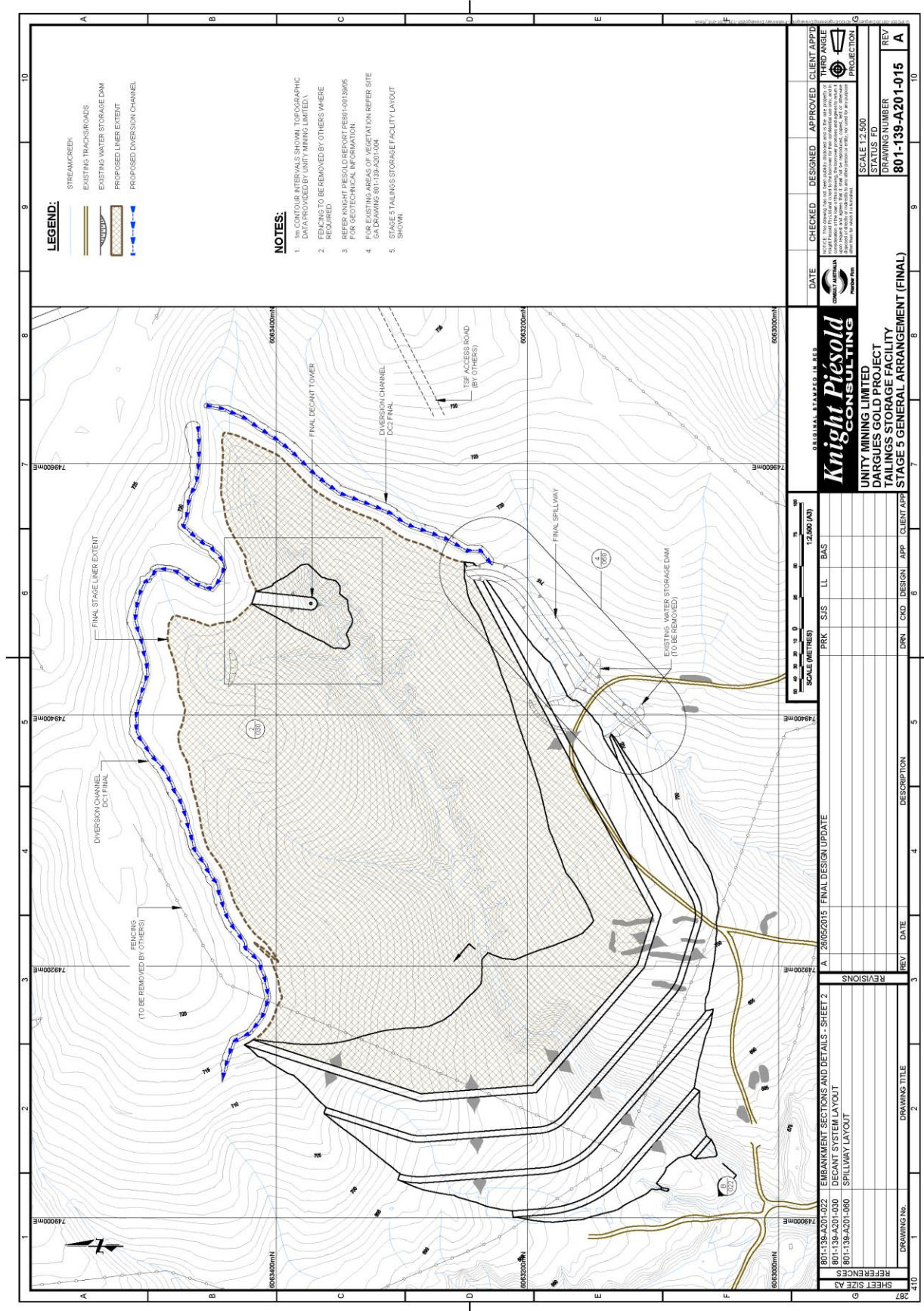


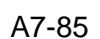


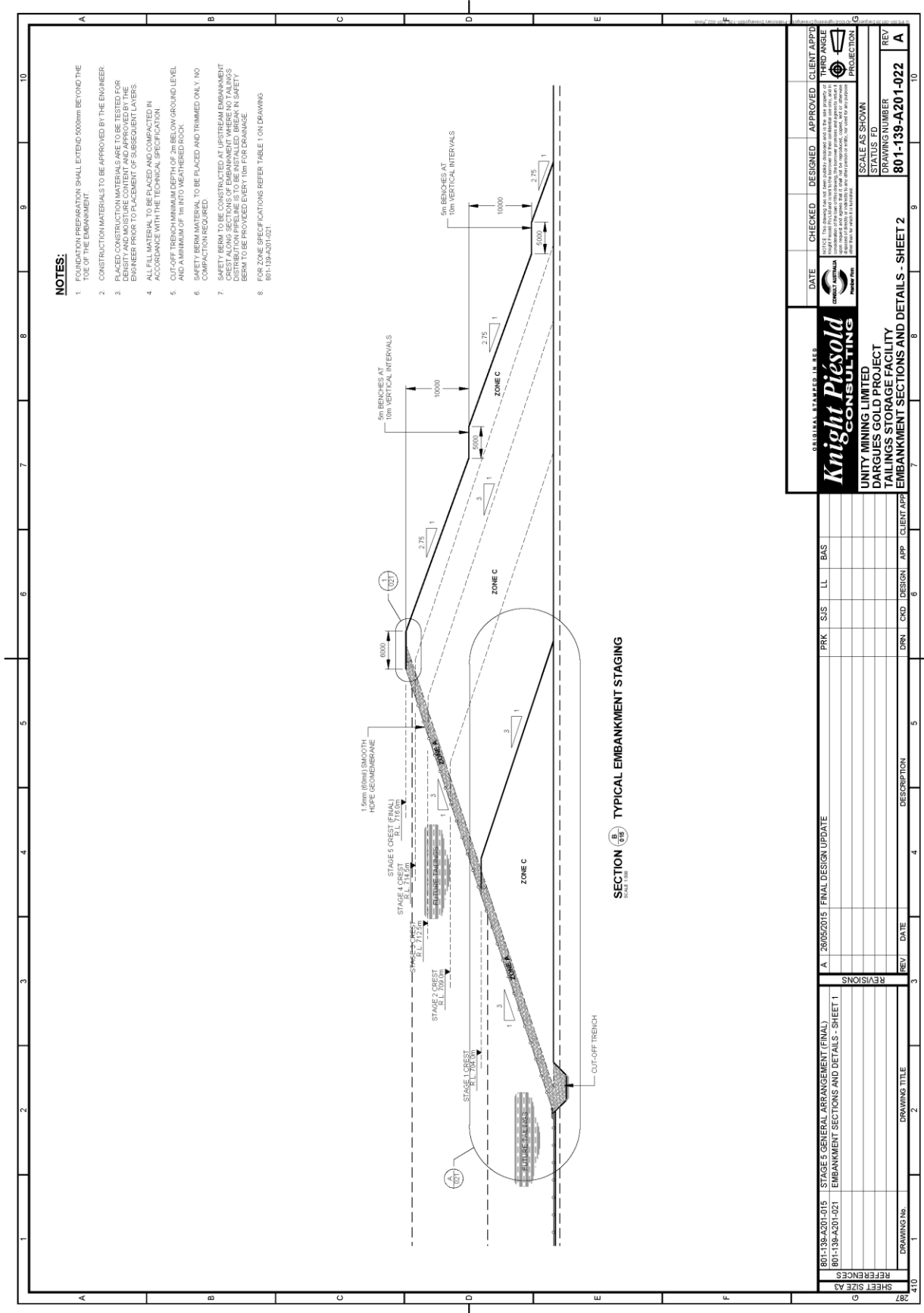














# ENVIRONMENTAL ASSESSMENT – MODIFICATION 3

Report No. 752/38 – July 2015

Appendix 7

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

