

**Independent Expert Engineering Investigation and Review Panel**

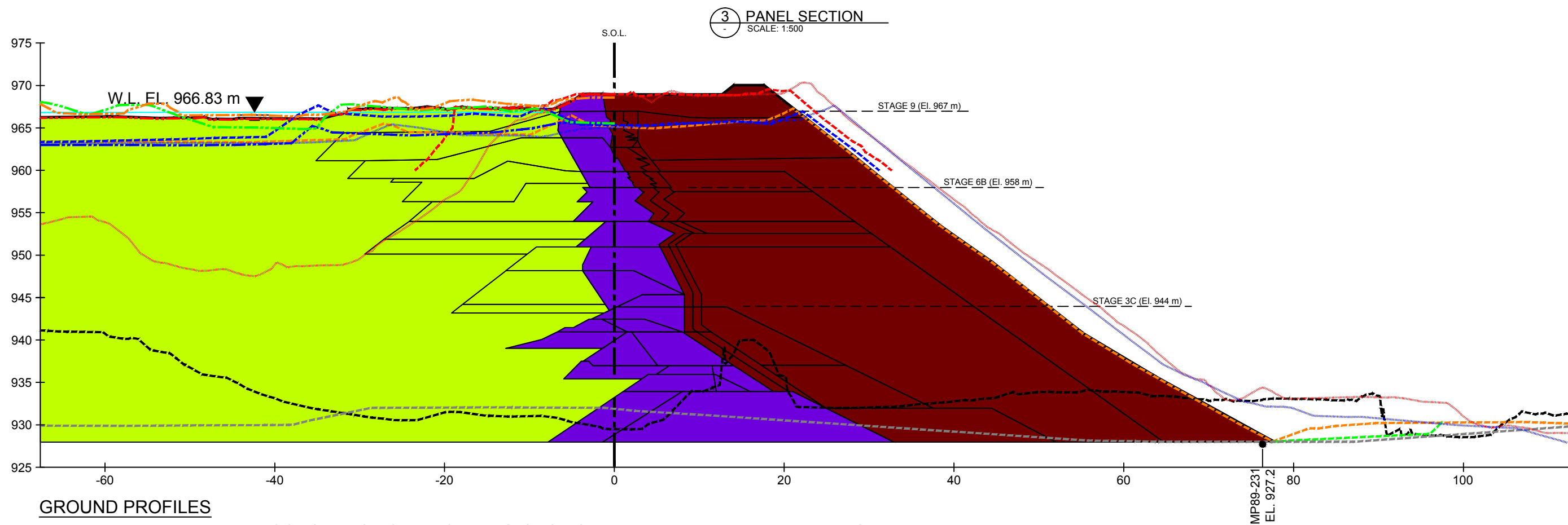
# **Report on Mount Polley Tailings Storage Facility Breach**

## **Appendix H: DRAWINGS**

**Drawing H1:** Basis for Geometry Used for Stability Analysis

**Drawing H2:** Toe Geometry Comparison

**Drawing H3:** Water Table Variation



**GROUND PROFILES**

- PRE CONSTRUCTION PROFILE @ SECTION 3 - APRIL 6, 1995 KP DRAWING
- POST BREACH PROFILE @ SECTION 3 - AUGUST 05, 2014 LIDAR
- SURVEYED PROFILE OF NOVEMBER 2013 TOE EXCAVATION @ SECTION 3 (ELEVATION CORRECTED)

**EMBANKMENT PROFILES**

- ASSUMED EMBANKMENT PROFILE PRIOR TO BREACH
- PRE BREACH PROFILE @ SECTION 3 - AUGUST 21, 2013 LIDAR
- PRE BREACH PROFILE @ STA. 4+450 - AUGUST 21, 2013 LIDAR
- POST BREACH PROFILE @ STA. 4+450 - AUGUST 05, 2014 LIDAR
- UPSTREAM PRE BREACH PROFILE @ STA. 3+600 - AUGUST 21, 2013 LIDAR
- UPSTREAM POST BREACH PROFILE @ STA. 3+600 - AUGUST 05, 2014 LIDAR
- UPSTREAM PRE BREACH PROFILE @ STA. 4+850 - AUGUST 21, 2013 LIDAR
- UPSTREAM POST BREACH PROFILE @ STA. 4+850 - AUGUST 05, 2014 LIDAR
- PRE BREACH PROFILE @ SECTION D - AUGUST 21, 2013 LIDAR
- POST BREACH PROFILE @ SECTION D - AUGUST 05, 2014 LIDAR

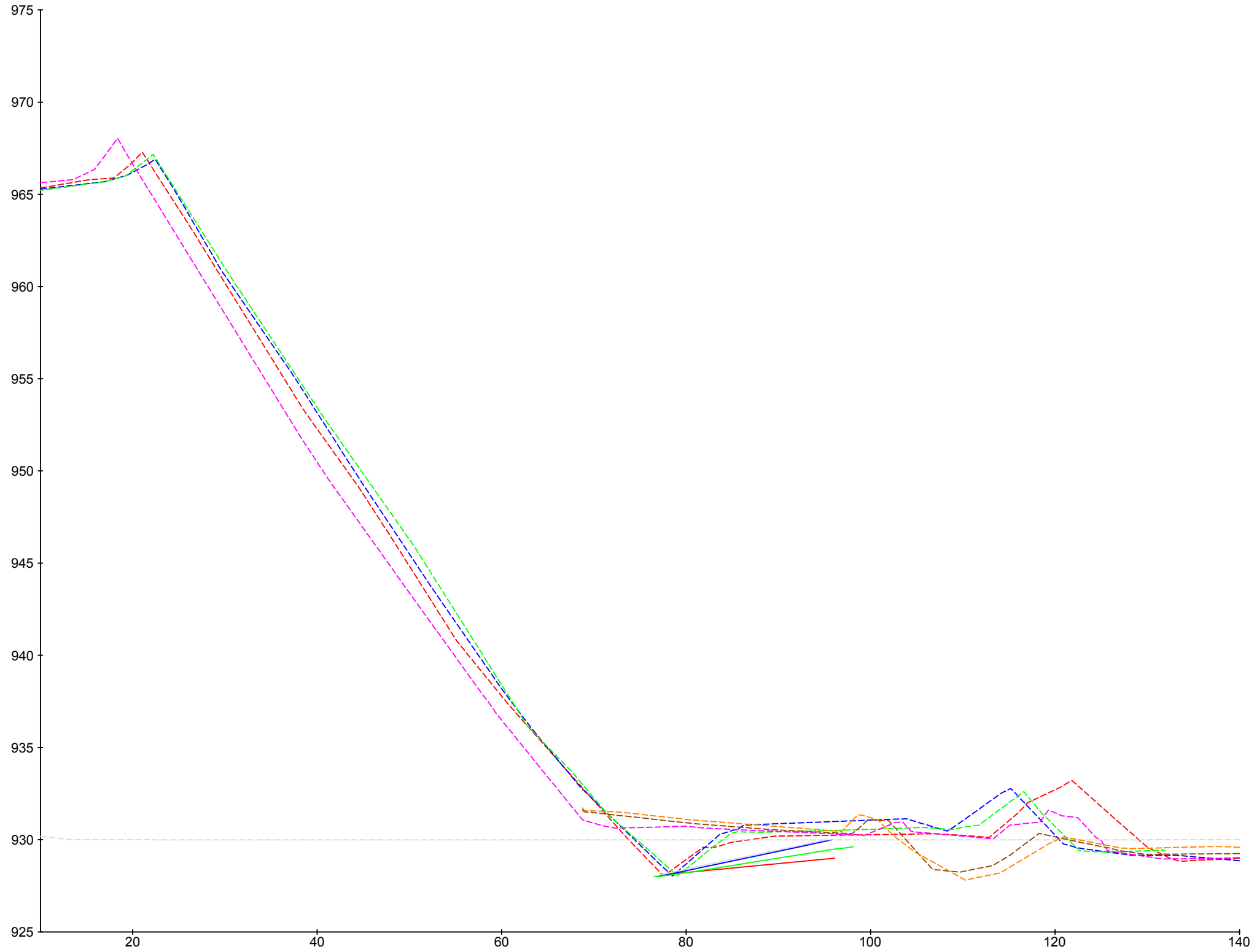
**WATER LEVEL**

- MPMC AUGUST 03, 2014 DAILY CONSTRUCTION REPORT - TSF 14-08-03 (MP10020)

**BASIS FOR GEOMETRY USED FOR STABILITY ANALYSIS**

MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL

DESIGNED P JW	DRAWN N A K
APPROVED N. MORGENSTERN	
DATE DECEMBER 16, 2014	DWG. No. H1



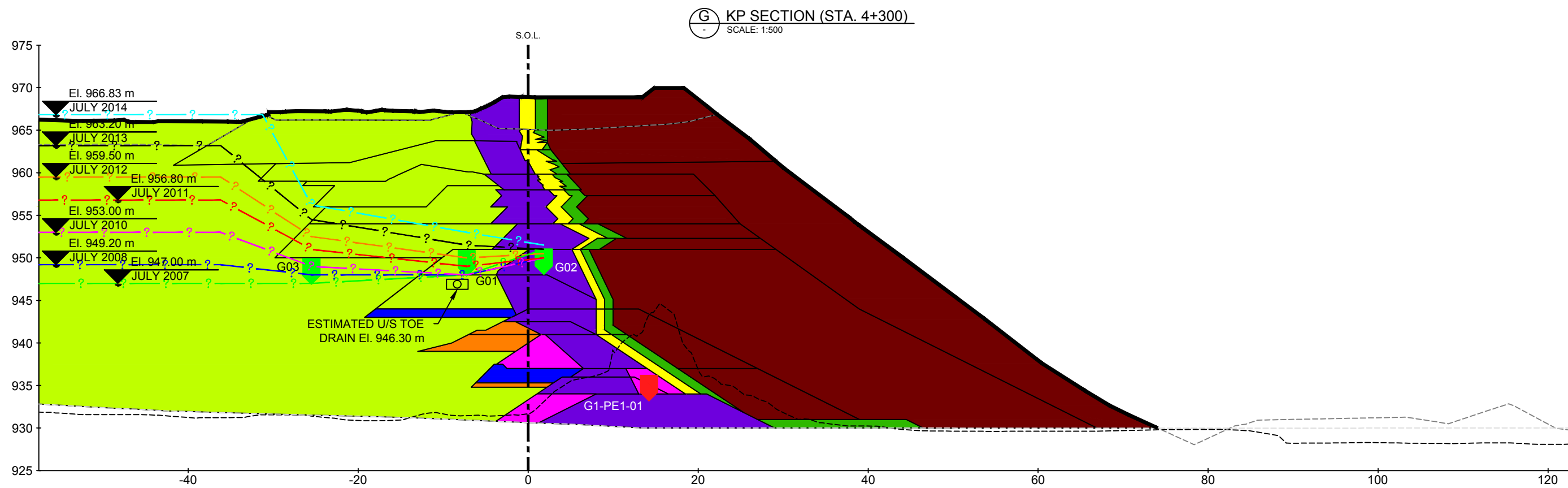
LEGEND:

- PRE-BREACH LIDAR @ SECTION 3
- PRE-BREACH LIDAR @ SECTION 4
- PRE-BREACH LIDAR @ SECTION 5
- PRE-BREACH LIDAR @ SECTION 7
- PRE-BREACH LIDAR @ STA 4+162
- PRE-BREACH LIDAR @ STA 4+167
- TOE EXCAVATION @ SECTION G
- TOE EXCAVATION @ SECTION 3
- TOE EXCAVATION @ SECTION 4
- TOE EXCAVATION @ SECTION 5

TOE GEOMETRY COMPARISON

MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL

DESIGNED P JW	DRAWN NAK
APPROVED N. MORGENSTERN	
DATE JANUARY 07, 2015	DWG. No. H2



NOTE:

1. PIEZOMETER G1-PE1-01 STOPPED READING IN 2002 & G03 STOPPED READING IN MAY 2014.

<b>WATER TABLE VARIATION</b>	DESIGNED	DRAWN
	PJW	NAK
	APPROVED	
	N. MORGENSTERN	
	DATE	DWG. No.
	DECEMBER 16, 2014	<b>H3</b>

MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL