Appendix C: DRAWINGS

Drawing C1:  Post-Breach Field Mapping – Site Plan
Drawing C2:  Right Abutment Field Mapping Notes
Drawing C3:  Right Abutment Field Mapping & Zoning at KP Section G (Sta. 4+300)
Drawing C4:  Left Abutment Field Mapping Notes
Drawing C5:  Left Abutment Field Mapping & Zoning at KP Section G (Sta. 4+300)
SIGNS OF MOISTURE.
DRY AT TIME OF MAPPING.

EXCAVATED PIT
TILL EXPOSURES
ORGANIC TILL (FILL)
SCARP
COMPACT TO DENSE TILL EXPOSURE
(UP TO 2.5 m HIGH) WITH ROOTS AND
TOPSOIL. PERPENDICULAR CRACKS
AT 1 m TO 3 m SPACING.

SCARPS
SCARP
CRACKING
TILL blocks
TILL BLOCKS
STOCKPILE
AREA

EDGE OF DISTURBED
ROCK FILL
WOODY
DEBRIS
DEPOSITION
AREA
SEEPAGE
HORIZONTAL
VOID IN CORE
COMPACT TILL WITH ROOTS
AND WOODY DEBRIS
NEAR HORIZONTAL
TILL CORE BENCH.

ANGULAR ROCK FILL
& TILL EXPOSURES.
SHEAR SURFACE FROM
REMNANT TILL CORE EXCAVATION
POSSIBLE
SPRING
DISCHARGE

1. CONTOURS AND ORTHO PHOTO SHOWN ARE FROM
LIDAR SURVEY DATED AUGUST 5, 2014. CONTOUR
INTERVAL IS 2 METRES.

NOTES:

1. CONTOURS AND ORTHO PHOTO SHOWN ARE FROM
LIDAR SURVEY DATED AUGUST 5, 2014. CONTOUR
INTERVAL IS 2 METRES.
NOT TO SCALE

NOTES:

1. POST-BREACH GROUND PROFILE - FROM LIDAR SURVEY DATED AUGUST 5, 2014.
2. PRE-BREACH GROUND PROFILE - FROM LIDAR SURVEY DATED AUGUST 21, 2013.
3. PANORAMA - IMAGE STITCHED FROM FOUR IMAGES SHOT SEPT. 4, 2014. IT HAS BEEN SCALED AND STRETCHED TO BEST FIT AND SHOULD BE VIEWED AS APPROXIMATE ONLY.
4. ZONING AT KP SECTION G (STA. 4+300) WAS DEVELOPED BASED ON THE FOLLOWING:
   a. BETWEEN STAGE 1A/B AND STAGE 3C (APPROXIMATE ELEVATION 944 m) - AS-BUILT SECTIONS BY KP AT STATION 3+715 (SECTION 2 ON AS-BUILT DRAWINGS IN MP00019, 00012, 10032, 00072 & 00038)
   b. BETWEEN STAGE 4 AND STAGE 6B (APPROXIMATE ELEVATION 958 m) - AS-BUILT SECTIONS BY KP AT STATION 3+985 (SECTION 1 ON AS-BUILT DRAWINGS IN MP00031, 00033, 00034 & 00036)
   c. BETWEEN STAGE 7 AND 9 (APPROXIMATE ELEVATION 966 m) - AS-BUILT SECTIONS BY AMEC AT STATION 3+985 (SECTION D ON AS-BUILT DRAWINGS IN MP0041, 00407 & 00044)
   d. FINAL PRE-BREACH ZONE C ROCKFILL SHELF SLOPE BASED ON 2013 LIDAR SURVEY
   e. ZONE U AND TAILINGS BEACH SURFACE ELEVATION ESTIMATED BY AVERAGING POST-BREACH LIDAR SURVEY AT LOCATIONS EITHER SIDE OF BREACH AREA AVOIDING FAILURE SCARPS WITHIN THE TAILINGS.

LEGEND:

- APPARENT SHEAR FEATURE
- CRACK
- MARKER BED NO.
- MEASURED DIP ANGLE
- SEEPAGE

S.O.L.

STA. 4+175
PRE-BREACH GROUND PROFILE
(AUGUST 21, 2013)

SAMPLE # 1
TILL CORE

SAMPLE # 2
TILL

SAMPLE # 3
DAMP COMPACT SILT AND SAND (MEDIUM TO FINE GRAINED)

SAMPLE # 4
TILL

SAMPLE # 5
DAMP COMPACT SILT SAND

SAMPLE # 6
SAND

APPARENT SHEAR FEATURES

SCARP

NEAR HORIZONTAL BENCH IN TILL CORE
(ELEV. 934 m)

SHEAR SURFACE FROM REMNANT TILL CORE EXCAVATION

MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL

RIGHT ABUTMENT FIELD MAPPING NOTES

DECEMBER 17, 2014

WRW
C2

APPROVED

DRB
NOT TO SCALE

ZONING AT KP SECTION G (Sta. 4+300)

PRE-BREACH GROUND PROFILE
(AUGUST 21, 2013)

POST-BREACH GROUND PROFILE
(AUGUST 05, 2014)

GROUND PROFILE AT KP SECTION G (Sta. 4+300) - SEE NOTE 4

LEGEND:
- TRANSITION (ZONE T)
- CHIMNEY DRAIN (ZONE F)
- COARSE BEARING LAYER (ZONE CBL)
- SELECT TAILINGS FILL (ZONE U)
- ROCK (ZONE C)
- CORE (ZONE S)
- FILL (ZONE B)
- CYCLONE SAND (ZONE CS)

NOTES:
1. POST-BREACH GROUND PROFILE - FROM LIDAR SURVEY DATED AUGUST 5, 2014.
2. PRE-BREACH GROUND PROFILE - FROM LIDAR SURVEY DATED AUGUST 21, 2013.
3. PANORAMA - IMAGE STITCHED FROM FOUR IMAGES SHOT SEPT. 4, 2014. IT HAS BEEN SCALED AND STRETCHED TO BEST FIT AND SHOULD BE VIEWED AS APPROXIMATE ONLY.
4. ZONING AT KP SECTION G (STA. 4+300) WAS DEVELOPED BASED ON THE FOLLOWING:
   a. BETWEEN STAGE 1A AND STAGE 3C (APPROXIMATE ELEVATION 944 m) - AS-BUILT SECTIONS BY KP AT STATION 3+715 (SECTION 2 ON AS-BUILT DRAWINGS IN MP00019, 00012, 10032, 00072 & 00031).
   b. BETWEEN STAGE 4 AND STAGE 6B (APPROXIMATE ELEVATION 958 m) - AS-BUILT SECTIONS BY AMEC AT STATION 3+985 (SECTION 1 ON AS-BUILT DRAWINGS IN MP00031, 00033, 00034 & 00036).
   c. BETWEEN STAGE 7 AND 9 (APPROXIMATE ELEVATION 966 m) - AS-BUILT SECTIONS BY AMEC AT STATION 3+985 (SECTION D ON AS-BUILT DRAWINGS IN MP00041, 00047 & 00044).
   d. FINAL PRE-BREACH ZONE C ROCKFILL SHELL SLOPE BASED ON 2013 LIDAR SURVEY.
   e. ZONE U AND TAILINGS BEACH SURFACE ELEVATION ESTIMATED BY AVERAGING POST-BREACH LIDAR SURVEY AT LOCATIONS EITHER SIDE OF BREACH AREA AWAY FROM FAILURE SCARPS WITHIN THE TAILINGS.

APPARENT SHEAR FEATURES

SHEER SURFACE FROM REMOVED TILL CORE EXCAVATION

DRAWING:
- RIGHT ABUTMENT FIELD MAPPING & ZONING

ZONING AT KP SECTION G (Sta. 4+300)

MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL

DECEMBER 17, 2014

C3
NOT TO SCALE

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   b. BETWEEN STAGE 4 AND STAGE 6B (APPROXIMATE ELEVATION 958 m) - AS-BUILT SECTIONS BY KP AT STATION 3+985 (SECTION 1 ON AS-BUILT DRAWINGS IN MP00031, 00033, 00034 & 00036).
   c. BETWEEN STAGE 7 AND 9 (APPROXIMATE ELEVATION 966 m) - AS-BUILT SECTIONS BY AMEC AT STATION 3+985 (SECTION D ON AS-BUILT DRAWINGS IN MP00041, 00047 & 00044).
   d. FINAL PRE-BREACH ZONE C ROCKFILL SHELL SLOPE BASED ON 2013 LIDAR SURVEY.
   e. ZONE U AND TAILINGS BEACH SURFACE ELEVATION ESTIMATED BY AVERAGING POST-BREACH LIDAR SURVEY AT LOCATIONS EITHER SIDE OF BREACH AREA AWAY FROM FAILURE SCARPS WITHIN THE TAILINGS.

NOTES:
NOT TO SCALE

LEGEND:
- TRANSITION (ZONE T)
- CHIMNEY DRAIN (ZONE F)
- COARSE BEARING LAYER (ZONE CBL)
- SELECT TAILINGS FILL (ZONE U)
- ROCK (ZONE C)
- CORE (ZONE S)
- FILL (ZONE B)
- CYCLONE SAND (ZONE CS)

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   e. ZONE U AND TAILINGS BEACH SURFACE ELEVATION ESTIMATED BY AVERAGING POST-BREACH LIDAR SURVEY AT LOCATIONS EITHER SIDE OF BREACHES AWAY FROM FAILURE SCARPS WITHIN THE TAILINGS.

NOTES:
- SEEPAGE
- SCARP
- MARKER BED NO.
- MEASURED DIP ANGLE

ZONING AT KP SECTION G (STA. 4+300) - SEE NOTE 4.