

BENDIGO OPHIR GOLD PROJECT

Di Lucas

23 April 2026

Appendix 3 Landform Components

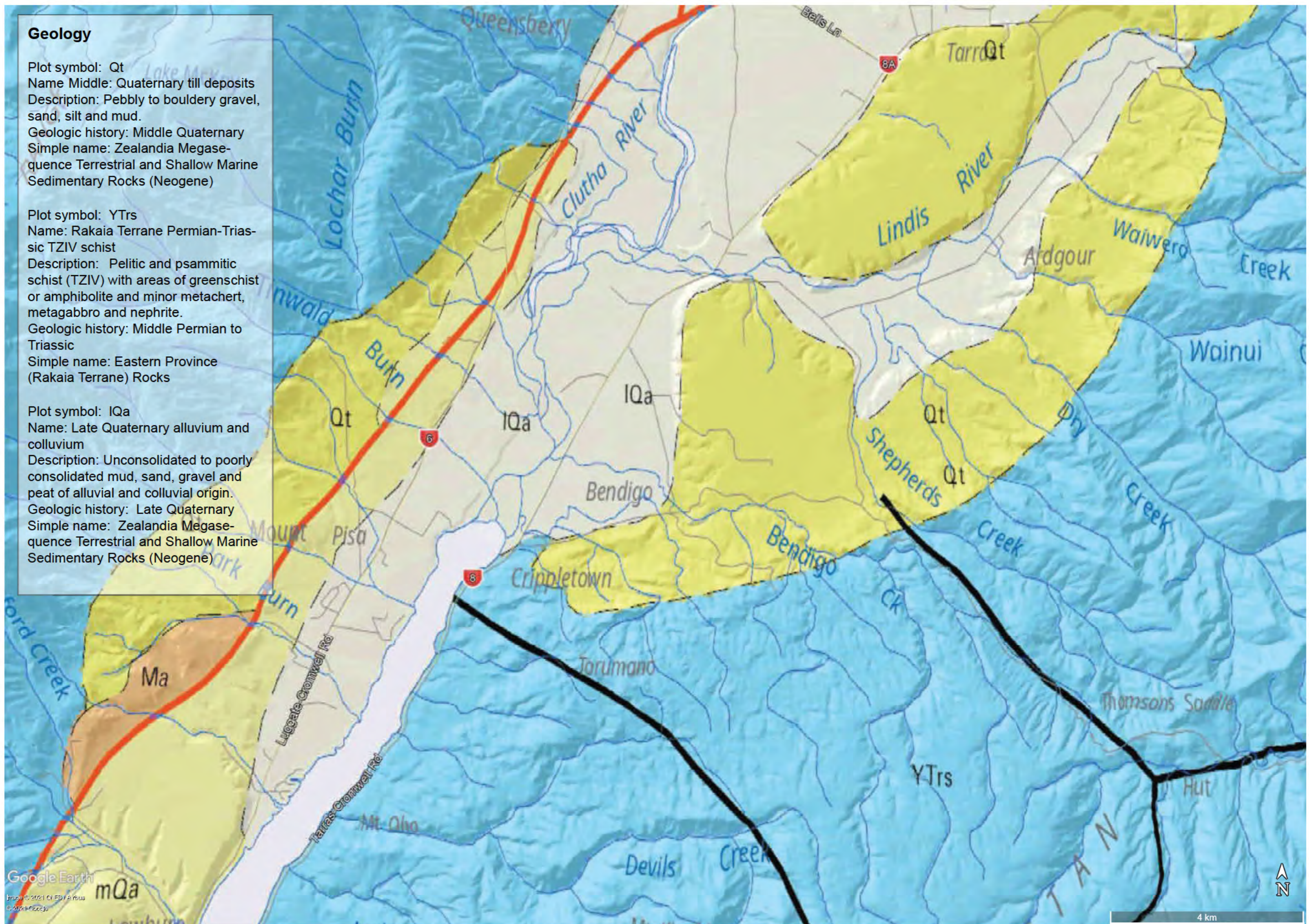
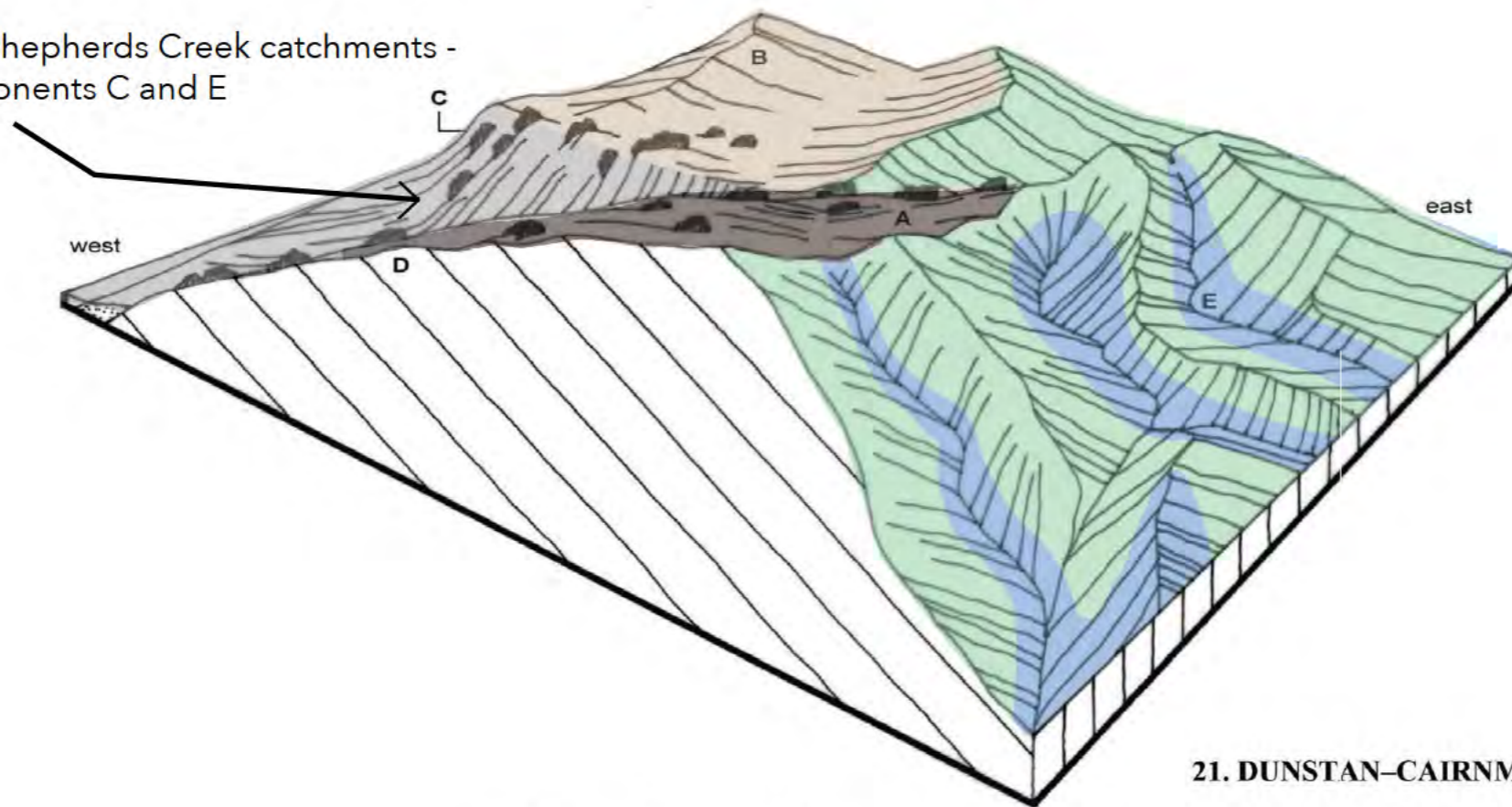


Figure 1.

Clearwater and Shepherds Creek catchments - Landform Components C and E



### 21. DUNSTAN-CAIRNMUIR LAND TYPE

The Dunstan-Cairnmuir land type comprises the Dunstan and Cairnmuir ranges. Asymmetric fault-block mountain ranges with steep to very steep side slopes and crests, and significant areas of undulating to rolling, to moderately steep plateau summits with extensive schist tors, seeps, and bogs. Hilly land with common schist tors and fretted schist outcrops form the foothills of the ranges to the west. Steeply entrenched streams drain the upper slopes, e.g. Devils and Lauder creeks. Heavy periglacial imprint with deep regolith mantles and extensive, rippled, partly collapsed solifluction slopes at higher elevations. The land type is developed predominantly on high-grade schist (t.z. III & IV). Elevation ranges from 200 to 1668 m, and rainfall from 560 to approximately 1200 mm p.a. with a strong elevation gradient. Much of the precipitation on upper slopes is from winter snowfall and fog. Fescue tussock grassland gives way upslope to narrow-leaved snow-tussock grassland, which predominates from about 1000 to 1500 m. Cushionfield and blue-tussock grassland cover much of the summit plateau, with a few areas of slim snow-tussock grassland and wetland vegetation. Vegetation contains a number of endemic species. No beech forest, rare Hall's tōtara remnants, extensive kānuka shrubland.

Landform component	Geological formation	Elevation (m)	Remnant native vegetation	Present land use	Agronomic potential	Potential land use	Potential impacts
A Undulating to rolling to moderately steep plateau summit and crests	Predominantly high-grade schist (t.z. III & IV) of the Haast Schist Group, colluvium and solifluction deposits	1300–1668	Snow- and alpine-tussock grassland, herb and cushionfield, subalpine and alpine scrub, fellfield and bog vegetation	Extensive grazing, conservation land, recreation	Low to nil	Conservation land, recreation, 'wild' animal grazing, gold mining	Recreation impacts, tracking, buildings, tow lines etc., mining
B Steep to very steep upper mountain slopes	Predominantly high-grade schist (t.z. III & IV) of the Haast Schist Group	1150–1300	Snow- and short-tussock grassland with matagouri, and subalpine scrub and herbs, tōtara forest-woodland	Extensive grazing, conservation land, recreation, 'wild' animal grazing	Low	Extensive grazing, recreation, conservation land	Recreation impacts, tracking, fencing
C Steep, to very steep dissected, rocky, lower mountain and hill slopes	Predominantly high-grade schist (t.z. III & IV) of the Haast Schist Group, colluvium, minor outwash and moraine	500–1150	Short-tussock grassland with matagouri, and mānuka-kānuka scrub, tōtara forest-woodland	Extensive grazing	Low	Extensive grazing, recreation, exotic forest below 1000 m	Tracking, fencing, recreation impacts, exotic forest and wildings
D Strongly rolling to moderately steep eastern mountain hill and steepland	Predominantly high-grade schist (t.z. III & IV) of the Haast Schist Group and colluvium	200–1150	Short-tussock grassland with matagouri, mānuka-kānuka and broadleaved scrub	Extensive and semi-intensive grazing	Low to medium	Semi-intensive grazing, recreation, exotic forestry	Tracking, fencing, recreation impacts, exotic forest and wildings
E Entrenched streams and valley floors	High-grade schist (t.z. III & IV) of the Haast Schist Group, alluvium and colluvium	200–1100	Short-, snow- and alpine-tussock grassland and herbfield, subalpine and matagouri scrub	Extensive grazing	Low to nil	Conservation land, recreation, alluvial gold mining	Recreation impacts, mining

Figure 2.

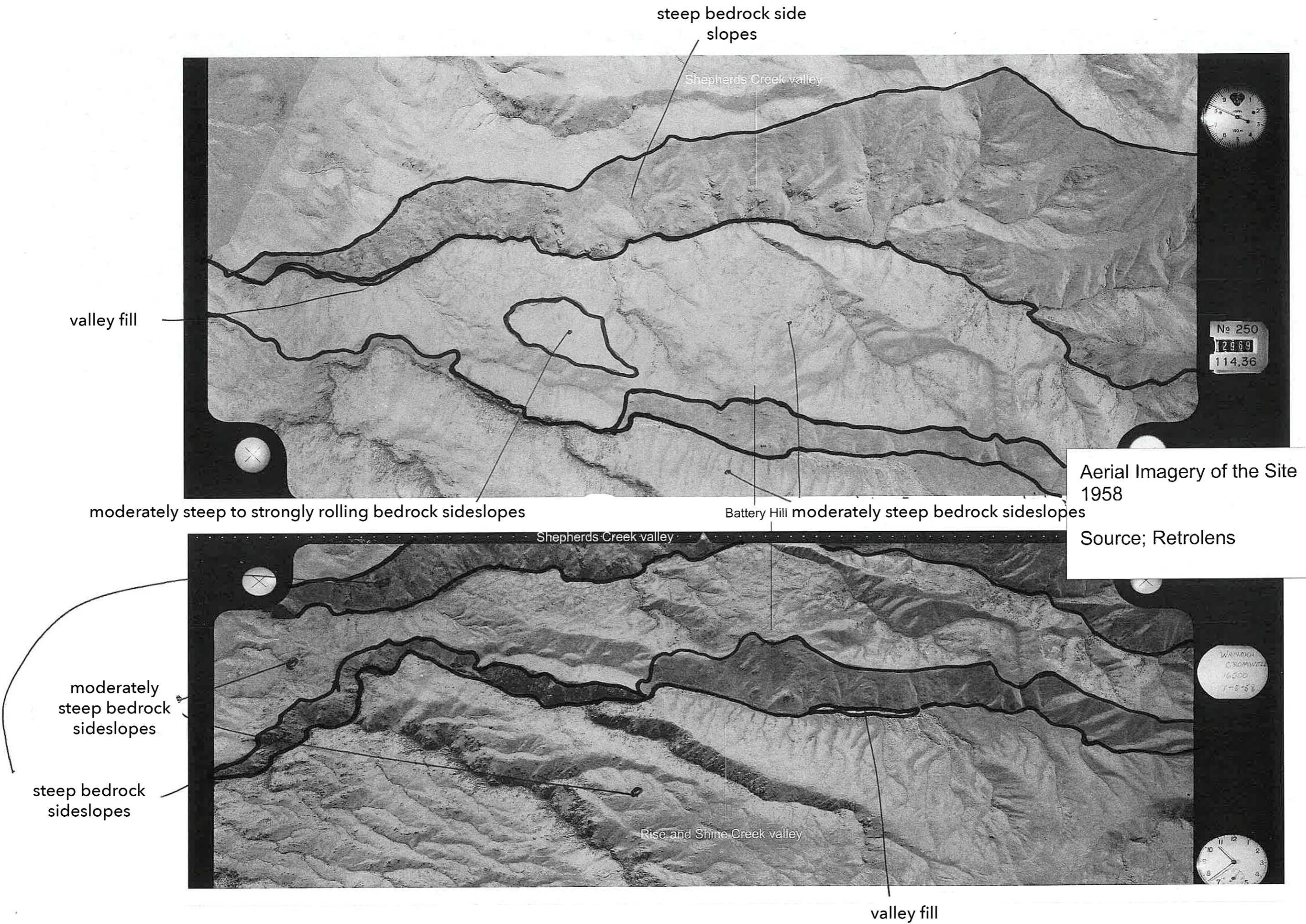
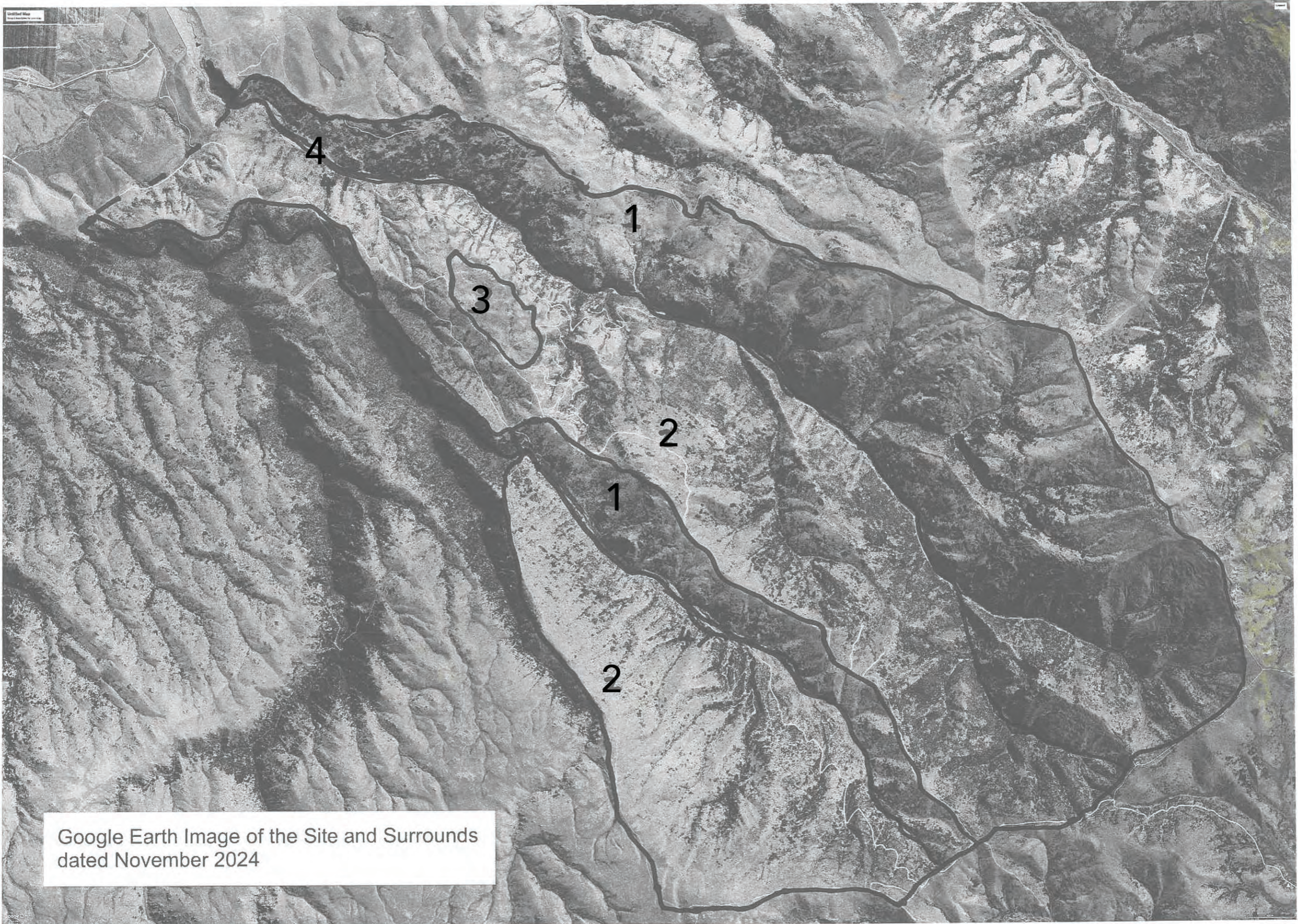


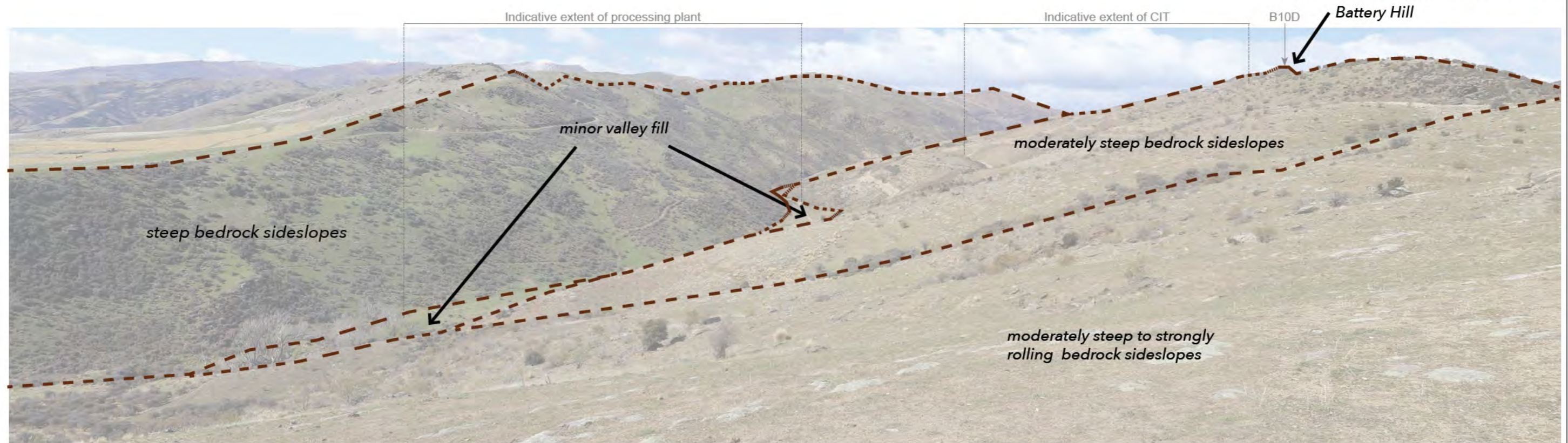
Figure 3



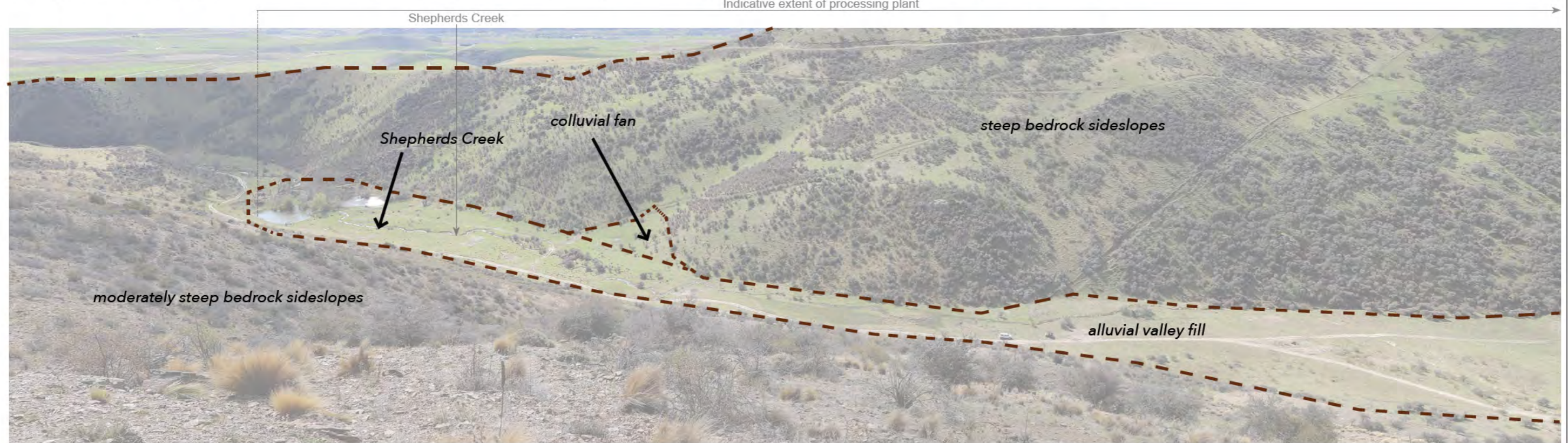
- 1. Steep bedrock sideslopes
- 2. Moderately steep bedrock sideslopes (and minor colluvial footslopes)

- 3. Moderately steep to strong rolling bedrock sideslopes
- 4. Limited valley fill alluvium

Figure 4

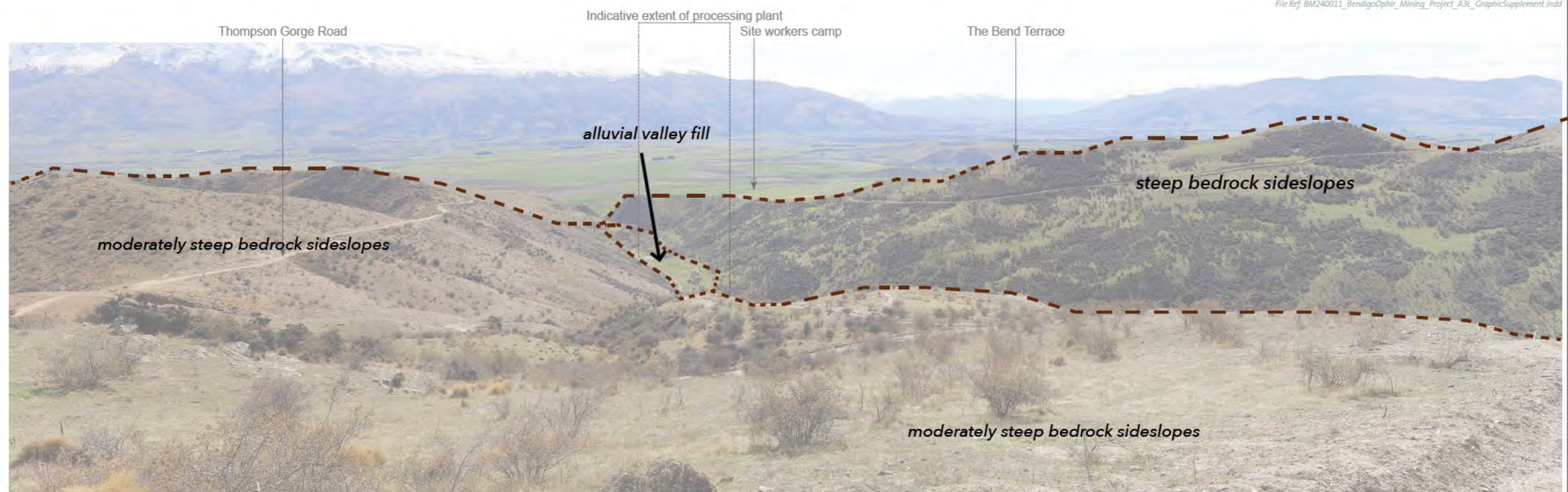


Site Appraisal Photograph A: View from existing Thompson Gorge Road, looking in an easterly direction towards the proposed CIT pit and processing plant.

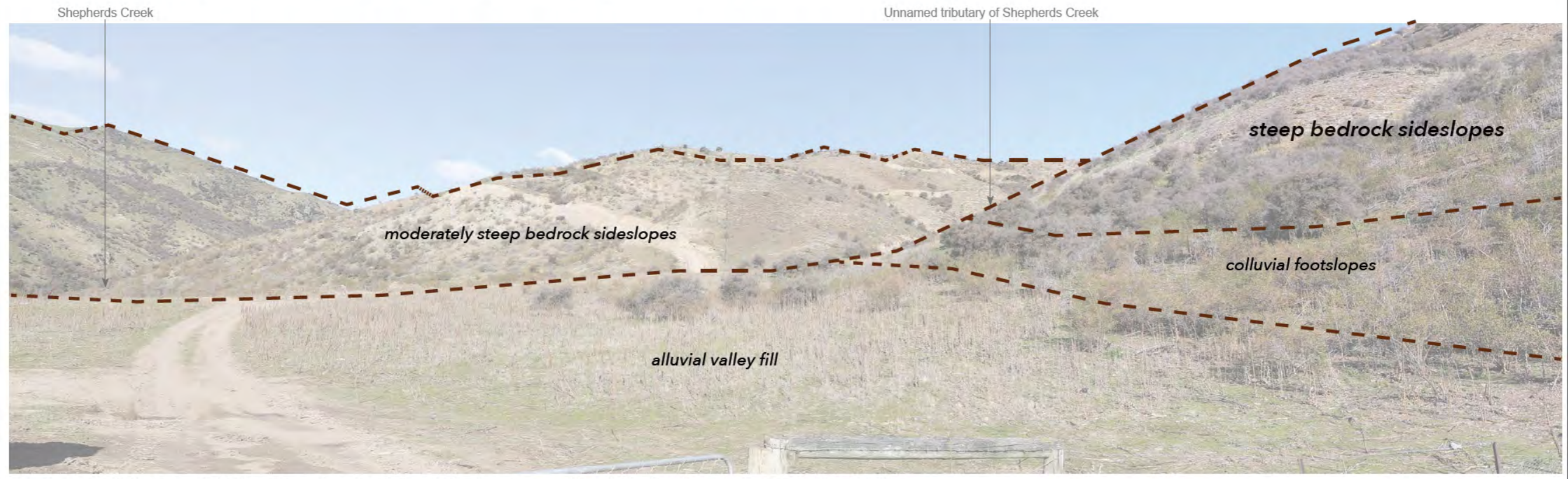


Site Appraisal Photograph B: View from existing Thompson Gorge Road, looking in a northerly direction over Shepherds Creek.

Figure 5. (Boffa Miskell page 12 annotated)



Site Appraisal Photograph C: View from existing Thompson Gorge Road, looking in a northwesterly direction over Shepherds Creek.



Site Appraisal Photograph D: View from Shepherds Creek, looking in a southeasterly direction into Rise and Shine Valley.


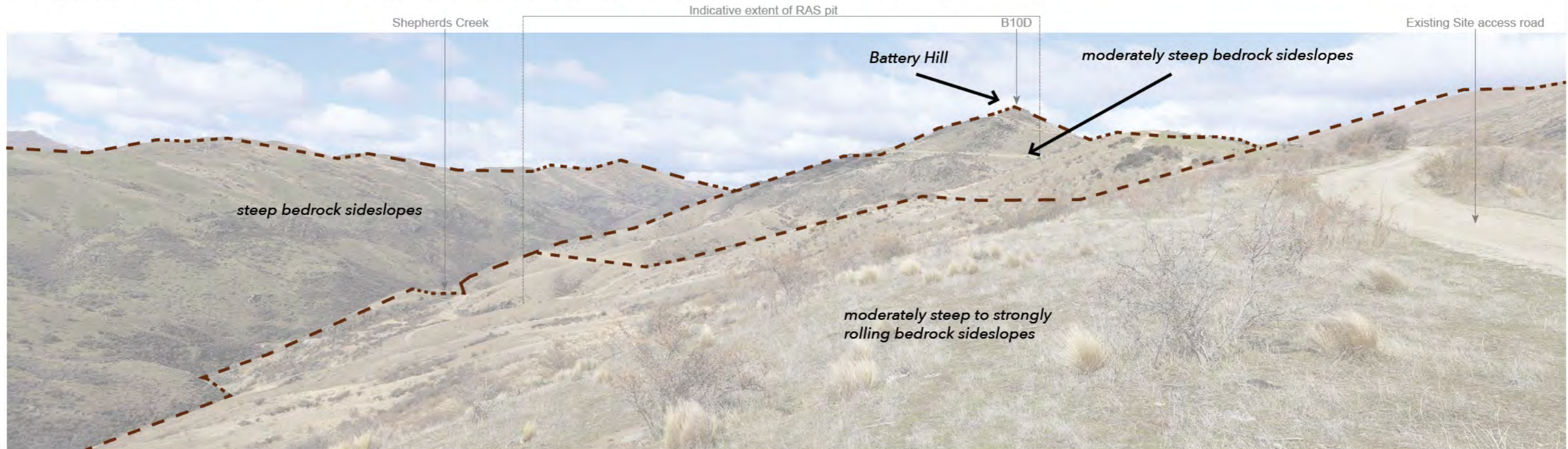
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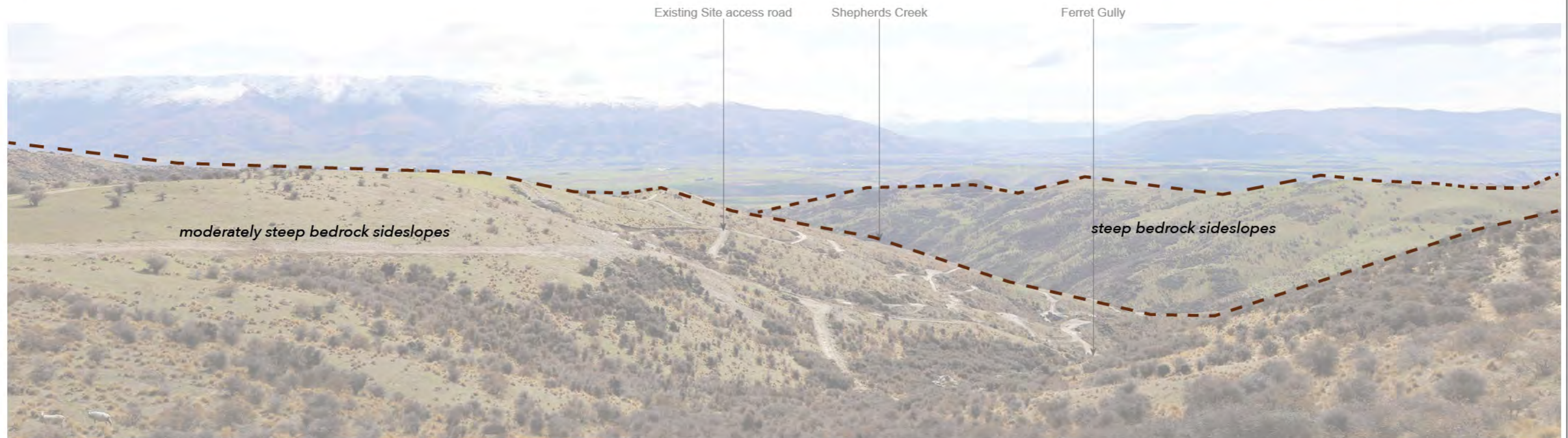
Figure 6. (Boffa Miskell page 13 annotated)



Site Appraisal Photograph E: View from Shepherds Creek, looking in a northwesterly direction towards the proposed location for processing plant.



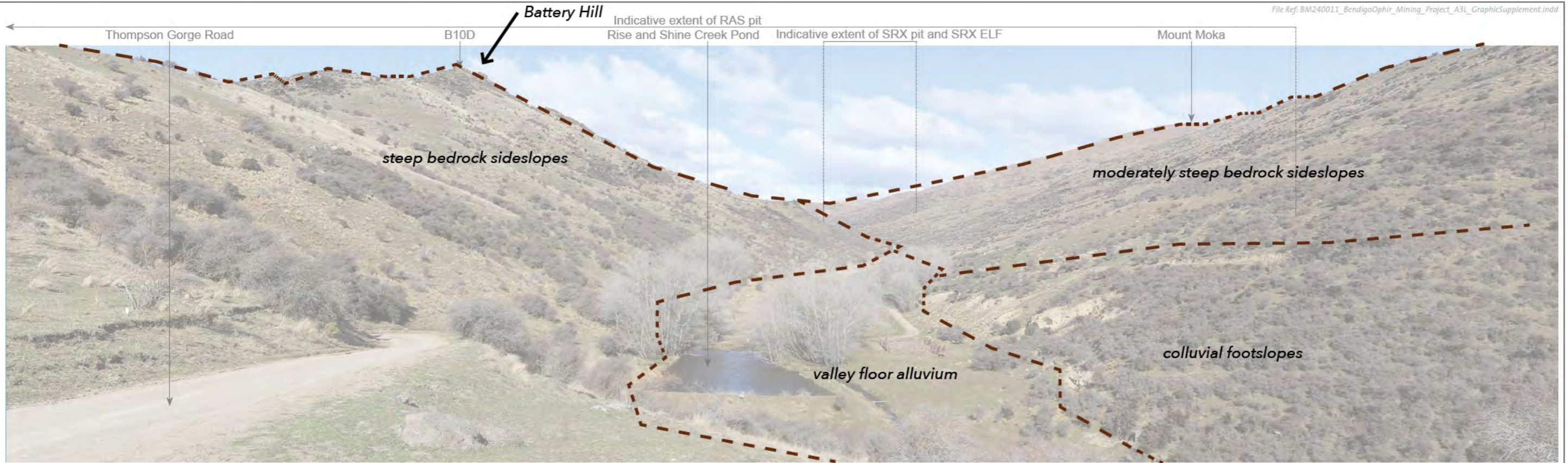
Site Appraisal Photograph F: View from Thompson Gorge Road, looking in a southeasterly direction towards the proposed location for RAS pit.



Site Appraisal Photograph G: View from existing Site access road, looking in a northwesterly direction towards the proposed location for RAS pit.




Site Appraisal Photograph H: View from existing Site access road, looking in a southwesterly direction over Rise and Shine Creek.

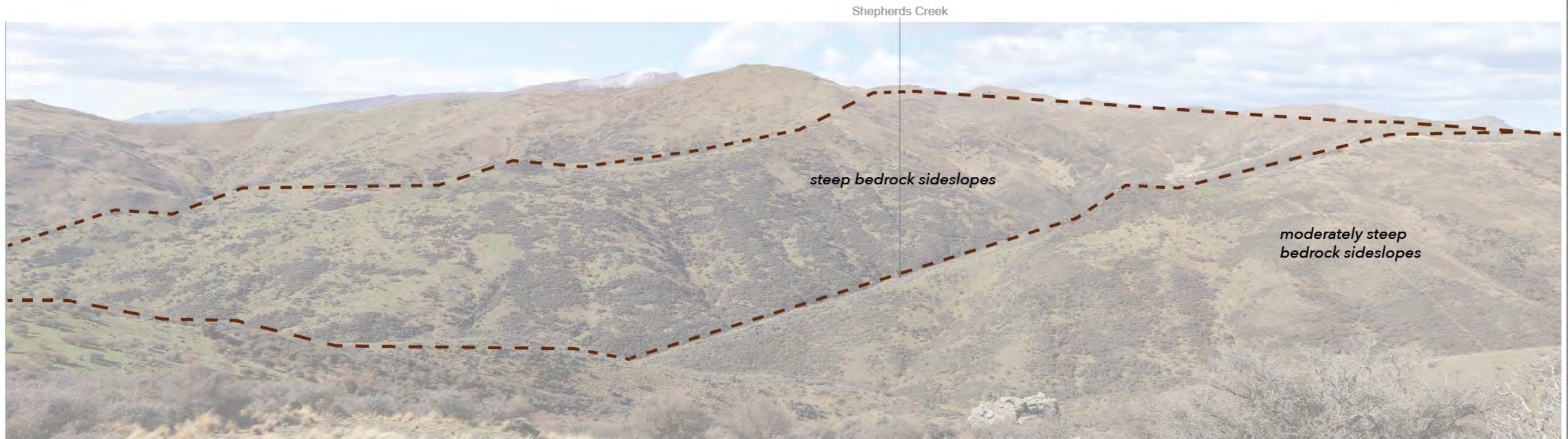


Site Appraisal Photograph I: View from Thompson Gorge Road, looking in a southeasterly direction into Rise and Shine Creek.



Site Appraisal Photograph J: View from existing Site access road, looking in a northeasterly direction towards the proposed location for ELF.

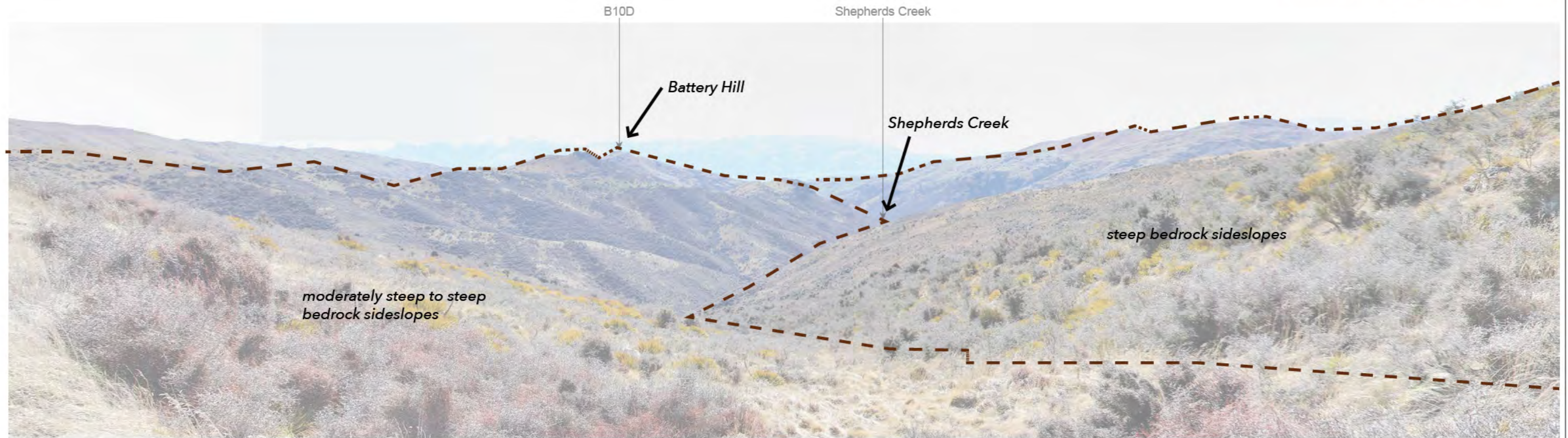
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Site Appraisal Photograph K: View from existing Site access road, looking in a northeasterly direction towards the proposed location for TSF.



Site Appraisal Photograph L: View from existing Site access road, looking in a northwesterly direction towards the proposed location for ELF and TSF.



Site Appraisal Photograph M: View from Thompson Gorge Road, looking in a northwesterly direction towards the proposed location for TSF.



Site Appraisal Photograph N: View from existing Site access road, looking in a southeasterly direction over Rise and Shine Creek.