

Reedy - alluvial area part of
Derwent River tidal delta

Gravels subject to
erosion and slippage

High level river deposited gravels
and boulders. All material locally
derived with little transportation.
Poorly sorted with sand base.

alluvium

Poros, scoriaceous
basalt with luffs,
breccias

More massive
basalt

$V_1 = 2900$ $E = 0.08$
 $V_2 = 1700$ $E = 7.8 \times 10^{-10} \text{ m}^2/\text{s}^2$
 $V_3 = 2900$ $E = 2 \times 10^{-10} \text{ m}^2/\text{s}^2$

md, sh, ss
• coal

much outcrop

Dolerite soils very
patchy but locally may
be exceptionally thick.
There is evidence of soil
and rock creep down slope.

rock slides

much outcrop

Very thin soils

much outcrop

Minor landslips and
badland erosion in
thick soils

rock slides

much outcrop

High landslide
potential.
Dol. talus

much outcrop

Soil denuded
slope

much outcrop

Medium grained ss : $T_b = 0.2-2.0$
Fine grained ss : $T_b = 0.01-0.1$

River section shows some
small faults with crush
zones, 0.1-0.2 m wide

Good exposure of
sedimentation
structures

This slab of ss
on dol.

Thin wedges of travertine rich
soil and weathered dolerite
occur at the base of steep slopes
See map, Tech. Rep. 11-07

Dol : $V_1(\text{soil}) = 300$
 $V_1(w) = 1500-1800$
 $V_2(\text{unw}) = 4500-5000$
 $V_3(\text{jointed}) = 3000$
(sheared)

ss : $V_1(\text{soil}) = 300$
 $V_1(w) = 1000-1700$
 $V_2(\text{unw}) = 3000$

Ridson Brook Res.
Concrete faced dol rock
fill dam

basalt

ss : $V_1(\text{soil}) = 300$
 $V_1(w) = 1100-2800$
 $V_2(\text{unw}) = 3000-5500$
 $E = 0.18-0.25$
 $E = 1.2 \times 10^{-10} \text{ m}^2/\text{s}^2$
 $P = 0.17$
 $\rho = 2.62$
 $\rho = 2.62$
 $P = 0-180$ m/year

$T_b = 0.4$

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 $P = 0-180$ m/year

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Previous course of
river (dammed by
massive basalt flows)

High level river
deposited sand
and gravel

Up to 3.5 m sand and gravel
overlying w basalt.
Moore, Tech. Rep. 9-121

Deeply weathered
and eroded ss
• $LL = 28$
 $PI = 4$

$J_f = 10$

$J_f = 9$

$J_f = 8$

$J_f = 6$

$J_f = 5$

$J_f = 4$

$J_f = 3$

$J_f = 2$

$J_f = 1$

$J_f = 0$

$J_f = -1$

$J_f = -2$

$J_f = -3$

$J_f = -4$

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