

## Soil pit description: PF12

**Images:** PF12\_01.jpg, PF12\_02.jpg  
**Soil class:** Nemesia  
**Map unit:** F  
**Location:** 50 m W of marker 2, Nemesia Trail  
**Site position:** Ledge on midslope of spur  
**Slope:** ca 10%, irregular  
**Parent material:** Andesite  
**Forest structure:** Closed canopy, moderate understory, few palms  
**Litter:** 100% cover, 6 layers, no root mat  
**Outcrops:** None  
**Stones:** None  
**Cracks:** Discontinuous, 5 mm wide, partly infilled  
**Microrelief:** None  
**Faunal activity:** Many fine & medium worm casts  
**Other surface features:** None

<b>Horizon</b>		<b>Samples</b>
<b>[cm]</b>		<b>[cm]</b>
<b>0 - 5</b>	7.5YR 3/3 (dark brown); no mottles; silty clay loam; strong medium & fine crumb, including many fine & medium & fine worm casts; no cutans; many fine & medium pores; moist & friable; common fine & medium tree roots; common fine & medium hard grey gravel & stones; no concretions; no charcoal; clear regular boundary to:	[0-5]
<b>5 - 30</b>	5YR 3/3 (dark reddish brown); no mottles; silty clay; strong medium subangular blocky & many fine worm casts; moderate discontinuous clayskins; many fine & medium pores; moist & slightly firm; common fine & medium & rare coarse tree roots; no stones; no concretions; no charcoal; clear regular boundary to:	[5-15] [15-25] [25-35]
<b>30 - 45/68</b>	5YR 4/4 (dark reddish brown); no mottles; (silty) clay; moderate medium subangular blocky breaking to moderate fine crumb, including common fine worm casts; moderate discontinuous clayskins; many fine pores; moist & slightly firm; few fine & medium tree roots; no stones; no concretions; no charcoal; clear wavy boundary to:	[35-45] [45-55] [55-65]
<b>45/68 - 75/120</b>	5YR 4/4 (reddish brown); no mottles; (silty) clay; moderate medium breaking to moderate fine subangular blocky & medium crumb; weak discontinuous clayskins; common fine pores; slightly moist & slightly firm; few fine tree roots; common medium soft grey weathered rock; common coarse black ferrimanganiferous concretions; no charcoal, clear wavy boundary to:	[65-75] [75-85] [85-95] [95-105] [105-115] [115-125]
<b>75/120 - 166+</b>	Greenish grey soft & slightly hard weathered rock	None

### **Correlations**

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**Catapan (1970):**      M C W Cf 2  
                                 M C    1 0

**World Reference Base:** (Hyper) Eutric Cambisol

**Soil Taxonomy:**        Humic Eutrudept

**Features:**              Colours look darker in field than Munsell indicate, and Organic C values confirm that topsoil is mollic. EBS indicates that this soil is eutric, but possibly inflated CEC have low BS, which indicate dystic subsoil. Moderate – high exchangeable K