

## Soil pit description: PF06

**Images:** PF06\_01.jpg, PF06\_02.jpg  
**Soil class:** Lake  
**Map unit:** L  
**Location:** 3 m from Lake Trail in SE quadrant of junction of Lake & Miller  
**Site position:** Lower end of midslope step  
**Slope:** 3%, linear, aspect 90°  
**Parent material:** Andesite  
**Forest structure:** Closed canopy, moderately open understory, few palms  
**Litter:** 80% cover, 2 layers, no root mat  
**Outcrops:** None  
**Stones:** None  
**Cracks:** None  
**Microrelief:** None  
**Faunal activity:** Common medium worm casts  
**Other surface features:** None

Horizon [cm]		Samples [cm]
0 - 3	7.5YR 4/2 (dark brown); no mottles; silty clay (loam); moderate medium subangular blocky breaking to crumb, including many fine worm casts; no cutans; common coarse pores including many faunal channels; moist & friable; many fine - coarse tree roots; no stones; common fine black ferrimanganiferous concretions; no charcoal; clear wavy boundary to:	[0-5]
3 - 20	7.5YR 4/3 (dark brown); no mottles; silty clay loam; moderate medium subangular blocky breaking to crumb; weak discontinuous clayskins; many fine pores, including few medium faunal channels; moist & friable; common fine & few coarse tree roots; common medium & fine whitish grey stones; few fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[5-15]
20 - 50	2.5Y 6/3 (light brownish grey), with many fine & medium distinct red & orange mottles; silty clay; weak medium subangular blocky breaking to crumb; weak continuous clayskins on channels walls; common fine pores including few fine worm channels; moist & slightly friable; few fine & medium tree roots; common fine whitish grey stones; few fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[15-25] [25-35] [35-45]
50 - 110	5Y 7/2 (light grey), with many coarse & medium distinct red mottles; silty clay loam; moderate medium & fine crumb; weak continuous clayskins; common fine pores; moist & slightly friable; few fine & medium tree roots; common fine soft orange weathered stones; many fine black ferrimanganiferous concretions; no charcoal; clear wavy boundary to:	[45-55] [55-65] [65-75] [75-85] [85-95] [95-105]
110 - 150+	Gley 1 7/10 (??) with many fine distinct orange mottles; gritty clay loam; moderate medium breaking to fine crumb; moderate continuous clayskins; few fine pores; moist & friable; rare fine tree roots; many fine & medium red hard stones; many medium & fine black ferrimanganiferous concretions; no charcoal:	[105-115] [115-125] [125-135] [135-145]

### **Correlations**

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**Catapan (1970):**      O T M-N Cf 1  
                                 M C        1 0

**World Reference Base:** Vertic Gleyic Alisol

**Soil Taxonomy:**      Vertic Oxyaquic Hapludult

**Features:**              Well drained top shallower < PF04 and subsoil is less pinkish, but friable to below 1.5 m, like PF04. Chemically more similar to Zetek than the other Lake profile, PF04 - dystric with high extractable Al and low EBS. Unequivocal Alisol.