

## Soil pit description: PF11

**Images:** PF11\_01.jpg, PF11\_02.jpg

**Soil class:** Wetmore  
**Map unit:** Z  
**Location:** Near marker 11, Standley Trail  
**Site position:** Lower slope  
**Slope:** 25% upslope 12% downslope, concave, aspect 300°  
**Parent material:** Caimito marine sedimentary  
**Forest structure:** Closed canopy, dense understory, few palms  
**Litter:** 100% cover, 4 layers, thin discontinuous root mat  
**Outcrops:** None  
**Stones:** None  
**Cracks:** None  
**Microrelief:** None  
**Faunal activity:** Many fine worm casts  
**Other surface features:** None

<b>Horizon [cm]</b>		<b>Samples [cm]</b>
<b>0 - 10</b>	N1 (black); no mottles; humic silty clay loam; weak fine & medium crumb including many fine worm casts; no cutans; common medium pores; slightly moist & friable; many fine tree roots; no stones; no concretions; no charcoal; clear slightly wavy boundary to:	[0-10]
<b>10 - 30</b>	10YR 5/2 (greyish brown); no mottles; silty clay; moderate coarse breaking to moderate medium subangular blocky with many fine worm cast-crumb; moderate discontinuous clayskins; common medium & coarse pores; slightly moist & friable; many fine & few medium tree roots; few fine orange hard stones; few medium black ferrimanganiferous concretions; no charcoal; clear slightly wavy boundary to:	[10-20] [20-30]
<b>30 - 85</b>	Mixed white & grey hard slightly weathered stones with orange soft patches & brown loam; pockets of termite nest crumb; strong continuous clayskins on cleavage faces; slightly moist; common fine & few medium tree roots; clusters of few black ferrimanganiferous concretions; no charcoal; clear slightly wavy boundary to:	[30-40]
<b>85 - 115+</b>	White & yellow hard slightly weathered stones with orange soft patches & brown loam; no cutans; slightly moist; many fine & common medium tree roots; no concretions; no charcoal:	None

### **Correlations**

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**Catapan (1970):** O C W-M Kc 4  
M D 1 2

**World Reference Base:** Eutric Cambisol

**Soil Taxonomy:** Typic Eutrudept

**Features:** Greyish colours unusual and may indicate limited weathering of Caimito Marine. Unusual combination of gibbsite and montmorillonite. Stones may be from conglomerate. Very high exchangeable Ca, TEB, Bs and EBS. Subsoil exchangeable K also high