

Table S.2.4.1.3 General Characteristics of Proposed Dam and Intake Site (12/18)

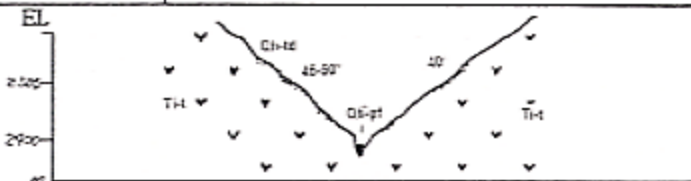

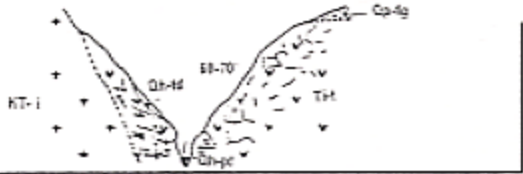

Site		Humuachaca		Department : Lima		Province : Yauyos		District : Yauyos		River : Cañete	
Topography	Riverbed width	Approximately 20 meters									
	Characters	Narrow V-shaped valley between steep rocky slopes generally 40° in angle and 80° in the base of the left margin.									
Schematic section	 <p>Qh-pf: Present fluvial deposit Qh-ld: Talus deposit Ti-t: Tantarà Formation</p>										
Geology	Geology of Basement		Left bank		River bed		Right bank		Issues	Study on the permeability of basement and countermeasure against alluvial cone from the tributary.	
			Lower Tertiary		Lower Tertiary		Lower Tertiary				
			Tantarà Formation		Tantarà Formation		Tantarà Formation				
			Andesitic lava (partially basaltic)		Andesitic lava (partially basaltic)		Andesitic lava (partially basaltic)				
	Condition of Base-ment	Fault	No detected		No detected		A sheared fault strikes N40° W and dips 75° to SW				
		Fracture	Many irregular fractures in the surface		Many irregular fractures in the surface		Many irregular fractures in the surface				
		Alteration	Slight alteration		Slight alteration		Crystallization of quarzo and epidote along the fractures.				
		Weathering	Slight weathering		Slight weathering		Slight weathering				
	Overlying Sediment		Small talus deposit of colluvial type on the concavity of slope		Present fluvial deposit consided of principally boulders		Thin talus deposit of colluvial type				
	Landslide and/or Failure		No present		No present		No present				
Remarks		Small tributary is present close to the proposed dam site, which shows an alluvial cone in the rivermouth.									
											
Site photo											
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Site	Paruco	Department : Lima	Province : Yauyos	District : Yauyos	River : Cañete		
Topography	Riverbed width	Approximately 12 meters				Dam site	a. Narrow gouge seems to be good dam site. b. Andesitic basement shows superficially many fractures.
	Characters	Narrow V-shaped valley between very steep rocky wall specially semi-vertical around the river channel.					
Schematic section	 <p>Qh-pf: Present fluvial deposit Qh-td: Talus deposit Qp-fg: Fluvio-glacial deposit Ti-t: Tantarà Formation KT-i: Andean Batholith</p>					Reservoir	The valley is narrow between both steep slopes overlaid by talus deposits.
						Evaluation	a. Topographic and geological conditions are suitable for a high dam. b. The storage capacity will be limited due to narrow valley.
Geology	Geology of Basement		Left bank	River bed	Right bank	Issues	Study on permeability of the basement and distribution of fluvio-glacial deposit will be important.
			u Cretaceous ~l Tertiary	u Cretaceous ~l Tertiary	u Cretaceous ~l Tertiary		
			Andean Batholith & Tantarà Fm.	Tantarà Formation	Tantarà Formation		
			Granodiorite and diorite in the upper part and andesite in the lower part.	Andesitic lava (dark gray, hard and compact)	Andesitic lava (dark gray, hard and compact)		
	Condition of Base-ment	Fault	Notorious faults are not present	Notorious faults are not present	Notorious faults are not present		
		Fracture	Fractures trend in parallel with river channel and dip steeply.	No detected	Fractures trend in parallel with river channel and dip steeply.		
		Alteration	No present	No present	Crystallization of epidote along the fractures.		
		Weathering	Slight rusty-weathering along the fracture.	Slight rusty-weathering along the fracture.	Slight rusty-weathering along the fracture.		
	Overlying Sediment		No present	Present fluvial deposit including boulder in large size	Little talus deposit on the slope. Fluvio-glacial deposit in the upper slope.		
	Landslide and/or Failure		No present	No present	No present		
Remarks		Numerous semi-vertical fractures are concentrically distributed upstream from the proposed dam in the left abutment. Thick fluvio-glacial deposit overlays on the basement in large scale.					
							

Negative No.7-4

Negative No.7-6