Inventory Survey of Check Dams in the Intensive Area

Inventory ID No. CD - 5 Page 1/2

Survey Date 12-Oct-00

1)Location

Name of the Dam	Leleko			
Coordintate	01°15'01"	N	124°51'56"	E
Name of the Location	Remboken, Sub-district Remboken			

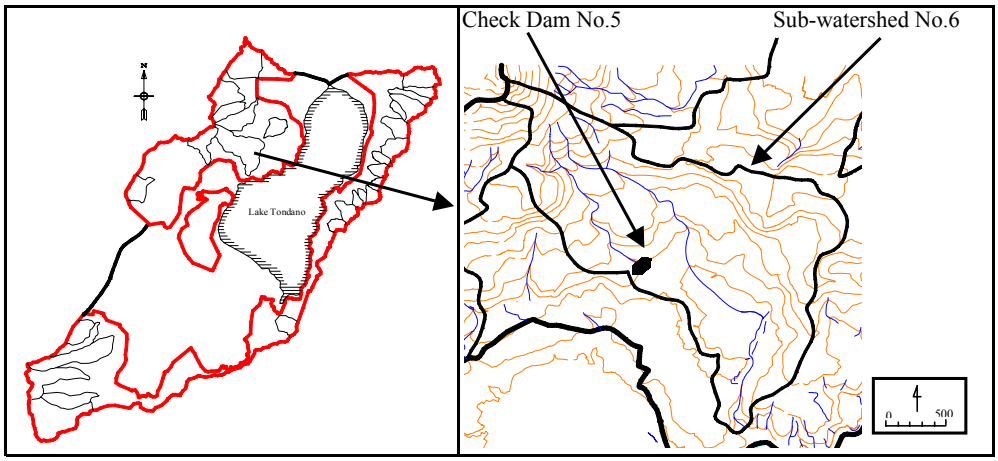
2)History

Year of construction	1984/1985
Government agency	BRLKT

3)Catchment Area

Sub-watershed No.	6	
Name of the Downstream River	Leleko	
Catchment area	68	ha
Estimated original river gradient	10	%
Landuse of the upstream	Arable Upland	

Plan



4)Dam Body

Dam Type	Earth Fill Dam	Crest Length	45.0	m	Note :
	Dam Pengendali	Crest Width	2.5	m	D/S = Downstream
D/S Slope	1:2.5 -	Dam Height	5.0	m	

View from upstream

Condition

Downstream slope is partially failed.
(about 30m^3)

The Study on Critical Land and Protection Forest Rehabilitation at Tondano Watershed in the Republic of Indonesia	**Figure HAT3.6**
Japan International Cooperation Agency	**Inventory Survey of Existing Check Dam (CD-5) (1/2)**

Inventory Survey of Check Dams in the Intensive Area

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5)Spillway

Spillway Bed Width	4.5	m	Material	Wet Masonry
Spillway Height	1.7	m		

View of spillway

Condition

Brushwoods are disturbing spillway flow section.

6)Intake Gate

Type Sluice Gate

View of intake gate

Condition

7)Water Supply

Intention for Water Supply	Yes
Purpose of Water Supply	Irrigation
Present Land Use of the Downstream	Arable Upland
Condition of Irrigatiion Facilities	Not functioning

8)Sedimentation

Status of Sediment Control	Functioning	
Deposition Gradient	1.8	%
Sedimentation Yield	3,000	m^3
	3.6	ton/ha/year

Assumed Apparent-specific Gravity of Soil = 1.3 ton/m^3

9)Dam Lake

General View of Dam Lake →

The Study on Critical Land and Protection Forest Rehabilitation at Tondano Watershed in the Republic of Indonesia	**Figure HAT3.6**
Japan International Cooperation Agency	**Inventory Survey of Existing Check Dam (CD-5) (2/2)**