

Inventory Survey of Check Dams in the Intensive Area

Inventory ID No.

CD - 9

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Survey Date 06-Nov-00

1) Location

Name of the Dam

Tumaratas

Coordinate

01°09'12" N

124°48'14" E

Name of the Location

Tumaratas, Sub-district Langowan

2) History

Year of construction

1993/1994

Government agency

District Forest Service

3) Catchment Area

Sub-watershed No.

11

Name of the Downstream River

Panasen

Catchment area

379 ha

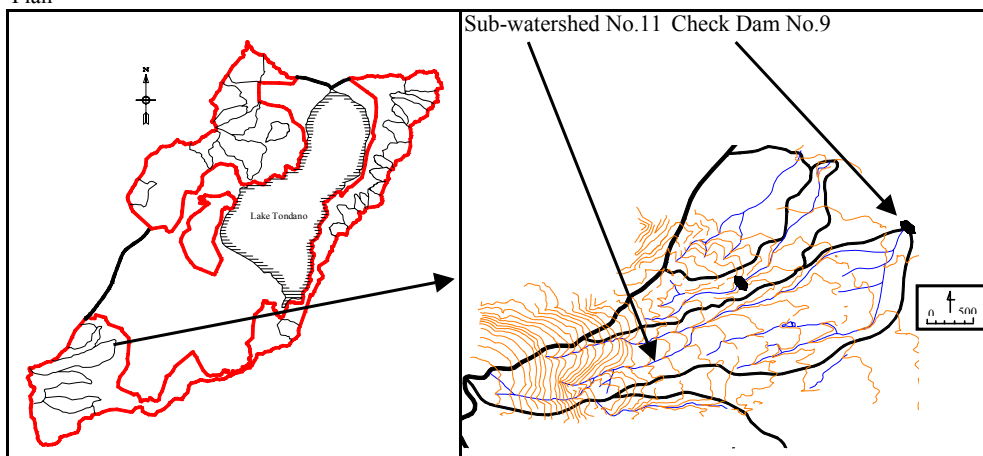
Estimated original river gradient

9 %

Landuse of the upstream

Arable Upland

Plan



4) Dam Body

Dam Type

Earth Fill Dam

Crest Length

45.0 m

Dam Pengendali

Crest Width

4.0 m

D/S Slope 1:2.0

Dam Height

8.0 m

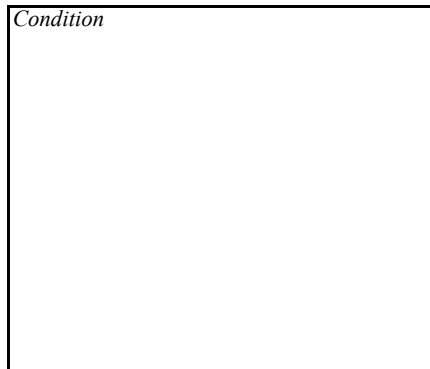
Note :

D/S = Downstream

View from upstream



Condition



**The Study on Critical Land and Protection Forest
Rehabilitation at Tondano Watershed
in the Republic of Indonesia**

Japan International Cooperation Agency

Figure HAT3.10

**Inventory Survey of Existing Check Dam
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5) Spillway

Spillway Bed Width 1.2 m
Spillway Height 1.0 m

Material Wet Masonry

View of spillway



Condition

Spillway dimension is different from its original design.

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	Paddy Field
Condition of Irrigation Facilities	Good

8) Sedimentation

Status of Sediment Control	Functioning
ton/ha/year	N/A %
Sedimentation Yield	N/A m ³
	N/A ton/ha/year

9) Dam Lake

General View of Dam Lake



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Figure HAT3.10

**Inventory Survey of Existing Check Dam
(CD-9) (2/2)**