

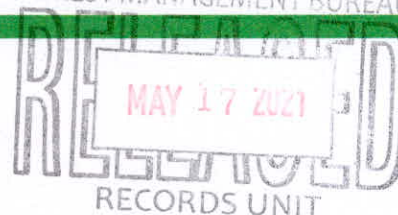


Republic of the Philippines
Department of Environment and Natural Resources
FOREST MANAGEMENT BUREAU

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FOREST MANAGEMENT BUREAU



MEMORANDUM

FOR : The Regional Executive Director
DENR Region MIMAROPA
Roxas Boulevard, Metro Manila

ATTN : The Assistant Regional Director for Technical Services

FROM : The Assistant Secretary for Policy, Planning, and Foreign Assisted and
Special Projects and Director, in concurrent capacity and
Chair, Watershed Multisectoral Technical Evaluation Committee
(WMTEC)

The Director, Policy and Planning Service and
Co-Chair, Watershed Multisectoral Technical Evaluation Committee
(WMTEC)

SUBJECT : **COMMENTS ON THE CHARACTERIZATION CUM
VULNERABILITY ASSESSMENT REPORTS OF MAG-
ASAWANG TUBIG AND BANSUD RIVER WATERSHEDS IN
DENR MIMAROPA**

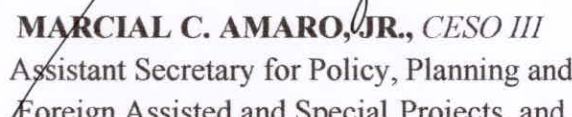
DATE : **MAY 14 2021**

This pertains to the Characterization cum Vulnerability Assessment Reports of Mag-Asawang Tubig and Bansud River Watersheds. Review and evaluation of the aforementioned reports disclosed the following general comments and recommendations (for the detailed comments and recommendations, please see attached Annex):

1. Please follow the outline indicated in Annex B of DMC 2008-05, also known as "Guidelines in the Preparation of Integrated Watershed Management Plans".
2. It was indicated that the area of Mag-Asawang Tubig River Watershed and Bansud River Watershed are 43,534.24 and 8,474.87 hectares, respectively. However, based on the IFSAR-LIDAR delineated boundary, the total area of Mag-Asawang Tubig and Bansud River Watersheds are 43,794 and 8,464 hectares, respectively.
3. Analysis and discussion on the Vulnerability Assessment of Mag-Asawang Tubig River Watershed is lacking.
4. Both reports did not follow the ERDB VA Outline Report and standard map layout.

Foregoing considered, the submitted Characterization cum Vulnerability Assessment Reports of Mag-asawang Tubig and Bansud River Watersheds are requested to be revised based on the comments and recommendations of the Watershed Multisectoral Technical Evaluation Committee (WMTEC) prior to the preparation of their respective Integrated Watershed Management Plans.

MELINDA C. CAPISTRANO
Director, Policy and Planning Service



MARCIAL C. AMARO, JR., CESO III
Assistant Secretary for Policy, Planning and
Foreign Assisted and Special Projects, and
Director, in concurrent capacity

Copy Furnished:
The Undersecretary for Field Operations and Environment

ANNEX

A. MAG-ASAWANG TUBIG RIVER WATERSHED

FMB

1. The document should be entitled "Watershed Characterization cum Vulnerability Assessment Report of Mag-Asawang Tubig River Watershed". The outline and discussions indicated in DMC 2008-05, also known as "Guidelines in the Preparation of Integrated Watershed Management Plans" should be followed.
2. On page 6, it was indicated that the area of Mag-Asawang Tubig River Watershed is 43,534.24 hectares. However, based on the IFSAR-LIDAR delineated boundary, the total area of the said watershed is 43,794 hectares.
3. On page 8, under "B. Topography/Geo-morphological Features", please show/include the values used in the computation of the geo-morphological features. For example, in Gravelius Form Factor, show and discuss the value of the basin length and average width of the watershed.
4. On page 21, under "D. Soil", discuss the essential features of the soil such as soil texture, soil structure, bulk density and permeability, soil fertility, and soil depth. Also include the assessment of soil characteristics relative to the suitability of an area for crop production.
5. On item "I. Flora and Fauna", please include computation and analysis on the biodiversity indices. The scientific names in Tables 15 (page 38) and 16 (page 40) should be italicized.
6. On pages 46-27, please include a table or graph showing the number of population segregated by sex, age which should be distributed in the watershed area, by barangay.
7. On pages 48, under "3. Livelihood and Income/Profile/Sources", please discuss the average annual household income per municipality and primary sources of livelihood in the community.
8. On page 49, under "5. Employment Pattern and Projection", please indicate the current employment and unemployment status opportunities and projections up to next the 10 years.
9. On page 50, under "8. Tourism and Recreation", please specify the tourist spots mentioned in the discussion. Under "b. Social Organization", discuss accredited or non-accredited NGOs within the area and the services rendered and extended to people in community development projects. Please also indicate the dialects spoken by the people.

ERDB

1. The process/ procedure in vulnerability assessment was missing in the report. It was not discussed. A schematic diagram of the process can be included in the report.
2. Some parts of the report were lifted from a completed ERDB study report, this should be properly cited.
3. It is advised to regenerate the VA map to the flooding following the procedure in the FMB TB 16-A.
4. Analysis and discussion on VA is lacking.

5. Follow the ERDB VA Outline Report.
6. Follow the standard map layout.
7. Use PAGASA projections (2030 and 2050) in generating VA to flooding and compare the generated results with the baseline information.
8. Maps (potential impact; adaptive capacity assessment and VA maps) were lacking in the report.

PPS

1. Please include more discussion and map outputs on the possible exposure of the communities and ecosystems with respect to identified hazards in the Mag-asawang Tubig Watershed.

B. BANSUD RIVER WATERSHED

FMB

1. Please follow the outline indicated in Annex B of DMC 2008-05, also known as "Guidelines in the Preparation of Integrated Watershed Management Plans".
2. The report indicates that the area of Bansud River Watershed is 8,474.87 hectares. However, based on the IFSAR-LIDAR delineated boundary, the total area of the said watershed is only 8,464 hectares.
3. The attached maps are not readable. It is suggested that map figures should occupy an entire page and map packages be included in the submission of the report.
4. On items "2.1.4.2 Soil Structure", "2.1.4.3 Bulk Density and Permeability" and "2.1.4.5 Soil Fertility, Soil Depth and Other Related parameters", please provide the mentioned soil structural grades and soil samples of Bansud River Watershed.
5. On item "2.1.4.4 Soil Erosion", please identify the priority areas requiring immediate attention and relate erosion condition with the suitability of land uses and the effectiveness of various conservation strategies.
6. On item "2.1 Biological Resources", please include computation and analysis on the biodiversity indices.
7. On item "2.3.1 Population Density", the population density should be rounded off to the nearest whole number (e.g. 10.33 persons should be 10 persons per hectare).

ERDB

1. Thematic maps to be reclassified from the characterization can be annexed at the end of the VA report.
2. Geology is not a parameter in assessing soil erosion vulnerability.
3. Include an analysis of the results generated for soil erosion and landslide.
4. For the VA to landslide, use the MGB geo-hazard map as base map overlaying the adaptive capacity map (from ERDB).
5. The report is not complete. There were no discussion on landslide vulnerability, mitigating measures and recommendations.
6. Follow the ERDB VA Outline Report.
7. Follow the standard map layout.
8. Use PAGASA projections (2030 and 2050) in generating VA to flooding and compare the generated results with the baseline information.

9. Maps (potential impact; adaptive capacity assessment and VA maps) were lacking in the report.

PPS

1. On Chapter II, the facts presented should be spatially presented and identified for easier analysis in Chapter III (Vulnerability Assessment). Please provide more discussion on the sensitivity, exposure and adaptive capacity of the communities and ecosystem as required in the FMB Technical Bulletin 16-A.

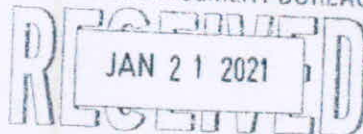
LMB

1. Please include the number of titled lands (alienable and disposable) in terms of hectares that are within the watershed.
2. Kindly correct the table number under Section 2.1.5. It should be Table 2.1.25.
3. Also consider the Ancestral Domains Sustainable Development and Protection Plan (ADSDPP), if available, of the Buhid and Bangon Mangyans in the crafting of the Watershed management Plan since most of the area within the watershed is covered by CADC 130. As mentioned in the draft report, the support from the Ips is crucial for the success of the programs in the watershed.



Department of Environment and Natural Resources
Ecosystems Research and Development Bureau

FOREST MANAGEMENT BUREAU



January 15, 2021

MEMORANDUM

FOR : Chairman
Watershed Multisectoral Technical Evaluation Committee
(WMTEC)
Forest Management Bureau

FROM : The Director

SUBJECT : **COMMENTS ON THE WATERSHED CHARACTERIZATION
CUM VULNERABILITY ASSESSMENT REPORT
SUBMITTED BY DENR MIMAROPA**

This has reference to your memorandum requesting for comments on the Watershed Characterization cum Vulnerability Assessment Reports of Bansud and Mag-asawang Tubig River Watershed in MIMAROPA. Please find attached comments on the said reports.

FOR YOUR INFORMATION AND CONSIDERATION.


HENRY A. ADORNADO, Ph. D.

College, 4031, Laguna, Philippines
Tel Nos: (6349)5363628; 5362229; 5362269 Fax No. (6349)5362850
E-mail: erdb@denr.gov.ph

Bansud River Watershed

Comments and suggestions:

Vulnerability Assessment

1. Thematic maps to be reclassified from the characterization can be annexed at the end of the VA report.
2. Geology is not a parameter in assessing soil erosion vulnerability.
3. Include an analysis of the results generated for soil erosion and landslide.
4. For the VA to landslide, use the MGB geo-hazard map as base map overlaying the adaptive capacity map (from ERDB).
5. The report is not complete. There were no discussion on landslide vulnerability, mitigating measures and recommendations.

Mag-Asawang Tubig Watershed

Comments and suggestions:

Vulnerability Assessment

1. The process/procedure in vulnerability assessment was missing in the report. It was not discussed. A schematic diagram of the process can be included in the report.
2. Some parts of the report were lifted from a completed ERDB study report, this should be properly cited.
3. It is advised to regenerate the VA map to flooding following the procedure in the FMB TB-16A.
4. Analysis and discussion on VA is lacking.

General comments:

(Bansud and Mag-Asawang Tubig Watershed)

1. Follow the ERDB VA outline report.
2. Follow the standard map layout.
3. Use PAGASA projections (2030 and 2050) in generating VA to flooding and compare the generated results with the baseline information.
4. Maps (potential impact; adaptive capacity assessment and VA maps) were lacking in the report.



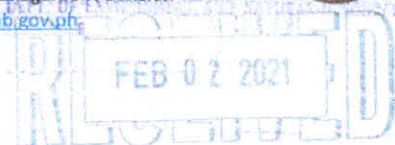
Republic of the Philippines
Department of Environment and Natural Resources

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RECORDS UNIT

MEMORANDUM

FOR : The Director and
Chairman, Watershed Multisectoral Technical Evaluation Committee
(WMTEC)

FROM : The Acting Director

SUBJECT : **REQUEST FOR COMMENTS ON THE WATERSHED
CHARACTERIZATION CUM VULNERABILITY
ASSESSMENT REPORTS SUBMITTED BY DENR
MIMAROPA**

DATE : 27 JAN 2021

This refers to your Memorandum dated 08 January 2021 requesting for comments on the watershed characterization cum vulnerability assessment reports of Bansud and Mag Asawang Tubig watersheds.

For the Bansud WC and VA Report, hereunder are our comments and suggestions:

- Please include the number of titled lands (alienable and disposable) in terms of hectares that are within the watershed.
- Kindly correct the table number under Section 2.1.5. It should be Table 2.1.25.
- Also consider the Ancestral Domains Sustainable Development and Protection Plan (ADSDPP), if available, of the Buhid and Bangon Mangyans in the crafting of the Watershed Management Plan since most of the area within the watershed is covered by CADC 130. As mentioned in the draft report, the support from the IPs is crucial for the success of the programs in the watershed.

With regard to the VA of the Mag Asawang Tubig watershed, please be informed that we have no further inputs on the report.

For your information and consideration.

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ATTY. EMELYNE V. TALABIS, CESE

RM



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PDS/01/21/2021
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MEMORANDUM

FOR : THE DIRECTOR
Forest Management Bureau

FROM : THE OIC, DIRECTOR
Policy and Planning Service

SUBJECT : COMMENTS ON THE WATERSHED CHARACTERIZATION
CUM VULNERABILITY ASSESSMENT REPORTS OF
MIMAROPA AND REGION VIII

DATE : 18 JAN 2021

This has reference to the draft Watershed Characterization cum Vulnerability Assessment Reports of Bansud, Mag-asawang Tubig, Bito, and Binahaan River Watersheds in Regions MIMAROPA and VIII submitted to this Office for review and evaluation.

Based on our evaluation, the said reports have generally complied with the requirements of the *FMB Technical Bulletin 16-A* in terms of the technical process requirements conducted. While this Office finds sufficient technical discussion and detailed explanation of the result, hereunder are our specific comments and suggestions:

MIMAROPA

1. Bansud River Watershed

On Chapter II, the facts presented should be spatially presented and identified for easier analysis in Chapter III (Vulnerability Assessment). Please provide more discussion on the sensitivity, exposure and adaptive capacity of the communities and ecosystem as required in the *FMB Technical Bulletin 16-A*.

2. Mag-Asawang Tubig River Watershed

Please include more discussion and map outputs on the possible exposure of the communities and ecosystems with respect to identified hazards in the Mag-asawang Tubig Watershed.

Region VIII

3. Bito River Watershed

The baselining was comprehensively conducted and followed the guidelines of FMB. Please include additional discussion and expound the result for "low overall weighted mean" in the adaptive capacity parameters. This is a valuable


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input for prioritizing and designing activities for the Integrated Watershed Management Plan (IWMP).

4. Binaha-an River Watershed

The Watershed Characterization was used and input to the vulnerability assessment and the exposure for the hazard was spatially identified in the maps. While the discussion was comprehensive and logical, some of the maps lack specific legends.

For consideration please.

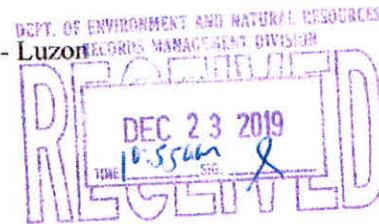

MELINDA C. CAPISTRANO



DEC 13 2019

MEMORANDUM FOR THE SECRETARY

THRU : The Assistant Secretary for Field Operations - Luzon
ATTENTION: The Director, Forest Management Bureau
FROM : The Regional Executive Director
SUBJECT : **SUBMISSION OF WATERSHED CHARACTERIZATION, VULNERABILITY ASSESSMENT & INTEGRATED WATERSHED MANAGEMENT PLAN**



The DENR MIMAROPA Region thru its Field Offices had adopted DENR Memorandum Circular 2008-05 and FMB Technical Bulletin No. 16 & 16-A, for the preparation of the Watershed Characterization, Vulnerability Assessment, and Integrated Watershed Management Plan.

The status of the target watershed management activities are as follows:

Field Office	Watershed Management Activity	Accomplishment (1 st to 3 rd quarter)	Accomplishment (4 th Quarter)
CENRO Socorro (under PENRO Oriental Mindoro)	Mag-asawang Tubig Watershed (Vulnerability Assessment)	<ul style="list-style-type: none">Data Collection from Municipalities of Naujan and Victoria, Philippine Statistics Authority (PSA) and PAG-ASA (15%);Interpolation and Collation (15%); andGeneration of twenty (20) maps was completed	Final Report (Hardcopy) received at the Regional Office, October 28, 2019
	Bansud River Watershed (Watershed Characterization & Vulnerability Assessment)	<ul style="list-style-type: none">Acquisition of secondary data (Municipal Development Plan, Land-Use Plan and Environmental profile);Conducted Leveling-off workshop meeting on July 2, 2019;First Draft for Chapters 1 and 2 was already submitted by the ConsultantAn orientation with regards to the preparation of WC and VA for the community was conducted on July 17, 2019 at Session Hall, Municipality of Bansud, Oriental Mindoro	Final Report (Hardcopy) received at the Regional Office on November 4, 2019



	Catuiran-Bucayao River Watershed (Integrated Watershed Management Plan)	<ul style="list-style-type: none"> • Coordination with the LGU regarding the preparation of IWMP; • Acquisition of secondary data; • Conducted Leveling-off Workshop Meeting on July 2, 2019; • A Stakeholder's Orientation /Workshop in the preparation of IWMP as well as the presentation of the results of the Catuiran-Bucayao WC-VA was conducted on July 18, 2019 at El Pueblo Rhizort, Calapan City; • First Draft for Chapters 1 and 2 was already submitted by the Consultant 	Final Report (Hardcopy) received at the Regional Office on November 4, 2019
CENRO San Jose (under PENRO Occidental Mindoro)	Caguray River Watershed (Watershed Characterization & Vulnerability Assessment)	<ul style="list-style-type: none"> • Gathering of Secondary Data for the Characterization and Vulnerability Assessment was already conducted; • Generated different thematic maps i.e. Political map, Climatic map, Geologic map, Topographic map, Vegetative Land Cover map, Location map, Slope map, Land Management map, Land Classification map, and Soil Erosion map; • Procurement of Technical Consultant for the preparation and interpretation of the data was already posted in PhilGEPS and the contract was already awarded. 	
CENRO Quezon (under PENRO Palawan)	Malatgao River Watershed (Watershed Characterization & Vulnerability Assessment)	<ul style="list-style-type: none"> • May 6, 2019 - Prepared a letter to Hon. Lucena D. Demaala, Municipal Mayor of Narra regarding the preparation of Watershed Characterization and Vulnerability Assessment of Malatgao River Watershed and invited Key Officials of the Municipality on a Round Table Discussion which was conducted on May 28, 2019; • May 8, 2019 - CENRO Leonard Caluya signed Special Order No. 15, series 	



		<p>of 2019 entitled: "Creation of Watershed Management Vulnerability Assessment Team (WMVAT)";</p> <ul style="list-style-type: none">• May 22, 2019 – CENRO Caluya signed a memorandum appointing a Focal Person for the Watershed Characterization and Vulnerability Assessment of Malatgao River Watershed;• Initial report on the preparation of Watershed Characterization and Vulnerability Assessment with attached digitized map, plan of activities, CENRO Special Order and Letter Request to MLGU Narra, Palawan was submitted to the RED thru PENRO Palawan on May 24, 2019;• May 31, 2019 – a report was submitted to CENRO Caluya on the conducted Round Table Discussion on May 28, 2019 and was endorsed to PENRO Palawan dated June 17, 2019;• A 2nd quarter progress report on Watershed Management with Vulnerability Assessment was submitted and endorsed on June 17, 2019;• July 9, 2019 – CENRO Quezon requested assistance from RED regarding the conduct of Watershed Characterization and Vulnerability Assessment as cited in FMB Technical Bulletin No. 16;• Secondary data gathering and small group discussion with some of the barangays within Malatgao River Watershed was conducted on the first week of July and report was submitted on July 9, 2019;• Request for a copy of the Characterization of Malatgao River prepared by	<p>Final Report (Hardcopy) received at the Regional Office on October 18, 2019</p>
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Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region

		<p>ERDB was sent to RED on July 15, 2019;</p> <ul style="list-style-type: none">• Progress report on Malatgao Watershed Characterization and Vulnerability Assessment as of July 2019 was submitted on July 24, 2019;• July 25, 2019 – Request for technical assistance in the conduct of Water Quality was sent to OIC-PEMU Edna Velasco and a letter requesting for the assistance on the analysis of water quality was sent to Executive Director Nelson P. Devanadera of PCSD.• August 7-16, 2019 – Primary data gathering was conducted which include Flora and Fauna Assessment within the Malatgao Watershed and measuring of stream flow of the upper, middle and lower part of the watershed.	
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Attached are the hardcopy of the Characterization, Vulnerability Assessment, & Integrated Watershed Management Plan.

For the Secretary's information and record.


HENRY A. ADORNADO, Ph.D.



Department of Environment
and Natural Resources
MIMAROPA Region



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