



Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE**

JUN 26 2023

**MEMORANDUM**

**FOR** : The Regional Executive Director  
DENR MIMAROPA Region  
1515 DENR By the Bay Building, Roxas Boulevard,  
Barangay 668, Ermita, Manila

**THRU** : The ARD for Technical Services

**FROM** : The OIC, PENR Officer

**SUBJECT** : **PROGRESS REPORT ON INLAND WETLAND PROFILING  
OF IGMANUKAN LAKE WITHIN MT. CALAVITE  
WILDLIFE SANCTUARY (MCWS)**

Forwarded is the memorandum dated June 21, 2023 of CENRO Sablayan regarding progress report of Mt. Calavite Wildlife Sanctuary-Protected Area Management Office (MCWS-PAMO) inland/wetland profiling of Igmanukan Lake within Mt. Calavite Wildlife Sanctuary (MCWS).

The conduct of inland wetland profiling of Igmanukan lake started on April 21, 2023 by the MCWS-PAMO staff headed by the PASu together with Noriel M. Dulatre, Park Maintenance Foreman and GIS Operator of PENRO Occidental Mindoro conducted a Water Quality Checker within Igmanukan Lake. Igmanukan lake was determined to a marsh according to the BMB Technical Bulletin No. 2018-06 as its area is below 8 hectares. Based on the biodiversity assessment of flora and fauna a total of 31 floral species were recorded, 30 among those floral species were terrestrial and one (1) invertebrate. The remaining data related to the wetland's minimum and maximum area, length, width and depth will be conducted during the wet season. The assessment was conducted following the guidelines outlined in the BMB Technical Bulletin No. 2028-06.

Attached with the report are the geotagged pictures taken during the aforementioned activity.

For information and record.

  
**ERNESTO E. TAÑADA**

TSD-CDS6/23/2023  
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Republic of the Philippines  
**Department of Environment and Natural Resources**  
MIMAROPA Region  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**

JUN 21 2023

MEMORANDUM

FOR : The Regional Executive Director  
DENR MIMAROPA Region  
1515 DENR By the Bay Building, Roxas Boulevard,  
Barangay 668, Ermita, Manila

THRU : The PENR Officer  
Mamburao, Occidental Mindoro

FROM : The CENR Officer

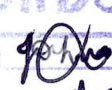

SUBJECT : PROGRESS REPORT ON INLAND WETLAND PROFILING OF  
IGMANUKAN LAKE WITHIN MT. CALAVITE WILDLIFE  
SANCTUARY (MCWS)

Respectfully forwarded is the progress report of Mt. Calavite Wildlife Sanctuary-Protected Area Management Office (MCWS-PAMO) inland/wetland profiling of Igmanukan Lake within Mt. Calavite Wildlife Sanctuary (MCWS).

Attached are the geotagged photos of the conducted activities.

For your information and record

  
FOR. ANASTACIO A. SANTOS, MPA

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**Department of Environment and Natural Resources**

**MIMAROPA Region**

**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**

**MT. CALAVITE WILDLIFE SANCTUARY**

**PROTECTED AREA MANAGEMENT OFFICE**

June 21, 2023

MEMORANDUM

FOR : The Regional Executive Director  
DENR MIMAROPA Region  
1515 DENR By the Bay Building, Roxas Boulevard,  
Barangay 668, Ermita, Manila

THRU : The PENR Officer  
Mamburao, Occidental Mindoro

The CENR Officer  
Sablayan, Occidental Mindoro

FROM : The Protected Area Superintendent

SUBJECT : PROGRESS REPORT ON INLAND WETLAND PROFILING OF  
IGMANUKAN LAKE WITHIN MT. CALAVITE WILDLIFE  
SANCTUARY (MCWS)

Submitting herewith the progress report on inland/wetland profiling of Igmanukan Lake within Mt. Calavite Wildlife Sanctuary (MCWS).

The said profiling started on April 21, 2023 and details of activities conducted are elaborated in the attached progress report.

Attached are the geotagged photos of the activities conducted.

For information and record.

  
**ARLENE V. FRANCISCO**





Republic of the Philippines

**Department of Environment and Natural Resources**

MIMAROPA Region

**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**

**MT. CALAVITE WILDLIFE SANCTUARY**

**PROTECTED AREA MANAGEMENT OFFICE**

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## **PROGRESS REPORT**

### **INLAND WETLAND PROFILING OF IGMANUKAN LAKE IN MT. CALAVITE WILDLIFE SANCTUARY**

This progress report provides an update on the inland wetland profiling of Igmanukan Lake, located within the Mt. Calavite Wildlife Sanctuary at Sitio Hinugasan, Barangay Harrison, Municipality of Paulan, in the Province of Occidental Mindoro. According to the Department of Environment and Natural Resources - Biodiversity Management Bureau (DENR-BMB), wetlands are characterized as land areas that are flooded or saturated with water, either temporarily during specific seasons or permanently. These waterlogged environments exhibit distinct ecological characteristics, forming unique ecosystems that support diverse forms of life. This necessitates the importance of studying these bodies of water and understanding the unique characteristics, functions, and ecological processes that occurs within these ecosystems.

The conduct of inland wetland profiling of Igmanukan Lake started on April 21, 2023, the MCWS-PAMO staff headed by Protected Area Superintendent, Forested Arlene V. Francisco, together with Mr. Noriel Dulatre, Park Maintenance Foreman and GIS Operator of PENRO Occidental Mindoro conducted a water quality assessment using Horiba u52G Water Quality Checker within Igmanukan Lake. This was followed by weekly visits on the lake to conducted weekly measurements of its area, length, width and depth for the dry season, followed by the wet season upon the onset of rainy season here in the Philippines. Simultaneously, floral and faunal biodiversity assessment were also conducted within the area every visit.

The following are the significant progress MCWS-PAMO already made on the inland wetland profiling of Igmanukan Lake:

- The wetland type classification of Igmanukan, referred to as Igmanukan Lake, was determined to be a marsh according to the BMB Technical Bulletin No. 2018-06, as its area is below 8 hectares.
- Geographic information regarding the wetland's administrative boundaries, administrative location/coverage, demographic information, climate type, and climatological normal have been obtained.
- Data on the minimum and maximum area, length, width, and depth during the dry season, as well as elevation have been collected.
- Comprehensive information on the bio-chemico-physical characteristics of Igmanukan Lake has been gathered. This includes the identification of soil type and biology, assessment of water source, analysis of water quality.

3<sup>rd</sup> Floor, Espejo Bldg. DENR Compound, Mamburao, Occidental Mindoro

E-mail: [mcws.denr@gmail.com](mailto:mcws.denr@gmail.com)





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- Biodiversity assessment of noteworthy flora and faunal communities present within the wetland were recorded. A total of 31 floral species were recorded, 30 among those floral species were terrestrial and one (1) aquatic species. There were also 24 faunal species recorded, 21 of which were terrestrial species consist of 15 birds, two (2) mammals, three (3) herpetofaunas and one (1) invertebrate. The remaining 3 species were aquatic faunal species consisting of two (2) fish species and one (1) invertebrate.
  - A thorough assessment of the wetland benefits has been conducted, following the guidelines outlined in the BMB Technical Bulletin No. 2018-06. This assessment focuses on the provisioning, regulatory, cultural and supporting services provided by Igmanukan Lake.
  - Extensive data pertaining to the management of Igmanukan Lake has been collected. This includes information about the land use surrounding the wetland, existing pressures and threats to its ecological integrity, the conservation and management status of the wetland, as well as any existing management plans and monitoring programs in place.

The only remaining data that still needs to be gathered relates to the wetland's minimum and maximum area, length, width, and depth during the wet season. As the wet season in the Philippines has recently started in June, efforts will be made to collect this information promptly to complete the comprehensive profile of Igmanukan Lake. Significant progress has been made in profiling the inland wetland of Igmanukan Lake. Once this information is obtained, a comprehensive profile of Igmanukan Lake will be available, aiding in the conservation and effective management of this valuable wetland ecosystem within the Mt. Calavite Wildlife Sanctuary.

Prepared by:

  
**JOHN BENEDICK O. PERIDA**

EMS I

Checked and reviewed:

  
**JOSIE R. CORPUZ**  
ECOMS I/Technical Support Staff

  
**ARLENE V. FRANCISCO**  
Protected Area Superintendent





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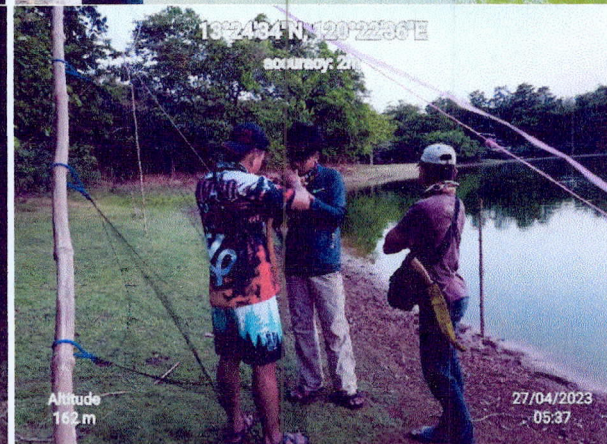
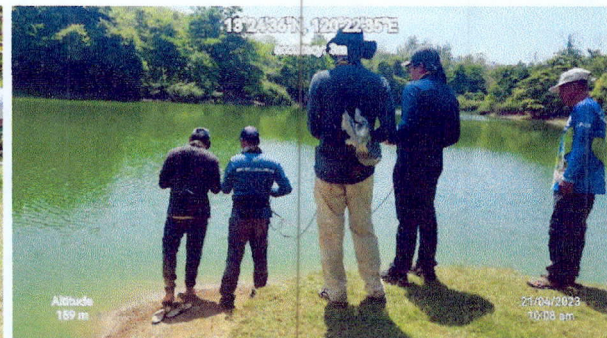
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## PHOTO DOCUMENTATION



3<sup>rd</sup> Floor, Espejo Bldg. DENR Compound, Mamburao, Occidental Mindoro

E-mail: [mcws.denr@gmail.com](mailto:mcws.denr@gmail.com)





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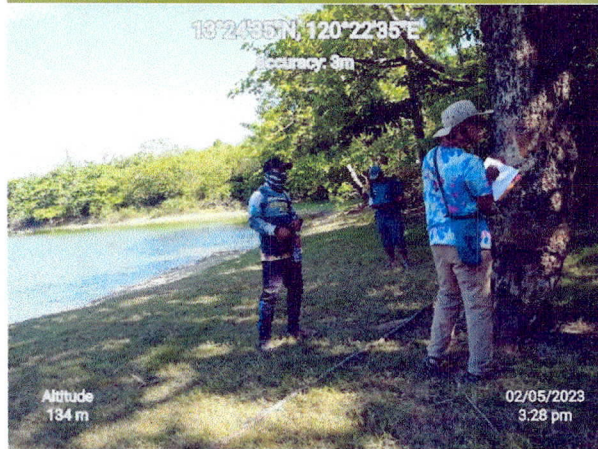
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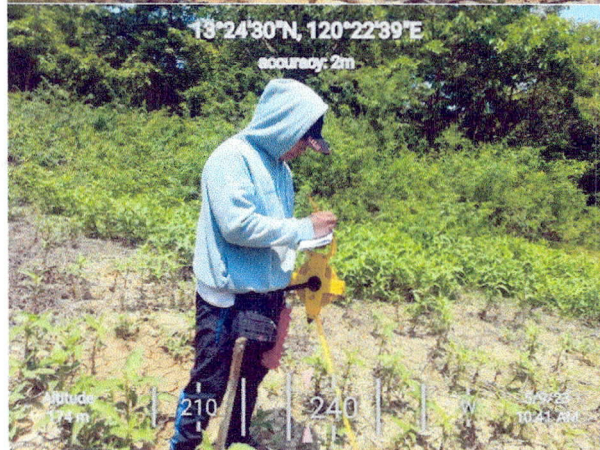
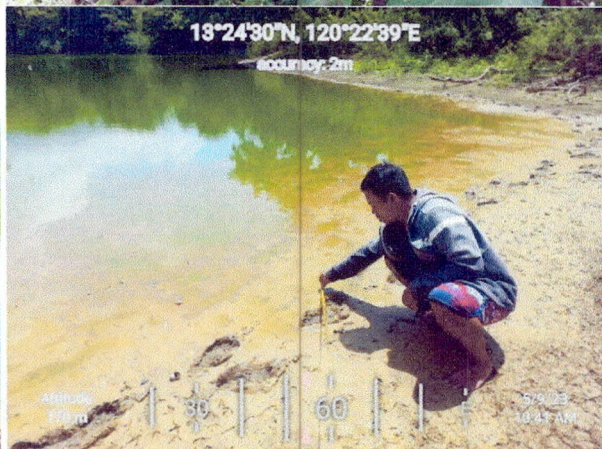
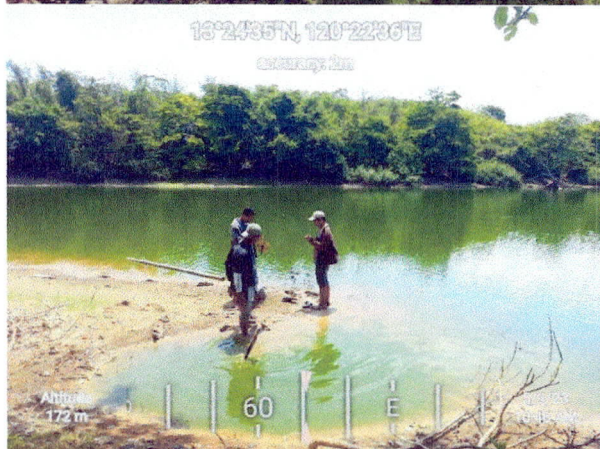
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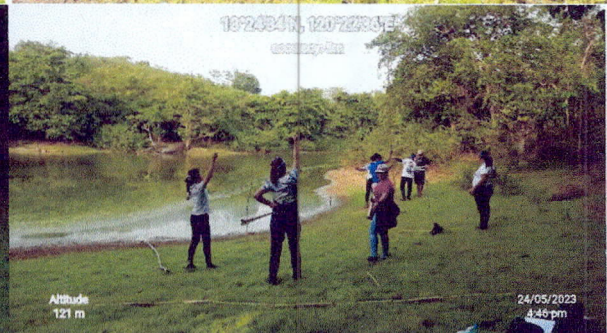
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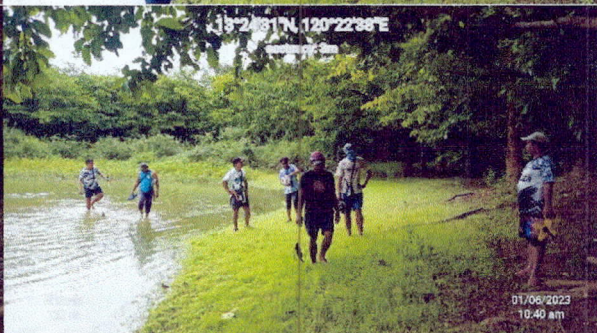
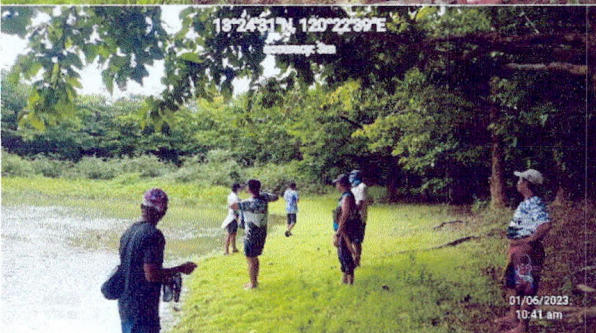
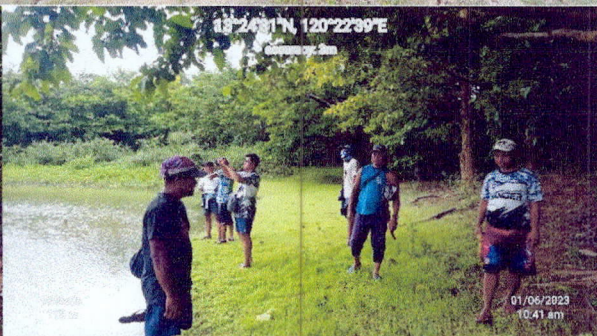
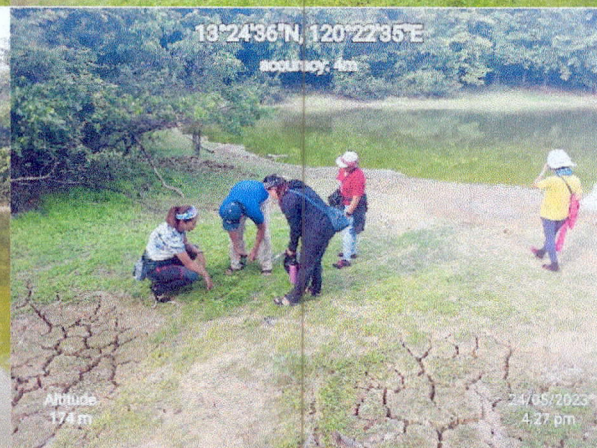
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