



Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
MIMAROPA Region

Bgy. Sta. Monica, Puerto Princesa City, Palawan

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Telfax No. (048) 433-5638 / (048) 433-5638

DENR MIMAROPA RECORDS SECTION	
RECEIVED	
21 JUL 2022	
INCOMING	OUTGOING
DATE	DATE

July 13, 2022

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA
1515 L&S Bldg., Roxas Blvd.
Ermita, Manila

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **PROGRESS REPORT ON MONITORING OF MANGROVES
FOR EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED
AREA (ENTMRPA), EL NIDO, PALAWAN**

Forwarded is the memorandum dated July 1, 2022 from CENRO Taytay along with the Progress Report on the monitoring of Mangroves within El Nido-Taytay Managed Resource Protected Area (ENTMRPA).

Please be informed that the ENTMRPA- PAMO assessed a total of 17.3 hectares of mangrove on June 13-14, 2022 at Sitio Manlalic, Barangay Manlag, El Nido, Palawan.

For information and record.

"For the PENRO"

Atty

ANGELICA D. VERIAN

Senior Forest Management Specialist/NGP Provincial Coordinator

In-Charge Office of the PENRO



DENR-PALAWAN
PENRO-RECORDS
RELEASED
By: [signature]
Date: 14 JUL 2022



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

By the National Highway, Poblacion, Taytay, Palawan 5312

Mobile: 0926-505-9335 TM 0912-171-3889 TNT

Email: cenrotaytay@denr.gov.ph

July 01, 2022

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer- Palawan
Sta. Monica, Puerto Princesa City

FROM : The Community Environment and Natural Resources Officer
This jurisdiction

SUBJECT : **PROGRESS REPORT ON MONITORING OF MANGROVES
FOR EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED
AREA (ENTMRPA), EL NIDO, PALAWAN**

Respectfully forwarded is the memorandum dated June 20, 2022 from Assistant Protected Area Superintendent (APASu) Jenuel P. Casel pertaining to the target 001 Monitoring of Mangroves per Protected Area (PA) under Marine Protected Area Strengthening and Networking.

Report discloses that the PAMO-ENTMRPA assessed a total of 17.3 hectares of Mangroves on June 13-14, 2022 at So. Manlalic, Barangay Manlag, El Nido, Palawan. A total of five (5) species of Mangroves were identified and recorded within the assessed area.

For information and record.

For and in the absence of the CENRO:

DENR CENRO
TAYTAY, PALAWAN
RELEASED
BY:
DATE: JUL 01 2022 1869

ALEXANDER E. MANCIO
SEMS/Chief, RPS
In-charge, Office of the CENRO
R

Cc: PAMO-ENTMRPA



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region

Community Environment and Natural Resources
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA

Calle Real, Barangay Masagana, El Nido, Palawan, 5313

Telephone No. 048-716-0674

Email: denrpao_elnidopal@yahoo.com / entmrpa@gmail.com

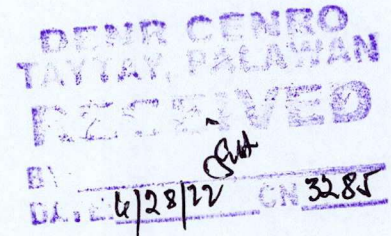
June 20, 2022

MEMORANDUM

FOR : The Community Environment and Natural Resources Officer
Taytay, Palawan

FROM : The Protected Area Superintendent
El Nido-Taytay Managed Resource Protected Area

SUBJECT : PROGRESS REPORT ON MONITORING OF MANGROVES PER PA



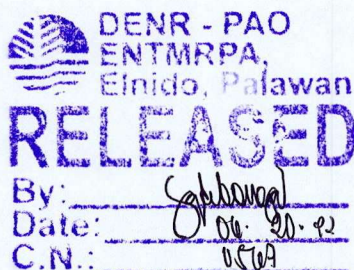
Respectfully forwarded is the memorandum report of CMEMP Extension Officer of El Nido- Taytay Managed Resource Protected Area - Protected Area Management Office (ENTMRPA-PAMO) regarding the above subject. This pertains to the target activity 001 Monitoring of Mangroves per Protected Area (PA) under Marine Protected Area Strengthening and Networking.

Please be informed that the ENTMRPA-PAMO conducted mangroves assessment on June 13-14, 2022 at So. Manlalic, Barangay Manlag, El Nido, Palawan. Findings and observation were thoroughly presented in the attached report.

This serves as a milestone activity under Marine Protected Area Strengthening and Networking.

For information and record.

For the PASu:



JENUEL P. CASEL
Asst. Superintendent Protected Area
Park Maintenance Foreman



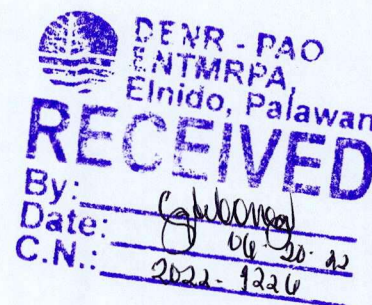
June 20, 2022

MEMORANDUM

FOR : The Protected Area Superintendent
El Nido- Taytay Managed Resource Protected Area

FROM : CMEMP Extension Officer
El Nido- Taytay Managed Resource Protected Area

SUBJECT : PROGRESS REPORT ON MANGROVE ASSESSMENT AT BGY. MANLAG, EL NIDO, PALAWAN



This pertains to the target activity 001 Monitoring of Mangroves per PA under Marine Protected Area Strengthening and Networking of El Nido-Taytay Managed Resource Protected Area (ENTMRPA) – Protected Area Management Office (PAMO).

Please be informed that the undersigned together with ENTMRPA-PAMO personnel APAsu Jenuel P. Casel, Faith D. Bangalisan, Steven John Andao, Reina Rose Abordo, Jordan Asuncion, and John Vincenth Cuyo together with Municipal Environment and Natural Resources Office (MENRO) conducted mangrove assessment at So. Manlalic, Bgy. Manlag, El Nido, Palawan on June 13-14, 2022.

The said activity conducted within mangrove area of So. Manlalic covering 17.3 hectares, the sampling area has four hundred (400) meters baseline transect, four (4) plots, nine (9) 10 by 10 quadrats, and nine (9) 2 by 2 quadrat inside the 10 by 10 quadrat.

Table 1 List of mangrove species recorded and observed within sampling plots

Common Name	Scientific Name
Pototan	<i>Bruguiera cylindrica</i>
Baras-baras	<i>Ceriops decandra</i>
Bakhaw lalake	<i>Rhizophora apiculata</i>
Bakhaw babae	<i>Rhizophora mucronata</i>
Pagatpat	<i>Sonneratia alba</i>

A total of five (5) species of mangroves were identified and recorded within the assessed sampling plots. The species found in each plot were identified and classified taxonomically using field guide of J.H. Primavera, Ph. D., (2009).

Table 2 Number of saplings and seedlings

Saplings	0
Seedlings	48

Table 2 shows the number of saplings and seedlings recorded in a 2 by 2 quadrat. A total of forty-eight (48) pieces of seedlings recorded, however there were no saplings recorded in a 2 by 2 quadrat.

Table 3 Occurrence and Abundance of Mangrove Species

Species	Frequency of Occurrence	Abundance
<i>Bruguiera cylindrica</i>	3	25
<i>Ceriops decandra</i>	1	5
<i>Rhizophora apiculata</i>	4	188
<i>Rhizophora mucronata</i>	1	2
<i>Sonneratia alba</i>	1	1

Four (4) sampling plots were established. As reflected in Table 3, among the five (5) species identified, *Rhizophora apiculata* is the most occurring species and most abundant species, followed by *Bruguiera cylindrica*. Whereas, *Ceriops decandra*, *Rhizophora mucronata*, and *Sonneratia alba* are the least occurring and least abundant species.

Figure two (2) shows the computed average relative density of each mangrove species. The highest value of relative density was *Rhizophora apiculata*, which had 91.14%. Meanwhile, the remaining species - *Bruguiera cylindrica*, *Ceriops decandra*, *Rhizophora mucronata*, and *Sonneratia alba* had relative density value of 5.68%, 2.27%, 0.46% and 0.46, respectively.

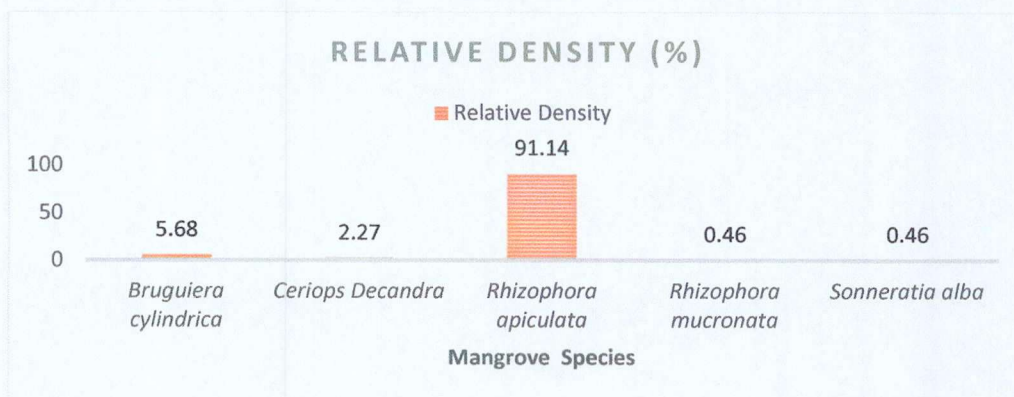
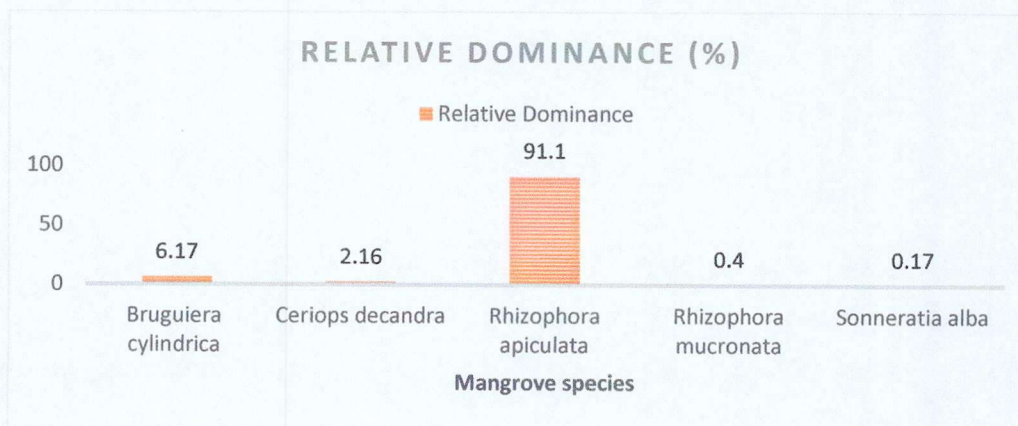
Figure 2 Showing average relative density of mangrove species

Figure 3 shows the computed average relative dominance of each mangrove species. The most dominant was *Rhizophora apiculata* which had 91.1%. On the other hand, the remaining species - *Bruguiera cylindrica*, *Ceriops decandra*, *Rhizophora mucronata*, and *Sonneratia alba* had 6.17%, 2.16%, 0.4%, and 0.17%, respectively.

Figure 3 Showing average relative dominance of mangrove species



Index of Evenness is the measure of how evenly species are distributed inside the quadrat, a value of 0.92 was acquired which well corresponds to very high relative to the values of Fernando Biodiversity Scale (1998). However, in terms of Shannon diversity index of all sampling plots obtained 0.5, and based on the classification given by Fernando (1998), the area falls under very low diversity category. According to the result, index of evenness and shannon diversity index are inversely proportional to each other.

Furthermore, there were mangrove cuttings observed and documented in the area that also contributes to the mangrove species growing in area the were not diverse.

It is recommended to conduct regular monitoring in all mangrove forest within political boundary of ENTMRPA in order to protect the mangrove forest from anthropological disturbances.

For information and record.


MARIEL M. PALADAN

PHOTO DOCUMENTATION



CERTIFICATION

This is to certify that the above photos are true and correct and taken during the mangrove monitoring at So. Manlalic, Bgy. Manlag on June 13-14, 2022.


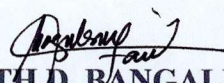

FAITH D. BANGALISAN
Bookkeeper II

PHOTO DOCUMENTATION



CERTIFICATION

This is to certify that the above photos are true and correct and taken during the mangrove monitoring at So. Manlalic, Bgy. Manlag on June 13-14, 2022.


FAITH D. BANGALISAN
Bookkeeper II