



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

E-mail: penropalawan@denr.gov.ph

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

DENR MIMAROPA RECORDS SECTION

RECEIVED

15 SEP 2022

☐ INCOMING

☐ OUTGOING

DATE

NO.

September 09, 2022

MEMORANDUM

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

THRU : The OIC, ARD for Technical Services

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **IDENTIFICATION OF CORAL REHABILITATION SITES
WITHIN EL NIDO-TAYTAY MANAGED RESOURCE
PROTECTED AREA (ENTMRPA)**

Forwarded is the memorandum dated August 30, 2022 of CENRO Taytay regarding the identification of coral rehabilitation sites within El Nido-Taytay Managed Resource Protected Area (ENTMRPA) that serves as **Means of Verification (MOV)** to the target activity under Integrated Protected Area Fund (IPAF) of ENTMRPA – Biodiversity Conservation and Ecosystem Management – Identification of Coral Rehabilitation Sites within PA.

Please be informed that the PAMO-ENTMRPA conducted initial identification of coral rehabilitation sites on August 2, 2022 and identified three (3) proposed rehabilitation sites, particularly at Turtle Island, Popolcan Island, and Entalula Island. The said sites have an estimated hard coral cover of 15–30%, which is found to be degraded.

It is recommended to conduct baseline assessment and reduce or eliminate the threats, disturbances and determine the causes of degradation before conducting coral rehabilitation activities.

For information and record.



FELIZARDO B. CAYATOC

**DENR-PALAWAN
PENRO-RECORDS
RELEASED**

By: *Rhea*
Date: 17 SEP 2022 2022-2317



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

August 30, 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 : **IDENTIFICATION OF CORAL REHABILITATION SITES
WITHIN EL NIDO-TAYTAY MANAGED RESOURCE
PROTECTED AREA (ENTMRPA)**

Respectfully forwarded is the memorandum dated August 22, 2022 of Protected Area Superintendent (PASu) Mildred A. Suza and acted by this Office on August 30, 2022 being an accomplishment and as **Means of Verification (MoV)** on the target Biodiversity Conservation and Ecosystem Management – Identification of Coral Rehabilitation Sites within PA under Integrated Protected Area Fund (IPAF) of El Nido-Taytay Managed Resource Protected Area (ENTMRPA), El Nido, Palawan.

Please be informed that PAMO-ENTMRPA conducted the initial identification of corals in the three (3) proposed rehabilitation sites namely Turtle Island, Popolcan island and Entatlula Island, Barangay Bebeladan, El Nido, Palawan.

Hence, the undersigned concurred with the recommendation of PASu Mildred A. Suza to conduct baseline assessment before conducting coral rehabilitation activities.

For his information, record and consideration.

Cc: PAMO-ENTMRPA

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

BY: fei
DATE: AUG 31 2022 CM 2022

ALAN VALLE



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
Community Environment and Natural Resources Office
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Calle Real, Bgy. Masagana, El Nido, Palawan 5313
Landline No. 048-716-0674
Email: denrpao_elnidopal@yahoo.com / entmrpa@gmail.com

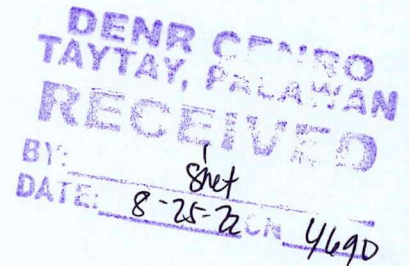
August 22, 2022

MEMORANDUM

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

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

SUBJECT : IDENTIFICATION OF CORAL REHABILITATION SITE
WITHIN THE JURISDICTION OF EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA
(ENTMRPA)



Respectfully forwarded is the memorandum report of Protected Area Management Office (PAMO) dated August 3, 2022 pertaining to the target Integrated Protected Area Fund (IPAF) Identification of Coral Reef Rehabilitation Sites within Protected Area under Biodiversity Conservation and Ecosystem Management of El Nido-Taytay Managed Protected Area (ENTMRPA) – Protected Area Management Office (PAMO).

Please be informed that the ENTMRPA –PAMO conducted initial identification of coral rehabilitation site in Turtle Island, Popolcan Island, and Entalula Island, Barangay Bebeladan, El Nido, Palawan on August 2, 2022.

Based on the report, the team identified three (3) proposed rehabilitation sites particularly at Turtle Island, Popolcan Island, and Entalula Island. The three said sites has an estimated hard coral cover of 15-30% which is found to be degraded.

The undersigned concurs with the team's recommendations to conduct baseline assessment and reduce or eliminate the threats, disturbances and determine the causes of degradation before conducting coral rehabilitation activities.

For information and record.



[Signature]
MILDRED A. SUZA



August 3, 2022

MEMORANDUM

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

FROM : PAMO Personnel
El Nido-Taytay Manage Resource Protected Area

SUBJECT : **IDENTIFICATION OF CORAL REHABILITATION SITE
WITHIN THE JURISDICTION OF EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA (ENTMRPA)**



Please be informed that on August 2, 2022 the undersigned together with Park Maintenance Foreman Jenuel P. Casel and Park Ranger Steven John B. Andao conducted initial identification of coral rehabilitation site particularly at Turtle Island, Popolcan Island and Entalula Island, Barangay Bebeladan, El Nido, Palawan.

Initially, the team visited the coral rehabilitation site in Snake Island which was established last 2013 to estimate the success rate of the design used in the said coral rehab, which are the coral fragments are attached to a dome-shaped foundation made of iron steel. The said design has a 70-80 percent (%) success rate despite the present of the chronic stressor/threats in the area such as Crown of Thorns (COT) infestation and the previous surge of typhoon Odette last December 2021.

Further, the team validated the status of coral area of the aforementioned islands and conduct photo documentation and recorded the Global Positioning System (GPS) location of the area and the following are the recorded data, to wit:

Identified Site	GPS Location	Water Use based on PAMP	Coral Status
Turtle Island	11° 6'32.06"N 119°18'24.20"E	Strict Protection Zone	Degraded (rubble and dead corals) with estimated of 20-30 % hard coral cover. Presence of macro algae (Sargassum) is also observed.
Popolcan Island	11° 7'2.65"N 119°20'27.25"E	Diving Site	Degraded with estimated 15-30% hard coral cover. Presence of Crown of Thorns is recorded.
Entalula Island	11° 7'38.69"N 119°20'12.05"E	Diving Site	Degraded with estimated 20-35% hard coral cover.

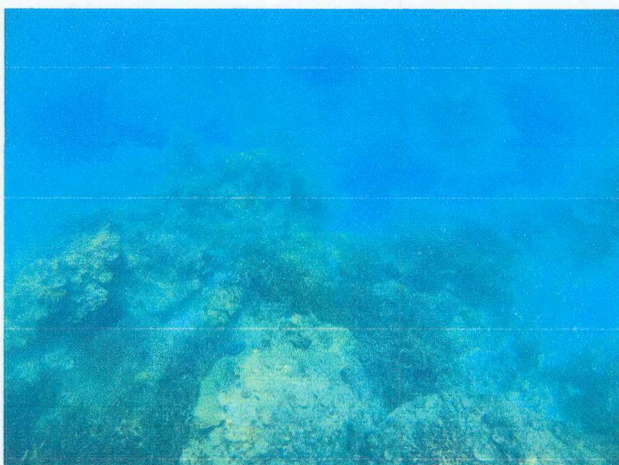
In view hereof, the above coral areas are hereby proposed as the coral rehabilitation site for CY 2023 and the design used in Snake Island coral rehab be adopted. Baseline assessment is also recommended and presence of threats must be reduced or eliminated pursuant to the Biodiversity Management Bureau (BMB) Technical Bulletin 2019-03. Installation of mooring buoy at Popolcan and Entalula is also pivotal before the establishment of the foundation for coral rehabilitation.


MARIEL M. PALADAN
CMEMP, Extension Officer

PHOTO DOCUMENTATION



Coral Rehab site at Snake Island

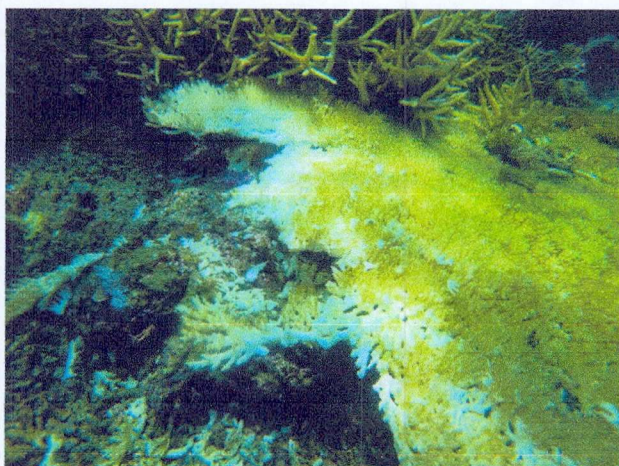


Turtle Island coral area

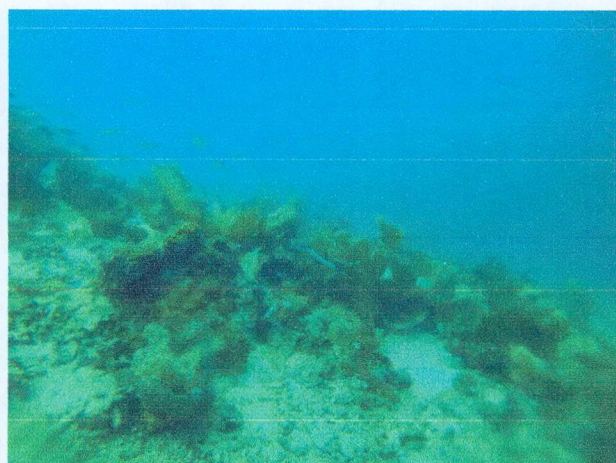
CERTIFICATION

This is to certify that the above photos were true and correct and taken during the identification of coral rehabilitation site at Turtle Island, Popolcan Island and Entalula Island, Barangay Bebeladan, El Nido, Palawan on August 2, 2022.


MARIEL M. PALADAN
CMEMP Extension Officer



Popolcan Island coral area



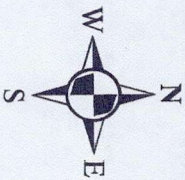
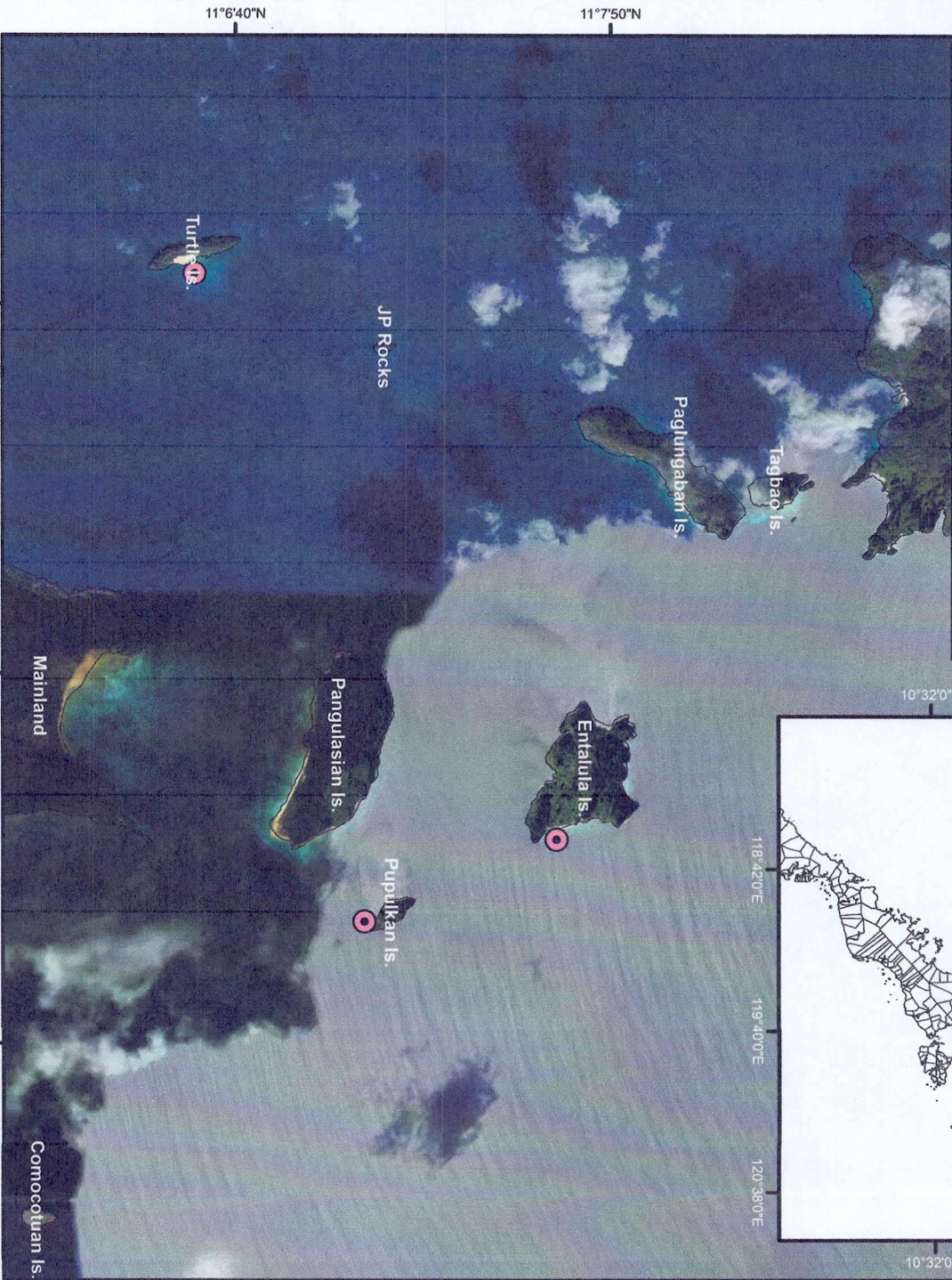
Entalula island coral area

CERTIFICATION

This is to certify that the above photos were true and correct and taken during the identification of coral rehabilitation site at Turtle Island, Popolcan Island and Entalula Island, Barangay Bebeladan, El Nido, Palawan on August 2, 2022.


MARIEL M. PALADAN
CMEMP Extension Officer

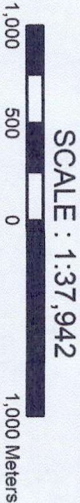
Turtle Island	119°18'24.2" E
	11°6'32.06" N
Popolcan Island	119°20'27.25" E
	11°7'2.65" N
Entalula Island	119°20'12.05" E
	11°7'38.69" N



MAP

SHOWING THE IDENTIFIED CORAL REHABILITATION
SITES WITHIN EL NIDO-TAYTAY MANAGED
RESOURCE PROTECTED AREA (ENTMRPA),
EL NIDO, PALAWAN

Specific site : Turtle Island
Popolcan Island
Entalula Island
Bgy. Bebeladan, El Nido



LEGEND

- Coral Rehab Sites
- PA Zoning
- Political Boundary
- Multiple Use Zone
- PA Boundary
- Strict Protection Zone

Projection : Universal Transverse Mercator Z50N
Datum : World Geodetic System 1984



Republic of the Philippines
Department of Environment and Natural Resources
Region IV - MIMAROPA
Community Environment and Natural Resources Office
Taytay 5312, Palawan

PREPARED BY :

THE PROTECTED AREA MANAGEMENT
OFFICE - EL NIDO-TAYTAY MANAGED
RESOURCE PROTECTED AREA
(PAMO-ENTMRPA)