



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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DENR MIMAROPA
RECORDS SECTION
RECEIVED

FEB 13 2023

☐ INCOMING ☐ OUTGOING
BY: _____ DATE NO. _____
TIME: _____

February 2, 2023

MEMORANDUM

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

THRU : The OIC, ARD for Technical Services

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **ACCOMPLISHMENT REPORT ON THE WATER QUALITY
MONITORING WITHIN PROCLAIMED NIPAS PROTECTED
AREA UNDER MANAGEMENT OF COASTAL AND MARINE
RESOURCES FOR EL NIDO-TAYTAY MANAGED RESOURCE
PROTECTED AREA (ENTMRPA) FOR JANUARY 2023**


Forwarded is the Memorandum dated January 25, 2023 of CENRO Taytay along with the report on the conducted activity for Water Quality Monitoring within proclaimed NIPAS Protected Area under Marine Protected Area Strengthening and Networking for El Nido-Taytay Managed Resource Protected Area (ENTMRPA) for the month of January 2023.

The PAMO-ENTMRPA identified and monitored seven (7) out of forty-eight (48) sites to be monitored monthly by the Environmental Management Bureau (EMB) on target activity item 1.b. This serve as **Means of Verification (MoV)** for the month of January CY 2023.

For information and record.


FELIZARDO B. CAYATOC



DENR-PALAWAN
PENRO-RECORDS
RELEASED
By: 06 FEB 2023 
Date: _____ CN 23-305



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: cenro.taytay@denr.gov.ph

**PALAWAN RECORDS
RECEIVED**

January 25, 2023

MEMORANDUM

BY: [Signature]
DATE: 01.30.2023 CN 23-0747

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 : **ACCOMPLISHMENT REPORT ON THE WATER QUALITY
MONITORING WITHIN PROCLAIMED NIPAS PROTECTED
AREA UNDER MANAGEMENT OF COASTAL AND MARINE
RESOURCES/ FOR EL NIDO-TAYTAY MANAGED RESOURCE
PROTECTED AREA (ENTMRPA) FOR JANUARY 2023**

Respectfully forwarded is the memorandum dated January 23, 2023 from Protected Area Superintendent (PASu) Mildred A. Suza pertaining to the accomplished activity under the Water Quality Monitoring within proclaimed National Integrated Protected Area System (NIPAS) Protected Area under Marine Protected Area Strengthening and Networking for El Nido-Taytay Managed Resource Protected Area (ENTMRPA) for the month of January 2023.

The PAMO-ENTMRPA identified and monitored seven (7) sites outside of the 48 sites to be monitored monthly by the Environmental Management Bureau (EMB) on target activity item 1.b. Water Quality Monitoring within legislated PA under Management of Coastal and Marine Resources/Areas. This serves as **Means of Verification (MoV)** for the month of January CY 2023.

This Office would like to request for exclusion of item 1.b. Water Quality Monitoring within legislated PA under Management of Coastal and Marine Resources/Areas as a target activity for PAMO-ENTMRPA. As indicated in the Work and Financial Plan 2023 the target activity shall be conducted and funded by the EMB, of which the only participation of the PAMO-ENTMRPA is the provision of assistance of some personnel and mobility asset (speed/motor boat). However, results and analysis of the Water Quality Monitoring for the 48 stations were required in order for our reports to be considered as an (MoV).

Please acknowledge your receipt hereof. Thank you.

For and in the absence of the CENRO:

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

BY: [Signature]
DATE: JAN 26 2023 C: 241

MARIANO P. LILANG, JR.
Development Management Officer IV
In-charge, Office of the CENRO
Page 3 of DAO 2022-09

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
Contact No. LANDLINE (0917-1103-262)
Email: denrpao_elnidopal@yahoo.com / entmrpa@gmail.com

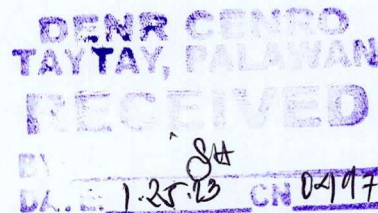
January 23, 2023

MEMORANDUM

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

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

SUBJECT : ACCOMPLISHMENT REPORT ON WATER QUALITY MONITORING WITHIN PROCLAIMED NIPAS PROTECTED AREA UNDER MARINE PROTECTED AREA STRENGTHENING AND NETWORKING OF EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA (ENTMRPA) FOR JANUARY CY 2023



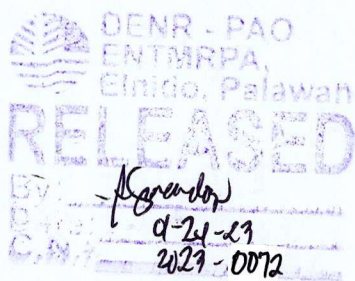
Respectfully forwarded is the memorandum dated January 20, 2023 from Park Ranger Steven John B. Andao pertaining to the accomplished activity under the Water Quality Monitoring within proclaimed National Integrated Protected Areas System (NIPAS) Protected Area under Marine Protected Area Strengthening and Networking of El Nido-Taytay Managed Resource Protected Area (ENTMRPA) for the month of January 2023.

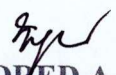
Seven (7) sites were monitored by this office particularly Mitri Cadlao Island, Lamoro, Lalutaya Island, Tres Marias, Turtle Island, Popolkan Island and Depeldet Island which are which are not in the established target monitoring sites of Provincial Environmental Management Unit (PEMU)-Palawan, thus, the said areas were selected to be monitored monthly. Primary water quality parameters were recorded thru HORIBA Water Quality checker (U-5000G) such as Dissolved Oxygen, pH and Temperature. Other parameters were also recorded such as the Conductivity, Turbidity, Salinity and Total Dissolved Solid. Fecal coliform was not monitored since there are no accessible accredited laboratory for the said parameter.

Please be informed also that the EMB-PEMU has not yet informed this office regarding their tentative date for water sampling activity.

This served as our **Means of Verification** for month of January 2023.

For information and record.




MILDRED A. SUZA

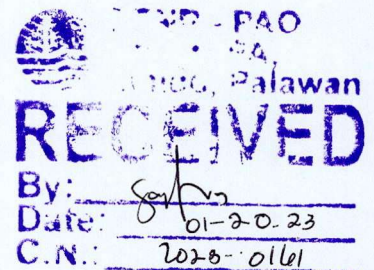


January 20, 2023

MEMORANDUM

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

FROM : The Park Ranger
El Nido-Taytay Managed Resource Protected Area



SUBJECT : REPORT ON WATER QUALITY MONITORING WITHIN PROCLAIMED NIPAS PROTECTED AREA UNDER MARINE PROTECTED AREA STRENGTHENING AND NETWORKING OF EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA (ENTMRPA) FOR MONTH OF JANUARYCY 2023

This pertains to the target activity on Water Quality Monitoring within Proclaimed NIPAS Protected Area Under Marine Protected Area Strengthening And Networking of El Nido-Taytay Managed Resource Protected Area (ENTMRPA) for the month of January 2023. Please be informed on January 20, 2023, the undersigned together with Park Maintenance Foreman Jenuel P. Casel and CMEMP Extension Officer Mariel M. Paladan conducted water quality monitoring within the jurisdiction of ENTMRPA particularly in Mitri Cadlao Island, Lamoro, Lalutaya Island, Tres Marias, Turtle Island, Popolkan Island and Depeldet Island which are not included in the established target monitoring sites of Provincial Environmental Management Unit (PEMU)-Palawan, thus, the said areas were selected to be monitored by this office monthly.

Here under are the parameters recorded on-site by the monitoring team thru HORIBA Water Quality checker (U-5000G) and processed thru U-50 Data Collection Software, to wit:

Primary Parameters

Table 1.

SITES	Date	Dissolved Oxygen(mg/L)	Water Body Classification (Class SA or Class SB (6 minimum)
1. Mitri*	1/20/2023	5.83	Fail
2. Lamoro ¹		5.57	Fail
3. Lalutaya*		6.36	Pass
4. Tres Marias*		6.01	Pass
5. Turtle Island ²		5.96	Fail
6. Popolkan ³		5.80	Fail
7. Depeldet*		6.25	Pass

Note: Water Body Classification and Water Parameters are based on DENR Administrative Order 2016-08 Table 2 and Table 3.

Legend :
*-Locally Managed Marine Area
1-Outfall
2-Marine Turtle Sanctuary
3-Diving Site

Table 1 shows that sites 3, 4 and 7 (Lalutaya, Tress Marias and Depeldet) passed the required/desired Dissolved Oxygen (DO) for protected waters and recreational waters while sites 1, 2, 5 and 6 (Mitri, Lamoro, Turtle Island and Popolkan) failed.

Table 2

SITES	Date	pH	Water Body Classification, Class SA or SB (7-8.5)
1. Mitri*	1/20/2023	8.09	Pass
2. Lamoro ¹		8.09	Pass
3. Lalutaya*		8.09	Pass
4. Tres Marias*		8.15	Pass
5. Turtle Island ²		8.11	Pass
6. Popolkan ³		8.13	Pass
7. Depeldet*		8.11	Pass

Note: Water Body Classification and Water Parameters are based on DENR Administrative Order 2016-08 Table 2 and Table 3.

Legend :
*-Locally Managed Marine Area
1-Outfall
2-Marine Turtle Sanctuary
3-Diving Site

Table shows that all sites passed the desired pH for Protected and Recreational waters.

Table 3

SITES	Date	Temperature(°c)	Water Body Classification, Class SA or SB (26-30)
1. Mitri*	1/20/2023	31.04	Fail
2. Lamoro ¹		31.43	Fail
3. Lalutaya*		31.16	Fail
4. Tres Marias*		31.14	Fail
5. Turtle Island ²		31.22	Fail
6. Popolkan ³		31.31	Fail
7. Depeldet*		31.24	Fail

Note: Water Body Classification and Water Parameters are based on DENR Administrative Order 2016-08 Table 2 and Table 3.

Legend :
*-Locally Managed Marine Area
1-Outfall
2-Marine Turtle Sanctuary
3-Diving Site

Table 3 shows that all sites failed or above the desired temperature for Protected and Recreational waters which is not less than twenty-six (26) degrees celsius or not greater than thirty (30) degrees celsius. However, based on the notes in table 3 (Water Quality Guidelines for Primary Parameter) of DENR Administrative Order (DAO) 2016-08 stated as follow: “(b) The natural background temperature as determined by EMB shall prevail if the temperature is lower or higher than the WQG; provided that the maximum increase is only up to 10 percent and that it will not cause any risk to human health and the environment.”

Other Parameters
Table 4

SITES	Date	Conductivity (mS/cm)	Turbidity(NTU)	Salinity(ppt)	Total Dissolve Solid(g/L)
1. Mitri*	1/20/2023	44.27	0.00	28.55	27.00
2. Lamoro ¹		42.77	16.83	27.47	26.07
3. Lalutaya *		43.47	0.00	27.99	26.53
4. Tres Marias*		41.27	0.00	26.41	25.20
5. Turtle Island ²		43.87	0.30	28.30	26.77
6. Popolkan ³		43.50	0.00	28.03	26.57
7. Depeldet*		42.80	0.25	27.52	26.10

Note: Water Body Classification and Water Parameters are based on DENR Administrative Order 2016-08 Table 2 and Table 3.

Legend :
*-Locally Managed Marine Area
1-Outfall
2-Marine Turtle Sanctuary
3-Diving Site

Table 4 shows the recorded conductivity, turbidity, salinity and total dissolved solid. These parameters are not directly affecting the water quality unless there are significant or massive changes.

Please be also informed that data for fecal coliforms was not included due to inaccessibility of accredited laboratory for proper analysis of the said parameter.

This served as our **Means of Verification** for month of January 2023. Attached herewith are the geotagged photos for reference.

For information and record.



STEVEN JOHN B. ANDAO

PHOTO DOCUMENTATION



CERTIFICATION

This is to certify that the above photos were true and correct and taken during the Water Qulaity Monitoring activity of ENTMRPA for the month of Jauary 2023.


STEVEN JOHN B. ANDAO
Park Ranger