



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

May 29, 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 WATER QUALITY
MONITORING WITHIN PROCLAIMED NIPAS PROTECTED
AREA UNDER MARINE PROTECTED AREA
STRENGTHENING AND NETWORKING OF EL NIDO
MANAGED RESOURCE PROTECTED AREA (ENMRPA) FOR
THE MONTH OF APRIL CY 2023**

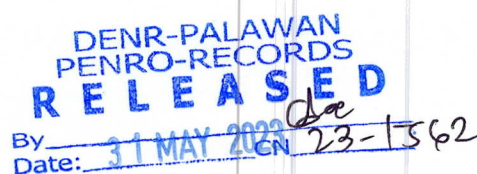
Respectfully forwarded is the memorandum dated May 17, 2023 of CENRO Taytay, Palawan along with the report pertaining to the above-captioned subject that serves as **Means of Verification (MoV)** for target activities under Coastal and Marine Ecosystems Rehabilitation Sub-Program - Water Quality Monitoring within Legislated NIPAS PA in El Nido Managed Resource Protected Area (ENMRPA) for the month of April 2023.

Please be informed that the collected water samples were sent to EMB Regional Office for laboratory analysis and the results were requested per letter dated March 20, 2023.

For information and record.

"For the PENRO"


ALEXANDER E. MANCIO
SvEMS / Executive Assistant
In-Charge, Office of the PENRO





**DENR PENRO
PALAWAN RECORDS
RECEIVED**

May 17, 2023

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer- Palawan

FROM : The Community Environment and Natural Resources Officer

SUBJECT : **ACCOMPLISHMENT REPORT ON ACTIVITY PER WFP
El Nido Managed Resource Protected Area (ENMRPA)**

Activity: Water Quality Monitoring within Legislated NIPAS PAs				
Performance Indicator: Number of PAs monitored on water quality parameters with monthly monitoring of forty-eight (48) stations and quarterly report				
Current submission: Memo report of Protected Area Superintendent/SvEMS Mildred A. Suza dated May 10, 2023 (CN 3102 in the cDATS) submitting the accomplishment report on WQMA monitoring within proclaimed NIPAS protected area for the month of May CY 2023 for Protected Area Management Office of El Nido Managed Resource Protected Area (ENMRPA).				
Attachment: 1. Memo report of Park Ranger Steven John B. Andao dated May 10, 2023 together with the Provincial Environmental Management Unit (PEMU). A total of twenty-three (23) sites were monitored. 2. Photo documentation 3. Water Quality Monitoring field data form (5 pages)				
Gender & Development (GaD) data	Male = 3	Female = 1	LGBTQ+ = 0	Prefer not to say = 0
	The data hereon refers to the personnel in the photo documentation.			
Age Grouping	60 and above	18-59	17 and below	TOTAL
	0	4	0	4
Environmental Management System (EMS Compliance)	<div>✓ Compliant to 5S organization techniques (SORT – keep only necessary items, SET IN ORDER – arrange items to promote efficient workflow, SHINE – clean the work area so it is neat and tidy, STANDARDIZE – set standards for a consistently organized workplace and SUSTAIN – maintain and review standard)</div> <div>✓ Organizing of travel to maximize conveyance and observance of speed limit to practice the minimized used of fuel</div> <div>✓ Carpooling</div> <div>✓ No single use plastic</div> <div>✓ PENRO Memo No. 2023-001 dated February 21, 2023</div>			

Explanation: The Water Quality Monitoring of forty-eight (48) stations as indicated in the Work and Financial Plan CY 2023 of ENTMRPA is accordingly to be conducted and funded by the EMB. It is also hereby informed/iterated that ENTMRPA is not yet a legislated PA.

This shall form as part of the **Means of Verification (MoV)** on the activity. Please confirm your receipt hereof. Thank you.

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

CONRADO M. CORPUZ

BY: *[Signature]*
DATE: MAY 18 2023



Republic of the Philippines
Department of Environment and Natural Resources

MIMAROPA Region

Community Environment and Natural Resources

EL NIDO MANAGED RESOURCE PROTECTED AREA

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

Contact No. LANDLINE (0917-1103-262)

Email: entmrpa@gmail.com

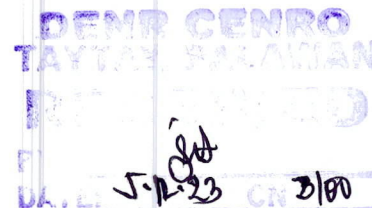
MAY 10 2023

MEMORANDUM

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

FROM : The Protected Area Superintendent
El Nido 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 MANAGED RESOURCE PROTECTED AREA (ENMRPA) FOR APRIL CY 2023



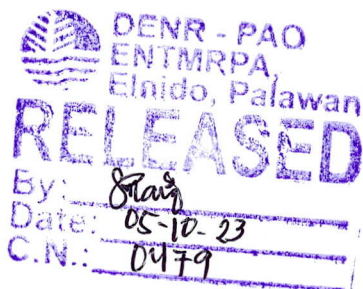
Respectfully forwarded is the memorandum dated May 3, 2023 from Park Ranger Steven John B. Andao pertaining to the accomplished activity under the Water Quality Monitoring within proclaimed National Integrated Protected Areas System (NIPAS) Protected Area under Marine Protected Area Strengthening and Networking of El Nido Managed Resource Protected Area (ENMRPA) for month of April 2023.

Please be informed that personnel of this office together with Provincial Environmental Management Unit (PEMU) Palawan conducted the above-mentioned activity particularly in the established El Nido Bay, Bacuit Bay and El Nido Outfall monitoring sites. A total of twenty five (25) sites were monitored using Water Quality Multi Parameter Checker (HORIBA U53G).

Collected water samples were sent to EMB Regional Office for laboratory analysis. Results of laboratory analysis for the collected water samples was already requested to DENR-EMB MIMAROPA Regional Office per letter dated March 20, 2023.

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

For information and record.




MILDRED A. SUZA



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
Community Environment and Natural Resources
EL NIDO MANAGED RESOURCE PROTECTED AREA
Calle Real, Barangay Masagana, El Nido, Palawan, 5313
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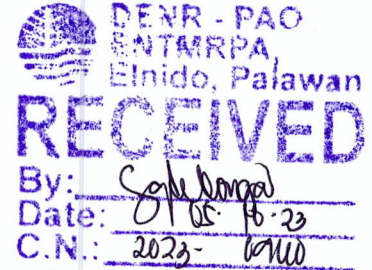
May 3, 2023

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 MANAGED RESOURCE PROTECTED AREA (ENTMRPA) FOR MONTH OF APRIL CY 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 Managed Resource Protected Area (ENMRPA) for the month of April 2023. Please be informed that on April 24-25, 2023, the undersigned together with Provincial Environmental Management Unit (PEMU) Palawan and El Nido Municipal Environment and Natural Resources Office (MENRO) personnel conducted water quality monitoring within the jurisdiction of ENMRPA particularly in the following established monitoring sites such as El Nido bay, Bacuit bay and El Nido outfall, to wit:

EI NIDO BAY

- | | |
|-----------------|-------------------|
| 1. So. Caalan | 6. Lamoro Beach |
| 2. Caalan Beach | 7. Calitang Beach |
| 3. Lio Runway | 8. Twin Beach |
| 4. Lio Port | 9. Nacpan Port |
| 5. Lio Beach | 10. Nacpan Beach |

BACUIT BAY

- | | |
|-------------------------|-------------------------|
| 1. Maremegmeg cove 3 | 6. Corong-corong cove 1 |
| 2. Maremegmeg cove 2 | 7. Masagana |
| 3. Maremegmeg cove 1 | 8. Maligaya |
| 4. Corong-corong cove 3 | 9. Buena suerte |
| 5. Corong-corong cove 2 | 10. Lugadya |

EL NIDO OUTFALL

1. Corong-corong outfall
2. El Nido estero
3. Masagana outfall 2
4. Masagana outfall 1
5. Cabugao outfall

Water Quality Multi Parameter checker (HORIBA U53G) was used for onsite analyses and the field data forms are attached in this report. The collected water samples were sent to EMB Regional office for laboratory analyses.

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

For information and record.

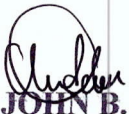
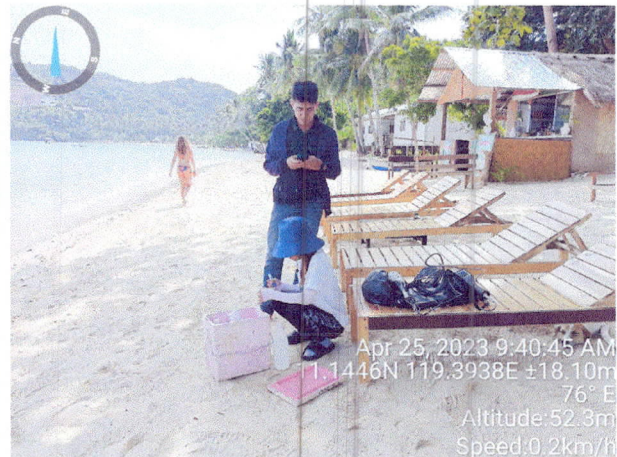
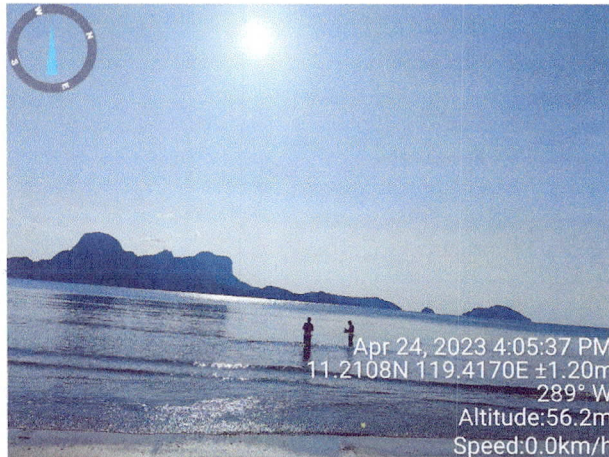

STEVEN JOHN B. ANDAO

PHOTO DOCUMENTATION



CERTIFICATION

This is to certify that the above photos were true and correct and taken during the Water Quality Monitoring activity of EMB-PEMU and ENMRPA for the month of April 2023.


STEVEN JOHN B. ANDAO
Park Ranger



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: El Nido Outfall

Address: El Nido, Palawan

Date of Sampling: April 25, 2023

Sampling Team: KAM, STBA

Parameter	Sampling Site				
	1	2	3	4	5
	Coastal Outfall	El Nido Outfall	Managay Outfall	Managay Outfall	Coastal Outfall
GPS Coordinates	11-17-03N 119-39-24E	11-18-00N 119-38-63E	11-18-33N 119-39-25E	11-18-39N 119-39-28E	11-18-47N 119-39-28E
Time of Sampling	10:56 AM	11:23 AM	11:57 AM	12:00 PM	12:04 PM
Air Temperature	39 °C	39 °C	39 °C	39 °C	39 °C
Cloud Cover, %	5%	0%	0%	0%	0%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	SLIGHTLY TURBID	TURBID	TURBID	CLEAR
Other Observation	SOLID WASTE REACHED OUT OF SEA H2O	SOLID WASTE WITH DEBRIS SEA WATER	SOLID WASTE FOUL ODOR WITH TOXIC BUBBLES	SOLID WASTE BUBBLES	REACHED OUT OF SEA WATER 2 SOLID WASTE
On-Site Analysis					
pH	8.90	8.40	7.67	7.64	7.90
Temperature	33.75	33.90	34.47	34.65	34.36
DO	5.62	5.56	6.23	4.62	5.01
Conductivity	47.9	40.6	28.2	34.1	45.2
TDS	29.2	28.4	16.3	20.8	27.5
Salinity	31.11	30.11	16.64	21.35	29.24
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125	Glass	Grab	
pH, DO	350	Glass	Grab	

SAMPLED BY: (signature over printed name)

KIEM X. MADAQUIAO

RIO REYES

STEVEN JOHN B. ANDAO

M. TER. ABOBOT



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: BACUIT BAY 10

Address El Nido, Palawan

Date of Sampling: APRIL 25, 2023

Sampling Team:

RMR, POA
KAM, SJBA

Parameter	Sampling Site				
	1	2	3	4	5
	MAREMEGME G COVE-3	MAREMEGME G COVE-2	MAREMEGME G COVE-1	CORONG2x COVE-3	CORONG2x COVE-2
GPS Coordinates	11 1443 N 119 3933 E	11 1462 N 119 3953 E	11 1482 N 119 3972 E	11 1561 N 119 3980 E	11 1588 N 119 3979 E
Time of Sampling	9:40 A.M	9:53 A.M	10:02 A.M	10:20 A.M	10:28 A.M
Air Temperature	38°C	38°C	38°C	38°C	38°C
Cloud Cover, %	0%	0%	0%	0%	0%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	Calm with debris docked boats	Calm NO DEBRIS WITH TUNNEL	Calm NO TIDEFAST Jellyfish	NO SWIMMING Calm Solid waste	Calm DEBRIS DOCKED BOATS SPEED BOATS
On-Site Analysis					
pH	6.07	8.04	8.16	9.07	9.06
Temperature	29.43	32.92	32.93	32.39	32.57
DO	8.28	6.05	6.05	7.22	5.30
Conductivity	18.8	47.4	47.5	46.9	45.6
TDS	10.1	28.9	29.0	28.6	27.4
Salinity	9.72	30.76	30.71	30.47	28.99
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE
pH, DO, TEMPERATURE, TSS, Nitrates, Phosphates	1000mL	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

PETER ARBOYT

KLEM A. MABAYOQUI
KID KENES

STEVEN JOHN B. ANDAG



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: BACUIT BAY 10

Address: El Nido, Palawan

Date of Sampling: APRIL 25, 2023

Sampling Team: KAM, SJBA

RMIR, P6A

KAM, SJBA

Parameter	Sampling Site				
	6 CORONG2x COVE-1	7 MASAGANA	8 MALIGAYA	9 BUENA SWERTE	10 LUGADYA
GPS Coordinates	11 14 44.72 119 39 13.11	11 14 50.74 119 39 56.11	11 14 52.74 119 39 57.11	11 15 00.74 119 39 58.11	11 15 00.74 119 39 58.11
Time of Sampling	10:38 A.M	11:54 A.M	11:39 A.M	11:33 A.M	10:40 A.M
Air Temperature	32°C	38°C	38°C	38°C	32°C
Cloud Cover, %	5%	0%	0%	0%	5%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	Calm DEBRIS DOCKED BOATS	Calm WITH DEBRIS DOCKED BOATS	Calm WITH DEBRIS DOCKED BOATS	Calm ALGAE DOCKED BOATS	Calm DOCKED BOATS TRUNKET
On-Site Analysis					
pH	8.91	8.38	7.64	8.43	8.86
Temperature	32.69	34.16	33.86	34.12	33.06
DO	5.64	5.79	5.99	5.49	6.08
Conductivity	44.5	48.2	36.3	47.4	47.9
TDS	26.7	29.3	21.4	28.9	29.2
Salinity	28.21	30.55	22.29	30.71	31.16
Turbidity					
Sample for Laboratory Analysis					
Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done	
Water Chemistry	125mL	Sealed Glass Bottle	GRAB	ICE	
pH, DO, TEMPERATURE, TDS, Nitrate, Phosphate	1000mL	PLASTIC	GRAB	ICE	

SAMPLED BY: (signature over printed name)

Steven B. Andico

Alvin

STEVEN B. ANDICO

Alvin



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: El Nido Bay

Address El Nido, Palawan

RMR, POA

Date of Sampling: 4-24-2023

Sampling Team: KAM, SJA

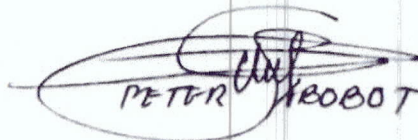
Parameter	Sampling Site				
	1	2	3	4	5
	Sitio Caalan	Caalan Beach	LiO Runway	LiO Port	LiO Beach
GPS Coordinates	11°11'13.00"N	11°11'29.00"N	11°12'27.00"N	11°24'53.00"E	11°12'36.00"N
	119°23'35.00"E	119°23'47.00"E	119°24'53.00"E	119°24'54.00"E	119°24'59.00"E
Time of Sampling	5:09 PM	4:55 PM	4:16 PM	4:13 PM	4:04 PM
Air Temperature	37 °C	37 °C	37 °C	37 °C	37 °C
Cloud Cover, %	10%	10%	0%	0%	0%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	DEBRIS CALM	CALM NO DEBRIS	CALM NO DEBRIS	CALM WITH TOURIST	CALM WITH DEBRIS
On-Site Analysis	LOW TIDE NO TOURIST	DOCKED BOAT LOW TIDE	LOW TIDE	DEBRIS LOW TIDE	NO SWIMMING TOURIST LOW TIDE
pH	8.92	10.40	7.46	8.25	10.39
Temperature	34.07	35.62	34.43	34.30	34.17
DO	6.88	5.00	6.59	5.70	5.71
Conductivity	18.5	48.4	19.3	47.5	47.3
TDS	9.95	29.5	10.7	28.9	28.9
Salinity	9.69	31.43	10.33	30.84	30.74
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE
pH, DO, TEMPERATURE, TSS, COLOR, NITRATES, PHOSPHATES	1000	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

RIO REYES


PETER KROBOT

KIEM A. MABABUAD

STEVEN JOHN, ANDAD



FIELD DATA FORM WATER QUALITY MONITORING

Name of Waterbody: El Nido Bay

Address El Nido, Palawan

Date of Sampling: APRIL 24, 2023

Sampling Team: RMR, PGM
KAM, SJA

Parameter	Sampling Site				
	6	7	8	9	10
	Lamoro Beach	Calintang Beach	Twin Beach	Nacpan Port	Nacpan Beach
GPS Coordinates	11°13'50.00"N 119°25'19.00"E	11°18'29.00"N 119°25'5.00"E	11°18'43.00"N 119°25'8.00"E	11°18'52.00"N 11°18'52.00"E	11°19'1.00"N 119°25'30.00"E
Time of Sampling	3:37 PM	2:49 PM	2:30 PM	2:21 PM	2:12 PM
Air Temperature	38°C	38°C	38°C	38°C	38°C
Cloud Cover, %	10%	10%	0%	0%	0%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	CALM NO DEBRIS	CALM DOCKED BOATS	CALM WITH SWIMMER TOURIST	CALM LOW TIDE TOURIST	CALM WAVE NO DEBRIS NO SWIMMING TOURIST
On-Site Analysis	LOW TIDE	NO DEBRIS	NEARBY BOATS	TOURIST	LOW TIDE
pH	9.63	8.71	10.21	9.65	5.95
Temperature	34.35	31.36	34.98	34.96	32.58
DO	6.57	6.75	5.39	5.04	6.43
Conductivity	41.6	48.2	47.9	48.1	36.6
TDS	25.4	29.4	29.2	29.3	20.9
Salinity	26.63	31.38	31.08	31.24	22.20
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE
pH, DO, TEMPERATURE, TSS, COLOR, NITRATES, PHOSPHATES	1000mL	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

RIO REYES

PETER ABODOT

KIEM A. MABADUIAD

STEVEN JOHN ANDAD



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
by the National Highway, Poblacion, Taytay, Palawan 5312
Contact No.: 09265059335 (Globe) / 09121713889 (Smart)
Email address: cenrotaytay@denr.gov.ph

**DENR PENRO
PALAWAN RECORDS
RECEIVED**

May 17, 2023

MEMORANDUM

BY: [Signature]
DATE: 05-21-2023 ON 23.4764

FOR : The Provincial Environment and Natural Resources Officer- Palawan
FROM : The Community Environment and Natural Resources Officer
SUBJECT : **ACCOMPLISHMENT REPORT ON ACTIVITY PER WFP
El Nido Managed Resource Protected Area (ENMRPA)**

Activity: Water Quality Monitoring within Legislated NIPAS PAs				
Performance Indicator: Number of PAs monitored on water quality parameters with monthly monitoring of forty-eight (48) stations and quarterly report				
Current submission: Memo report of Protected Area Superintendent/SvEMS Mildred A. Suza dated May 10, 2023 (CN 3100 in the eDATS) submitting the accomplishment report on WQMA monitoring within proclaimed NIPAS protected area for the month of April CY 2023 for Protected Area Management Office of El Nido Managed Resource Protected Area (ENMRPA).				
Attachment: 1. Memo report of Park Ranger Steven John B. Andao dated May 3, 2023 together with the Provincial Environmental Management Unit (PEMU). A total of twenty-five (25) sites were monitored. 2. Photo documentation 3. Water Quality Monitoring field data form (5 pages)				
Gender & Development (GaD) data	Male = 3	Female = 1	LGBTQ+ = 0	Prefer not to say = 0
	The data hereon refers to the personnel in the photo documentation.			
Age Grouping	60 and above	18-59	17 and below	TOTAL
	0	4	0	4
Environmental Management System (EMS Compliance)	<ul style="list-style-type: none">✓ Compliant to 5S organization techniques (SORT – keep only necessary items, SET IN ORDER – arrange items to promote efficient workflow, SHINE – clean the work area so it is neat and tidy, STANDARDIZE – set standards for a consistently organized workplace and SUSTAIN – maintain and review standard)✓ Organizing of travel to maximize conveyance and observance of speed limit to practice the minimized used of fuel✓ Carpooling✓ No single use plastic✓ PENRO Memo No. 2023-001 dated February 21, 2023			

Explanation: The Water Quality Monitoring of forty-eight (48) stations as indicated in the Work and Financial Plan CY 2023 of ENTMRPA is accordingly to be conducted and funded by the EMB. It is also hereby informed/iterated that ENTMRPA is not yet a legislated PA.

This shall form as part of the **Means of Verification (MoV)** on the activity. Please confirm your receipt hereof. Thank you.

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

CONRADO M. CORPUZ



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA
NITY ENVIRONMENT AND NATURAL RESOURCES
by the National Highway, Poblacion, Taytay, Palawan 5312
Contact No.: 09265059335 (Globe) / 09121713889 (Smart)
Email address: cenrotaytay@denr.gov.ph

May 17, 2023

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer- Palawan

FROM : The Community Environment and Natural Resources Officer

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**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

CONRADO M. CORPUZ

BY: *Ji*
 DATE: MAY 18 2023 *1879*



Republic of the Philippines
Department of Environment and Natural Resources

MIMAROPA Region

Community Environment and Natural Resources

EL NIDO MANAGED RESOURCE PROTECTED AREA

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

Contact No. LANDLINE (0917-1103-262)

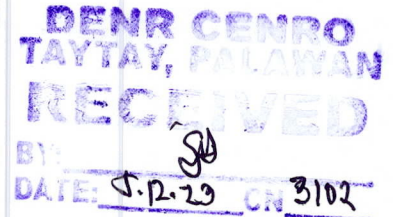
Email: entmrpa@gmail.com

MEMORANDUM

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

FROM : The Protected Area Superintendent
El Nido 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 MANAGED RESOURCE PROTECTED AREA (ENMRPA) FOR MAY CY 2023



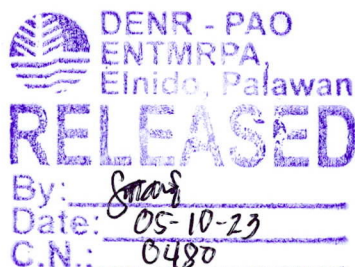
Respectfully forwarded is the memorandum dated May 10, 2023 from Park Ranger Steven John B. Andao pertaining to the accomplished activity under the Water Quality Monitoring within proclaimed National Integrated Protected Areas System (NIPAS) Protected Area under Marine Protected Area Strengthening and Networking of El Nido Managed Resource Protected Area (ENMRPA) for month of May 2023.

Please be informed that personnel of this office together with Provincial Environmental Management Unit (PEMU) Palawan conducted the above-mentioned activity particularly in the established El Nido Bay, Bacuit Bay and El Nido Estero monitoring sites. A total of twenty five (23) sites were monitored using Water Quality Multi Parameter Checker (HORIBA U53G).

Collected water samples were sent to EMB Regional Office for laboratory analysis. Results of laboratory analysis for the collected water samples was already requested to DENR-EMB MIMAROPA Regional Office per letter dated March 20, 2023.

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

For information and record.




MILDRED A. SUZA



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
Community Environment and Natural Resources
EL NIDO MANAGED RESOURCE PROTECTED AREA
Calle Real, Barangay Masagana, El Nido, Palawan, 5313
Contact No. LANDLINE (0917-1103-262)
Email: entmrpa@gmail.com

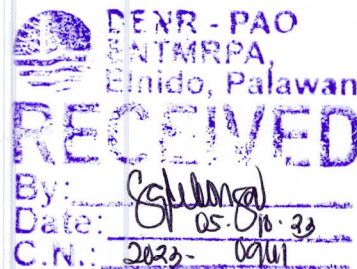
May 10, 2023

MEMORANDUM

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

FROM : 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 MANAGED RESOURCE PROTECTED AREA
(ENTMRPA) FOR MONTH OF MAY CY 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 Managed Resource Protected Area (ENMRPA) for the month of May 2023. Please be informed that on May 9, 2023, the undersigned together with the Provincial Environmental Management Unit (PEMU) Palawan and El Nido Municipal Environment and Natural Resources Office (MENRO) personnel conducted water quality monitoring within the jurisdiction of ENMRPA particularly in the following established monitoring sites such as El Nido bay, Bacuit bay and El Nido Ester, to wit:

EL NIDO BAY

- | | |
|-----------------|-------------------|
| 1. So. Caalan | 6. Lamoro Beach |
| 2. Caalan Beach | 7. Calitang Beach |
| 3. Lio Runway | 8. Twin Beach |
| 4. Lio Port | 9. Nacpan Port |
| 5. Lio Beach | 10. Nacpan Beach |

BACUIT BAY

- | | |
|-------------------------|-------------------------|
| 1. Maremegmeg cove 3 | 6. Corong-corong cove 1 |
| 2. Maremegmeg cove 2 | 7. Masagana |
| 3. Maremegmeg cove 1 | 8. Maligaya |
| 4. Corong-corong cove 3 | 9. Buena suerte |
| 5. Corong-corong cove 2 | 10. Lugadya |

EL NIDO OUTFALL

1. Maligaya
2. Buena Suerte
3. Cabigsing

Water Quality Multi Parameter checker (HORIBA U53G) was used for onsite analyses and the field data forms are attached in this report. The collected water samples were sent to EMB Regional office for laboratory analyses.

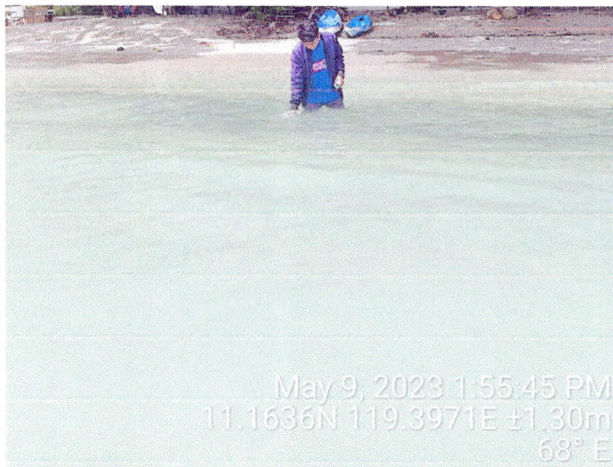
This served as our **Means of Verification** for month of May 2023. Attached herewith are the geotagged photos.

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 EMB-PEMU and ENMRPA for the month of May 2023.


STEVEN JOHN B. ANDAO
Park Ranger



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: El Nido Estero

Address: El Nido, Palawan

Date of Sampling: MAY 09, 2023

Sampling Team:

RMR, PGA

KAM, SJA

Parameter	Sampling Site		
	1	2	3
	Maligaya	Buena Suerte	Cabigsing
GPS Coordinates	11° 10' 40" N 119° 23' 22" E	11° 20' 05" N 119° 27' 18" E	11° 10' 48" N 119° 23' 10" E
Time of Sampling	2:15 P.M	2:37 P.M	2:30 P.M
Air Temperature	38 °C	38 °C	38 °C
Cloud Cover, %	50 %	50 %	50 %
Weather Condition	SUNNY	SUNNY	SUNNY
Visual Color of Water	TURBID	TURBID	TURBID
Other Observation	DEBRIS FOUL ODOR NATURAL VEGETATION COVER ON CORAL	FOUL ODOR SOLID WASTE	DEBRIS, ALGAE SOLID WASTE
On-Site Analysis			
pH	6.46	6.97	6.31
Temperature	32.08	31.95	32.27
DO	7.17	7.38	6.32
Conductivity	3.62	16.1	12.9
TDS	2.02	9.98	6.98
Salinity	0.96	9.39	6.18
Turbidity			

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
BOD, DO	1000	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

KIMBERLY B. ANDAO
RIO REYES

PETER ANDAO
STEVEN JOAN B. ANDAO



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: BACUIT BAY 10

RMR, PGA

Address: El Nido, Palawan

KAM, SJA

Date of Sampling: MAY 09, 2023

Sampling Team:

Parameter	Sampling Site				
	1 MAREMEGME G COVE-3	2 MAREMEGME G COVE-2	3 MAREMEGME G COVE-1	4 CORONG2x COVE-3	5 CORONG2x COVE-2
GPS Coordinates	11 1443N 119 3833E	11 1462N 119 3863E	11 1462N 119 3872E	11 1541N 119 3868E	11 1541N 119 3872E
Time of Sampling	1:01 P.M	1:09 P.M	1:14 P.M	1:34 P.M	1:42 P.M
Air Temperature	38 °C	38 °C	38 °C	38 °C	38 °C
Cloud Cover, %	75%	75%	75%	75%	65%
Weather Condition	FAIR	FAIR	FAIR	FAIR	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	NEARBY BOAT DEBRIS WITH TOURIST	SWIMMING TOURIST DOCKED YATCH STAYED BOAT	SWIMMING TOURIST WITH DEBRIS	WITH DEBRIS BUBBLES NEARBY BOATS	NEARBY BOATS DEBRIS BUBBLES
On-Site Analysis					
pH	6.94	7.84	7.84	6.90	7.34
Temperature	33.57	34.06	33.52	32.63	33.09
DO	6.48	5.76	6.08	6.90	6.89
Conductivity	30.2	47.0	45.8	17.6	23.4
TDS	17.0	28.7	28.0	9.47	13.0
Salinity	17.80	30.43	29.84	9.12	13.03
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE
pH, DO, TEMPERATURE, TSS, Nitrates, Phosphates	1000mL	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

KIEN A. MARQUINO
KIM REYES

PETER BOBOT

STEVEN JOYR ANDAO



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: BACUIT BAY 10

Address El Nido, Palawan

Date of Sampling: MAY 09, 2023

Sampling Team: RAM, STA

RMR, PGA

Parameter	Sampling Site				
	6	7	8	9	10
	CORONG2x COVE-1	MASAGANA	MALIGAYA	BUENA SWERTE	LUGADYA
GPS Coordinates	11 1443 N 119 3933 E	11 1462 N 119 3963 E	11 1482 N 119 3972 E	11 1561 N 119 3980 E	11 1586 N 119 3979 E
Time of Sampling	1:52 P.M	2:50 P.M	2:58 P.M	3:04 P.M	1:55 P.M
Air Temperature	38°C	38°C	38°C	38°C	38°C
Cloud Cover, %	65%	50%	50%	50%	65%
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	DOCKED BOATS WITH DEBRIS CHILD WASTE	DOCKED BOATS WITH DEBRIS	DOCKED BOATS WITH DEBRIS	SOLID WASTE DOCKED BOATS	DOCKED BOATS DEBRIS
On-Site Analysis					
pH	7.04	7.18	7.89	8.13	8.17
Temperature	32.81	34.49	34.07	34.68	33.86
DO	7.08	6.88	6.29	5.77	5.20
Conductivity	17.5	35.4	35.5	47.7	45.6
TDS	9.45	21.0	21.0	29.1	27.8
Salinity	9.10	21.87	22.00	30.86	29.49
Turbidity					
Sample for Laboratory Analysis					
Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done	
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE	
pH, DO, TEMPERATURE, TSS, Nitrates, Phosphates	1000mL	PLASTIC	GRAB	ICE	

SAMPLED BY: (signature over printed name)

[Signature]
KLEIN A. MARIANO
JUN LUYES

[Signature]
PETER ABOROT
STEVEN JOHN B. AKIDAO



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: El Nido Bay

Address: El Nido, Palawan

Date of Sampling: MAY 09, 2023

Sampling Team:

PMR, PCA

NAM, SJA

Parameter	Sampling Site				
	1	2	3	4	5
	Sitio Caalan	Caalan Beach	LiO Runway	LiO Port	LiO Beach
GPS Coordinates	11° 11' 13.00" N 119° 23' 35.00" E	11° 11' 29.00" N 119° 23' 47.00" E	11° 12' 27.00" N 119° 24' 53.00" E	11° 12' 53.00" N 119° 24' 54.00" E	11° 12' 56.00" N 119° 24' 59.00" E
Time of Sampling	3:38 PM	3:26 PM	11:35 AM	11:29 AM	11:19 AM
Air Temperature	38 °C	38 °C	39 °C	39 °C	39 °C
Cloud Cover, %	50 %	50 %	25 %	25 %	25 %
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	WITH ALGAE MATURE OPEN	WITH ALGAE TREE LEAVES SOLID WASTE	WITH DEBRIS TRIBUTARY SOLID WASTE	SWIMMING TOURIST WITH DEBRIS	SWIMMING TOURIST WITH DEBRIS
On-Site Analysis					
pH	9.47	7.75	8.63	6.89	7.27
Temperature	34.40	34.42	33.65	32.80	32.95
DO	6.37	6.48	6.54	7.21	6.63
Conductivity	40.6	41	35.2	18.0	35.9
TDS	23.9	25.0	20.1	9.68	20.5
Salinity	25.37	25.90	21.43	9.35	21.86
Turbidity					
Sample for Laboratory Analysis					
Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done	
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE	
pH, DO, TEMPERATURE, TSS, NITRATES, PHOSPHATES	1000	PLASTIC	GRAB	ICE	

SAMPLED BY: (signature over printed name)

[Signature]
KIMBERLY B. DIAZ
R/RIVER

[Signature]
PETER ABOROT

[Signature]
STEVEN ANOAO



WATER QUALITY MONITORING FIELD DATA FORM

Name of Waterbody: El Nido Bay

Address El Nido, Palawan

Date of Sampling: MAY 09, 2023

RMK, P6A
Sampling Team: KAM, STA

Parameter	Sampling Site				
	6	7	8	9	10
	Lamoro Beach	Calintang Beach	Twin Beach	Nacpan Port	Nacpan Beach
GPS Coordinates	11° 13'50.00"N 119° 25'19.00"E	11° 16'29.00"N 119° 25'5.00"E	11° 18'43.00"N 119° 25'8.00"E	11° 18'52.00"N 11° 18'52.00"E	11° 19'16.00"N 119° 25'30.00"E
Time of Sampling	10:55 AM	10:20 AM	10:03 AM	9:55 AM	9:43 AM
Air Temperature	39 °C	39 °C	39 °C	39 °C	39 °C
Cloud Cover, %	25 %	25 %	25 %	25 %	25 %
Weather Condition	SUNNY	SUNNY	SUNNY	SUNNY	SUNNY
Visual Color of Water	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Other Observation	LOW TIDE WITH DEBRIS SOLID WASTE	Docking boat WIND DEBRIS	Swimming TOWNET NO DEBRIS	NO DEBRIS SWIMMING TOWNET NEARBY	NO DEBRIS NO BOATS

On-Site Analysis

pH	6.95	6.80	7.69	7.58	7.45
Temperature	32.79	32.94	32.60	32.14	33.12
DO	7.01	7.15	7.20	7.23	5.55
Conductivity	17.7	23.4	23.8	17.7	45.9
TDS	9.56	13.2	13.3	9.52	28.0
Salinity	9.22	13.22	13.31	9.19	29.68
Turbidity					

Sample for Laboratory Analysis

Parameters for Analysis	Sample Volume (mL)	Container Type	Sampling Method	Preservation Done
Fecal Coliform	125mL	Sterilized Glass Bottle	GRAB	ICE
pH, DO, TEMPERATURE, TSS, NITRATES, PHOSPHATES	1000mL	PLASTIC	GRAB	ICE

SAMPLED BY: (signature over printed name)

KAM A. MABONIA
KAM A. MABONIA

RIO ROYAS

PETER HANOT
PETER HANOT

STEVEN ANKAD