



Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
Sta. Monica, Puerto Princesa City, Palawan
E-mail: denrpenropalawan@gmail.com
Telfax No. (048) 433-5638

DENR MIMAROPA RECORDS SECTION
RECEIVED
13 JAN 2023

☒ INCOMING ☐ OUTGOING
BY: _____ DATE NO: _____
TIME: _____ January 13, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building,
Roxas Blvd., Bgy. 668, Ermita, Manila

FROM : The PENR Officer
Puerto Princesa City

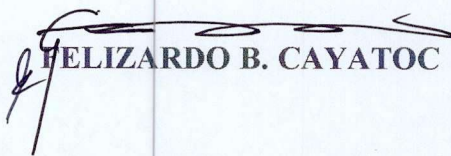
SUBJECT : **4TH QUARTER NARRATIVE REPORT ON COASTAL AND
MARINE ECOSYSTEM MANAGEMENT PROGRAM (CMEMP)
OF EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED
AREA (ENTMRPA) EL NIDO, PALAWAN**


Respectfully submitted herewith the report of CENRO Taytay, Palawan with attached narrative report of all accomplished CMEMP-related activities covering the period of 4th quarter within AOJ of ENTMPRA, El Nido, Palawan.

The attached report includes all target activities under CMEMP such as monitoring of coastal habitats, patrolling, repair and maintenance of all CMEMP equipment.

For information and record.




FELIZARDO B. CAYATOC

DENR-PALAWAN
PENRO-RECORDS
RELEASED
By:  Date: 13 JAN 2023 CN: 23-124



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

DENR CENRO
PALAWAN RECORDS
RECEIVED

December 29, 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 : 4TH QUARTER NARRATIVE REPORT ON COASTAL AND
MARINE ECOSYSTEM MANAGEMENT PROGRAM (CMEMP)
OF EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED
AREA (ENTMRPA), EL NIDO, PALAWAN

Respectfully forwarded is the memorandum dated December 29, 2022 of Protected Area Superintendent (PASu) Mildred A. Suza of El Nido-Taytay Managed Resource Protected Area (ENTMRPA), El Nido, Palawan. Submitting the narrative report of accomplishment report for the fourth (4th) quarter of CMEMP Extension Officer Mariel M. Paladan.


For his information and record.

For and in the absence of the CENRO:


MICHAEL L. MARASIGAN
Forester I/Chief, EMS
In Charge, Office of the CENRO

Cc: PAMO-ENTMRPA

DENR CENRO
TAYTAY, PALAWAN
RELEASED

BY: 
DATE: 12/29/2022 C... 3812



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. GLOBE (0917-1103-262)

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

December 29, 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 : COASTAL AND MARINE ECOSYSTEM MANAGEMENT
PROGRAM (CMEMP) NARRATIVE ACCOMPLISHMENT
REPORT FOR THE 4TH QUARTER

DENR - PAO
ENTMRPA,
El Nido, Palawan
RECEIVED
12-29-22

Respectfully submitted is the narrative accomplishment report on Coastal and Marine Ecosystem Management Program for the 4th quarter of CY 2022 of El Nido-Taytay Managed Protected Area (ENTMRPA) El Nido, Palawan.

Please be informed that the report comprises the physical accomplishment which includes monitoring and mapping of coastal habitat under Marine Protected Area and Networking, also includes the patrolling, direct activities, and repair and maintenance of equipment under Maintenance and Protection of Coastal and Marine Ecosystem.

For information and record.

DENR - PAO
ENTMRPA,
El Nido, Palawan
RELEASED
By: Cumation
Date: 12-29-22
C.N.: 1168

[Signature]
MILDRED A. SUZA_{sc}



**COASTAL AND MARINE ECOSYSTEM MANAGEMENT PROGRAM
NARRATIVE ACCOMPLISHMENT REPORT**

Name of the Protected Area: El Nido-Taytay Managed Resource Protected Area, El Nido, Palawan

I. PHYSICAL ACCOMPLISHMENT

Component 1: Marine Protected Area Strengthening and Networking

A. Monitoring of coastal habitats

Seagrass

LOCATION	NUMBER OF HECTARES ASSESSED	CONDITION	BIODIVERSITY INDEX CATEGORY
So. Seminaytay, Barangay. Manlag, El Nido, Palawan	57.43 hectares	Fair	Low Diversity
So. Simpian, Barangay Aberawan, El Nido, Palawan	36.36 hectares	Good	Low Diversity
Snake Island, Barangay Bebeladan, El Nido, Palawan	14 hectares	Poor	Low Diversity
So. Caalan, Barangay Masagana, El Nido, Palawan	6 hectares	Fair	Low Diversity

There were eight (8) species of seagrass were recorded at four (4) established monitoring sites composed of *Enhalus acoroides*, *Thalassia hemprichii*, *Cymodocea serrulate*, *Halodule pinifolia*, *Syringodium isoetifolium*, *Halodule uninervis*, *Halophila ovalis*, and *Cymodocea rotundata*. Each monitoring sites composed of fix transect line parallel to the shoreline with three (3) 50 meters transect perpendicular to the shoreline separated by 25 meters distance in between and laid parallel to each other. Upon monitoring, there were no unregulated fishing methods observed.

Mangroves

LOCATION	NUMBER OF HECTARES ASSESSED	SHANNON- WEINER INDEX (H') - RELATIVE VALUES	THREATS IDENTIFIED
So. Manlalic, Bgy. Manlag, El Nido, Palawan	69.33 hectares	Very Low Diversity	mangrove cuttings, improper waste disposal and informal settlers

A total of twelve (12) species of mangroves were identified and recorded within the assessed sampling site. The species found in each plot were identified and classified taxonomically using field guide of J.H. Primavera, Ph. D., (2009). A baseline transect was laid parallel to the shoreline, and a transect line was laid perpendicular to the baseline transect at every 100 meters interval. The transect lines were extended up to the most landward zone. At every 100 meter interval on transect lines, a 10 by 10 quadrat was established.

Furthermore, there were mangrove cuttings, improper waste disposal and informal settlers observed and documented in the sampling site. It is recommended to conduct regular monitoring in all mangrove forest within of ENTMRPA in order to protect the mangrove forest from anthropological disturbances.

Moreover, this office will carry on the assessment in the succeeding year to establish baseline data in order to select the permanent monitoring site.

Corals

MONITORING SITES	AREA (ha)	Hard Coral Cover (HCC)		FISH VISUAL CENSUS CATEGORIES	
		%	Category	Fish Biomass (MT/km ²)	Fish Density (Individual/1000 m ²)
Depeldet Reef,Bgy. Corong-corong	33.77	33.04	HCC B	Very Low	Moderate
Helicopter Island, Bgy. Buena Suerte	26.18	20.9	HCC D	Very Low	Moderate
So. Pagawanen, Bgy. Bebeladan	8.24	32.02	HCC C	Medium	Moderate
Lalutaya Island, Bgy. Bucana	11.75	11.75	HCC C	Low	Moderate
So. Cagbatang, Bgy. Pasadeñ	46.87	46.87	HCC A	Low	Moderate

Photo transect method is used in monitoring, a 75mx 25m were established in every sampling site with three (3) randomized 50 meters transect line parallel to the shoreline. In terms of Hard Coral Cover (HCC) Sitio Cagbatang falls under HCC A category, Depeldet Reef falls under HCC B category, Sitio Pagawanen and Lalutaya Island falls under HCC C category, while Helicopter Island falls under HCC D category. For fish biomass (MT/km²), Helicopter Island and Depeldet Reef falls under very low category with a value of 4.087 MT/km² and 5.739 MT/km², respectively, while Lalutaya Island and So. Cagbatang falls under low category with a value of 9.68 MT/km² and 10.17 MT/km², respectively. However, So. Pagawanen falls under medium category with a value of 13.63 MT/km² based on Nanola et al., 2006. While in fish density per 1000m², based on Hilomen et al., 2000, all five established monitoring sites the Helicopter Island, Depeldet Reef, So. Pagawanen, Lalutaya Island, and So. Cagbatang falls under moderate category with a value of 822 m², 1690 m², 1686 m², 1562 m², and 1404 m², respectively.

B. Maintenance and Protection of Coastal and Marine Ecosystems

1. Patrolling

Areas Patrolled Municipality/ Barangay/ General Location within PA	Frequency	Number of Hectares covered
El Nido – Bacuit Bay	Quarterly	

Park rangers and Forest Protection Officer (FPO) of El Nido-Taytay Managed Resource Protected Area (ENTMRPA) together with Forest Rangers of CENRO – Taytay conducted seaborne patrol within El Nido-Bacuit bay. Major illegal activities observed during monitoring were;

- a. on-going installation of fish corral (baklad) within Strict Protection Zone (SPZ) near Turtle Island, Bgy. Bebeladan, El Nido, Palawan;
- b. occupation of beach area near Star Beach, Tapiutan Island by unidentified fisherfolks and in beach and karst area of Talisay Beach, Tapiutan Island being occupied by ten (10) unidentified fisherfolks from Barangay Teneguiban, El Nido, Palawan; and
- c. continous development at Sabang Beach, Cadlao Island, Bgy. Buena Suerte, El Nido, Palawan.

2. Response Plan

The El Nido-Taytay Managed Protected Area (ENTMRPA) conducted and participated in the Crown of Thorns (COTs) extraction activity in El Nido, Palawan in order to prevent the rapid increase of COTs.

Moreover, strengthening enforcement activities pursuant to the provision of ENIPAS through regular patrolling and intensifying the Community Education and Public Awareness (CEPA) campaign are being initiated/conducted by this office.

3. Threats/Observations

ACTIVITIES CONDUCTED					
PA	Patrolling	Response Plan	Threats observed	Direct activities conducted	Equipments maintained
El Nido-Taytay Managed Resource Protected Area	Regular seaborne patrol (night)	Regular conduct of COTs extraction, intensify seaborne patrolling	Illegal fishing, mangrove cuttings, improper waste disposal, Outbreak of Crown of Thorns	Coastal clean-up Collection and Extraction of Crown of Thorns	3 patrol boats maintained, 2 facilities maintained within PA

4. Repair and maintenance of equipment

DIVING GEARS

A total of fifty-five (55) diving gears maintained and stored properly, to wit;

EQUIPMENTS	NUMBER OF UNITS	DATE LAST MAINTAINED	CONDITION
Booties	5 pairs	November 21, 2022	Serviceable
Aqualung fins	5 pairs	November 21, 2022	Serviceable
Mask	4 pcs	November 21, 2022	Serviceable
Weight belt	4 pcs	November 21, 2022	Serviceable
Weights	13 pcs	November 21, 2022	Serviceable
Buoyancy Control Device (BCD)	7 pcs	November 21, 2022	Serviceable
Regulator	6 units	November 21, 2022	Serviceable
Tank	4 pcs	November 21, 2022	Serviceable
Wet Suit	2 pcs	November 21, 2022	Serviceable

Compass	2 units	November 21, 2022	Serviceable
Depth Gauge	2 units	November 21, 2022	Serviceable
Scuba Gloves	1 unit	November 21, 2022	Serviceable

CAMERA

Two (2) units of Go Pro Hero 9 underwater camera was maintained by rinsing it with fresh water after every use in salt water and keeping it dry by wiping it with tissue paper.

BOAT

Three (3) patrol boats repaired and maintained the speed boat, Marshall 2, and Ploning which are being kept at the Diver’s House Station located at Barangay Corong-corong, El Nido, Palawan.

PROGRAM SUPPORT

Performance Indicator: CMEMP Extension Officer hired
 Target CMEMP EO for CY 2022

CEO Name	Sex	Mobile Number	Email address	Components assigned	Major accomplishment/output/Contribution to CMEMP implementation
Mariel M. Paladan	Female	09555286095	paladan mariel@gmail.com	Biodiversity Monitoring System (BMS), Monitoring of corals, mangroves and seagrass per PA, Conduct of direct activities	Focal person in the implementation of CMEMP activities for CY 2022 of ENTMRPA-PAMO

Prepared by:



MARIEL M. PALADAN
 CMEMP Extension Officer

Checked by:

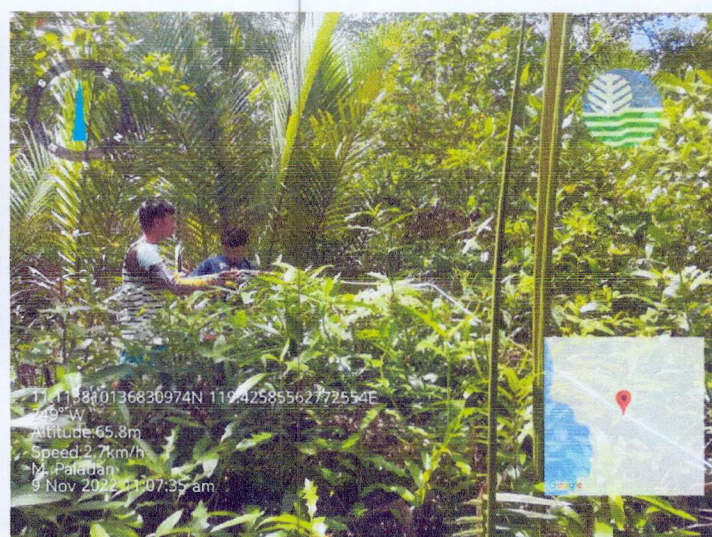


MILDRED A. SUZA
 SVEMS/Protected Area Superintendent

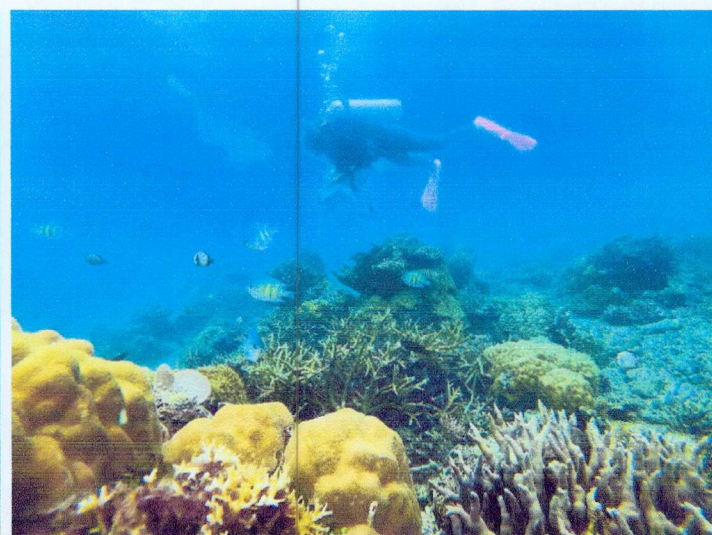
PHOTO DOCUMENTATION



Assessment/Monitoring of Seagrass



Assessment/Monitoring of Mangrove



Monitoring of Corals

CERTIFICATION

I hereby certify that the above photos were true and correct and taken during the conduct of activity.

MARIEL M. PALADAN
CMEMP Extension Officer

PHOTO DOCUMENTATION



Maintenance of two (2) Go Pro Hero 9 underwater camera



Maintenance of Scuba diving gears



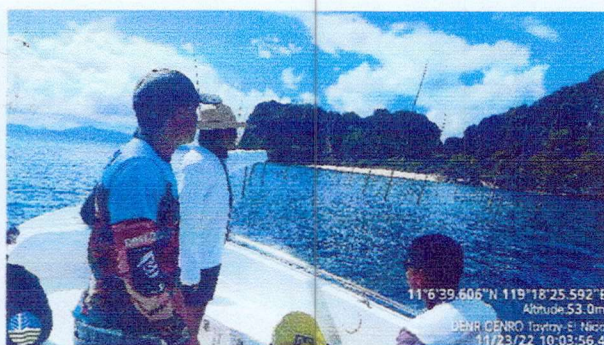
Maintenance and repair of patrol boats

CERTIFICATION

I hereby certify that the above photos were true and correct and taken during the conduct of activity.


MARIEL M. PALADAN
CMEMP Extension Officer

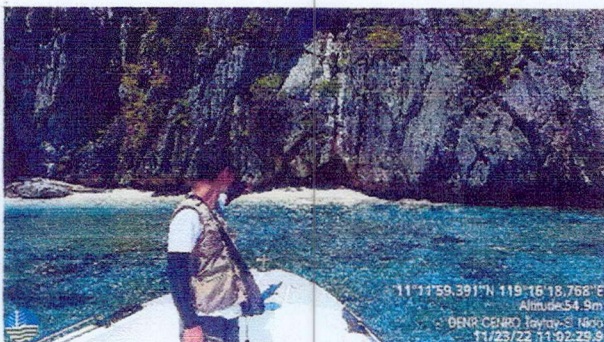
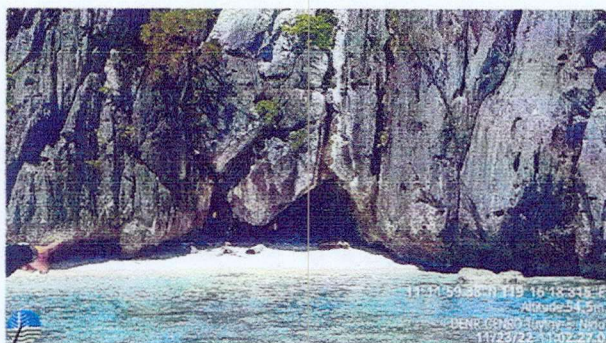
PHOTO DOCUMENTATION



Annex 7 and 8. On-going installation of Baklad near Turtle Island, Barangay Bebeladan, El Nido, Palawan.



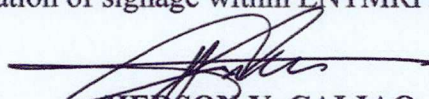
Annex 9 and 10. Fisherfolk within the Strict Protection Zone (SPZ) at Turtle Island, Barangay Bebeladan, El Nido, Palawan.

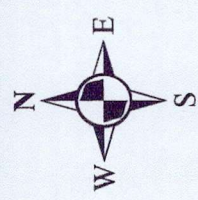


Annex 11 and 12. Small beach area near Star Beach at Tapiutan Island being occupied by unidentified fisherfolks.

CERTIFICATION

The undersigned hereby certify that the photos were true and correct and taken during seaborne patrol and installation of signage within ENTMRPA dated November 23, 2022.

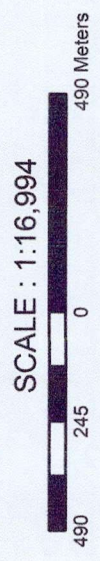

HERSON Y. CALIAO
Forest Ranger



MAP

SHOWING THE SEAGRASS SITE
MONITORED WITHIN EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA
(ENTMRPA), EL NIDO, PALAWAN

Area : 57.34 Hectares
Specific site : So. Seminaytay, Bgy. Manlag,
El Nido, Palawan



LEGEND

- Transect Line
- Seagrass
- Political Boundary
- PA Boundary

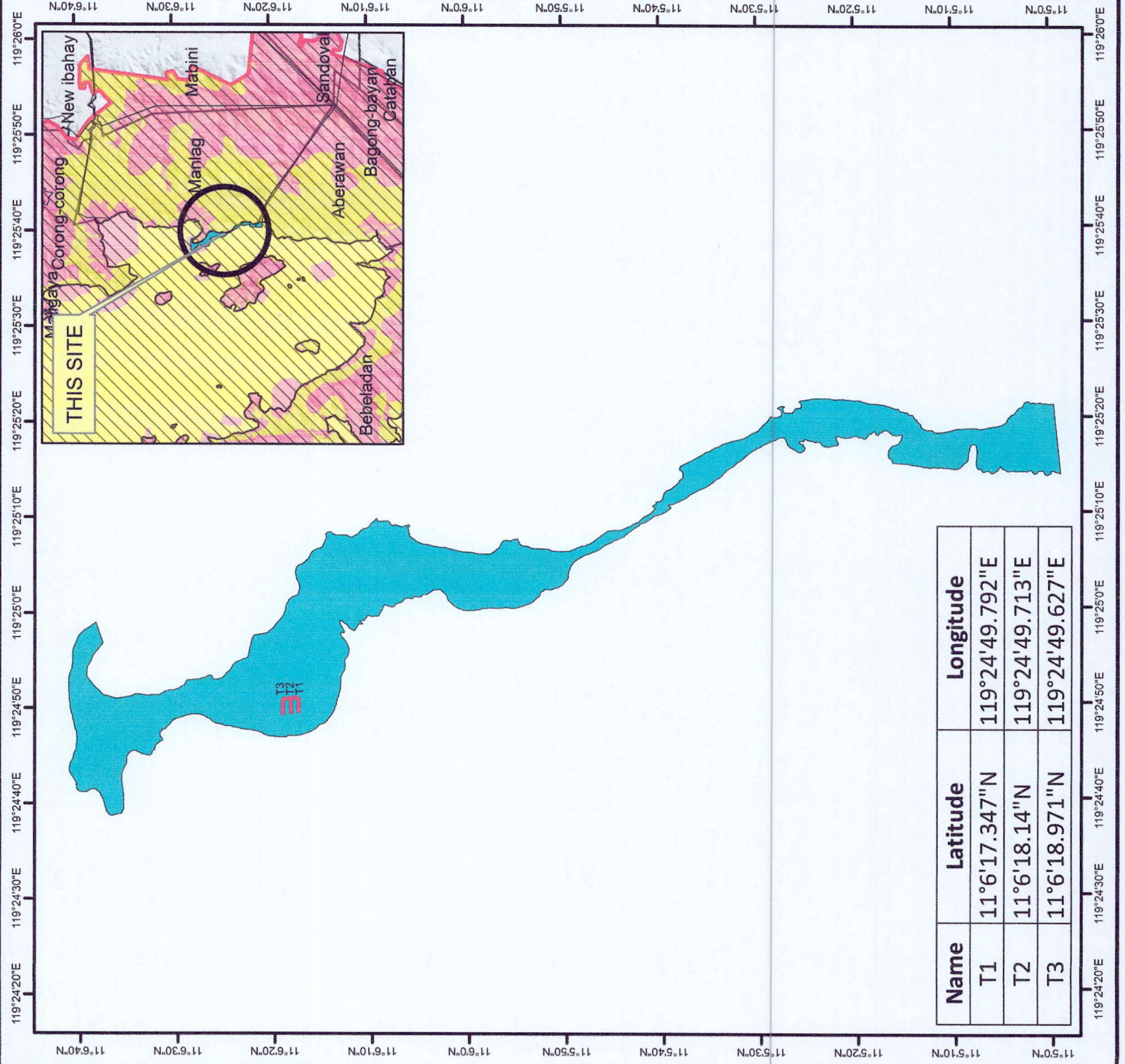
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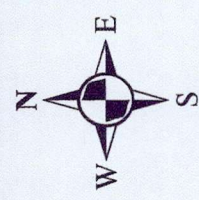
Republic of the Philippines
Department of Environment and Natural Resources
Region IV - MIMAROPA
Community Environment and Natural Resources Office
Taytay 5312, Palawan

PREPARED BY :

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



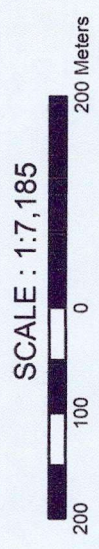
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T1	11°6'17.347"N	119°24'49.792"E
T2	11°6'18.14"N	119°24'49.713"E
T3	11°6'18.971"N	119°24'49.627"E



MAP

SHOWING THE SEAGRASS SITE
MONITORED WITHIN EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA
(ENTMRPA), EL NIDO, PALAWAN

Area : 36.36 Hectares
Specific site : So. Simpian, Bgy. Aberawan,
El Nido, Palawan



LEGEND

- Transect Line
- Seagrass
- Political Boundary
- PA Boundary

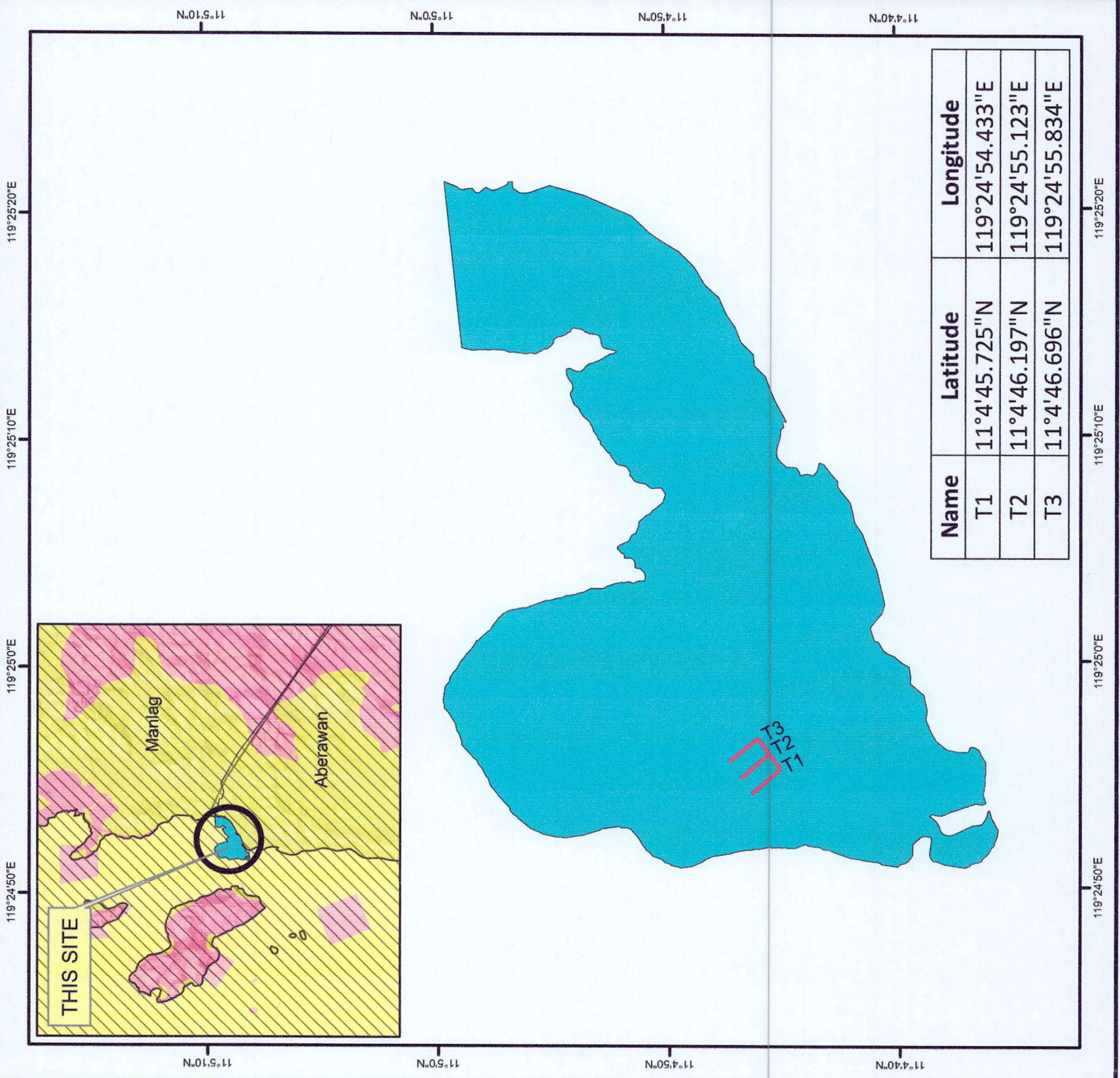
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Datum : World Geodetic System 1984



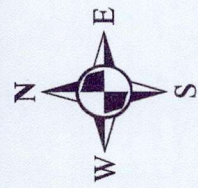
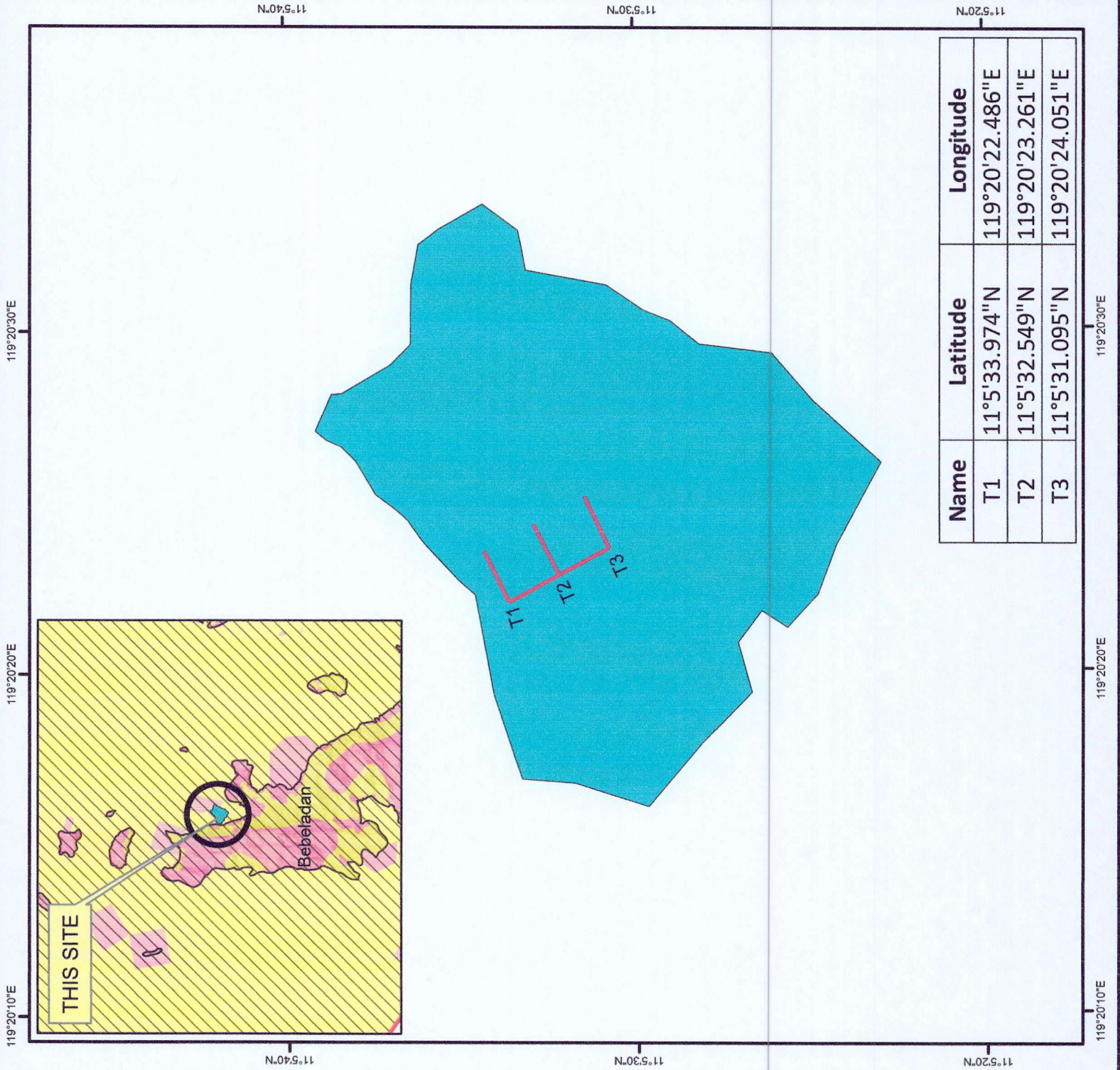
Republic of the Philippines
Department of Environment and Natural Resources
Region IV - MIMAROPA
Community Environment and Natural Resources Office
Taytay 5312, Palawan

PREPARED BY :

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



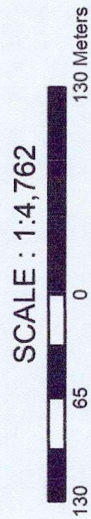
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T1	11°4'45.725"N	119°24'54.433"E
T2	11°4'46.197"N	119°24'55.123"E
T3	11°4'46.696"N	119°24'55.834"E



MAP

SHOWING THE SEAGRASS SITE
MONITORED WITHIN EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA
(ENTMRPA), EL NIDO, PALAWAN

Area : 14.0 Hectares
Specific site : Snake Island, Bgy. Bebeladan,
El Nido, Palawan



LEGEND

Transect Line Political Boundary

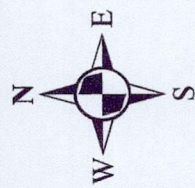
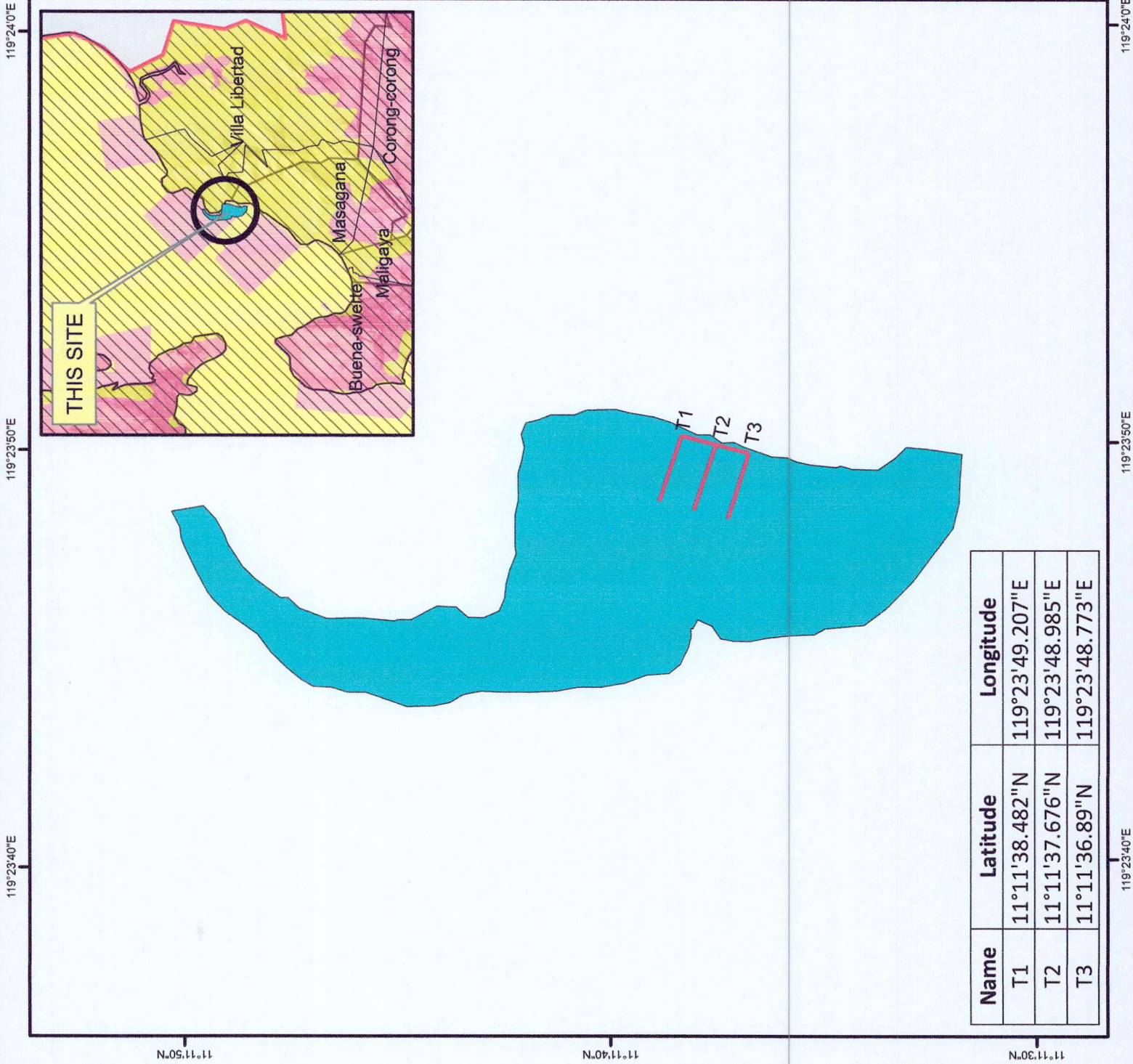
Seagrass PA Boundary

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 :

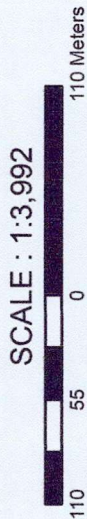
THE PROTECTED AREA MANAGEMENT
OFFICE - EL NIDO-TAYTAY MANAGED
RESOURCE PROTECTED AREA
(PAMO-ENTMRPA)



MAP

SHOWING THE SEAGRASS SITE
MONITORED WITHIN EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA
(ENTMRPA), EL NIDO, PALAWAN

Area : 6.0 Hectares
Specific site : So. Caalan, Bgy. Masagana,
El Nido, Palawan



LEGEND

- Transect Line
- Seagrass
- Political Boundary
- PA Boundary

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



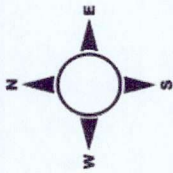
Republic of the Philippines
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PREPARED BY :

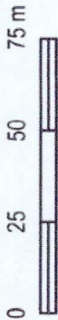
THE PROTECTED AREA MANAGEMENT
OFFICE - EL NIDO-TAYTAY MANAGED
RESOURCE PROTECTED AREA
(PAMO-ENTMRPA)



Department of Environment and Natural Resources
MIMAROPA Region
PROTECTED AREA MANAGEMENT OFFICE
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Barangay Masagana, El Nido, Palawan



Location Map Showing the Site 1 "Depeldet" of Coral Reef Assessment within El Nido-Taytay Managed Resource Protected Area



SCALE: 1: 7,500
Projection: World Geodetic System (WGS) 1984

Total Area: 33.77 Ha

Legend

●

Depeldet-Point

■

Depeldet-Polygon

—

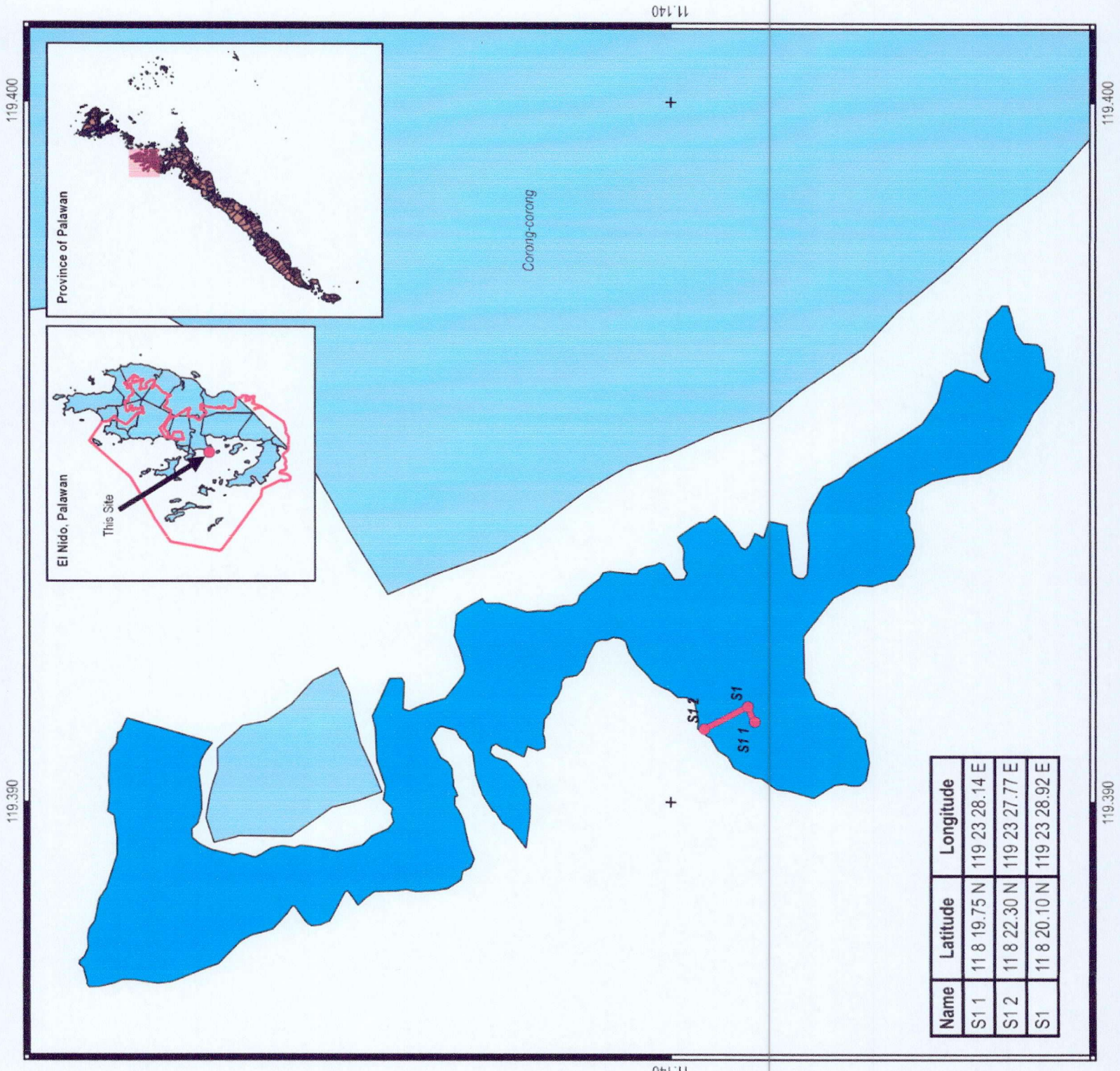
Depeldet-Line

□

Barangay Boundary

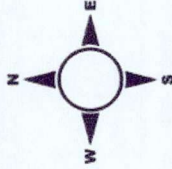
CERTIFICATION

THIS IS TO CERTIFY that this area is within EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA (ENTMRPA) as per
Presidential Proclamation No. 32 dated October 8, 1998





Department of Environment and Natural Resources
MIMAROPA Region
PROTECTED AREA MANAGEMENT OFFICE
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Barangay Masagana, El Nido, Palawan



Location Map Showing the Site 2 "Helicopter" of Coral Reef Assessment within El Nido- Taytay Managed Resource Protected Area



SCALE: 1: 5,000
Projection: World Geodetic System (WGS) 1984

Total Area: 26.18 Ha

Legend

● Helicopter-Point

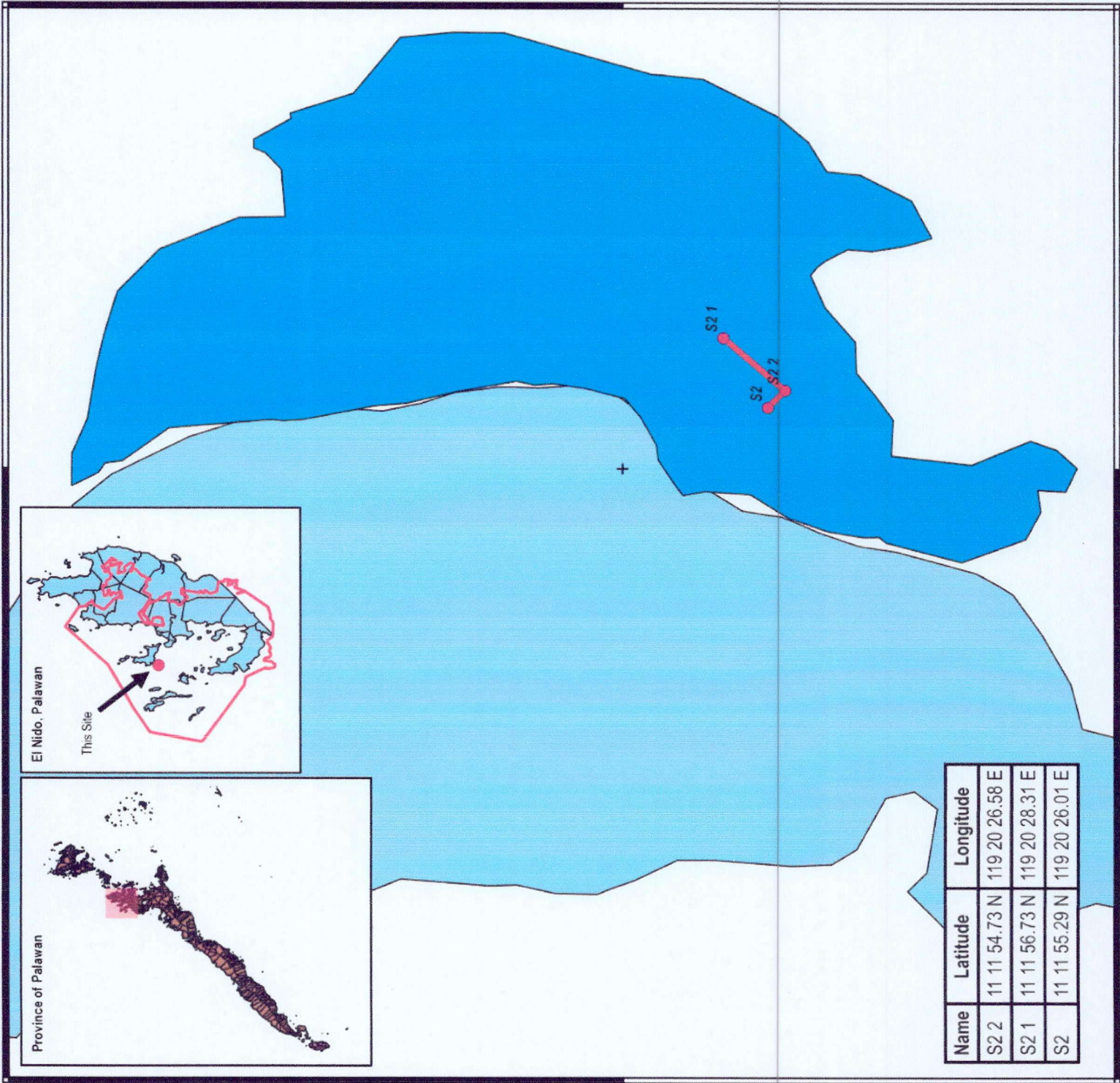
■ Helicopter-Polygon

— Helicopter-Line

□ Barangay Boundary

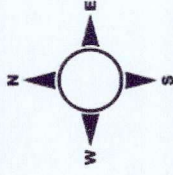
CERTIFICATION

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MANAGED RESOURCE PROTECTED AREA (ENTMRPA) as per
Presidential Proclamation No. 32 dated October 8, 1998





Department of Environment and Natural Resources
MIMAROPA Region
PROTECTED AREA MANAGEMENT OFFICE
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Barangay Masagana, El Nido, Palawan



Location Map Showing the Site 4 "Pagawanen" of Coral Reef Assessment within El Nido-Taytay Managed Resource Protected Area



SCALE: 1: 2,500

Projection: World Geodetic System (WGS) 1984

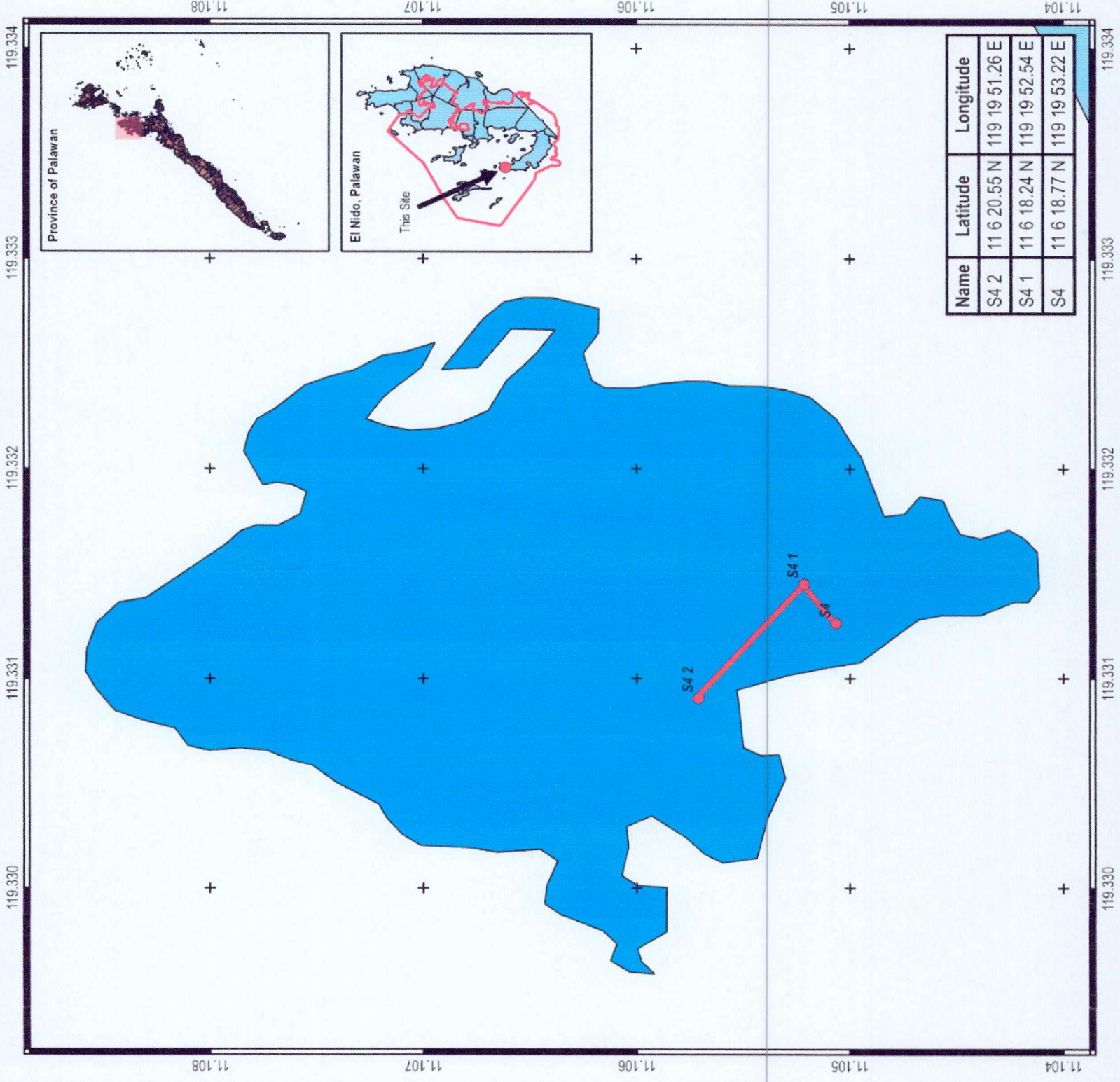
Total Area: 8.24 Ha

Legend

- Pagawanen-Point
- Pagawanen-Polygon
- Pagawanen-Line
- Barangay Boundary

CERTIFICATION

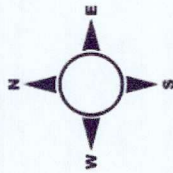
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MANAGED RESOURCE PROTECTED AREA (ENTMRPA) as per
Presidential Proclamation No. 32 dated October 8, 1998



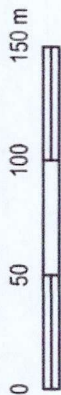
Name	Latitude	Longitude
S4 2	11 6 20.55 N	119 19 51.26 E
S4 1	11 6 18.24 N	119 19 52.54 E
S4	11 6 18.77 N	119 19 53.22 E



Department of Environment and Natural Resources
MIMAROPA Region
PROTECTED AREA MANAGEMENT OFFICE
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Barangay Masagana, El Nido, Palawan



Location Map Showing the Site 6 "Lalutaya Island" of Coral Reef Assessment within El Nido-Taytay Managed Resource Protected Area



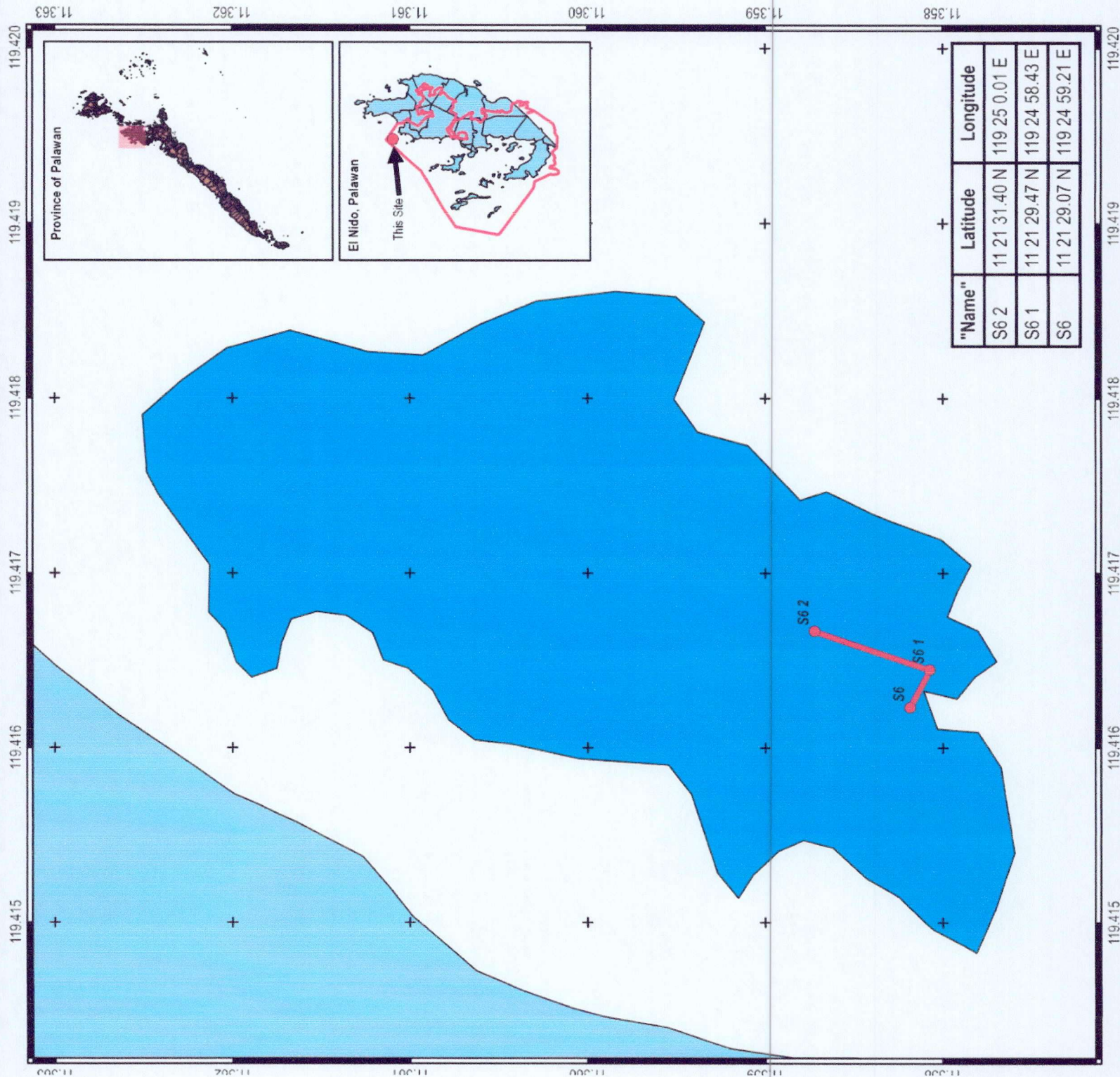
SCALE: 1: 3,000

Projection: World Geodetic System (WGS) 1984

Total Area: 11.75 Ha

Legend

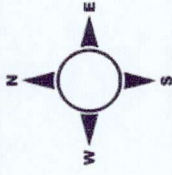
- Lalutaya Is.-Point
- Lalutaya Is.-Polygon
- Lalutaya Is.-Line
- Barangay Boundary



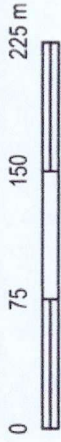
"Name"	Latitude	Longitude
S6 2	11 21 31.40 N	119 25 0.01 E
S6 1	11 21 29.47 N	119 24 58.43 E
S6	11 21 29.07 N	119 24 59.21 E



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Location Map Showing the
Site 7 "Cagbatang" of Coral Reef
Assessment within El Nido-Taytay
Managed Resource Protected Area



SCALE: 1: 4,000
Projection: World Geodetic System (WGS) 1984

Total Area: 21.27 Ha

Legend

Cagbatang-Point

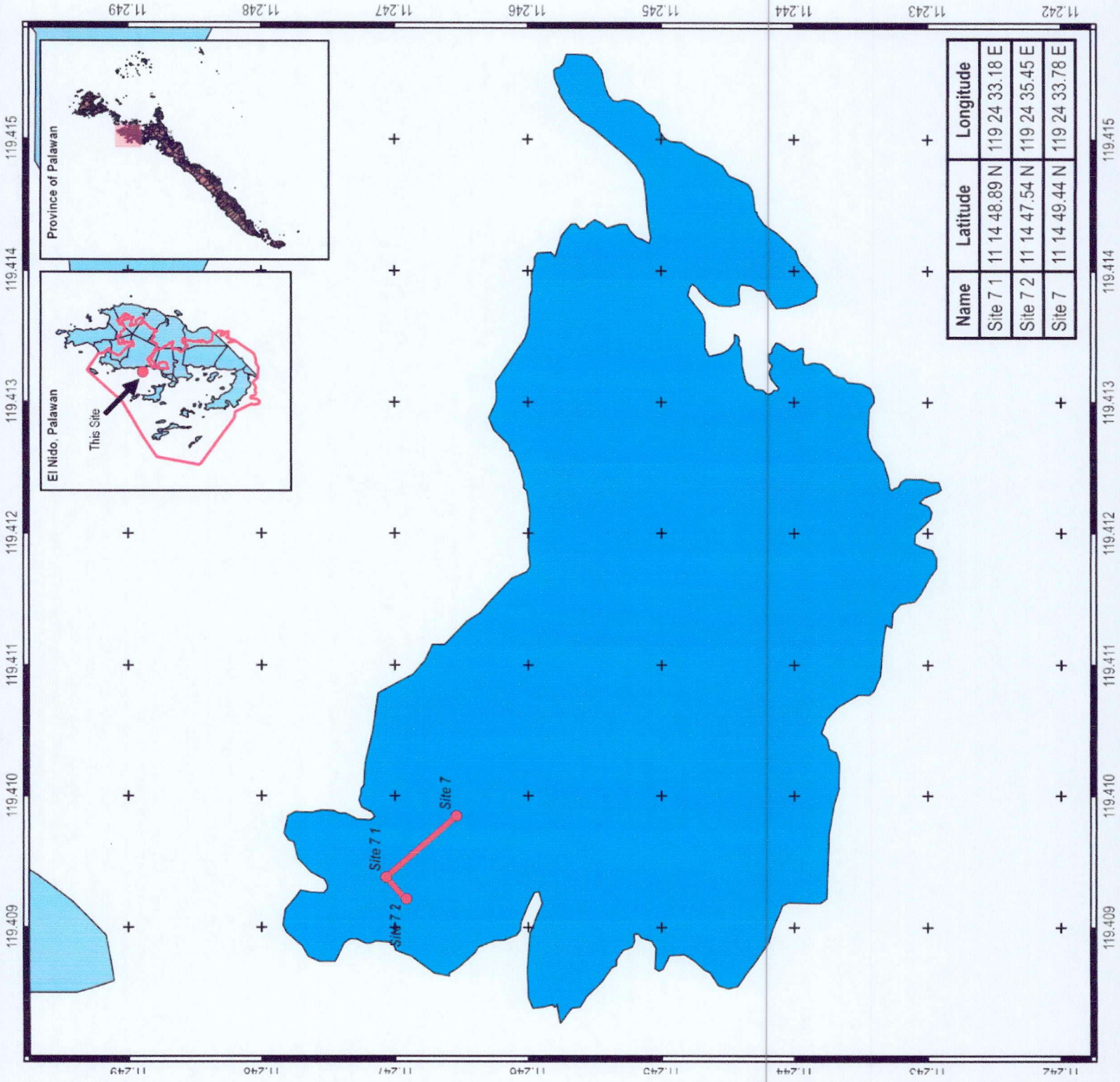
Cagbatang-Polygon

Cagbatang-Line

Barangay Boundary

CERTIFICATION

THIS IS TO CERTIFY that this area is within EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA (ENTMRPA) as per
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Name	Latitude	Longitude
Site 7 1	11 14 48.89 N	119 24 33.18 E
Site 7 2	11 14 47.54 N	119 24 35.45 E
Site 7	11 14 49.44 N	119 24 33.78 E

