Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

MAR 24 2023

DENR MIMAROPA
RECORDS SECTION
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BY: DATS NO.
TIME:

MEMORANDUM

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

THRU : The ARD for Technical Services

FROM : The OIC, PENR Officer

SUBJECT : **LIST OF INLAND WETLAND INVENTORIED WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022**

Respectfully submitted is the list of inland wetland inventoried and mapped within the of the Province of Occidental Mindoro for FY 2022.

Attached herewith the inventory report of two (2) CENRO's together with filled out Annex B. Form for Wetland Profiling (Wetland Information Sheet) map and geotagged pictures taken during conduct of the aforementioned activity.

For information and record.

ERNESTO E. TAÑADA

TSD-CDS3/23/2024

LIST INLAND WETLAND INVENTOR WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022								
NO.	WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFICATION	LOCATION/ ADMINISTRATIVE COVERAGE	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)		REMARKS
	MIMAROPA REGION							
	CENRO SABLAYAN							
1	Halawhawan Lake	Inland wetland	Inland (Tp)	Sta. Lucia	Sablayan	12° 45' 40.383" N	120° 48' 46.887" E	Inventory report submitted last 2020
2	Kapatid ni Cesar Pascual	Inland wetland	Inland (Tp)	San Francisco	Sablayan	12° 53' 35.938" N	120° 52' 39.065" E	Inventory report submitted last 2020
3	Malapaga Lake	Inland wetland	Inland (Tp)	San Vicente	Sablayan	12° 54' 0.156" N	120° 49' 46.227" E	Inventory report submitted last 2020
4	Marabong Lake	Inland wetland	Inland (O)	Batong Buhay	Sablayan	12° 50' 33.094" N	120° 53' 45.611" E	Inventory report submitted last 2020
5	Cesar Pascual	Inland wetland	Inland (Tp)	San Francisco	Sablayan	12° 53' 41.435" N	120° 52' 34.946" E	Cesar Pascual, Report submitted last 2020
6	Roben Fabra	Inland wetland	Inland (Tp)	San Francisco	Sablayan	12° 53' 39.848" N	120° 52' 37.903" E	Ruben Fabra, Report submitted last 2020
7	Tabtaban Lake	Inland wetland	Inland (O)	Tuban	Sablayan	12° 49' 28.300" N	120° 50' 6.266" E	Inventory report submitted last 2020
8	Sahing Lake	Inland wetland	Inland (O)	Sta. Lucia	Sablayan	12° 47' 3.821" N	120° 49' 4.073" E	Cesar Pascual, Report submitted last 2020
9	Mara Lake	Inland wetland	Inland (Tp)	San Francisco	Sablayan	12° 53' 2.757" N	120° 52' 35.635" E	Additional. Identified this 2022
10	Libuao Lake	Inland wetland	Inland (O)	Malisbong	Sablayan	12° 49' 3.681" N	120° 54' 0.377" E	Report submitted last 2020
11	Cabacungan Lake	Inland wetland	Inland (Tp)	San Francisco	Sablayan	12° 53' 33.396" N	120° 53' 15.228" E	Report submitted last 2020
12	Tadeo Lake	Inland wetland	Inland (Tp)	San Agustin	Sablayan	12° 54' 38.559" N	120° 54' 22.645" E	Additional. Identified this 2022
13	Buladlad Lake	Inland wetland	Inland (Tp)	San Agustin	Sablayan	12° 54' 45.696" N	120° 54' 22.356" E	Additional. Identified this 2022
14	Paragrasan Lake	Inland wetland	Inland (Tp)	San Agustin	Sablayan	12° 55' 42.679" N	120° 53' 22.892" E	Additional. Identified this 2022
15	Panikian Lake	Inland wetland	Inland (Tp)	San Agustin	Sablayan	12° 55' 37.906" N	120° 53' 41.142" E	Inventory report submitted last 2020
16	Malatongtong	Inland wetland	M	Brgy. Burgos	Sablayan			Additional. Identified this 2022

LIST[illegible] INLAND WETLAND INVENTOR[illegible] WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022								
NO.	WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFICATION	LOCATION/ ADMINISTRATIVE COVERAGE	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)		REMARKS
17	Palangan_Lake	Inland wetland	Inland (Tp)	Pinagturilan	Sta. Cruz	13° 0' 8.434" N	120° 50' 21.040" E	Report submitted last 2020 Other name Kapalangan Lake
18	Lanas Lalaki	Inland wetland	Inland (Tp)	Kurtinganan	Sta. Cruz	13° 7' 11.043" N	120° 45' 27.989" E	Report submitted last 2020
19	Lanas Babae	Inland wetland	Inland (O)	Kurtinganan	Sta. Cruz	13° 7' 36.085" N	120° 46' 20.847" E	Report submitted last 2020
20	Lanas Manggahan	Inland wetland	Inland (Tp)	Kurtinganan	Sta. Cruz	13° 7' 4.717" N	120° 45' 15.416" E	Report submitted last 2020
21	Laud	Inland wetland	Inland (O)	Brgy. Pinagturilan	Sta. Cruz	13° 0' 17.507" N	120° 49' 15.684" E	Merge three (3) inlands wetlands the Lalaguna lake, Lalaguna extension and Kamatis lake with report submitted last 2020.
22	Carindan	Inland wetland	O	Brgy. Pinagturilan	Sta. Cruz	12° 59' 7.154" N	120° 51' 22.594" E	Report submitted last 2020
23	Ambulan	Inland wetland	Tp	Brgy. Pinagturilan	Sta. Cruz	12° 59' 57.875" N	120° 50' 3.491" E	Report submitted last 2020
24	Sawalian Lake	Inland wetland	Inland (Tp)	Pinagturilan	Sta. Cruz	12° 59' 33.448" N	120° 49' 17.954" E	Additional. Identified this 2022
25	Suksuk Lake	Inland wetland	Inland (Tp)	Lumangbayan	Sta. Cruz	13° 5' 38.083" N	120° 46' 56.180" E	Additional. Identified this 2022
26	Tilago	Inland wetland	M	Brgy. Kurtinganan	Sta. Cruz			Data from LGU Sta. Cruz as per letter of Mayor Ernesto P. Torreliza
27	Bisay	Inland wetland	M	Brgy. Alacaak	Sta. Cruz			Data from LGU Sta. Cruz as per letter of Mayor Ernesto P. Torreliza
28	Lamesang bato		M	Brgy. Kurtinganan	Sta. Cruz			
29	Alyangan	Inland wetland	M	Brgy. Casague	Sta. Cruz			Data from LGU Sta. Cruz as per letter of Mayor Ernesto P. Torreliza
30	Mendiola 1	Inland wetland	M	Brgy. Pinagturilan	Sta. Cruz			Data from the submitted Forest Land Use Plan of Sta. Cruz
31	Mendiola 2	Inland wetland	M	Brgy. Pinagturilan	Sta. Cruz			Data from the submitted Forest Land Use Plan of Sta. Cruz

LIST OF INLAND WETLAND INVENTORY WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022								
NO.	WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFICATION	LOCATION/ ADMINISTRATIVE COVERAGE	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)		REMARKS
32	Lanas	Inland wetland	Tp	Brgy. Balansay	Mamburao	13° 12' 33.680" N	120° 40' 27.804" E	Report submitted last 2020
33	Kuhulan	Inland wetland	O	Brgy. Tangkalan	Mamburao	13° 16' 53.789" N	120° 37' 42.222" E	Report submitted last 2020
34	Gumaer	Inland wetland	M	Brgy. Tangkalan	Mamburao			Data from the submitted Forest Land Use Plan of Mamburao
35	Bakong 1	Inland wetland	M	Brgy. Balansay	Mamburao			Data from the submitted Forest Land Use Plan of Mamburao
36	Bakong 2	Inland wetland	M	Brgy. Balansay	Mamburao			Data from the submitted Forest Land Use Plan of Mamburao
37	Igmanukan	Inland wetland	Tp	Brgy. Harrison	Paluan	13° 24' 34.340" N	120° 22' 38.453" E	Report submitted last 2020. Several inland wetlands particularly falls are within the Mt. Calavite Wildlife Santuary.
38	Lanas	Inland wetland	Tp	Brgy. Cabacao	Abra de Ilog	13° 20' 11.148" N	120° 40' 14.208" E	Merge two (2) inlands wetland namely Lanas and Lanas ulohan with report submitted last 2020
39	Kabayag	Inland wetland	Tp	Brgy. Cabacao	Abra de Ilog	13° 20' 40.479" N	120° 39' 31.441" E	Report submitted last 2020
40	Bakong	Inland wetland	Tp	Brgy. Cabacao	Abra de Ilog	13° 20' 39.002" N	120° 39' 55.168" E	Report submitted last 2020
41	Agbalala 1	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
42	Agbalala 2	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
43	Aglaon	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog

LIST OF INLAND WETLAND INVENTORY WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022								
NO.	WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFICATION	LOCATION/ ADMINISTRATIVE COVERAGE	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)		REMARKS
44	Kobi	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
45	Kuli-kuli	Inland wetland	M	Brgy. Armado	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
46	Mamara	Inland wetland	M	Brgy. San Vicente	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
47	Matugdan	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
48	Mayaas	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
49	Nangka	Inland wetland	M	Brgy. Balao	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
50	Papali 1	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
51	Papali 2	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
52	Sto Tomas	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
53	Tambarikay	Inland wetland	M	Brgy. Balao	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
54	Tara	Inland wetland	M	Brgy. San Vicente	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog

LIS F INLAND WETLAND INVENTOI D WITHIN THE PROVINCE OF OCCIDENTAL MINDORO FY 2022								
NO.	**WETLAND SITE NAME**	**WETLAND TYPE/S**	**WATERBODY CLASSIFICATION**	**LOCATION/ ADMINISTRATIVE COVERAGE**	**NEAREST LARGE CITY/ MUNICIPALITY**	**CENTROID (LATITUDE AND LONGITUDE)**		**REMARKS**
55	Kalong	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
56	Tagbac Lake	Inland wetland	Marine Wetland (J)	Tagbac	Lubang	13° 50' 27.360" N	120° 5' 50.969" E	Additional. Identified this 2022
57	Hulagaan Falls	Inland wetland	M	Brgy. Binacas	Lubang			Additional. Identified this 2022
58	Lalaguna Lagoon	Inland wetland	Marine Wetland (J)	Bulacan	Looc	13° 39' 56.889" N	120° 20' 29.952" E	Additional. Identified this 2022
	CENRO SAN JOSE							
59	Bukal Spring and Mangrove Area	River		Brgy. Nicolas	Magsaysay	1389213	275738	
60	Minanga Cove	Marine/Coastal		Ambulong Island	San Jose	1349697	283636	
61	Niyayos River and Mangrove Area	Marine/Coastal		So. Niyayos I, brgy. Poblacion	Calintaan	1389264	275764	
62	Marsumbol Wetland Area	Marine/Coastal		So. Marsumbol, Brgy. New Dagupan	Calintaan	1388234	274850	
63	Sto. Niño Wetland Area	Permanent Fresh Water Marsh/Pool		So. Candague, Brgy. Sto.Niño	Rizal	1380188	287623	Wetland Profiling not yet done

Consolidated by:

EMILIZA A. CALABIO
Chief, CDS

Reviewed by:

CELSO B. ALMAZAN
In-Charge, TSD

Attested by:

ERNESTO E. TAÑADA
OIC, PENR Officer

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

DEC 06 2022

MEMORANDUM

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

THRU : The ARD for Technical Services

FROM : The OIC, PENR Officer

SUBJECT : **ACCOMPLISHMENT REPORT ON THE CONDUCTED INVENTORY INLAND WETLANDS**

Forwarded is the memorandum dated November 25, 2022 of CENRO Sablayan regarding Accomplishment Report on the conducted Inventory of Inland Wetlands within their area of jurisdiction. The list includes those that were submitted last 2020 with minor corrections and newly identified inland wetlands.

Based on their report a letter request was sent to all the LGU's requesting for the list of inland wetland within their respective jurisdiction but only the munipality of Sta. Cruz responded to their request. Likewise, the listed inland wetlands were based on the tourism site and Forest Land Use Plans (FLUPs).

Attached herewith are the Annex A. Form for the Inventory of Inland Wetland as well as Wetland Information Sheet (WIS) of the Suksuk lake, Sawalian lake in Sta. Cruz, Occidental Mindoro and the updated WIS of Lalaguna lake in Looc, Occidental Mindoro, communication letters sent to the Local Government Units (LGUs), GIS generated maps and geotagged photos during the site verification. Copy of the MOV's can be access on the provided link (bit.ly/CSby-CDS-IIW).

For information and record.

RECEIVED
DATE: 12/6 TIME

ERNESTO E. TAÑADA

TSD-CDS12/02/2022
Copy furnished:
1. Planning
2. File

So. Pag-asa, Brgy. Payompon, Mamburao, Occidental Mindoro
Email:penrooccmin@denr.gov.ph

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

November 25, 2022

MEMORANDUM

RECORDED
Date: 11-29-22
By:

FOR : The OIC, PENR Officer
Mamburao, Occidental Mindoro

THRU : The Chief, Technical Services Division

FROM : The CENR Officer

SUBJECT : ACCOMPLISHMENT REPORT ON THE CONDUCTED INVENTORY OF INLAND WETLANDS

Respectfully submitted herewith is the final list of all the inland wetlands within the area of CENRO Sablayan jurisdiction. The list includes those that were submitted last 2020 with minor corrections and newly identified inland wetlands.

Please be informed that letters of communication were sent to all the Local Government Units (LGUs) requesting for the list of the said inland wetlands within their respective municipalities but only the LGU of Sta. Cruz responded to the request. The listed inland wetlands were based on the tourism sites identified in their Forest Land Use Plans (FLUPs). On the part of the Mt. Calavite Wildlife Sanctuary, the Protected Area Management has committed to submit the inventory of the said inland wetlands upon the consultation with the indigenous communities within the PA.

Attached herewith are the Annex A. Form for the Inventory of Inland Wetland as well as Wetland Information sheet (WIS) of the Suksuk lake, Sawalian lake in Sta. Cruz, Occidental Mindoro, Tadeo lake, Buladlad lake, Paragasan lake, Cabakungan lake, Mara lake in Sablayan, Occidental Mindoro, Tagbak lake in Lubang, Occidental Mindoro and the updated WIS of Lalaguna lake in Looc, Occidental Mindoro, communication letters sent to the Local Government Units (LGUs), GIS generated maps and geo-tagged photos during the site verification.

To access the electronic copies of our Means of Verifications (MOVs) for the Inventory of Inland Wetlands kindly visit the following link *(bit.ly/ CSby-CDS-IIW)*.

For information, evaluation and record.

RECEIVED BY:
DATE: 11-29-22
TIME: 08:47

TSD
RECEIVED BY:
DATE:
TIME:

FOR. ANASTACIO A. SANTOS, MPA

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Annex A. FORM FOR INVENTORY OF INLAND WETLANDS IN THE REGION							
MIMAROPA REGION							
CENRO SABLAYAN							
WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFICATION	LOCATION/ ADMINISTRATIVE COVERAGE	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)		REMARKS
SABLAYAN							
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STA. CRUZ							
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Bakong 2	Inland wetland	M	Brgy. Balansay	Mamburao			Data from the submitted Forest Land Use Plan of Mamburao
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ABRA DE ILOG							
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Aglaon	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
Kobi	Inland wetland	M	Brgy. Wawa	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
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Tambarikay	Inland wetland	M	Brgy. Balao	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog

Tara	Inland wetland	M	Brgy. San Vicente	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
Kalong	Inland wetland	M	Brgy. Udalo	Abra de Ilog			Data from the submitted Forest Land Use Plan of Abra de Ilog
LUBANG							
Tagbac Lake	Inland wetland	Marine Wetland (J)	Tagbac	Lubang	13° 50' 27.360" N	120° 5' 50.969" E	Additional. Identified this 2022
Hulagaan Falls	Inland wetland	M	Brgy. Binacas	Lubang			Additional. Identified this 2022
LOOC							
Lalaguna Lagoon	Inland wetland	Marine Wetland (J)	Bulacan	Looc	13° 39' 56.889" N	120° 20' 29.952" E	Additional. Identified this 2022
	Prepared and consolidated by:				Noted:		
		ALVIN E. SANICO				**FOR. ANASTACIO A. SANTOS, MPA**	
		Forester II/ Chief, Conservation and Development Section				CENR Officer	

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Suksuk Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	> PLEASE SEE ATTACHED GEOTAGGED PHOTOS

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Cassgue	Brgy. Pag-asa	Brgy. Cassgue	Brgy. Barahan

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			7.00	7.53
Area of water/wet area : *(river/creek not included)*			1.82	3.29

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			354	427
Width :			66	380
Depth :				

Elevation *(in meters above sea level)* : 17

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	Lumang Bayan	Sta Cruz	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Sta Cruz	Lumang Bayan				farming	landlocked
	Total Population			3556		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

	Latitude	Longitude
Centroid :	120°46' 56.180" E	13°5' 38.043 N
*Upstream :		
*Midstream :		
*Downstream :		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE 1

Climatic Type Description:
TWO DISTINCT SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	10.3	5.2	2.4	2.4	103.5	185.3	354.6	290.3	444	1605.2	155.5	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED: 2-4, WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils:**

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : clayey
Wetland/aquatic area : clayey

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime:**

Water source *(check the source and write the name and/or location of inflow and outflow):*

[/] Surface source [/] Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
Pola river

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*
irrigation with the adjacent ricefields

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*
Shallow and deep wells

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB assessment conducted

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*

Flooding frequency *(how often does flooding occur within a year?):* depends is there is typhoon

Flooding seasonality *(in what month/s does flooding usually occur?):* depends if there is typhoon

Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	no data	no data	no data	no data
Chlorine (mg/L)	no data	no data	no data	no data
Color (TCU)	no data	no data	no data	no data
Dissolved Oxygen (mg/L)	no data	no data	no data	no data
Fecal coliform (MPN/100mL)	no data	no data	no data	no data
Nitrate as NO_3-N (mg/L)	no data	no data	no data	no data
pH (range)	no data	no data	no data	no data
Phosphate (mg/L)	no data	no data	no data	no data
Temperature (°C)	no data	no data	no data	no data
Total suspended solid (mg/L)	no data	no data	no data	no data
Turbidity (NTU)	no data	no data	no data	no data
Salinity	no data	no data	no data	no data
Conductivity	no data	no data	no data	no data
Other: _____	no data	no data	no data	no data

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	kakawate napier tampo						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	kangkong						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	tagak, tikling							
Mammals	daga							
Herpetofauna	sawa, palaka							
Invertebrates								
Others								
B. Aquatic								
Fish	tilapia,	dalag, hito,						
Mammals								
Herpetofauna								
Invertebrates	kuhol							
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	+		✓		
	Food	+		✓		
	Fuel	+		✓		
	Fibre	+	timber for building	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+	herbal medicines	✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+		✓		
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	−	mosquitos			
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	+		✓		
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+				
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* pasture area for livestock

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* Agricultural

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

Overfishing

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
LGU Lumang		BLGU Lumang -		
Bayan Sta Cruz		Bayan, Sta Cruz		

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

Natural Calamities

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

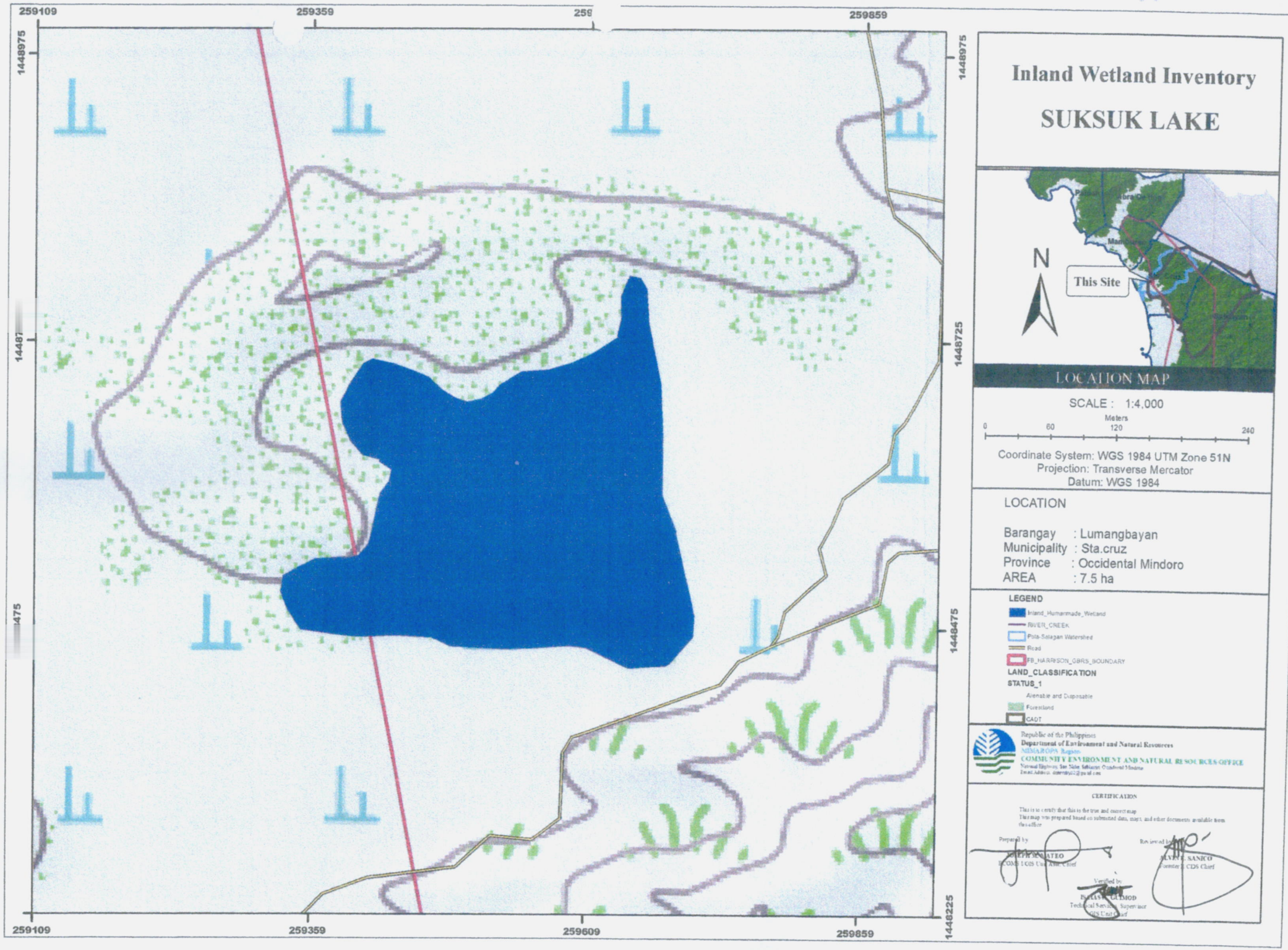

259109
259359
259
259859
1448975
1448725
1448475
1448225
259109
259359
259609
259859
Inland Wetland Inventory
SUKSUK LAKE
N
This Site
LOCATION MAP
SCALE : 1:4,000
Meters
0
60
120
240
Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984
LOCATION
Barangay : Lumangbayan
Municipality : Sta.cruz
Province : Occidental Mindoro
AREA : 7.5 ha
LEGEND
Inland_Humanmade_Wetland
RIVER_CREEK
Pola-Salagan Watershed
Road
FB_HARRISON_GBRS_BOUNDARY
LAND_CLASSIFICATION
STATUS_1
Alienable and Disposable
Forestland
CADT
Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
CERTIFICATION
This is to certify that this is the true and correct map
This map was prepared based on submitted data, maps, and other documents available here
this office
Prepared by
ECOMS I GIS Unit Asst. Chief
Verified by
Technical Services Supervisor
GIS Unit Chief
Reviewed by
Forester II CDS Chief

PHOTO DOCUMENTATION

Suksuk Lake

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			0.4	6.52
Area of water/wet area : *(river/creek not included)*			0.35	0.4

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			100	118
Width :			50	57
Depth :				

Elevation *(in meters above sea level)* : 15

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
LAUD	PINAGTURILAN	STA. CRUZ	OCC. MDO.

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
STA. CRUZ	PINAGTURILAN	—	—	8,053	FARMING	LANDLOCKED
Total Population				8,053		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

N/A

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): SAWAKIAN LAKE

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

USIGAN LAKE

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	> PLEASE SEE ATTACHED GEOTAGGED PHOTOS

2. **Wetland type** *(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • (Tp) • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape *(cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries *(to the North, East, South and West etc.):*

North	East	West	South
Brgy. Dayap	Brgy. Pag-asa	Brgy. Barahan	Brgy. Claudio Salgado

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	120° 49' 17.954" E	12° 59' 33.948" N
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE I

Climatic Type Description:
TWO PRONOUNCED SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.5	444	625.2	155.5	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.4	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED : 2-4, WIND DIRECTION : 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils:**

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

forces of nature

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*

ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : CLAYEY

Wetland/aquatic area : CLAYEY

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime:**

Water source *(check the source and write the name and/or location of inflow and outflow):*

[ ] Surface source [/] Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

N/A

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

N/A

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification,Appendix 4):*

SHALLOW AND DEEP WELLS

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* NO ERDB ASSESSMENT CONDUCTED

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*

Flooding frequency *(how often does flooding occur within a year?):* 1 A YEAR

Flooding seasonality *(in what month/s does flooding usually occur?):* DEPENDING IF THERE IS TYPHOON

Flooding duration *(for how long does floodwater usually stay within each season?):* 1 DAY

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

NO DATA

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: NO WATER CLASSIFICATION CONDUCTED

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Chlorine (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Color (TCU)	NO DATA	NO DATA	NO DATA	NO DATA
Dissolved Oxygen (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Fecal coliform (MPN/100mL)	NO DATA	NO DATA	NO DATA	NO DATA
Nitrate as NO_3-N (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
pH (range)	NO DATA	NO DATA	NO DATA	NO DATA
Phosphate (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Temperature (°C)	NO DATA	NO DATA	NO DATA	NO DATA
Total suspended solid (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Turbidity (NTU)	NO DATA	NO DATA	NO DATA	NO DATA
Salinity	NO DATA	NO DATA	NO DATA	NO DATA
Conductivity	NO DATA	NO DATA	NO DATA	NO DATA
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. **Noteworthy flora/Plant communities**:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

SECONDARY FOREST / OPEN AREA

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	BANGKAL MOLAVE KAKAWATI BANI	DUHAT TABAR CARABAO GRASS					
	DUHAT	PANDAN					
	KAWAYAN						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)							

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	TAGAK,							
Mammals	daga							
Herpetofauna	sawa							
Invertebrates								
Others								
B. Aquatic								
Fish	Tilapia, dalag, hito, igat							
Mammals	daga							
Herpetofauna								
Invertebrates	kuhol							
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
++	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
--	Potential significant negative benefit
?	Gaps in evidence

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
Provisioning Services	Fresh water	+		✓		
	Food	++	fish	✓		
	Fuel	+	fuel wood	✓		
	Fibre	+	timber for building	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+	herbal medicines	✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+				✓
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	-	mosquitos	✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	+		✓		
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* pasture areas for livestock

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* agricultural

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity)*:

Overfishing

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions)*:

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
BLGU Pinagtuwilan		BLGU Pinagtuwilan		

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

Natural Calamities (typhoon, earthquake)

19. Management Prescriptions/Proposed Management Interventions:

_____

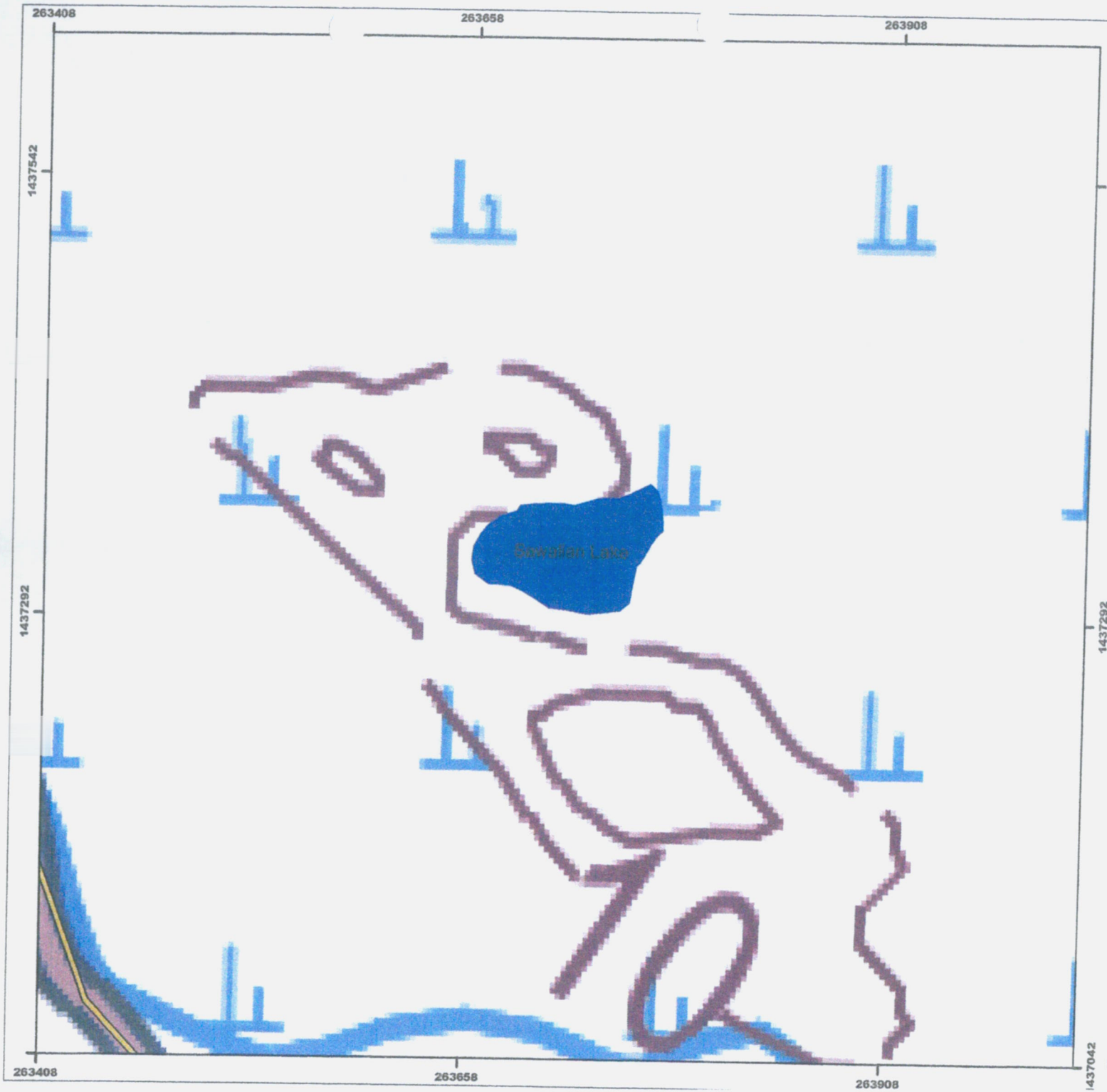
_____

_____

***20.* Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	Description	Relative location (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.



Inland Wetland Inventory

SAWALIAN LAKE

LOCATION MAP

SCALE : 1:3,000

Meters

0 45 90 180

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Pinagturilan
Municipality : Sta.cruz
Province : Occidental Mindoro
AREA : 0.55 ha

LEGEND

Inland_Humanmade_Wetland

Road

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
National Highway, Sta Maria, Poblacion 0 (Lubang) Mindoro
Email Address: denrcenro@gmail.com

CERTIFICATION

That is to certify that this is the true and correct map
This map was prepared based on submitted data, maps and other documents available from this office

Prepared by:

Reviewed by:

ADRIAN E. SANICO
Provincial CENR Officer

Verified by:

GIS Unit Chief

PHOTO DOCUMENTATION

Sawalian Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Tadeo Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	PLEASE SEE ATTACHED GEOTAGGED PHOTOS

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Pag-Asa	Brgy. Pag-asa	Brgy. Pacta	San Francisco

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			1.0	1.55
Area of water/wet area : *(river/creek not included)*			0.7	0.9

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			145	175
Width :			89	93.80
Depth :				

Elevation *(in meters above sea level)* : 42 m

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	San Agustin	Sablayan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Sablayan	San Agustin			2490	Farming	
Total Population						

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

	Latitude	Longitude
Centroid :	120° 54 22.695 E	12° 54' 38.559" N
*Upstream :		
*Midstream :		
*Downstream :		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE I

Climatic Type Description:
TWO PRONOUNCED SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.3	444	605.5	165.5	41.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	36.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED : 2-4, WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : CLAYEY
Wetland/aquatic area : CLAYEY

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
N/A

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*
Seasonal water source of 3 has rice field

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*
Shallow and Deep wells

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB assessment conducted

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*

Flooding frequency *(how often does flooding occur within a year?):* once a year depends if there is typhoon

Flooding seasonality *(in what month/s does flooding usually occur?):* depends if there is Typhoon

Flooding duration *(for how long does floodwater usually stay within each season?):* 1-2 days

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
NO Data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	no data	no data	no data	no data
Chlorine (mg/L)	no data	no data	no data	no data
Color (TCU)	no data	no data	no data	no data
Dissolved Oxygen (mg/L)	no data	no data	no data	no data
Fecal coliform (MPN/100mL)	no data	no data	no data	no data
Nitrate as NO_3-N (mg/L)	no data	no data	no data	no data
pH (range)	no data	no data	no data	no data
Phosphate (mg/L)	no data	no data	no data	no data
Temperature (°C)	no data	no data	no data	no data
Total suspended solid (mg/L)	no data	no data	no data	no data
Turbidity (NTU)	no data	no data	no data	no data
Salinity	no data	no data	no data	no data
Conductivity	no data	no data	no data	no data
Other: _____	no data	no data	no data	no data

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Bangkal Mangga sabitha tambo						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	water lettuce floating heart arugan kang kong						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	tagak							
Mammals	daga							
Herpetofauna	palaka, ahas							
Invertebrates	tutubi							
Others								
B. Aquatic								
Fish	gurami, dalag, tilapia, igat, hito							
Mammals								
Herpetofauna								
Invertebrates	kuhol							
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	+	irrigation	✓		
	Food	++	fish	✓		
	Fuel	+	fuel wood	✓		
	Fibre	+	timber for building	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+		✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+				✓
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	−	mosquitos	✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	+		✓		

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	+		✓		
	Recreation and tourism	+		✓		
	Aesthetic value	0		✓		
	Spiritual and religious value	+		✓		
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland)*: pasture area for livestock (cattle, chickens, geese)

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.)*: _____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*
Overfishing, overpopulation of water lettuce

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*
(maintenance of the cleanliness of lake control of invasive species like, water lettuce, water weed)

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Roosevelt Pamor	Caretaker		09056206693	

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**
Natural Calamities

19. Management Prescriptions/Proposed Management Interventions:

_____

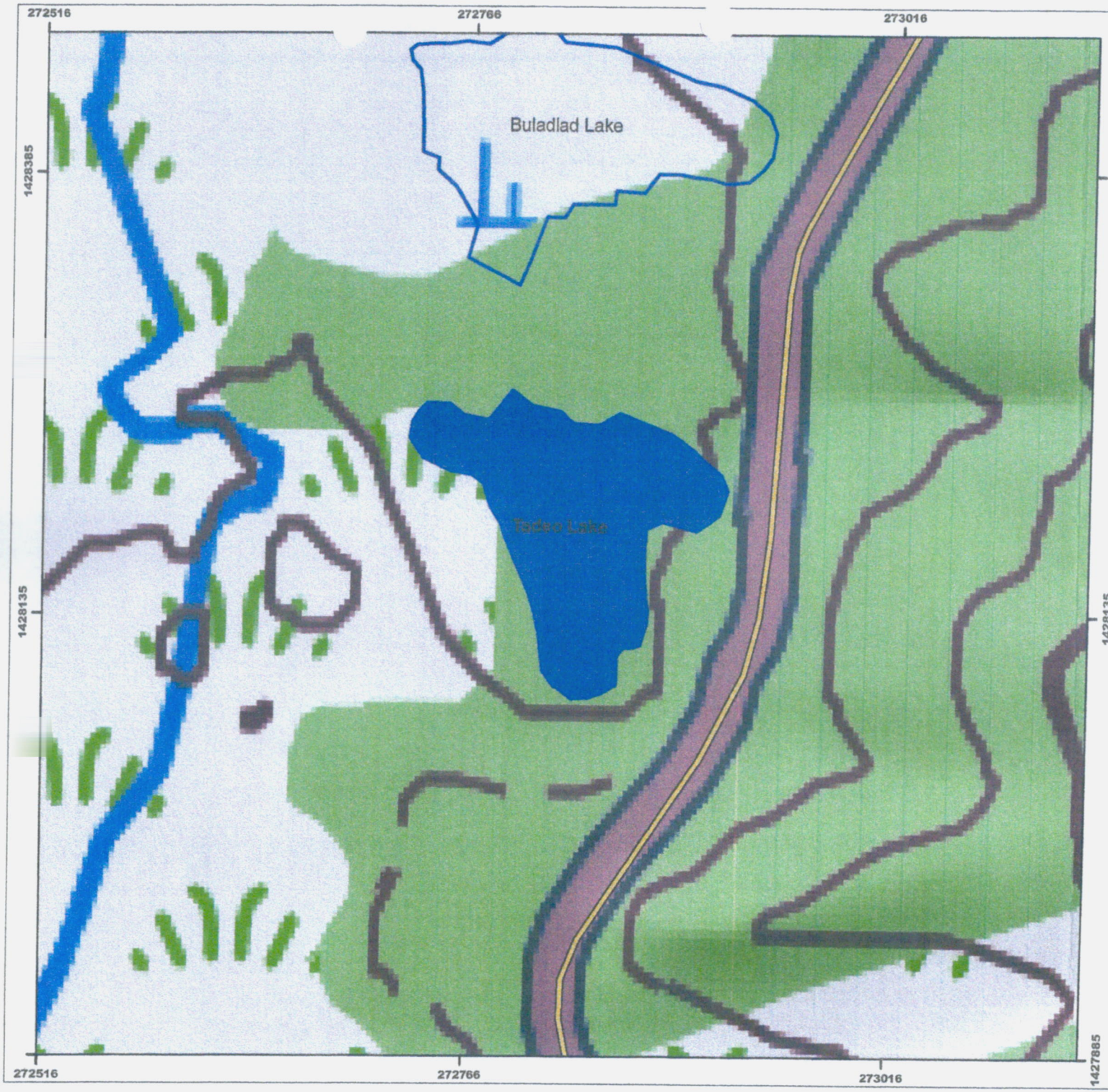
_____

_____

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

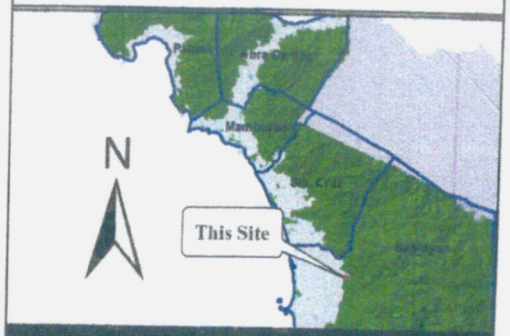
Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.



Inland Wetland Inventory

TADEO LAKE



LOCATION MAP

SCALE : 1:3,000

Meters

0 45 90 180

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : San Agustin
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 1.54 ha

LEGEND

- Tadeo_Lake
- Inland_Humanmade_Wetland
- Road

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
National Highway, San Nicolas, Sablayan, Occidental Mindoro
Email Address: cenrosablayan@gmail.com

CERTIFICATION

That is to certify that the is the true and correct map
This map was prepared based on submitted data, maps, and other documents available from this office

Prepared by:
JOSEPH M. MATEO
ECOMB GIS Unit Asst. Chief

Reviewed by:
ALVIN E. SANICO
Forester II/CDS Chief

Verified by:
ISAIAH [illegible] IMOD
Technical Services Supervisor
GIS Unit Chief

PHOTO DOCUMENTATION

Tadeo Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Buladlad Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	> PLEASE SEE ATTACHED GEOTAGGED PHOTOS

2. **Wetland type** *(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • (Tp) • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape *(cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries *(to the North, East, South and West etc.):*

North	East	West	South
Brgy. Pag-asa	Brgy. Pag-asa	Brgy. Poctan	Brgy. San Francisco

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			1.7	1.80
Area of water/wet area : *(river/creek not included)*			1.3	1.4

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			160	207
Width :			38	107
Depth :				

Elevation *(in meters above sea level)* : 44

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
Proper	San Agustin	Sablayan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Sablayan	San Agustin			2490		
	Total Population			2490		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	120°54' 22.756 E	12° 54' 45.696 N
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE 1

Climatic Type Description:
TWO PRONOUNCED SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.5	444	605.2	155.5	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED: 2-4, WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
Alfisol , Inceptisol

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Clayey, sandy
Wetland/aquatic area : Clayey, sandy

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
Spring

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification,Appendix 4):*
Shallow and deep wells

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB assessment conducted
Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*
Flooding frequency *(how often does flooding occur within a year?):* once a year depends if there is typhoon
Flooding seasonality *(in what month/s does flooding usually occur?):* depends on the weather condition
Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day
Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Chlorine (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Color (TCU)	NO DATA	NO DATA	NO DATA	NO DATA
Dissolved Oxygen (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Fecal coliform (MPN/100mL)	NO DATA	NO DATA	NO DATA	NO DATA
Nitrate as NO_3-N (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
pH (range)	NO DATA	NO DATA	NO DATA	NO DATA
Phosphate (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Temperature (°C)	NO DATA	NO DATA	NO DATA	NO DATA
Total suspended solid (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Turbidity (NTU)	NO DATA	NO DATA	NO DATA	NO DATA
Salinity	NO DATA	NO DATA	NO DATA	NO DATA
Conductivity	NO DATA	NO DATA	NO DATA	NO DATA
Other: _____	NO DATA	NO DATA	NO DATA	NO DATA

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : No data
Year Data Collected : No data
Sampling Frequency *(annual or monthly)* : No data

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Bangkal kawayan niyog						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	Kangkong Tambo						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	tagak, tiling, paon							
Mammals	daga							
Herpetofauna	palaka, ahas							
Invertebrates								
Others								
B. Aquatic								
Fish	tilapia, carp, igat, dalag, hito							
Mammals								
Herpetofauna	Snake							
Invertebrates	Kuhol, bilad							
Others	Snake turtle							

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
++	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
--	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	+		✓		
	Food	+		✓		
	Fuel	+		✓		
	Fibre	+		✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+		✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+		✓		
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	+		✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	0				
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	0				
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland)*: pasture area for livestock

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.)*: _____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

Overfishing

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Salvo Bautista	Caretaker	045502225 65		
		09924260326		

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

natural calamities

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

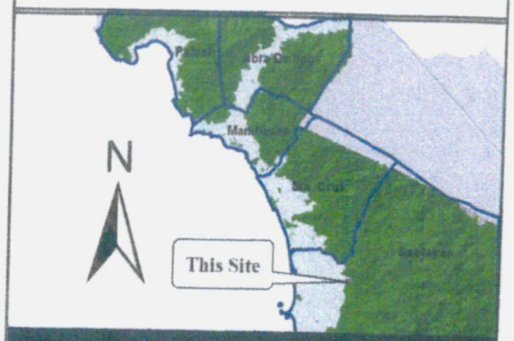
20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

Inland Wetland Inventory

BULADLAD LAKE



LOCATION MAP

SCALE : 1:2,500

Meters
0 37.5 75 150

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : San Agustin
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 1.71 ha

LEGEND

- Buladlad_Lake
- Inland_Humanmade_Wetland
- Road

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Natural Habitat, Sta. Mita, Sablayan, Occidental Mindoro
Email Address: denr.mpsc@gmail.com

CERTIFICATION

This is to certify that this is the true and correct map
This map was prepared based on submitted data, maps, and other documents available from this office

Prepared by:
JOSEPH M. MATEO
ECOMS / GIS Unit Asst. Chief

Reviewed by:
ALVIN E. SANICO
Forester II/CENR Chief

Verified by:
ISAMEL [illegible]
Technical Services Supervisor
OIC Unit Chief

PHOTO DOCUMENTATION

Buladlad Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Paragrasan Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*
Previously part of the Panikian Lake

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

[illegible] photograph	geotagged photograph > PLEASE SEE ATTACHED GEO TAGGED PHOTOS

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • (Tp) • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Pagasa	San Francisco	Brgy. Pagasa	Brgy. Pactan

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			1.35	1.6
Area of water/wet area : *(river/creek not included)*			1.20	1.34

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			125	190
Width :			91	106
Depth :				

Elevation *(in meters above sea level)* : 32

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	San Agustin	Sablayan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Sablayan	San Agustin			2490		
	Total Population					

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	120°53' 22.892" E	17° 55' 42.679 N
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate:** *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* CLIMATIC TYPE I

Climatic Type Description:
TWO PRONOUNCED SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.5	444	605.2	155	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	20.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED - 24 WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : CLAYEY
Wetland/aquatic area : CLAYEY

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
N/A

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*
Patrick River (when there is typhoon)

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*
SHALLOW and DEEP WELLS

7. **Flooding**:

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* NO ERDB ASSESSMENT CONDUCTED

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*

Flooding frequency *(how often does flooding occur within a year?):* once a year and depends if there is typhoo

Flooding seasonality *(in what month/s does flooding usually occur?):* depends if there is typhoon

Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
NO DATA

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: NO WATER CLASSIFICATION CONDUCTED

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Chlorine (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Color (TCU)	NO DATA	NO DATA	NO DATA	NO DATA
Dissolved Oxygen (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Fecal coliform (MPN/100mL)	NO DATA	NO DATA	NO DATA	NO DATA
Nitrate as NO_3-N (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
pH (range)	NO DATA	NO DATA	NO DATA	NO DATA
Phosphate (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Temperature (°C)	NO DATA	NO DATA	NO DATA	NO DATA
Total suspended solid (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Turbidity (NTU)	NO DATA	NO DATA	NO DATA	NO DATA
Salinity	NO DATA	NO DATA	NO DATA	NO DATA
Conductivity	NO DATA	NO DATA	NO DATA	NO DATA
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

SECONDARY FOREST / OPEN AREA

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Bangkal Potat Kawayan tambo						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	aragan kangkong						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	tagak							
Mammals	daga							
Herpetofauna	sawa, palaka							
Invertebrates	kuhol							
Others								
B. Aquatic								
Fish	tilapia, dalag, hito, carp							
Mammals								
Herpetofauna								
Invertebrates	kuhol							
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	+	drinking water for livestock	✓		
	Food	++	fish, fruits	✓		
	Fuel	+	fuelwood	✓		
	Fibre	+	timber for building	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+	herbal medicine	✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+				✓
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	-	rats and mosquitos	✓		
	Disease regulation - human	-	mosquitos	✓		
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0		0		

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	0				
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other information *(on the importance of the particular wetland):* Pasture area

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* _____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

overfishing, overpopulation of water lettuce

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Rose Pojas	Caretaker, Representative		09364578230	

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

Natural Calamities (typhoon)

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

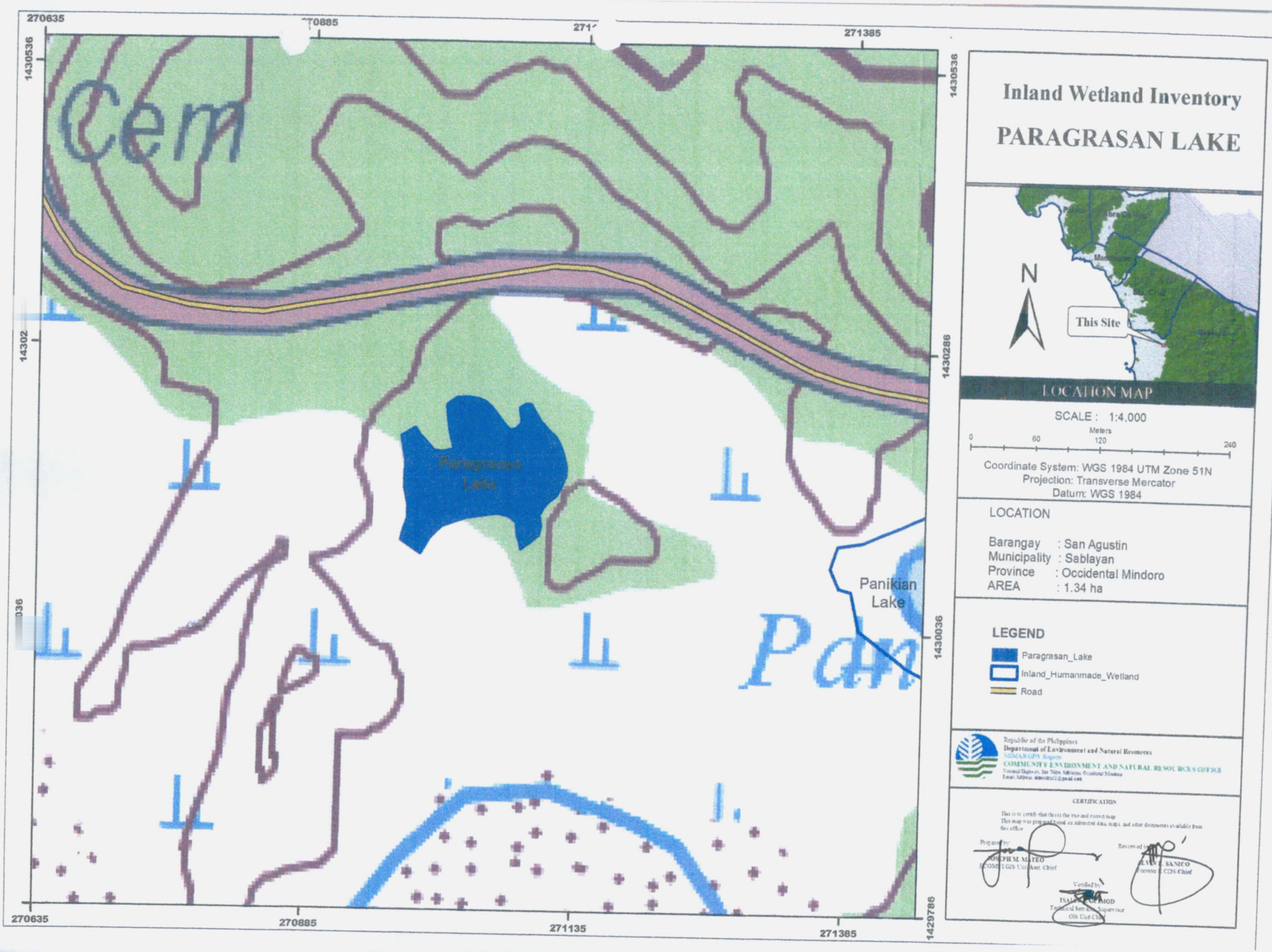

270635
270885
271135
271385
1430536
14302
036
1430286
1430036
1429786
Cem
Paragrasan Lake
Panikian Lake
Pan
Inland Wetland Inventory
PARAGRASAN LAKE
N
This Site
LOCATION MAP
SCALE : 1:4,000
Meters
0
60
120
240
Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984
LOCATION
Barangay : San Agustin
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 1.34 ha
LEGEND
Paragrasan_Lake
Inland_Humanmade_Wetland
Road
Republic of the Philippines
Department of Environment and Natural Resources
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
CERTIFICATION
Prepared by:
Verified by:

PHOTO DOCUMENTATION

Paragrasan Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Cabakungan Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

photograph	geotagged photograph
	PLEASE SEE ATTACHED GEO TAGGED PHOTOS

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • (Tp) • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Paetan	Brgy. San Agustin	Brgy. San Vicente	Brgy. Bagong Buhay

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			2.0	2.9
Area of water/wet area : *(river/creek not included)*			1.4	2.0

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			250	269
Width :			45	120
Depth :				

Elevation *(in meters above sea level)* : 52

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	San Francisco	Sablayan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Sablayan	San Francisco			3,485		
	Total Population					

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

	Latitude	Longitude
Centroid :	120° 53' 15.228" E	12°53 33.396" N
*Upstream :		
*Midstream :		
*Downstream :		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE I

Climatic Type Description:
TWO PRONOUNCED SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	11.3	5.2	2.4	2.4	103.5	185.3	254.6	290.5	444	615.2	165.3	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
WIND SPEED: 2-4, WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 10, 270, 210, 60, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : CLAYEY , SANDY
Wetland/aquatic area : CLAYEY , SANDY

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☑ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
irrigation , Spring

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*
irrigation

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*

7. **Flooding**:

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB assessment conducted
Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*
Flooding frequency *(how often does flooding occur within a year?):* depends if there is typhoon
Flooding seasonality *(in what month/s does flooding usually occur?):* depend if there is typhoon
Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day
Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	no data	no data	no data	no data
Chlorine (mg/L)	no data	no data	no data	no data
Color (TCU)	no data	no data	no data	no data
Dissolved Oxygen (mg/L)	no data	no data	no data	no data
Fecal coliform (MPN/100mL)	no data	no data	no data	no data
Nitrate as NO_3-N (mg/L)	no data	no data	no data	no data
pH (range)	no data	no data	no data	no data
Phosphate (mg/L)	no data	no data	no data	no data
Temperature (°C)	no data	no data	no data	no data
Total suspended solid (mg/L)	no data	no data	no data	no data
Turbidity (NTU)	no data	no data	no data	no data
Salinity	no data	no data	no data	no data
Conductivity	no data	no data	no data	no data
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Bangka1, Sagiray kalumpang tambo						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	kangkong cleaton hearit						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	wild duck, tikling, eagle, wild chicken							
Mammals	wild rat							
Herpetofauna	snake, frog, monitor lizard							
Invertebrates								
Others								
B. Aquatic								
Fish	Igat, hito, tilapia, bonog, giant gourami, carp, dalag, freshwater turtle							
Mammals								
Herpetofauna	kuhol							
Invertebrates								
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	Describe benefit	Local	Regional	Global
Provisioning Services	Fresh water	+		✓		
	Food	+	fish	✓		
	Fuel	+	fire wood	✓		
	Fibre	+	lumber	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+	herbal medicine	✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+		✓		
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	+		✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	+		✓		
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	+		✓		
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* pasture area, proposed site for TESDA and ATI complex, proposed tourist spot

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* Agriculture

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*
Overpopulation of water lettuce, kaibigan near the area

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
CELSO SALGADO	owner		09178532047	

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**
Natural calamities

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

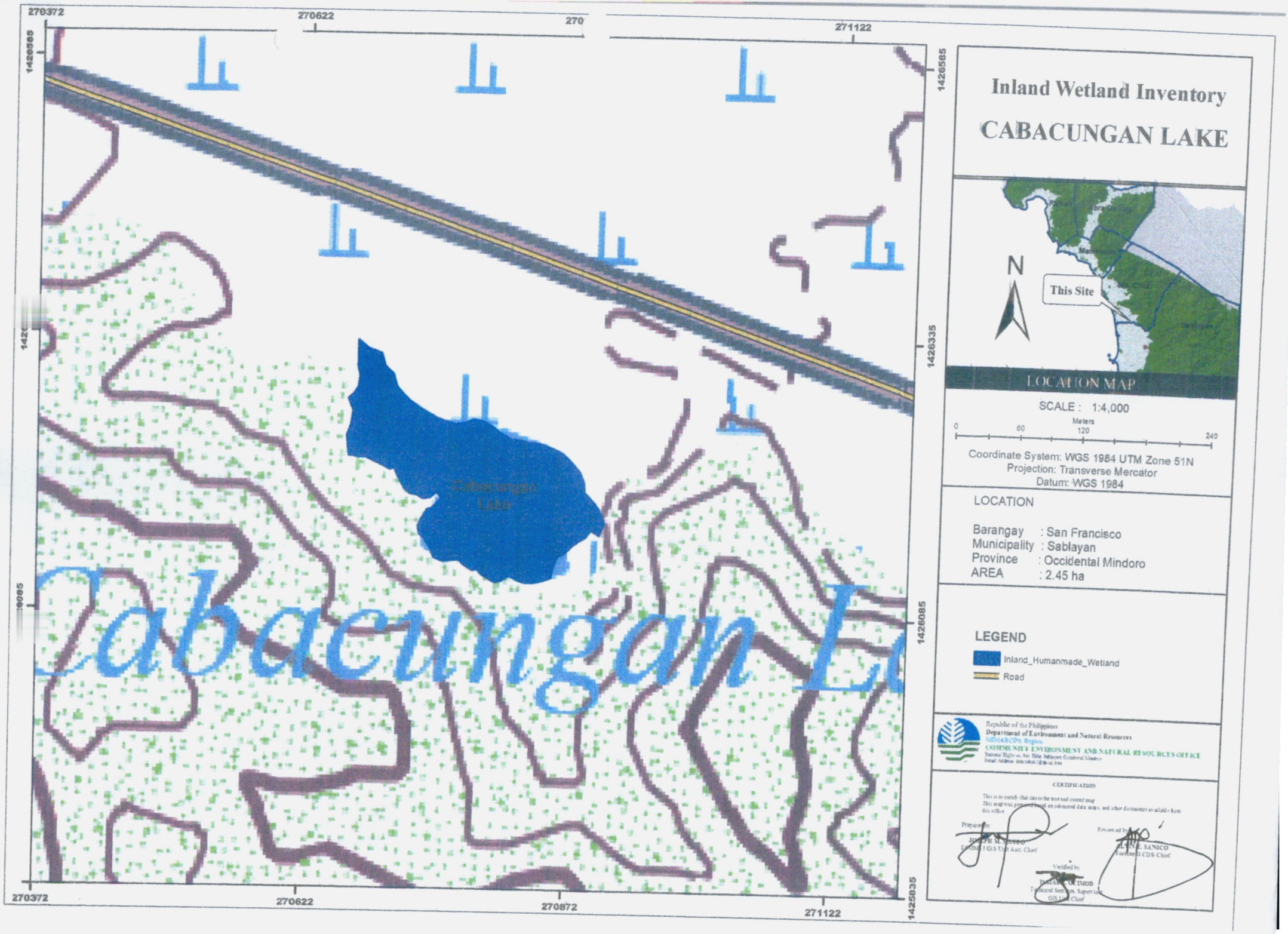

270372
270622
270
271122
1426585
1426335
1426085
1425835
Cabacungan Lake
Cabacungan Lake
Inland Wetland Inventory
CABACUNGAN LAKE
N
This Site
LOCATION MAP
SCALE : 1:4,000
Meters
0
60
120
240
Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984
LOCATION
Barangay : San Francisco
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 2.45 ha
LEGEND
Inland_Humanmade_Wetland
Road
Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
CERTIFICATION
Prepared by:
Reviewed by:
Verified by:

PHOTO DOCUMENTATION

Cabakungan Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Mara Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	> PLEASE SEE ATTACHED GEO TAGGED PHOTOS

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • (Tp) • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):* elongated

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Paetan	Brgy. San Agustin	Brgy. San Vicente	Brgy. Botong Bukog

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :			2 ha	3 ha
Area of water/wet area : *(river/creek not included)*			1.7 ha	2.79 m

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			350	400 meters
Width :			16	150 m
Depth :				

Elevation *(in meters above sea level)* : 30 m

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	SAN FRANCISCO	SABLAYAN	OCCIDENTAL MINDORO

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
SABLAYAN	SAN FRANCISCO			3,485	FARMING	
Total Population				3,485		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc)..:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

	Latitude	Longitude
Centroid :	120 52' 35.635	12° 53' 2.757" N
*Upstream :		
*Midstream :		
*Downstream :		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* CLIMATIC TYPE I

Climatic Type Description:

TWO PRONOUNCE SEASON, DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	19.3	5.2	2.4	2.4	103.5	185.3	354.6	290.3	444	605.2	155.5	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	352	34.0	33.3	32.9	31.9	31.9	33	33.4
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*

WIND SPEED : 2-4, WIND DIRECTION : 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Clay, loam
Wetland/aquatic area : Clay, loam

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*
irrigation up to 10 hectares of ricefield

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB Assessment conducted
Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*
Flooding frequency *(how often does flooding occur within a year?):* once a year depends if there is typhoon
Flooding seasonality *(in what month/s does flooding usually occur?):* depends if there is typhoon
Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day
Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Chlorine (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Color (TCU)	NO DATA	NO DATA	NO DATA	NO DATA
Dissolved Oxygen (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Fecal coliform (MPN/100mL)	NO DATA	NO DATA	NO DATA	NO DATA
Nitrate as NO_3-N (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
pH (range)	NO DATA	NO DATA	NO DATA	NO DATA
Phosphate (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Temperature (°C)	NO DATA	NO DATA	NO DATA	NO DATA
Total suspended solid (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Turbidity (NTU)	NO DATA	NO DATA	NO DATA	NO DATA
Salinity	NO DATA	NO DATA	NO DATA	NO DATA
Conductivity	NO DATA	NO DATA	NO DATA	NO DATA
Other: _____	NO DATA	NO DATA	NO DATA	NO DATA

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

____

____

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	saging, balete, bangkal, mahogany						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	water hyacinth						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	tagak							
Mammals	daga							
Herpetofauna	sawa, palaka							
Invertebrates	kuhol							
Others								
B. Aquatic	tilapia, dalag, hito, igat, carpa,							
Fish								
Mammals								
Herpetofauna								
Invertebrates								
Others	snakehead turtle, asian box turtle							

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
Provisioning Services	Fresh water	+		✓		
	Food	++		✓		
	Fuel	+		✓		
	Fibre	+	source of timber	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+		✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+		✓		
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	+		✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	0				
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* _____

_____

_____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* _____

_____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Raymond Mann	Owner Caretaker		09359248230	

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**
Overpopulation of water hyacinth, natural calamities

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

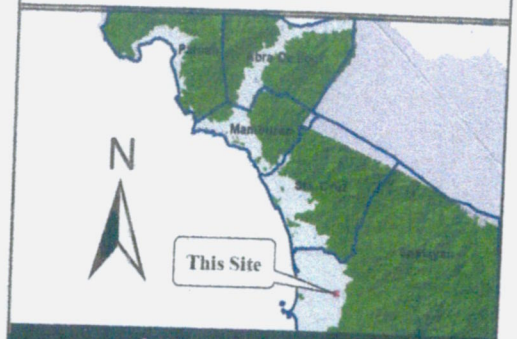
20. Proposed Classification *(which portions are relevant or critical for management for)*

Classification	Description	Relative location (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

Inland Wetland Inventory

MARA LAKE



LOCATION MAP

SCALE : 1:4,000

Meters
0 60 120 240

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : San_francisco
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 2.78 ha

LEGEND

Inland_Humanmade_Wetland
Road

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

CERTIFICATION

This is to certify that this is the true and correct map
This map was prepared based on submitted data, maps and other documents available from this office

Prepared by:

Verified by:

PHOTO DOCUMENTATION

Mara Lake

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): TAGBAK LAKE

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*
TAGBAK MARINE POND (LC 631)

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

High-resolution photograph	*Geotagged photograph*

2. **Wetland type** *(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •
U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape *(cross-section and plan view (i.e. circular, oval, elongated)):*

Administrative boundaries *(to the North, East, South and West etc.):*

North	East	West	South
Brgy. Tangal	Brgy. Tangal	Brgy. Tagbac	Brgy. Tangal

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :				
Area of water/wet area : *(river/creek not included)*			66.97	70.00

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			1,180	1,261 m
Width :			716	763 m
Depth :				

Elevation *(in meters above sea level)* : _____

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	Tagbac	Lubang	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Lubang	Tagbac			2550		
	Total Population			2550		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

_____

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

_____

_____

_____

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	13°50'27.360"N	120°5'50.969E
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: CLIMATIC TYPE I

Climatic Type Description:

TWO PRONOUNCED SEASON DRY FROM NOVEMBER TO APRIL, WET DURING THE REST OF THE YEAR.

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.5	444	605.2	155.5	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	20.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*

WIND SPEED - 2-4, WIND DIRECTION: 60, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

NATURAL

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*

Alfisol, Inceptisol

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Clayey

Wetland/aquatic area : Clayey

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☑ Surface source ☐ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

RIVER

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

RIVER

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*

N/A

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB assessment conducted

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*

Flooding frequency *(how often does flooding occur within a year?):* depends if there is typhoon

Flooding seasonality *(in what month/s does flooding usually occur?):* depends if there is typhoon

Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: NOT CLASSIFIED BY EMB

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Chlorine (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Color (TCU)	NO DATA	NO DATA	NO DATA	NO DATA
Dissolved Oxygen (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Fecal coliform (MPN/100mL)	NO DATA	NO DATA	NO DATA	NO DATA
Nitrate as NO_3-N (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
pH (range)	NO DATA	NO DATA	NO DATA	NO DATA
Phosphate (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Temperature (°C)	NO DATA	NO DATA	NO DATA	NO DATA
Total suspended solid (mg/L)	NO DATA	NO DATA	NO DATA	NO DATA
Turbidity (NTU)	NO DATA	NO DATA	NO DATA	NO DATA
Salinity	NO DATA	NO DATA	NO DATA	NO DATA
Conductivity	NO DATA	NO DATA	NO DATA	NO DATA
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

MANGROVE AND BEACH FOREST SPECIES

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	NIPA MANGROVE						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)							

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	Tagak							
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish	Bangus							
Mammals								
Herpetofauna	ahas,							
Invertebrates								
Others								

C. *WETLAND BENEFITS*

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
++	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
--	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	Describe benefit	Local	Regional	Global
Provisioning Services	Fresh water	0		/		
	Food	+		/		
	Fuel	0		/		
	Fibre	0		/		
	Genetic resources	0		/		
	Natural medicines or pharmaceuticals	0		/		
	Ornamental resources	0		/		
	Clay, mineral, aggregate harvesting	0		/		
	Waste disposal	0		/		
	Energy harvesting from natural air and water flows	0		/		
Regulatory Services	Air quality regulation	+		/		
	Local climate regulation	+		/		
	Global climate regulation	0		/		
	Water regulation	-		/		
	Flood hazard regulation	-		/		
	Storm hazard regulation	--		/		
	Pest regulation	0		/		
	Disease regulation - human	0		/		
	Disease regulation - livestock	0		/		
	Erosion regulation	0		/		
	Water purification	+		/		
	Pollination					
	Salinity regulation	0				

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	0				
	Noise and visual buffering	0				
Cultural Services	Cultural heritage	0				
	Recreation and tourism	0				
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	0				
	Educational and research	0				
Supporting Services	Soil formation	+				
	Primary production	++				
	Nutrient cycling	+				
	Water recycling	- -				
	Provision of habitat	+				
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* _____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* fishpond

Land use in the river basin : fishpond and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

- reclaiming / clearing, natural flow rehabilitation by structures

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

- may titled property and existing FLA's going on

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

- N/A

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email

Date Accomplished:

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

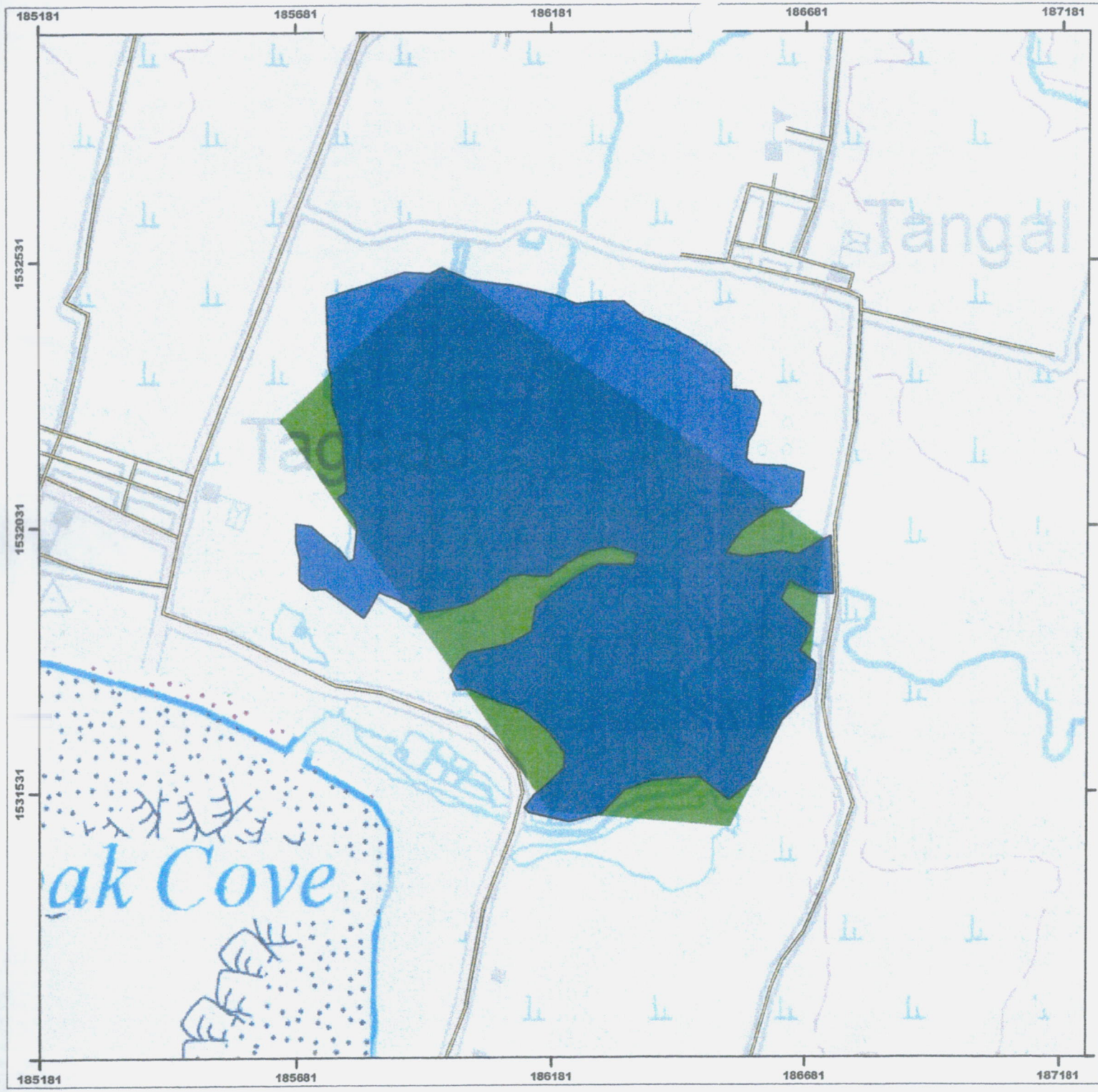
Area conversion

19. **Management Prescriptions/Proposed Management Interventions**:

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.



TAGBAC LAKE

N

LOCATION MAP

SCALE : 1:10,000

Meters

0 150 300 600

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Tagbac
Municipality : Lubang
Province : Occidental Mindoro
AREA : 66.98 ha

LEGEND

Inland_Humanmade_Wetland

LAND_CLASSIFICATION

STATUS_1

Alienable and Disposable

Forestland

Road

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Natural Highway, San Nicolas, Occidental Mindoro
Email Address: denrcenro2@gmail.com

CERTIFICATION

This is to certify that this is the true and correct map.
This map was prepared based on submitted data, maps and other documents available from this office.

Prepared by:
JOSEPH M. MENDOZA
ECOMB-I GIS Unit Asst. Chief

Reviewed by:
ARVIN E. SANICO
Forester II/CENRO Chief

Verified by:
ISRAEL [illegible] ROD
Technical Services Supervisor
GIS Unit Chief

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): Lalaguna Lake

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix I)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • Ⓡ • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):* Oval

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Bulacan	Brgy. Bulacan	Brgy. Bulacan	Brgy. Bulacan

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :				
Area of water/wet area : *(river/creek not included)*			16.82	17.33

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :			430	474
Width :			340	351
Depth :				

Elevation *(in meters above sea level)* :

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
	Bulacan	Looc	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Looc	Bulacan			587		
	Total Population			587		

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*
Catchment basin during rainy season

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	13°34'56.889"N	120°20'29.952"E
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: Climatic Type 1

Climatic Type Description:
Two pronounced season, Dry from November to April, wet during the rest of the year

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	14.3	5.2	2.4	2.4	103.5	185.3	354.6	290.5	444	605.2	1553	44.1	

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	20.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.8	26.8	26.4	26.9	27.3

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):*
Wind Speed - 2-4 Wind Direction : 6°, 60, 60, 70, 60, 70, 340, 10, 270, 210, 50, 50

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL , INCEPTISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : CLAYEY
Wetland/aquatic area : CLAYEY

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area : N/A

Wetland/aquatic area : N/A

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☑ Surface source ☐ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*
Shallow and deep wells

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* No ERDB Assessment conducted
Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):*
Flooding frequency *(how often does flooding occur within a year?):* depends if there is typhoon
Flooding seasonality *(in what month/s does flooding usually occur?):* depends on the weather condition
Flooding duration *(for how long does floodwater usually stay within each season?):* 1 day
Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
No data

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)	No data	No data	No data	No data
Chlorine (mg/L)	No data	No data	No data	No data
Color (TCU)	No data	No data	No data	No data
Dissolved Oxygen (mg/L)	No data	No data	No data	No data
Fecal coliform (MPN/100mL)	No data	No data	No data	No data
Nitrate as NO_3-N (mg/L)	No data	No data	No data	No data
pH (range)	No data	No data	No data	No data
Phosphate (mg/L)	No data	No data	No data	No data
Temperature (°C)	No data	No data	No data	No data
Total suspended solid (mg/L)	No data	No data	No data	No data
Turbidity (NTU)	No data	No data	No data	No data
Salinity	No data	No data	No data	No data
Conductivity	No data	No data	No data	No data
Other: _____	No data	No data	No data	No data

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : N/A
Year Data Collected : N/A
Sampling Frequency *(annual or monthly)* : N/A

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	mangrove						
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	sea grass						

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	K. lyaiwan, kingfisher							
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish	Dalak, sigarid, Bangus							
Mammals								
Herpetofauna								
Invertebrates	alimango, hipon							
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
++	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
--	Potential significant negative benefit
?	Gaps in evidence

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
Provisioning Services	Fresh water	+		✓		
	Food	++	fish source	✓		
	Fuel	+		✓		
	Fibre	+	timber for building	✓		
	Genetic resources	0				
	Natural medicines or pharmaceuticals	+	herbal medicines	✓		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		✓		
	Local climate regulation	+		✓		
	Global climate regulation	+		✓		
	Water regulation	+		✓		
	Flood hazard regulation	+		✓		
	Storm hazard regulation	+		✓		
	Pest regulation	+		✓		
	Disease regulation - human	0				
	Disease regulation - livestock	0				
	Erosion regulation	+		✓		
	Water purification	+		✓		
	Pollination	+		✓		
	Salinity regulation	0		✓		

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation	+		✓		
	Noise and visual buffering	+		✓		
Cultural Services	Cultural heritage	+		✓		
	Recreation and tourism	+		✓		
	Aesthetic value	0				
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+		✓		
	Educational and research	0				
Supporting Services	Soil formation	+		✓		
	Primary production	+		✓		
	Nutrient cycling	+		✓		
	Water recycling	+		✓		
	Provision of habitat	+		✓		
Notes:						

Remarks/Other Information *(on the importance of the particular wetland)*: _____

_____

_____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.)*: Agricultural

_____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*
Overfishing

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Zaldy Villerosa	MAO	LGU Looc		

Date Accomplished: April 22, 2022

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**
Natural calamities.

19. Management Prescriptions/Proposed Management Interventions:

_____

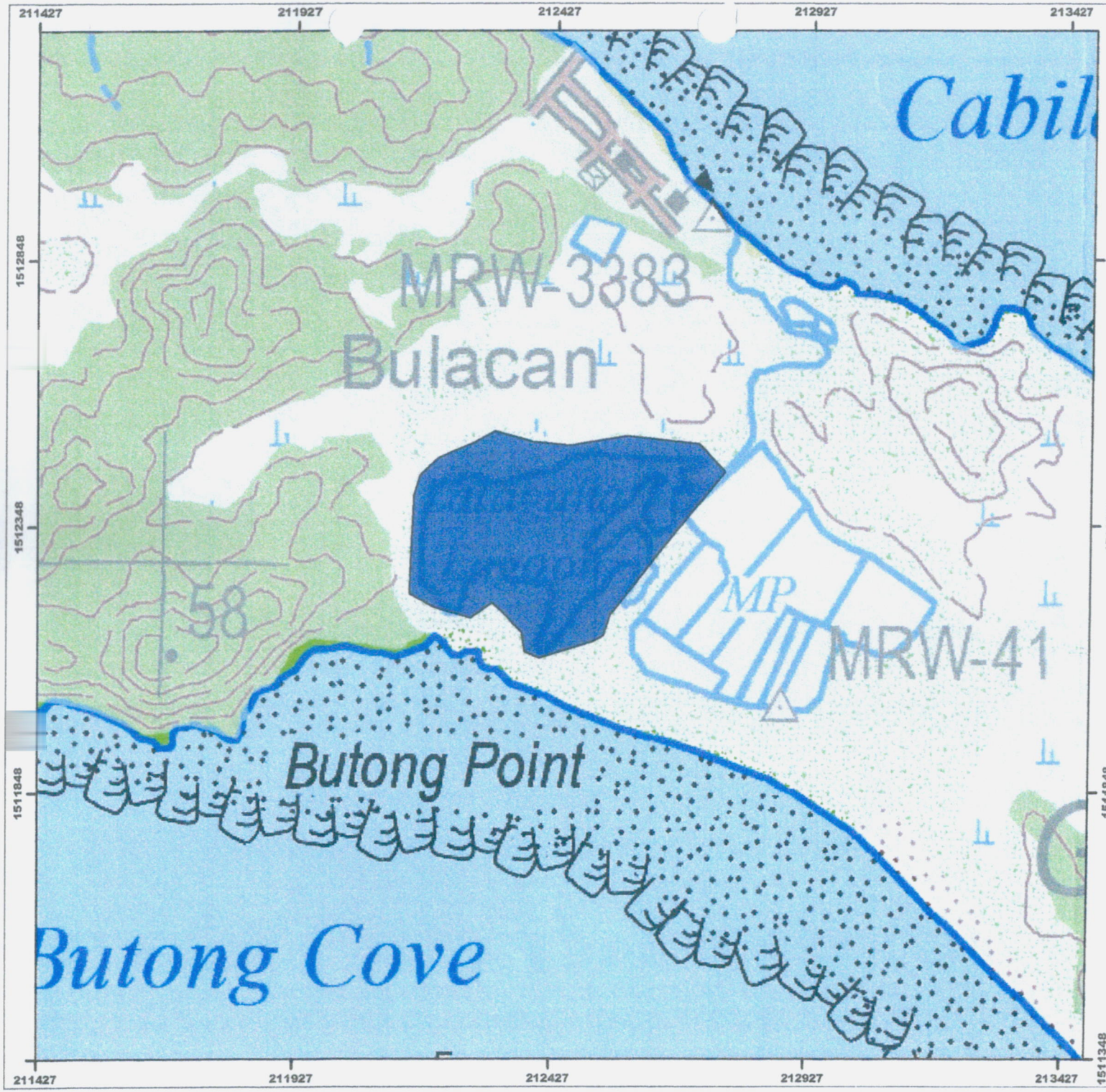
_____

_____

***20.* Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	Description	Relative location (Mention which part of the wetland where the service is provided)
☑ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.



LALAGUNA LAGOON

N

LOCATION MAP

SCALE : 1:10,000

Meters

0 150 300 600

Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Bulacan
Municipality : Looc
Province : Occidental Mindoro
AREA : 17.33 ha

LEGEND

Inland_Humanmade_Wetland

Road

LAND_CLASSIFICATION

STATUS_1

Alienable and Disposable

Forestland

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Natural Highway, Sto. Niño, Sablayan, Occidental Mindoro
Email Address: cenrosablayan@gmail.com

CERTIFICATION

That to us certify that thesis the true and correct map
This map was prepared based on submitted data, maps, and other documents available from this office

Prepared by:
JOSEPH M. MATEO
ECOMB GIS Unit Asst. Chief

Reviewed by:
ALVIN L. SANICO
Former ECOMB Chief

Verified by:
ISAIAH D. OMOD
Technical Services Supervisor
GIS Unit Head

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

July 29, 2022

HON. WALTER B. MARQUEZ
Municipal Mayor
Sablayan, Occidental Mindoro

ATTN: **MR. ROBERT P. DUQUIL**
MENR Officer

Dear Mayor Marquez,

Greetings of Peace!

This is in relation to our letter dated April 27, 2022 regarding our target activity on the inventory of all inland wetlands within our area of jurisdiction. The inland wetlands listed in the table below were initially identified in 2020 and they have been submitted to the Biodiversity Management Bureau (BMB) for inclusion in the Atlas Inland Wetlands in the Philippines.

Barangay	Name of Inland Wetland
Sta. Lucia	Halawhawan
	Sahing
Tuban	Tabtaban
Malisbong	Libuao
Batong-buhay	Marabong
San Agustin	Panikian
San Francisco	Within the titled property of Cesar Pascual
	Within the titled property of Cesar Pascual
	Within the titled property of Ruben Fabra
	Kabakungan
San Vicente	Malapaga

In this regard, we are respectfully requesting your good office to review the list above and inform of us any additional inland wetland that you have identified and wish to be included in the Atlas.

Thank you very much. More power and God bless.

MUNICIPALITY OF SABLAYAN
RECEIVED
OFFICE OF THE MAYOR
PROVINCE OF OCCIDENTAL MINDORO

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

July 29, 2022

HON. MARIA GLORIA MONTENEGRO-CONSTANTINO
Municipal Mayor
Abra de Ilog, Occidental Mindoro

RECORDED
Date: 7-29-22
By:

ATTN: **MR. EMERITO CRISTALINO**
MPD Coordinator/ MENR Officer

Dear Mayor Montenegro-Constantino,

Greetings of Peace!

This is in relation to our letter dated April 27, 2022 regarding our target activity on the inventory of all inland wetlands within our area of jurisdiction. The inland wetlands listed in the table below were initially identified in 2020 and they have been submitted to the Biodiversity Management Bureau (BMB) for inclusion in the Atlas Inland Wetlands in the Philippines.

Barangay	Name of Inland Wetland
Cabacao	Lanas ulohan
	Lanas

In this regard, we are respectfully requesting your good office to review the list above and inform of us any additional inland wetland that you have identified and wish to be included in the Atlas.

Thank you very much. More power and God bless.

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

RECEIVED:
August 16, 2022
MPDC

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

July 29, 2022

HON. ANGELINA TRIA
Municipal Mayor
Mamburao, Occidental Mindoro

7-29-22

OFFICE OF THE MUNICIPAL MAYOR
RECEIVED
DATE: 8-16-22
TIME:
BY:
MAMBURAO, OCC. MDO.

ATTN: **MS. SHELLA S. CABRERA**
MENR Officer

Dear Mayor Tria,

Greetings of Peace!

This is in relation to our letter dated April 27, 2022 regarding our target activity on the inventory of all inland wetlands within our area of jurisdiction. The inland wetlands listed in the table below were initially identified in 2020 and they have been submitted to the Biodiversity Management Bureau (BMB) for inclusion in the Atlas Inland Wetlands in the Philippines.

Barangay	Name of Inland Wetland
Balansay	Lanas
Tangkalan	Kuhulan

In this regard, we are respectfully requesting your good office to review the list above and inform of us any additional inland wetland that you have identified and wish to be included in the Atlas.

Thank you very much. More power and God bless.

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Republic of the Philippines
Province of Occidental Mindoro
MUNICIPALITY OF SANTA CRUZ

mayorernie.santacruz@gmail.com
(63) 961 802 1330
facebook.com/MayorErnie SantaCruz

OFFICE OF THE MUNICIPAL MAYOR

July 11, 2022

To : **ANASTACIO A. SANTOS, MPA**
CENRO
Department of Environment and Natural Resources
Sablayan, Occidental Mindoro

7-13-22

From : **Ernesto P. Torreliza,**
Municipal Mayor

Greetings.

This is relative to your letter dated July 5, 2022 received by this Office on July 7, 2022 regarding the final list of the inventoried inland wetlands submitted to BMB.

Please be informed that there are other prematurely identified inland wetland areas within this municipality as listed below:

ALACAAK
1. Bisay Falls
2. Pagbahan River
3. Alitungan River
4. Ramayan River

BARAHAN
1. Dulisan River
2. Pola River
3. Himamali River
4. Bato River

CASAGUE
1. Salagan River
2. Alyangan Falls

KURTINGANAN
1. Tilago Falls
2. Kapalangan

LUMANGBAYAN
1. Suksok Lake

PINAGTURILAN
1. Pintin River
2.. Usigan Lake
3. Camatis Lake
4. Amnay River
5. An-an River
6. Mendiola falls

POBLACION 1
1. Urabugan River

Please be informed that the above-cited additional list of inland wetland areas identified in this municipality is subjected for your confirmation and finalization based on your guidelines.

Thank you very much for your usual support.

SANTA CRUZ
tunay na malasakit

DENR

R4B CENRO Sablayan <cenrosablayan@denr.gov.ph>

List of Inland Wetlands

R4B CENRO Sablayan <cenrosablayan@denr.gov.ph>
To: Ohdee Tapales <ohdeetapales@yahoo.com>

Thu, Jul 7, 2022 at 2:14 PM

Ma'am/ Sir,

Good afternoon.

Kindly see attached file.

Thank you.

Letter to LGU Sta. Cruz_ List of Inland Wetlands.pdf
410K

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

July 5, 2022

HON. ERNESTO P. TORRELIZA
Municipal Mayor
Sta. Cruz, Occidental Mindoro

RECORDED
Date: 7-7-22
By:

ATTN: **MR. RODRITO TAPALES**
MPD Coordinator/ MENR Officer

Dear Mayor Torreliza,

Greetings of Peace!

This DENR CENRO Sablayan has a target activity on the inventory of all inland wetlands within our area of jurisdiction wherein a final list of which will be submitted to the Biodiversity Management Bureau (BMB) for the finalization of the Atlas of all the Inland Wetland in the Philippines.

In this connection, this office provides the list of Inland wetlands that are already inventoried submitted last 2020 to the BMB;

Barangay	Name of Inland Wetland
Pinagturilan	Palangan
	Carindan
	Laud
	Ambulan
Kurtinganan	Lanas Babae
	Lanas Lalaki
	Lanas Manggahan

Should there be Inland Wetlands within this municipality that is/ are not included on the table above, kindly communicate with us thru writing so as to be included for the purpose.

Thank you very much. More power and God bless.

Very truly yours,

ROR. ANASTACIO A. SANTOS, MPA
CENR Officer

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Gmail CDS Sa[illegible]an <cenrosablayan.cds@gmail.com>

Inland Wetland Information Sheet

1 message

CDS Sablayan <cenrosablayan.cds@gmail.com> Thu, May 5, 2022 at 4:20 PM
To: MARK LANCELOT Mendoza <marklancelotmendoza@gmail.com>

Sir,

Good afternoon.

Kindly see attached file.

Also, we have provided you with a copy of the BMB Technical Bulletin No. 2018-05 for your reference.

Thank you.

-ALVIN E. SANICO

--
Conservation and Development Section
DENR- CENRO Sablayan
National Rd., Brgy. Sto. Nino, Sablayan, Occidental Mindoro

2 attachments

Letter to Mayor and Wetland Information Sheet.PDF
3250K

BMB Technical Bulletin No. 2018-05.PDF
8600K

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

May 5, 2022

HON. MICHAEL L. ORAYANI
Municipal Mayor
Lubang, Occidental Mindoro

Attn: **MR. MARK LANCELOT MENDOZA**
MENR Officer

Dear Mayor Orayani,

Greetings of Peace!

This pertains to our target activity on the Inventory of Inland Wetlands by some of the DENR CENRO Sablayan personnel who have conducted initial data gathering and interview with the MENRO. Accordingly, they are not aware of inland wetland in the municipality, however upon verification based on LC Map No. 631 there is an Inland Wetland specifically within the vicinities of Brgy. Tangal and Tagbak.

In this connection, we are providing herewith a copy of the Wetland Information Sheet in which we would request you to provide us the necessary data/ information.

Your utmost consideration on this matter is very much appreciated. Thank you very much. More power and God bless.

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): _____

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

_____

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

	Geotagged photograph

2. **Wetland type** *(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape *(cross-section and plan view (i.e. circular, oval, elongated)):*

_____

Administrative boundaries *(to the North, East, South and West etc.):*

North	East	West	South

Area *(total size in hectares, seasonal max/ min, where relevant)*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :				
Area of water/wet area : *(river/creek not included)*				

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :				
Width :				
Depth :				

Elevation *(in meters above sea level)* : _____

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
	Total Population					

Source and Date of Information : _____

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

_____

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

_____

_____

_____

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:		
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* _____

Climatic Type Description:

_____

_____

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)													

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):* _____

_____

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils:**

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

_____

_____

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*

_____

_____

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area :_____

Wetland/aquatic area :_____

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area :_____

Wetland/aquatic area :_____

_____

_____

6. **Water regime:**

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☐ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

_____

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

_____

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*

_____

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* _____

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):* _____

Flooding frequency *(how often does flooding occur within a year?):* _____

Flooding seasonality *(in what month/s does flooding usually occur?):* _____

Flooding duration *(for how long does floodwater usually stay within each season?):* _____

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

_____

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)				
Chlorine (mg/L)				
Color (TCU)				
Dissolved Oxygen (mg/L)				
Fecal coliform (MPN/100mL)				
Nitrate as NO_3-N (mg/L)				
pH (range)				
Phosphate (mg/L)				
Temperature (°C)				
Total suspended solid (mg/L)				
Turbidity (NTU)				
Salinity				
Conductivity				
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : _____
Year Data Collected : _____
Sampling Frequency *(annual or monthly)* : _____

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)							
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)							

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna								
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish								
Mammals								
Herpetofauna								
Invertebrates								
Others								

C. WETLAND BENEFITS

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
++	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
--	Potential significant negative benefit
?	Gaps in evidence

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
Provisioning Services	Fresh water					
	Food					
	Fuel					
	Fibre					
	Genetic resources					
	Natural medicines or pharmaceuticals					
	Ornamental resources					
	Clay, mineral, aggregate harvesting					
	Waste disposal					
	Energy harvesting from natural air and water flows					
Regulatory Services	Air quality regulation					
	Local climate regulation					
	Global climate regulation					
	Water regulation					
	Flood hazard regulation					
	Storm hazard regulation					
	Pest regulation					
	Disease regulation - human					
	Disease regulation - livestock					
	Erosion regulation					
	Water purification					
	Pollination					
	Salinity regulation					

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
	Fire regulation					
	Noise and visual buffering					
Cultural Services	Cultural heritage					
	Recreation and tourism					
	Aesthetic value					
	Spiritual and religious value					
	Inspiration value					
	Social relations					
	Educational and research					
Supporting Services	Soil formation					
	Primary production					
	Nutrient cycling					
	Water recycling					
	Provision of habitat					
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* _____

_____

_____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* _____

_____

Land use in the river basin : _____ and/or

Land use in the coastal zone : _____

13. **Existing pressures/threats and trends** *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

16. **References** (Full citation)

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email

Date Accomplished: _____

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**

19. Management Prescriptions/Proposed Management Interventions:

_____

_____

_____

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

Republic Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

April 27, 2022

HON. ANGELINA TRIA
Municipal Mayor
Mamburao, Occidental Mindoro

RECORDED
Date: 4-27-22
By:

ATTN: **MS. SHELLA S. CABRERA**
MENR Officer

OFFICE OF THE MUNICIPAL MAYOR
RECEIVED
DATE: 5-06-22
TIME:
BY:
MAMBURAO, OCC. MINDORO

Dear Mayor Tria,

Greetings of Peace!

This DENR CENRO Sablayan has a target activity on the inventory of all inland wetlands within our area of jurisdiction wherein a final list of which will be submitted to the Biodiversity Management Bureau (BMB) for the finalization of the Atlas of all the Inland Wetland in the Philippines.

In this connection, this office provides the list of Inland wetlands that are already inventoried submitted last 2020 to the BMB;

Barangay	Name of Inland Wetland
Balansay	Lanas
Tangkalan	Kuhulan

Should there be Inland Wetlands within this municipality that is/ are not included on the table above, kindly communicate with us thru writing so as to be included for the purpose.

Thank you very much. More power and God bless.

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

April 27, 2022

HON. ANDRES D. DANGEROS
Municipal Mayor
Sablayan, Occidental Mindoro

RECORDED
Date: 4-27-22
By:

ATTN: **MR. ROBERT P. DUQUIL**
MENR Officer

Dear Mayor Dangeros,

Greetings of Peace!

This DENR CENRO Sablayan has a target activity on the inventory of all inland wetlands within our area of jurisdiction wherein a final list of which will be submitted to the Biodiversity Management Bureau (BMB) for the finalization of the Atlas of all the Inland Wetland in the Philippines.

In this connection, this office provides the list of Inland wetlands that are already inventoried submitted last 2020 to the BMB;

Barangay	Name of Inland Wetland
Sta. Lucia	Halawhawan
	Sahing
Tuban	Tabtaban
Malisbong	Libuao
Batong-buhay	Marabong
San Agustin	Panikian
San Francisco	Within the titled property of Cesar Pascual
	Within the titled property of Cesar Pascual
	Within the titled property of Ruben Fabra
	Kabakungan
	Within the titled property of Cesar Pascuals brother
San Vicente	Malapaga

Should there be Inland Wetlands within this municipality that is/ are not included on the table above, kindly communicate with us thru writing so as to be included for the purpose.

Thank you very much. More power and God bless.

Very truly yours,

FOR. ANASTACIO A. SANTOS, MPA
CENR Officer

OFFICE OF THE MUNICIPAL MAYOR
LGU-SABLAYAN, OCCIDENTAL MINDORO
RECEIVED
DATE: 05/02/22 #0004
BY: 2:06PM

National Road, Brgy.Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

CDS

JUL 25 2022

MEMORANDUM

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

THRU : The ARD for Technical Services

FROM : The OIC, PENR Officer

SUBJECT : **SUBMISSION OF ACCOMPLISHMENT REPORTS FOR CONSERVATION OF INLAND WETLANDS WITHIN THE ADMINISTRATIVE JURISDICTION OF PENRO OCCIDENTAL MINDORO**

Respectfully submitting is the accomplishment reports of Conservation of Inland Wetlands within the administrative jurisdiction of PENRO Occidental Mindoro. The said activity is a target per Work and Financial Plan FY 2022.

Attached are the reports with its annexes.

For your information and record.

ERNESTO E. TAÑADA

So. Pag-asa, Brgy. Payompon, Mamburao, Occidental Mindoro
Email: tsdoccmin04@gmail.com

Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Brgy. Labangan, San Jose, Occidental Mindoro
Tel. Number (043) 457- 0236 / (043) 742-6627
Email: cenrosanjose@denr.gov.ph

JUN 20 2022

MEMORANDUM

FOR : The Regional Executive Director
DENR - MIMAROPA Region
Roxas Blvd., Ermita, Manila

THRU : The OIC, PENR Officer
Mamburao, Occidental Mindoro

FROM : The CENR Officer

SUBJECT : **SUBMISSION OF LIST OF INVENTORIED AND MAPPED INLAND WETLANDS IN SAMARICA**

Respectfully submitted is the list of inventoried and mapped inland wetlands within the administrative jurisdiction of CENRO-San Jose.

Please be informed that this office has initially identified five (5) inland wetland areas in the Municipalities of San Jose, Magsaysay, Rizal and Calintaan (SAMARICA) for CY 2022, as follows:

NAME OF WETLAND AREA/ LOCATION	TYPE OF WETLAND	OBSERVATION/ REMARKS
1. Bukal Spring and Mangrove Area Brgy. Nicolas, Magsaysay, Occidental Mindoro Coordinates: UTM **51 P 275738 1389213**	River	Considered to be one of the tributaries to Tadlok River with mouth in Alibog Coast. It has a total land area of 21.49 hectares. Bukal Spring derived its name from the name of the community/ Sitio where the wetland is located, due to many springs present in the area. *Bukal* (or spring in English translation) spring is one of the eco-tourism spots in the Municipality of Magsaysay, providing income and revenue to adjacent community and BLGU of Nicolas. One of the springs in the area provides potable water to the

CDS
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DATE: 6-27 TIME:

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DATE: 6-24-22
TIME:

3-9

		community of Sitio Bukal. It was within the CADT of HAGURA of Mangyan Tribe
2. Minanga Cove Ambulong Island, San Jose, Occidental Mindoro Coordinates: UTM **51 P 283636 1349697**	Marine/Coastal	A marine subtidal aquatic bed with presence of seagrass beds and mangroves such as *Rhizopora* and *Avicenia spp.* It has a total land area of 61.89 hectares. The cove provides livelihood to the fisherfolks members of Sitio Minanga community.
3. Niyayos River and Mangrove Area So. Niyayos I, Brgy. Poblacion, Calintaan, Occidental Mindoro Coordinates: UTM **51 P 275764 1389264**	Marine/Coastal	Intertidal forested wetlands with mangrove species such as *Nypa* and *Rhizopora spp.* are thriving in the area. The total land area is 1.30 hectares. The area is the source of seafoods such as crabs and shrimps in the locality.
4. Marsumbol Wetland Area So. Marsumbol, Brgy. New Dagupan, Calintaan, Occidental Mindoro Coordinates: UTM **51 P 274850 1388234**	Marine/Coastal	An intertidal forested wetlands with mangrove species (*Rhizopora, Avicenia* and *Sonneratia spp)* thriving in the area. It has a total land area of 5.62 hectares. Source of food for the adjacent community and serves as nursery for fishes and other marine life.
5. Sto. Niño Wetland Area So. Candague, Brgy. Sto. Niño, Rizal, Occidental Mindoro Coordinates: UTM **51 P 287623 1380188**	Permanent Freshwater Marsh/ Pool	A freshwater marsh that serves as habitat and feeding area of wild ducks such as Philippine Ducks (*Anas luzonica*) and Wandering Whistling Ducks (*Dendrocygna arcuata*) and other waterbirds. It has an approximate land area of 4.15 hectares and within a titled property.

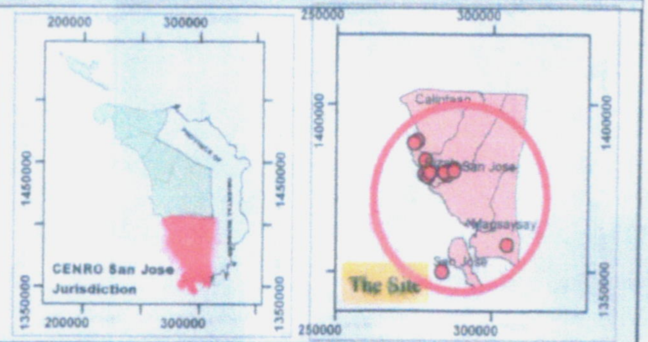
Also attached are the prescribed Inland Wetland Assessment Forms in accordance to BMB Technical Bulletin No. 2018-06, location maps of the above listed inland wetlands and a map showing the inland wetlands identified in 2020 together with the areas mapped this year.

For your information and record.

EFREN L. DELOS REYES

WETLAND SITE NAME	WETLAND TYPE/S	WATERBODY CLASSIFI-CATION	LOCATION / ADMINIS-TRATIVE COVERAG	NEAREST LARGE CITY/ MUNICIPALITY	CENTROID (LATITUDE AND LONGITUDE)	REMARKS
	Include component types of a wetland complex (e.g. lake, swamp, marsh, peatland, etc.)	*EMB - Water Body Classification and Usage of Freshwater (Class AA, A, B, C, D)*	*Mention the Purok, Sitio or at Least the Barangay or Municipal level, if possible*		*Provide the coordinates of the approximate center of the site and/or the limits of the site. Indicate the latitude/ longitude, in degrees and minutes; to be used for mapping* *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel*	*Mention whether assessed, date assessed, whether with management plan; whether with management body; conservation measures e.g. within Protected Area, within Key Biodiversity Area, within Major River Basin, established local conservation area, critical habitat, Asian Waterfowl Census site, Ramsar site, EAAFP site etc.*
Province: Occidental Mindoro						
1. Bukal Spring and Mangrove Area	River		Brgy. Nicolas	Magsaysay	**51 P 275738 1389213**	
2. Minanga Cove	Marine/ Coastal		Ambulong Island	San Jose	**51 P 283636 1349697**	
3. Niyayos River and Mangrove Area	Marine/ Coastal		Sitio Niyayos, Brgy. Poblacion	Calintaan	**51 P 275764 1389264**	
4. Marsumbol Wetland Area	Marine/ Coastal		Sitio Marsumbol, Brgy. New Dagupan	Calintaan	**51 P 274850 1388234**	
5. Sto. Niño Wetland Area	Permanent Freshwater Marsh/ Pool		Brgy. Sto. Niño	Rizal	**51 P 287623 1380188**	

Republic of the Philippines
Department of Environment and Natural Resources
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF IDENTIFIED AND MAPPED INLAND WETLANDS WITHIN JURISDICTION OF CENRO SAN JOSE, OCCIDENTAL MINDORO

N
W E
S

SCALE:1:180,000

0 2,250 4,500 9,000 13,500 18,000 Meters

Coordinates System............ GCS WGS 1984
Datum .... WGS 1984
Prime Meridian .... Greenwich
Angular Unit .... Degree

LEGEND

- Calintaan (2022)
- Rizal (2022)
- Magsaysay (2022)
- San Jose (2022)
- Rizal (2020)
- Barangay Boundary

Prepared by:

LUCELLE B. CASTICIMO
Forest Ranger/GIS Operator

Verified by:

JIMMY D. DUKUIN
Forester II/GIS Unit

ORLINO B. CACUAN
SEMS Chief/CDS

Reviewed by:

NILO ... SALVADOR
DAEO IV/Deputy CENRO

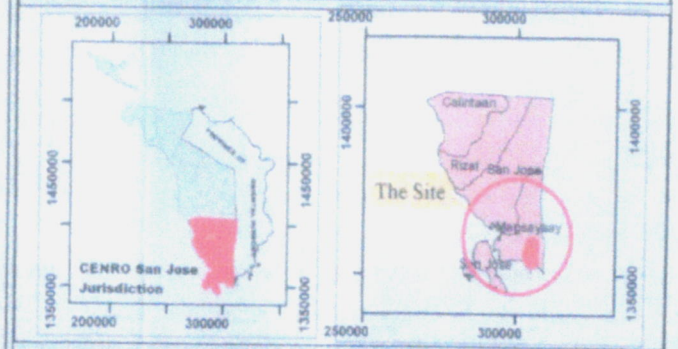
Attested by:

EFREN L. DELOS REYES
CENR Officer

NOTE:

1. All information in this Map is Strictly for Planning Use Only. No inference on Claims shall be made as to the extent of Political Boundary or Jurisdictional Boundaries

Republic of the Philippines
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF INLAND WETLANDS IN SO. TADLOK BARANGAY ALIBOG, MAGSAYSAY, OCCIDENTAL MINDORO

SCALE: 1:30,000

0 375 750 1,500 2,250 3,000 Meters

Coordinates System ..... GCS WGS 1984
Datum ..... WGS 1984
Prime Meridiam ..... Greenwich
Angular Unit ..... Degree

APPROXIMATE AREA: 21.49 ha.

LEGEND

- Geoatgged Photos
- Bukal Spring/Tadlok River
- Existing NGP Sites
- Municipal Boundary

Prepared by:
LUCERITO B. CASTICIMO
Forest Ranger II/GIS Operator

Verified by:
JIMMY [illegible]

Reviewed by:
NILO [illegible]

Attested by:
ORLINO B. [illegible]
EFREN [illegible] REYES
CENR Officer

NOTE:

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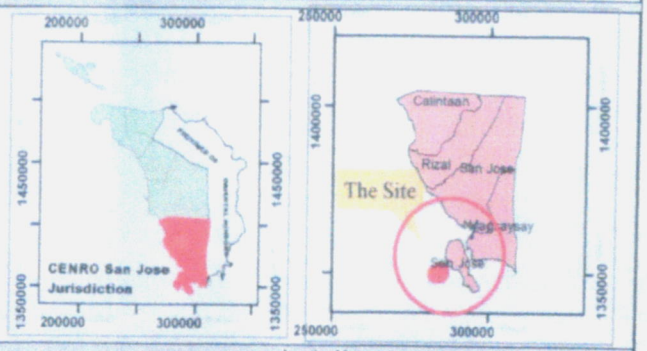
Republic of the Philippines
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF INLAND WETLANDS IN BARANGAY AMBULONG ISLAND, SAN JOSE, OCCIDENTAL MINDORO

SCALE:1:8,000

0 100 200 400 600 800 Meters

Coordinates System..... GCS WGS 1984
Datum WGS 1984
Prime Meridiem..... Greenwich
Angular Unit..... Degree

APPROXIMATE AREA: 61.89 ha.

LEGEND

- Minanga Cove
- Existing NGP Sites 2011-2021
- Municipal Boundary

Prepared by:

LUCILLE B. CASTICIMO
Forest Ranger/GIS Operator

Verified by:

JIMMY D. DEMAN
Forester II/Chief, GIS Unit

Reviewed by:

NILO M. SALVADOR
DAR IV Deputy CENRO

Attested by:

ORLINO B. MACUAN
[illegible]

EFREN L. DE LOS REYES
CENR Officer

NOTE:

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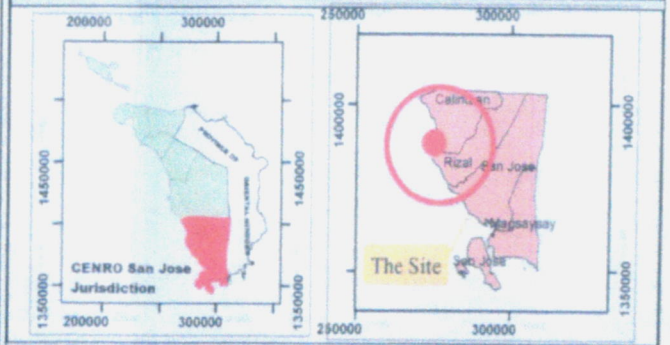
Republic of the Philippines
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF INLAND WETLANDS AT SO. MARSUMBOL, BARANGAY NEW DAGUPAN, CALINTAAN, OCCIDENTAL MINDORO

SCALE:1:4,000

0 50 100 200 300 400 Meters

Coordinates System: GCS WGS 1984
Datum: WGS 1984
Prime Meridian: Greenwich
Angular Unit: Degree

APPROXIMATE AREA: 12.75 ha.

LOCATED AT:

Municipality: Calintaan
Province: Occidental Mindoro

LEGEND

- Geotagged Photos
- Drone Shots
- Tracks
- Area
- Municipal Boundary

Prepared by:
LUCELLE B. CASTICIMO
Forest Ranger/GIS Operator

Verified by:
JIMMY D. DE RUIN
Supervising Chief Forestry Unit

Approved by:
NILO A. SALVADOR
DMO IV/Deputy CENRO

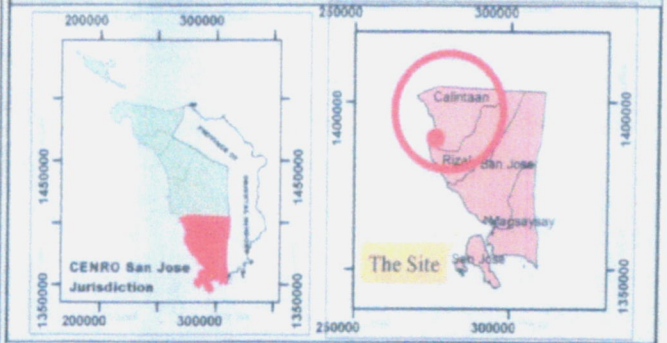
Attested by:
ORLINO B. CACUAN
SCUPS/OIC-CENR

EFREN L. DELOS REYES
CENR Officer

NOTE:

1. Conducted Assessment on September 24, 2021
2. All information in this Map is Strictly for Planning Use Only. No inference on Claims shall be made as to the extent of Political Boundary or Jurisdictional Boundaries

Republic of the Philippines
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF INLAND WETLANDS IN BARANGAY POBLACION, CALINTAAN, OCCIDENTAL MINDORO

SCALE: 1:3,000

0 35 70 140 210 280 Meters

Coordinates System ..... GCS WGS 1984
Datum ..... WGS 1984
Prime Meridiam ..... Greenwich
Angular Unit ..... Degree

APPROXIMATE AREA: 6.24 ha.

LEGEND

- Geotagged Photos
- Drone Shots
- Area
- Municipal Boundary

Prepared by:
LUCILLE B. CASTICUM
Forest Ranger/GIS Operator

Verified by:
JIMMY O. DUCUSIN
Forester II/Chief, CENRO

Recommending Approval:
NILO P. SALVADOR
DMO IV - Deputy CENRO

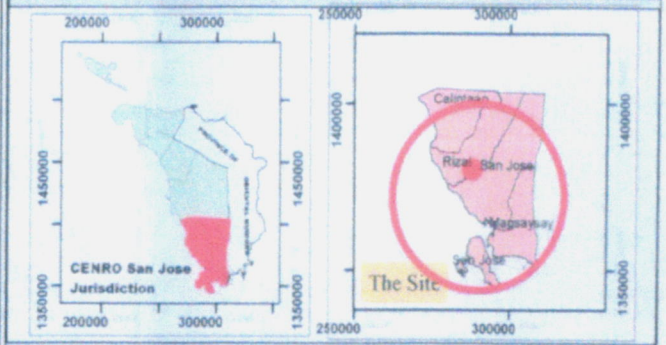
Attested by:
ORLINO B. CACUAN
PENR OIC/RED

EFREN L. DELOS REYES
CENR Officer

NOTE:

1. Conducted Assessment on September 24, 2021
2. All information in this Map is Strictly for Planning Use Only. No inference on Claims shall be made as to the extent of Political Boundary or Jurisdictional Boundaries

Republic of the Philippines
Region IV-MIMAROPA
Community Environment and Natural Resources Office
San Jose, Occidental Mindoro



Location Map

LOCATION MAP OF INLAND WETLAND IN BRGY. STO. NIÑO, RIZAL, OCCIDENTAL MINDORO

SCALE:1:5,000

0 62.5 125 250 375 500 Meters

Coordintaes System.....GCS WGS 1984
Datum.....WGS 1984
Prime Meridiam.....Greenwich
Angular Unit.....Degree

APPROXIMATE AREA: 4.15 ha.

LEGEND

- Geotagged Photo
- Inland Wetland
- Barangay Boundary

Prepared by:

LUCELLE B. CASTICIMO
Forest Ranger-GIS Operator

Verified by:

JIMMY D. DURUIN
Forester II/CENR-GIS Unit

ORLINO B. ACUAN
SENR Officer

NIÑO M. SALVADOR
PAMO IV/Deputy CENRO

EFREN L. DE LOS REYES
CENR Officer

NOTE:

1. All information in this map is solely for Planning Use Only. No inference on Claims shall be made as to the extent of Political Boundary or Jurisdictional Boundaries

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition 2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): **BUKAL SPRING AND MANGROVE AREA**

   Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*

   Bukal Spring

   Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

   Marine/coastal : A • B • C • D • E • F • G • H • (I) • (J) • K • Zk(a) •

   Inland : L • (M) • N • O • P • Q • R • Sp • Ss • Tp • Ts •

   U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

   Human-made : (1) • (2) • (3) • (4) • 5 • 6 • 7 • 8 • (9) • Zk(c) •

3. **Area, boundary and dimensions:**

   Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*

   Elongated

   Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Nicolas	Brgy. Alibog	Brgy. Calawag	Garza Island, Brgy. Alibog

   Area (*total size in hectares, seasonal max/ min, where relevant)*
   Total Area - 47.7 hectares

		Dry Season		Wet Season	
		Min	Max	Min	Max
Including watershed	:				
Area of water/wet area *(river/creek not included)*	:		*47.7 hectares*		

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

Length – 9.65 kms. (Spring to Tadlok River Mouth)

		Dry Season		Wet Season	
		Min	Max	Min	Max
Length	:				
Width	:				
Depth	:				

Elevation *(in meters above sea level)* : **12 masl**

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
Sitio Bukal	Nicolas	Magsaysay	Occidental Mindoro
	Calawag	Magsaysay	Occidental Mindoro
	Laste	Magsaysay	Occidental Mindoro
	Alibog	Magsaysay	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Magsaysay	Nicolas			3,384	Fishing	
					Farming	
Total Population				3,384		

Source and Date of Information :

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*

Tadlok River

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Approximately 9.6 kms for the spring to Tadlok River Mouth

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	**51 P 275738**	**1389213**
*Upstream	:	12°17'23.84"N	121°12'26.28"E
*Midstream	:	12°15'58.28"N	121°12'8.30"E
*Downstream	:	12°14'23.63"N	121°12'29.35"E

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

Map Coordinates: 51 P 275738 1389213

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* **I**

Climatic Type Description:

Two pronounced seasons, dry from November to April, and wet during the rest of the year. The maximum rain period is from June to September

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Ave. precipitation mm (inches)	30 (1.2)	26 (1.0)	39 (1.5)	58 (2.3)	192 (7.6)	283 (11.1)	341 (13.4)	323 (12.7)	317 (12.5)	231 (9.1)	119 (4.7)	56 (2.2)	2,015 (79.3)
Ave. rainy days	10.3	8.3	12.4	16.3	23.5	27.1	13.4	27.3	27.6	26.3	19.2	13.6	240.3
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	21 (70)	21 (70)	22 (72)	24 (75)	25 (77)	25 (77)	25 (77)	25 (77)	25 (77)	24 (75)	23 (73)	22 (72)
Maximum (°C)	30 (86)	31 (88)	32 (90)	32 (90)	31 (88)	30 (86)	29 (84)	29 (84)	29 (84)	29 (84)	30 (86)	30 (86)
Average (°C)												

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):* *7 – 16 kph*

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

The wetland developed through deposition of river deposits sediment on adjacent lands during floods.

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*

ALFISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Clayey

Wetland/aquatic area : Muddy

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area :

Wetland/aquatic area :

6. **Water regime**:

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☑ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

Bukal Spring , So. Bukal, Brgy. Nicolas, Magsaysay, Occidental Mindoro

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*
Pandurucan Bay, So. Tadlok, Brgy. Alibog, Magsaysay, Occidental Mindoro

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification,Appendix 4):*
N/A

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):*

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):* **9.226%**

Flooding frequency *(how often does flooding occur within a year?):*

Flooding seasonality *(in what month/s does flooding usually occur?):*

Flooding duration *(for how long does floodwater usually stay within each season?):*

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)				
Chlorine (mg/L)				
Color (TCU)				
Dissolved Oxygen (mg/L)				
Fecal coliform (MPN/100mL)				
Nitrate as NO_3-N (mg/L)				
pH (range)				
Phosphate (mg/L)				
Temperature (°C)				
Total suspended solid (mg/L)				
Turbidity (NTU)				
Salinity				
Conductivity				
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : _____
Year Data Collected : _____
Sampling Frequency *(annual or monthly)* : _____

9. Noteworthy flora/Plant communities:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

_____

_____

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Mangrove (Bakawang Lalaki,	Rhizophora	*mucronata and apiculata*	Abundant	Threatened	Shorelines	
	Nipa	Nypa	*fruticans*	Abundant	Threatened	Shorelines	
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)							

10. Noteworthy fauna/Animal communities:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribu-tion	Conser-vation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	Black-naped Oriole		O. chinensis		Abundant	LC		
Mammals	Monkey				Abundant	LC		
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish								
Mammals								
Herpetofauna								
Invertebrates	Crabs, Shrimp				Abundant			
Others								

C. *WETLAND BENEFITS*

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisio-ning Services	Fresh water	++	Potable water	/		
	Food	+	seafoods	/		
	Fuel	0				
	Fibre	0				
	Genetic resources	+	Nursery area for fishes			
	Natural medicines or pharmaceuticals	?				
	Ornamental resources	?				
	Clay, mineral, aggregate harvesting	?				
	Waste disposal	-		/	/	
	Energy harvesting from natural air and water flows	?				
Regula-tory Services	Air quality regulation	?				
	Local climate regulation	++		/	/	/
	Global climate regulation	+				
	Water regulation	+	The wetland regulates water discharge			
	Flood hazard regulation	++	Regulate and store flood water			
	Storm hazard regulation	+	Regulate storm surge			
	Pest regulation	?				
	Disease regulation - human	?				
	Disease regulation - livestock	?				
	Erosion regulation	+	Presence of dense vegetation			
	Water purification	+				
	Pollination	+				
	Salinity regulation	+				
	Fire regulation	+				
	Noise and visual buffering	+				

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Cultural Services	Cultural heritage	0		/		
	Recreation and	++		/	/	
	tourism					
	Aesthetic value	+		/	/	
	Spiritual and religious value	?				
	Inspiration value	?				
	Social relations	+	Development of agricultural areas	/	/	
	Educational and research	+		/		
Suppor-ting Services	Soil formation	+		/		
	Primary production	+		/	/	/
	Nutrient cycling	+		/	/	/
	Water recycling	++		/	/	/
	Provision of habitat	++		/	/	/
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):* _____

_____

_____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* The local land use consists of community settlements (IP and non-IP), with existing fishponds and agricultural areas.

Land use in the river basin : Settlements and port for boats bound to Brgy. Alibog, Magsaysay, Occidental Mindoro

Land use in the coastal zone : _____

13. Existing pressures/threats and trends *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

1. Poor visitor solid waste management by the visitors and by the members of the community that may produce pollution to the wetland and ocean;
2. The wetland and community is in the Southern Mindoro fault line, making the area vulnerable to landslide;
3. Continuous conversion of wetland into fishponds and salt farm that degrades the mangroves and quality of water and environment.

14. Conservation and management status of the wetland *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

NONE

15. Existing Management plans and monitoring programs: *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

NONE

16. References (Full citation)

- https://en.wikipedia.org/wiki/Magsaysay,_Occidental_Mindoro

17. Compiler/Contact/Focal person (including contact information: office address, telephone number; fax, email address, etc.)

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Date Accomplished: **March 11, 2022**

E. ASSESSMENT AND RECOMMENDATIONS

18. Potential Threats:

1. Conversion and expansion of fishponds and other agricultural activities adjacent to the wetlands;
2. Solid waste of adjacent communities being dragged to the wetland and eventually into the ocean;
3. Forest Land utilization such as kaingin and clearing that may cause erosion and siltation to the wetland.

19. Management Prescriptions/Proposed Management Interventions:

1. The wetland be included in the Municipal Ecotourism Management Plan to fully conserve and maximize its opportunity as eco-tourism site;
2. To declare the wetland as Locally-Managed Marine Protected Area to be fully protected, conserved and managed area for environment and natural resources without compromising the livelihood of the residents.

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition 2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): **MINANGA COVE**

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s) (e.g., reference number) provide it here:*
None

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • (B) • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*
Oval

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Mangarin Bay	Ilin Island	Shoreline	Semirara Island, South of Palawan

Area *(total size in hectares, seasonal max/ min, where relevant)*
61.89 Hectares

		Dry Season		Wet Season	
		Min	Max	Min	Max
Including watershed	:				
Area of water/wet area *(river/creek not included)*	:	61.89 Hectares			

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

		Dry Season		Wet Season	
		Min	Max	Min	Max
Length	:				
Width	:				
Depth	:				

Elevation *(in meters above sea level)* : **8 masl**

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
So. Minanga	Ambulong Island	San Jose	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
153,267	Ambulong- 2,224			2,224	Farming/ Fishing	Near Shoreline and mouth to
Total Population						

Source and Date of Information : PSA 2020

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):* N/A

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	**51 P 283636**	**1349697**
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* **I**

Climatic Type Description:

Two pronounced seasons, dry from November to April, and wet during the rest of the year. The maximum rain period is from June to September

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Ave. precipitation mm (inches)	8.4 (0.33)	11.7 (0.46)	11.1 (0.44)	26.8 (1.06)	170.5 (6.71)	377.7 (14.87)	457.5 (18.01)	475.6 (18.72)	406.7 (16.01)	252.0 (9.92)	106.5 (4.19)	55.9 (2.20)	2,360.2 (92.92)
Ave. rainy days	3	2	2	3	10	17	21	22	20	16	9	5	130
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (oC)	22.7 (72.9)	22.7 (72.9)	23.8 (74.8)	24.5 (76.1)	24.8 (76.6)	24.3 (75.7)	24.0 (75.2)	24.0 (75.2)	23.9 (75.0)	23.9 (75.0)	23.7 (74.7)	23.4 (74.1)
Maximum (oC)	35.5 (95.9)	36.2 (97.2)	37.6 (99.7)	38.5 (101.3)	38.5 (101.3)	38.0 (100.4)	37.4 (99.3)	35.0 (95.0)	35.4 (95.7)	36.0 (96.8)	38.0 (100.4)	36.0 (96.8)
Average (oC)	32.3 (90.1)	32.6 (90.7)	33.9 (93.0)	34.6 (94.3)	33.8 (92.8)	32.1 (89.8)	30.8 (87.4)	30.7 (87.3)	30.7 (87.3)	31.5 (88.7)	32.3 (90.1)	32.2 (90.0)

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (oC)												
Maximum (oC)												
Average (oC)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):* *5 – 12 kph*

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*
The wetland develop due to forces of nature with affect of rising sea levels and human activities by the adjacent community that alters drainage patterns.

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Sandy
Wetland/aquatic area : Sandy and muddy

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area :

Wetland/aquatic area :

6. **Water regime**: Marine subtidal

Water source *(check the source and write the name and/or location of inflow and outflow): N/A*

☐ Surface source ☐ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*
N/A

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Minanga Cove mouth

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification,Appendix 4):*

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):* **Low**

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):* **N/A**

Flooding frequency *(how often does flooding occur within a year?):* **N/A**

Flooding seasonality *(in what month/s does flooding usually occur?):* **N/A**

Flooding duration *(for how long does floodwater usually stay within each season?):* **N/A**

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*
N/A

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)				
Chlorine (mg/L)				
Color (TCU)				
Dissolved Oxygen (mg/L)				
Fecal coliform (MPN/100mL)				
Nitrate as NO_3-N (mg/L)				
pH (range)				
Phosphate (mg/L)				
Temperature (°C)				
Total suspended solid (mg/L)				
Turbidity (NTU)				
Salinity				
Conductivity				
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : _____
Year Data Collected : _____
Sampling Frequency *(annual or monthly)* : _____

9. **Noteworthy flora/Plant communities**:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Wetland areas were dominated by mangrove (Rhizopora) species and seagrass beds.

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Mangrove (Bakawang Lalaki, Babae)	Rhizophora	*Mucronata and Apiculata*	Abundant	Threatened	Shorelines	
	Pagatpat	Sonneratia	*Alba*	Abundant	Threatened	Shorelines	
	Api-api	Avicennia	*Alba*	Abundant	Threatened	Shorelines	
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	Seagrass species						

10. **Noteworthy fauna/Animal communities**:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna								
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish								
Mammals								
Herpetofauna								
Invertebrates								
Others								

C. *WETLAND BENEFITS*

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	?	No source of fresh water	/		
	Food	++	Source of seafoods	/	/	/
	Fuel	0				
	Fibre	0				
	Genetic resources	+	Mangroves/ seaweeds	/	/	/
	Natural medicines or pharmaceuticals	?		/		
	Ornamental resources	?/ 0				
	Clay, mineral, aggregate harvesting	? / 0		/		
	Waste disposal	0		/	/	/
	Energy harvesting from natural air and water flows	?		/		

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Regulatory Services	Air quality regulation	?				
	Local climate regulation	+		/	/	/
	Global climate regulation	+	Carbon Sequestration	/	/	/
	Water regulation	+	Regulate discharges	/	/	/
	Flood hazard regulation	+	Regulate and store flood water	/	/	/
	Storm hazard regulation	++	Absorbs energy from extreme events	/	/	/
	Pest regulation	0				
	Disease regulation - human	?				
	Disease regulation - livestock	0				
	Erosion regulation	+	Mangroves and plants protect from erosion	/	/	/
	Water purification	+				

	Pollination	+		/	/	/
	Salinity regulation	0				
	Fire regulation	+	Water restricts the spread of fire	/	/	/
	Noise and visual buffering	0				
				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Cultural Services	Cultural heritage	?				
	Recreation and tourism	+				
	Aesthetic value	+				
	Spiritual and religious value	?				
	Inspiration value	?				
	Social relations	+				
	Educational and research	?				
Supporting Services	Soil formation	+				
	Primary production	++				
	Nutrient cycling	+				
	Water recycling	++				
	Provision of habitat	++				
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):*

Serve as breeding and nursery ground for the species of fishes and other marine wildlife.

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* **The area is being used as settlements of Sitios Minanga and Bugtong Buri and as fishpond areas as well.**

Land use in the river basin : N/A and/or

Land use in the coastal zone : _____

13. Existing pressures/threats and trends *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

Expansion and conversion of the wetland into agricultural areas such as fishponds

14. **Conservation and management status of the wetland** *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

NONE

15. **Existing Management plans and monitoring programs:** *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

NONE

16. **References** (Full citation)

- https://en.wikipedia.org/wiki/San_Jose,_Occidental_Mindoro
- Comprehensive Land and Water Use Plan (CLWUP) Of The Municipality Of San Jose, Occidental Mindoro

17. **Compiler/Contact/Focal person** (including contact information: office address, telephone number; fax, email address, etc.)

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Date Accomplished: **March 17, 2022**

E. ASSESSMENT AND RECOMMENDATIONS

18. **Potential Threats:**
    1. Conversion and expansion of fishponds and other agricultural activities adjacent to the wetlands;
    2. Solid waste of adjacent communities being dragged to the wetland and eventually into the ocean;
    3. Forestland and utilization such as kaingin and clearing that may cause erosion and siltation to the wetland.

19. **Management Prescriptions/Proposed Management Interventions**:

1. The wetlands be included in the Municipal Ecotourism Management Plan to fully conserve and maximize its opportunity as eco-tourism site;
2. To declare the wetland and islands of Ilin and Ambulong as Protected Landscape and Seascape or Locally-Managed Protected Area to be fully protected, conserved and managed without compromising the livelihood of the residents/communities concerned.

20. **Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997.

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition 2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): **NIYAYOS RIVER AND MANGROVE AREA**

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*
NONE

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

2. **Wetland type** *(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • (B) • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •
U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape *(cross-section and plan view (i.e. circular, oval, elongated)):*
Elongated

Administrative boundaries *(to the North, East, South and West etc.):*

North	East	West	South

Area *(total size in hectares, seasonal max/ min, where relevant)*
6.24 Hectares

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :		**6.24 Hectares**		
Area of water/wet area : *(river/creek not included)*				

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :				
Width :				
Depth :				

Elevation *(in meters above sea level)* : **8 masl**

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
Niyayos	Poblacion	Calintaan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Calintaan	Poblacion			6,589	Fishing	
					Farming	
Total				6,589		

Source and Date of Information : **MPDO , 2020**

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*
Niyayos River Basin

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	12°12'13.17"N	121° 0'43.16"E
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification):* **I**

Climatic Type Description:

Two pronounced seasons, dry from November to April, and wet during the rest of the year. The maximum rain period is from June to September

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Ave. precipitation mm (inches)	8.4 (0.33)	11.7 (0.46)	11.1 (0.44)	26.8 (1.06)	170.5 (6.71)	377.7 (14.87)	457.5 (18.01)	475.6 (18.72)	406.7 (16.01)	252.0 (9.92)	106.5 (4.19)	55.9 (2.20)	2,360.2 (92.92)
Ave. rainy days	3	2	2	3	10	17	21	22	20	16	9	5	130
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (oC)	22.7 (72.9)	22.7 (72.9)	23.8 (74.8)	24.5 (76.1)	24.8 (76.6)	24.3 (75.7)	24.0 (75.2)	24.0 (75.2)	23.9 (75.0)	23.9 (75.0)	23.7 (74.7)	23.4 (74.1)
Maximum (oC)	35.5 (95.9)	36.2 (97.2)	37.6 (99.7)	38.5 (101.3)	38.5 (101.3)	38.0 (100.4)	37.4 (99.3)	35.0 (95.0)	35.4 (95.7)	36.0 (96.8)	38.0 (100.4)	36.0 (96.8)
Average (oC)	32.3 (90.1)	32.6 (90.7)	33.9 (93.0)	34.6 (94.3)	33.8 (92.8)	32.1 (89.8)	30.8 (87.4)	30.7 (87.3)	30.7 (87.3)	31.5 (88.7)	32.3 (90.1)	32.2 (90.0)

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (oC)												
Maximum (oC)												
Average (oC)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):* *5 – 12 kph*

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Sandy
Wetland/aquatic area : Sandy and muddy

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area :

Wetland/aquatic area :

6. **Water regime**: Marine subtidal

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☒ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):*

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):*

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB):* **1.5895% – 2.4183%**

Flooding frequency *(how often does flooding occur within a year?):*

Flooding seasonality *(in what month/s does flooding usually occur?):*

Flooding duration *(for how long does floodwater usually stay within each season?):*

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)				
Chlorine (mg/L)				
Color (TCU)				
Dissolved Oxygen (mg/L)				
Fecal coliform (MPN/100mL)				
Nitrate as NO_3-N (mg/L)				
pH (range)				
Phosphate (mg/L)				
Temperature (°C)				
Total suspended solid (mg/L)				
Turbidity (NTU)				
Salinity				
Conductivity				
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : _____
Year Data Collected : _____
Sampling Frequency *(annual or monthly)* : _____

9. **Noteworthy flora/Plant communities**:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Mostly are mangrove species on wetland parts and seagrass beds

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Mangrove (Bakawang Lalaki, Babae and Bato)	Rhizopora					
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	Seagrass species						

10. **Noteworthy fauna/Animal communities**:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	Zebra Dove	Geopelia	*G. striata*	Abundant	Abundant	Vulnerable		
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish				Abundant	Abundant			
Mammals								
Herpetofauna				Abundant	Abundant			
Invertebrates				Abundant	Abundant			
Others								

C. *WETLAND BENEFITS*

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	0		/		
	Food	+	Fish	/	/	
	Fuel	0	Timber	/		
	Fibre	0	Fuelwood	/		
	Genetic resources	?				
	Natural medicines or pharmaceuticals	+	Medicinal Herbs	/		
	Ornamental resources	?				
	Clay, mineral, aggregate harvesting	?				
	Waste disposal	-	Niyayos community	/	/	
	Energy harvesting from natural air and water flows	?				
				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Regulatory Services	Air quality regulation	0				
	Local climate regulation	+	Presence of vegetation	/	/	
	Global climate regulation	+	Carbon sequestration	/	/	
	Water regulation	+	Regulate water discharge	/	/	
	Flood hazard regulation	+	Regulate. Store and retain flood water	/	/	
	Storm hazard regulation	0				
	Pest regulation	+	Natural predation of pest	/	/	
	Disease regulation - human	?				
	Disease regulation - livestock	?				
	Erosion regulation	+	Presence of dense vegetation	/	/	
	Water purification	+	Deposition of silt and improve water quality	/	/	
	Pollination	+	Habitat to pollinators	/	/	
	Salinity regulation	++	Provide barrier to saline water	/	/	
	Fire regulation	+	Provide barrier to the spread of fire	/	/	
	Noise and visual buffering	+	Absorb and buffer the impact of noise	/	/	

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Cultural Services	Cultural heritage	0		/		
	Recreation and	0		/		
	tourism			/		
	Aesthetic value	0		/		
	Spiritual and religious value	0		/		
	Inspiration value	0		/		
	Social relations	+	Fishing community of Niyayos	/	/	
	Educational and research	0		/		
Supporting Services	Soil formation	0				
	Primary production	+	Plants & algae	/	/	
	Nutrient cycling	+	Presence of Fauna	/	/	
	Water recycling	+	Presence of wetland vegetation	/	/	
	Provision of habitat	++	Provide habitat to local species	/	/	
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):*

Serves as breeding and nursery ground for different species of fishes and other marine life.

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* **The local land use setting of the wetland was settlements of Sitio Niyayos, Poblacion, Calintaan**

Land use in the river basin : **Fishing and gathering of other seafoods,** and/or

Land use in the coastal zone : **Serve as parking space of boats during typhoons**

13. Existing pressures/threats and trends *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

1. Poor Visitor and Solid waste management by the members of the community that may produce pollution to the wetland and ocean;
2. Continuous conversion of wetland into agricultural areas that degrades the mangroves and quality of water and environment.

14. Conservation and management status of the wetland *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

NONE

15. Existing Management plans and monitoring programs: *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

NONE

16. References (Full citation)

- https://en.wikipedia.org/wiki/Calintaan,_Occidental_Mindoro

17. Compiler/Contact/Focal person (including contact information: office address, telephone number; fax, email address, etc.)

Name	Designat	Office	Contact	Email
MA. TERESITA P. DAVID JR.	ECOMS II	CENRO- SAN JOSE	0917-855-6396	cenrosanjose@denr.gov.ph
HEROLD S. CASTRO	FOREST TECH. II	CENRO – SAN JOSE	0906-721-3751	herold.s.castro@gmail.com

Date Accomplished: **June 2, 2022**

E. ASSESSMENT AND RECOMMENDATIONS

18. Potential Threats:

1. Solid waste of adjacent communities being dragged to the wetland and eventually into the ocean;
2. Forest Land utilization such as kaingin and clearing that may cause erosion and siltation to the wetland.

19. Management Prescriptions/Proposed Management Interventions:

1. The wetland be included in the Municipal Ecotourism Management Plan to fully conserve and maximize its opportunity as eco-tourism site;
2. To declare the wetland as Locally-Managed Marine Protected Area to be fully protected, conserved and managed area for environment and natural resources without compromising the livelihood of the residents.

***20.* Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition 2010. Handbook 13: Inventory, assessment, and monitoring.)

A. GEOGRAPHICAL INFORMATION

1. **Site name** (*official name of site*): **MARSUMBOL WETLAND AREA**

Other names (*If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:*
NONE

Photograph. (*Provide at least one high-resolution and one geotagged photograph of wetland*).

2. **Wetland type** (*Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)*

Marine/coastal : A • (B) • C • D • E • F • G • H • I • J • K • Zk(a) •

Inland : L • M • N • O • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. **Area, boundary and dimensions:**

Site shape (*cross-section and plan view (i.e. circular, oval, elongated)):*
Elongated

Administrative boundaries (*to the North, East, South and West etc.):*

North	East	West	South
Brgy. Poblacion	Brgy. New Dagupan	Calintaan Municipal Waters	Brgy. Malawaan, Rizal

Area (*total size in hectares, seasonal max/ min, where relevant*)
12.75 Hectares

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :		**12.75 Hectares**		
Area of water/wet area : *(river/creek not included)*				

Length, width, depth *(in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):*

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :				
Width :				
Depth :				

Elevation *(in meters above sea level)* : **8 masl**

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
Marsumbol	New Dagupan	Calintaan	Occidental Mindoro

Demographic Information: *(Socioeconomic characteristics of communities within the administrative location mentioned above)*

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area *(i.e. near shoreline, landlocked)*
		Male	Female	Total		
Calintaan	New Dagupan			5,402	Fishing	
					Farming	
Total				5,402		

Source and Date of Information : **MPDO, 2020**

River Basin/Watershed Name *(name of river basin/watershed where the wetland is located):*
Marsumbol River Basin

Geomorphic setting *(Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:*

Map Centroid (mid-point) *(Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):*

		Latitude	Longitude
Centroid	:	**51 P 275068**	**1388241**
*Upstream	:		
*Midstream	:		
*Downstream	:		

Mapping details *(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)*

---

4. **Climate**: *(Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)*

Climate Type *(Based on PAGASA Classification)*: **I**

Climatic Type Description:

Two pronounced seasons, dry from November to April, and wet during the rest of the year. The maximum rain period is from June to September

Precipitation/Rainfall *(in millimeter (mm), average per month; total amount per year; maximum and minimum level):*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Ave. precipitation mm (inches)	8.4 (0.33)	11.7 (0.46)	11.1 (0.44)	26.8 (1.06)	170.5 (6.71)	377.7 (14.87)	457.5 (18.01)	475.6 (18.72)	406.7 (16.01)	252.0 (9.92)	106.5 (4.19)	55.9 (2.20)	2,360.2 (92.92)
Ave. rainy days	3	2	2	3	10	17	21	22	20	16	9	5	130
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year

Temperature *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	22.7 (72.9)	22.7 (72.9)	23.8 (74.8)	24.5 (76.1)	24.8 (76.6)	24.3 (75.7)	24.0 (75.2)	24.0 (75.2)	23.9 (75.0)	23.9 (75.0)	23.7 (74.7)	23.4 (74.1)
Maximum (°C)	35.5 (95.9)	36.2 (97.2)	37.6 (99.7)	38.5 (101.3)	38.5 (101.3)	38.0 (100.4)	37.4 (99.3)	35.0 (95.0)	35.4 (95.7)	36.0 (96.8)	38.0 (100.4)	36.0 (96.8)
Average (°C)	32.3 (90.1)	32.6 (90.7)	33.9 (93.0)	34.6 (94.3)	33.8 (92.8)	32.1 (89.8)	30.8 (87.4)	30.7 (87.3)	30.7 (87.3)	31.5 (88.7)	32.3 (90.1)	32.2 (90.0)

Heat Index *(in Degree Celsius °C, average per month; maximum and minimum level):*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)												
Maximum (°C)												
Average (°C)												

Wind *(in kilometer per hour (KPH), major features such as prevailing wind direction, velocity)*: *5 – 12 kph*

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. **Soils**:

Geology *(How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):*

Type/order of soils *(Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):*
ALFISOL

Type of substrates *(sandy, muddy, clayey, gravel etc.):*

Terrestrial/riparian area : Sandy
Wetland/aquatic area : Sandy and muddy

Soil biology *(presence of small organisms, organic debris, organic matter etc.):*

Terrestrial/riparian area :

Wetland/aquatic area :

6. **Water regime**: Marine subtidal

Water source *(check the source and write the name and/or location of inflow and outflow):*

☐ Surface source ☒ Ground water source

Inflow/s *(Name and/or location of wetland/s which flows into the site; show in map, if possible):*

Outflow/s *(Name and/or location of wetland/s which flows out of the site; show in map, if possible):*

Ground water classification *(for ground water source, indicate the NWRB Groundwater Classification,Appendix 4):*

7. **Flooding:**

Flooding vulnerability *(flooding vulnerability based on ERDB assessment):*

Flooding susceptibility *(rain-induced flooding susceptibility based on MGB)*: **1.5895% – 2.4183%**

Flooding frequency *(how often does flooding occur within a year?)*: **1**

Flooding seasonality *(in what month/s does flooding usually occur?)*: **AUGUST**

Flooding duration *(for how long does floodwater usually stay within each season?)*: **N/A**

Magnitude of flow and/or tidal regime *(what is the maximum water level of the flood and how fast does it flows out?):*

8. **Water quality** *(information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):*

Waterbody Classification *(Based on DENR- EMB Classification)*: _____

Parameter	Standard[1]	Minimum[2]	Maximum[3]	Average[4]
Biochemical Oxygen Demand (mg/L)				
Chlorine (mg/L)				
Color (TCU)				
Dissolved Oxygen (mg/L)				
Fecal coliform (MPN/100mL)				
Nitrate as NO_3-N (mg/L)				
pH (range)				
Phosphate (mg/L)				
Temperature (°C)				
Total suspended solid (mg/L)				
Turbidity (NTU)				
Salinity				
Conductivity				
Other: _____				

[1] *Based on DENR- DAO 2016-08 Classification*
[2] *Lowest value collected in a year*
[3] *Highest value collected in a year*
[4] *Average value collected in a year*

Source *(who conducted the monitoring?)* : _____
Year Data Collected : _____
Sampling Frequency *(annual or monthly)* : _____

9. **Noteworthy flora/Plant communities**:

Vegetation structure *(Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):*

Mostly are mangrove species on wetland parts and seagrass beds

Vegetation zones *(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary):*

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Pagatpat	Sonneratia	*S. alba*	Abundant	Threatened		
	Api-api	Avicennia	*A. alba*	Abundant	Threatened		
	Saging -saging	Aegiceras	*A. corniculatum*	Few	Threatened		Rare
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	Nipa ()	Nypa	*Nypa fruticans*	Abundant	Threatened		
	Mangrove (Bakawang Lalaki and Babae)	Rhizopora	*Apiculata/ mocrunata*	Abundant	Threatened		

10. **Noteworthy fauna/Animal communities**:

Main species present *(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):*

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status	Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
A. Terrestrial/ Riparian								
Avifauna	Zebra Dove	Geopelia	*G. striata*	Abundant	Abundant	Vulnerable		
Mammals								
Herpetofauna								
Invertebrates								
Others								
B. Aquatic								
Fish				Abundant	Abundant			
Mammals								
Herpetofauna				Abundant	Abundant			
Invertebrates				Abundant	Abundant			
Others								

C. *WETLAND BENEFITS*

11. Ecosystem services: *(Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)*

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key	How important?
+ +	Potential significant positive benefit
+	Potential positive benefit
0	Negligible benefit
-	Potential negative benefit
- -	Potential significant negative benefit
?	Gaps in evidence

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Provisioning Services	Fresh water	0		/		
	Food	+	Fish	/	/	
	Fuel	0	Timber	/		
	Fibre	0	Fuelwood	/		
	Genetic resources	?				
	Natural medicines or pharmaceuticals	+	Medicinal Herbs	/		
	Ornamental resources	?				
	Clay, mineral, aggregate harvesting	?				
	Waste disposal	-	Marsumbol community	/	/	
	Energy harvesting from natural air and water flows	?				
				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Regulatory Services	Air quality regulation	0				
	Local climate regulation	+	Presence of vegetation	/	/	
	Global climate regulation	+	Carbon sequestration	/	/	
	Water regulation	+	Regulate water discharge	/	/	
	Flood hazard regulation	+	Regulate. Store and retain flood water	/	/	
	Storm hazard regulation	0				
	Pest regulation	+	Natural predation of pest	/	/	
	Disease regulation - human	?				
	Disease regulation - livestock	?				
	Erosion regulation	+	Presence of dense vegetation	/	/	
	Water purification	+	Deposition of silt and improve water quality	/	/	
	Pollination	+	Habitat to pollinators	/	/	
	Salinity regulation	++	Provide barrier to saline water	/	/	
	Fire regulation	+	Provide barrier to the spread of fire	/	/	
	Noise and visual buffering	+	Absorb and buffer the impact of noise	/	/	

				Scale of benefit		
		How important?	**Describe benefit**	**Local**	**Regional**	**Global**
Cultural Services	Cultural heritage	0		/		
	Recreation and	0		/		
	tourism			/		
	Aesthetic value	0		/		
	Spiritual and religious value	0		/		
	Inspiration value	0		/		
	Social relations	+	Fishing community of Niyayos and Marsumbol	/	/	
	Educational and research	0		/		
Supporting Services	Soil formation	0				
	Primary production	+	Plants & algae	/	/	
	Nutrient cycling	+	Presence of Fauna	/	/	
	Water recycling	+	Presence of wetland vegetation	/	/	
	Provision of habitat	++	Provide habitat to local species	/	/	
Notes:						

Remarks/Other Information *(on the importance of the particular wetland):*

Serves as breeding and nursery ground for different species of fishes and other marinelife.

D. MANAGEMENT INFORMATION

12. Land use:

Local land use *(including adjacent settlements, agricultural areas, industries etc.):* **The local land use setting of the wetland is agriculture, developed by residents of Sitio Marsumbol, Brgy.New Dagupan, Calintaan.**

Land use in the river basin : **Fishing and gathering of other seafoods,** and/or

Land use in the coastal zone : **Settlements**

13. Existing pressures/threats and trends *(concerning any of the features listed above, and/or concerning ecosystem integrity):*

1. Poor Visitor and Solid waste management by the members of the community that may produce pollution to the wetland and ocean;
2. Continuous conversion of wetland into agricultural areas that degrades the mangroves and quality of

14. Conservation and management status of the wetland *(List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):*

NONE

15. Existing Management plans and monitoring programs: *(Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)*

NONE

16. References (Full citation)

- https://en.wikipedia.org/wiki/Calintaan,_Occidental_Mindoro

17. Compiler/Contact/Focal person (including contact information: office address, telephone number; fax, email address, etc.)

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E. ASSESSMENT AND RECOMMENDATIONS

18. Potential Threats:

1. Solid waste of adjacent communities being dragged to the wetland and eventually into the ocean;
2. Forest Land utilization such as kaingin and clearing that may cause erosion and siltation to the wetland.

19. Management Prescriptions/Proposed Management Interventions:

1. The wetland be included in the Municipal Ecotourism Management Plan to fully conserve and maximize its opportunity as eco-tourism site;
2. To enhance the management and as Locally-Managed Marine Protected Area to be fully protected, conserved and managed area for environment and natural resources without compromising the livelihood of the residents.

***20.* Proposed Classification** *(which portions are relevant or critical for management for)*

Classification	**Description**	**Relative location** (Mention which part of the wetland where the service is provided)
☐ Food production		
☐ Water regulation		
☐ Disaster mitigation		
☐ Biodiversity importance*		

* Based on criteria mentioned in DMC 17 series of 1997