

	Environmental Management Bureau
	Regional Environmental Laboratory Region VIII
	Brgy. Baras, Palo, Leyte
Certificate of Analysis	

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-AMBIENT SECTION

Name/Source:	Ormoc bay WQMA		
Address/Location:	Ormoc City, Merida & Albuera Leyte		
Sampled by:	S Panis		
Date Arrived:	Feb 16, 2022 @ 4:45 PM	Date Acknowledged:	Feb 16, 2022 @ 4:50 PM
Date Reported:	Feb 21, 2022 @ 3:09 PM		

Chain of custody no.	Lab sample	Time of Collection	Sample type	Sample Information
2022-044	2208-139	Feb 16, 2022 @ 2:42 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Anilao Up"
	2208-140	Feb 16, 2022 @ 2:05 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Anilao Down"
	2208-141	Feb 16, 2022 @ 1:50 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Malbasag Up"
	2208-142	Feb 16, 2022 @ 1:37 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Malbasag Down"
	2208-143	Feb 16, 2022 @ 12:33 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Panilahan River"
	2208-144	Feb 16, 2022 @ 11:12 AM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Pagsangahan River"
	2208-145	Feb 16, 2022 @ 1:35 PM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Albuera River"
	2208-146	Feb 16, 2022 @ 10:46 AM	river water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Merida River"
	2208-149	Feb 16, 2022 @ 12:52 PM	Sea water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Albuera Coastal"
	2208-150	Feb 16, 2022 @ 11:50 AM	Sea water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Don Felipe"
	2208-151	Feb 16, 2022 @ 10:31 AM	Sea water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "Merida Coastal"
	2208-152	Feb 16, 2022 @ 12:22 PM	Sea water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "SALS"
	2208-153	Feb 16, 2022 @ 11:35 AM	Sea water	water sample placed in 250-mL acid-washed glass and 1000-mL PET bottle labeled "YMCA"

Environmental conditions during analysis:

Relative humidity: 47.6%

Temperature: 22.0°C

CHARACTERISTICS:

Parameters	Date Analyzed	Lab sample no.						
		139	140	141	142	143	144	145
BOD, mg/L	16-Feb	0.7	2.5	0.9	7.6	1.6	1.6	1.3
TSS, mg/L	18-Feb	ND	71	ND	11	397	50	6
True color, TCU	17-Feb	5	5	5	5	5	10	5
NO ₃ ⁻ as N, mg/L	17-Feb	0.11	ND	0.01	0.03	0.03	0.02	ND
PO ₄ ³⁻ as P, mg/L	17-Feb	0.00	0.020	0.000	0.092	0.212	0.013	0.017
Cl ⁻ , mg/L	17-Feb	2.57	44.10	2.46	6.10	13.38	7.87	4.79

	Date Analyzed	146	149	150	151	152	153
BOD, mg/L	16-Feb	1.6	-	-	-	-	-
TSS, mg/L	18-Feb	29	26	34	40	27	61
True color, TCU	17-Feb	5	5	5	5	5	5
NO ₃ ⁻ as N, mg/L	17-Feb	0.05	0.35	ND	ND	ND	0.4600
PO ₄ ³⁻ as P, mg/L	17-Feb	0.000	0.000	0.000	0.000	0.000	0.000
Cl ⁻ , mg/L	17-Feb	15.24	-	-	-	-	-


Method used: BOD - 5-Day BOD Test
TSS - Gravimetric Method, dried @ 103-105 °C
True color - Visual comparison method
Nitrate (NO₃⁻) and Chloride (Cl⁻) - Ion chromatography with Chemical Suppression of Eluent Conductivity
Phosphate (PO₄³⁻) Ascorbic acid method

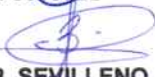
Method detection limit (MDL):

BOD 0.1 mg/L
TSS 2.3 mg/L
True color 5 TCU
NO₃⁻ as N, mg 0.0156 mg/L
Cl⁻, mg/L 0.089 mg/L

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, AHA, AWWA, WEF

Remarks 1. This certificate of analysis is based on the sample as received by this office.
2. This certificate of analysis shall not be reproduced in full, without written approval from issuing laboratory.
3. ND : "not detected", < MDL

Analyzed by:

SHEREY MAE U. BALAGAO, RCh
Laboratory analyst, Chemistry
Reg. No. 0013722

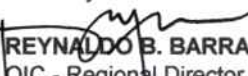

ARIEL B. SEVILLENO, RChT
Laboratory analyst, Chemistry
Reg. No. 0003055

Approved by:

MANUEL J. SACEDA JR.
OIC - Chief EMED

Certified by:

APRILYN R. DANAS, RCh
Laboratory manager
Reg. No. 0011659

Noted by:

REYNALDO B. BARRA
OIC - Regional Director

Laboratory Unit
Email: embr8lab@yahoo.com

cc Laboratory
Sampler
Records Unit

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
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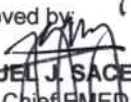
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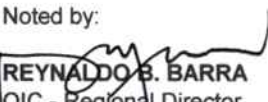
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