

	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:	Binahaan and Canturing rivers (Priority rivers)		
Address/Location:	Maasin, Dagami, and Pastrana		
Sampled by:	M. Sudaria		
Date Arrived:	Jan 19, 2022 @ 3:35 PM	Date Acknowledged:	Jan 19, 2022 @ 3:36 PM
Date Analyzed:	Jan 24, 2022 @ 7:32 AM		

Chain of custody no.	Lab sample no.	Time of Collection	Sample type	Sample Information
2022-011	2208-022	Jan 19, 2022 @ 3:20 PM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 1"
	2208-023	Jan 19, 2022 @ 3:00 PM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 2"
	2208-024	Jan 19, 2022 @ 2:40 PM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 3"
	2208-025	Jan 19, 2022 @ 2:26 PM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Binahaan 4"
	2208-026	Jan 19, 2022 @ 10:30 AM	river water	water sample placed in 300-mL acid-washed glass and 500-mL PET bottle labeled "Canturing 1"
	2208-027	Jan 19, 2022 @ 10:10 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Canturing 2"
	2208-028	Jan 19, 2022 @ 9:45 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Canturing 3"
	2208-029	Jan 19, 2022 @ 9:15 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Canturing 4"

Environmental conditions during analysis:

Relative humidity: 48.0%

Temperature: 21.8°C

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CHARACTERISTICS:

Parameters	Date Analyzed	Lab sample no.			
		022	023	024	025
BOD, mg/L	19-Jan-22	-	1.1	0.9	0.8
TSS, mg/L	20-Jan-22	18	20	21	11
True color, TCU	20-Jan-22	10	5	5	5
NO ₃ ⁻ as N, mg/L	20-Jan-22	0.104	0.064	0.064	0.104
PO ₄ ³⁻ as P, mg/L	20-Jan-22	0.000	0.000	0.000	0.000
Cl ⁻ , mg/L	20-Jan-22	6.95	2.03	1.70	2.09
		026	027	028	029
BOD, mg/L	19-Jan-22	-	1.1	0.8	1.4
TSS, mg/L	20-Jan-22	5	ND	ND	ND
True color, TCU	20-Jan-22	5	5	5	5
NO ₃ ⁻ as N, mg/L	20-Jan-22	0.225	0.198	0.189	0.062
PO ₄ ³⁻ as P, mg/L	20-Jan-22	0.000	0.000	0.000	0.000
Cl ⁻ , mg/L	20-Jan-22	457.71 NA	4.15	3.64	5.20

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/L 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:

ANGELICA JOY G. YU, RCh
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Reg. No. 0012803

Certified by:

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Laboratory manager
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Approved by:

MANUEL J. SACEDA JR.
OIC - Chief EMED

Noted by:

REYNALDO B. BARRA
OIC - Regional Director

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Laboratory
Sampler
Records Unit

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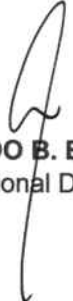
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