

	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:	Bao river (Priority river)		
Address/Location:	Kananga Leyte		
Sampled by:	M. Sudaria		
Date Arrived:	Jan 20, 2022 @ 3:26 PM	Date Acknowledged:	Jan 20, 2022 @ 3:28 PM
Date Reported:	Jan 25, 2022 @ 7:03 AM		

Chain of custody no.	Lab sample no.	Time of Collection	Sample type	Sample Information
2022-013	2208-030	Jan 20, 2022 @ 9:25 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Bao 1"
	2208-031	Jan 20, 2022 @ 9:20 AM	river water	water sample placed in 300-mL acid-washed glass, 500-mL and 1000-mL PET bottle labeled "Bao 2"

Environmental conditions during analysis:

Relative humidity: 38.6%

Temperature: 22.3°C

CHARACTERISTICS:

Parameters	Date Analyzed	Lab sample no.	
		030	031
BOD, mg/L	20-Jan-22	0.9	0.7
TSS, mg/L	21-Jan-22	11	8
True color, TCU	21-Jan-22	5	5
NO ₃ ⁻ as N, mg/L	21-Jan-22	0.153	0.147
PO ₄ ³⁻ as P, mg/L	20-Jan-22	0.000	0.000
Cl ⁻ , mg/L	21-Jan-22	4.05	3.96

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 ConductivityPhosphate (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
 Technical Manager, Chemistry
 Reg. No. 0012803


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

Approved by:


MANUEL J. SACEDA JR.
 OIC - Chief EMED

Certified by:


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

Noted by:


REYNALDO B. BARRA
 OIC - Regional Director

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REYNALDO B. BARRA
OIC - Regional Director

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