



MEMORANDUM

FOR : **THE REGIONAL EXECUTIVE DIRECTOR**
DENR MIMAROPA Region

FROM : The Officer-In-Charge, Office of the Regional Director and Chief,
Clearance and Permitting Division in Concurrent Capacity
EMB MIMAROPA Region

SUBJECT : **WATER QUALITY RESULTS OF LUMINTAO RIVER
COVERING THE MUNICIPALITIES OF RIZAL, CALINTAAN,
AND SABLAYAN, OCCIDENTAL MINDORO**

DATE : 06 October 2023

This refers to the Memorandum dated 13 September 2023 from the Community Environment and Natural Resources Office of San Jose received by this Office on 18 September 2023 requesting the laboratory results for the above-mentioned subject. Relative thereto, this Office is pleased to furnish you with a copy of the laboratory result (as attached) from the conducted water sampling.

Please be informed that the water sampling was conducted last **29 March 2023**, with a total of three (3) sampling stations. In addition, **Lumintao River** was classified as **Class "A"** in CY 1980 under the virtue of *DENR Memorandum Circular No. 93-07*. Kindly refer to the analysis of the conducted water sampling:

Parameter	Stn. 1: Malawan	Stn. 2: Tanyag	Stn. 3: Manoot	Average / Geomean	WQG Class "A"	Remarks
BOD ₅ , mg/L	2	<1	2	2	3	Passed
Dissolved Oxygen, mg/L	8.40	8.70	9.80	8.97	5	Passed
Color, TCU	<5	<5	<5	<5	50	Passed
Fecal Coliforms, MPN/100mL	540	920	240	492	100	Failed
Total Suspended Solids, mg/L	1	3	12	5	50	Passed

*WQG: Water Quality Guidelines (DENR AO 2016-08 and DENR AO 2021-19)

Hereunder presented are the onsite measurements made for the months of May, June and August 2023:



R4B-2023-020305

May 2023 In-situ measurements

Parameter	Stn. 1: Malawan	Stn. 2: Tanyag	Stn. 3: Manoot	Average / Geomean	WQG Class "A"	Remarks
Dissolved Oxygen, mg/L	8.1725	8.654	8.6675	8.498	5	Passed
pH units	7.9675	7.714	8.245	7.9755	6.5 – 8.5	Passed
Temperature, °C	29.4575	29.382	30.195	29.678	26-30	Passed

*WQG: Water Quality Guidelines (DENR AO 2016-08 and DENR AO 2021-19)

June 2023 In-situ measurements

Parameter	Stn. 1: Malawan	Stn. 2: Tanyag	Stn. 3: Manoot	Average / Geomean	WQG Class "A"	Remarks
pH units	7.58	7.49	7.47	7.51	6.5 – 8.5	Passed
Temperature, °C	31.93	30.10	25.30	29.11	26-30	Passed

*WQG: Water Quality Guidelines (DENR AO 2016-08 and DENR AO 2021-19)

August 2023 In-situ measurements

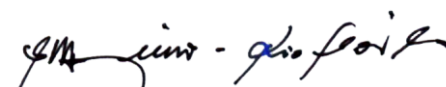
Parameter	Stn. 1: Malawan	Stn. 2: Tanyag	Stn. 3: Manoot	Average / Geomean	WQG Class "A"	Remarks
Dissolved Oxygen, mg/L	7.75	8.62	9.29	8.55	5	Passed
pH units	7.50	7.30	7.77	7.52	6.5 – 8.5	Passed
Temperature, °C	29.05	27.79	24.96	27.27	26-30	Passed

*WQG: Water Quality Guidelines (DENR AO 2016-08 and DENR AO 2021-19)

Based on the March 2023 results, the computed average concentration of the **Biochemical Oxygen Demand, Dissolved Oxygen, Color, and Total Suspended Solids** **passed** the Water Quality Guidelines (WQG) set forth under *DENR Administrative Order No. 2016-08*. Meanwhile, the **fecal coliform concentration** of all stations **exceeds** the set water quality guidelines for Class A waters based on the updated WQG in the *DENR Administrative Order No. 2021-19*.

On the other hand, all on site measurements conducted during the months of May, June and August 2023, passed the water quality guidelines set for Class A waters for the parameters of Dissolved Oxygen, pH units and Temperature. Please be advised further that, as per the laboratory and field personnel assigned to CENRO San Jose, the sampling activity was only conducted once and this was last March 2023.

For information and reference.


ENGR. BUENA FE A. RIOFLORIDO

ENCL: ROLA for March 2023

CC:
PENRO Occidental Mindoro
CENRO San Jose



Department of Environment and Natural Resources
Environmental Management Bureau
MIMAROPA Region

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RESULTS OF ANALYSIS

SOURCE : **LUMINTAO RIVER**
 ADDRESS : Brgy. Malawaan & Manoot Rizal, and Brgy. Tanyag, Calintaan Occidental Mindoro
 SAMPLED BY : OBGacuan, RTEsteves, MDagdag, EIgnacio, DCastisimo Jr. (CENRO- San Jose)
 DATE SAMPLED : 29 March 2023 DATE REPORTED : 21 September 2023
 DATE RECEIVED : 29 March 2023 ARF/SS CODE : CAL-23-280

Laboratory Sample Code	Station Number	Time of Collection	Station Identification
23-1171C	1	0550H	Malawaan
23-1172C	2	0457H	Tanyag
23-1173C	3	0603H	Manoot

CHARACTERISTIC	Method of Analysis	Environmental Condition	Date Analyzed	LABORATORY SAMPLE CODE		
				23-1171C	23-1172C	23-1173C
BOD5, mg/L	5day BOD Test; SMEWW 5210 B	18.5 – 22.3°C 20 – 55%RH	30 Mar - 04 Apr 23	2	<1	2
Dissolved Oxygen (DO), mg/L	Azide Modification Method; 4500-O C	18.5 – 22.3°C 20 – 55%RH	30 Mar 23	8.40	8.70	9.80
Color, TCU	Visual Comparison Method; SMEWW 2120 B	22.7 – 26.7°C, 34 – 60%RH	29 Mar 23	<5	<5	<5
Fecal Coliform, MPN/100ml	Multiple Tube Fermentation Technique; SMEWW 9221 E	22.7 – 25.7°C, 21 – 60%RH	29-30 Mar 23	540	920	240
Total Suspended Solids, mg/L	Gravimetric Method- Dried at 103-105°C; SMEWW 2540 D	21.5 – 25.4°C, 47 – 55%RH	31 Mar 23	1	3	12

NOTE: Measurement Uncertainty (MU) is available upon request.
 This report shall not be reproduced in part but in whole.
 Results refer only to samples as received.

CERTIFIED BY:

ROBBIN REBECCA C. LISONDRA, R.Ch

PRC No.: 0014021

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