



# River Restoration: Alleviating the Quality and Quantity of Life on the Freshwater Ecosystem

Project Leader: Marilyn S. Arcilla, MAN, RN, LPT

Institute of Arts and Sciences

August 22, 2023



# Updates of the Project

Launching - Publicity

Project Presentation - SWM: Manila bay Restoration

Collaboration with City ENRO

Data Gathering

Quotation





# Some Updates of the Project:



Pampanga News (June 26) and Mabalacat City News (June 29)





MCC - Institute of Arts and Sciences

August 14 at 12:15 PM · 🌐



### MCC-IAS, CENRO undertake Sapang Balen Restoration Project

In a significant stride towards the restoration of Sapang Balen River, a recent assessment of its physical and chemical features was conducted last August 9, 2023, by the Institute of Arts and Sciences and Mabalacat City ENRO. This effort, headed by Dean Marilyn Arcilla and Engr. Jesusa Santiago, revolves around the assessment and restoration of Sapang Balen, Mabalacat City, Pampanga with the implications targeted on SDG Nos: 2 (Zero Hunger), 6 (Clean Water and Sanitation), 14 (Life Below Water), and 17 (Partnerships for the Goals). The assessment, led by the BS Biology faculty and Ms. Anne Jerni Peña, is a crucial step, aiming to counter the impacts of urbanization and pollution. The researchers specifically examined the river's morphology, and water parameters focusing on Sta. Ines and Poblacion areas. The findings will guide a multidisciplinary team in developing targeted strategies, including bank stabilization and pollution control, with community involvement ensuring long-term success.





# Some Updates of the Project:

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text: "2<sup>nd</sup> Quarter 2023 Joint Meeting of City Solid Waste Management Board, Local Housing Board, and Manila Bay Task Force". Below the title, it says "June 27, 2023 at 2pm via Google Meet". The slide features logos for "LUNGSOD NG MABALACAT" and "MABALACAT CITY" and an illustration of a cityscape with a recycling symbol. The meeting controls at the bottom show the time as 1:54 PM and the ID as jov-tdiq-gmr. The participant grid on the right includes: Anne Jerni Peque, vlima, Mababacat CPS Admin, CORMO MABALACAT, SOCIAL WELFARE DEVELOPM., CHO-EHE Mababacat, MERN COOPERATIVE, and 2 others. The "You" tile is at the bottom of the grid.



# Meeting with CENRO



July 6, 2023

July 20, 2023

17	Lab test	Oil and Grease	9	660	5,940
18	Lab test	Total Coliform	9	900	8,100
19	Lab test	Heterotrophic Plate Count	9	400	3,600
20	Lab test	Thermotolerant/ E. coli	9	1050	9,450
21	Lab test	Dissolved Oxygen	9	300	2,700
22	Lab test	Biological Oxygen Demand	9	750	6,750
23	Lab test	Free Cyanide	9	850	7,650
24	Lab test	Surfactants	9	800	7,200
25	Lab test	Metal Preparation	9	250	2,250
<b>Briquettes Derived from Congo Grass Parameters</b>					
26	Lab test	Proximate analysis	3	1,990	5,970
27	Lab test	Ash	3	840	2,520
28	Lab test	Moisture	3	450	1,350
29	Lab test	Volatile Combustible Matter	3	700	2,100
30	Lab test	Fixed Carbon	3	1,990	5,970
31	Lab test	Heat Value	3	1,500	4,500
				<b>TOTAL</b>	<b>180,220.00 PHP</b>



# Execution





# Execution





# Execution: Collect August 15, 2023: Preparation - August 16, 2023





# Quotation



**CRL Environmental Corporation**  
 Building 02, Berthaphil Compound 1  
 Berthaphil Industrial Park, Clark Freeport Zone  
 Pampanga 2009, Philippines  
 Tel: (+632) 8840-4071 (+632) 8840-2874  
 www.crlabs.com

## Quotation

**Quote Number:** QT00008505  
**Quote Date:** 06/26/2023  
**Page:** 1 of 1

**Quoted to:**

Mabalacat City College  
 Rizal St. Dolores  
 Mabalacat City  
 Pampanga

**Ship to:**

Mabalacat City College  
 Rizal St. Dolores  
 Mabalacat City  
 Pampanga

Attention: Glen S. Nolasco

Tel. No.: 09496878573

Customer ID	Good Thru	Payment Terms	Sales Rep
mcc		C.O.D.	Maricar Erica F. Openiano

Project Name	Delivery Term
	TAT: (7)-(10) Working Days

DESCRIPTION	QTY	UOM	U. PRICE	AMOUNT
*Drinking Water Analysis: River water Source				
TOTAL COLIFORM - 3 DILUTIONS	3	TEST	900.00	2,700.00
HETEROTROPHIC PLATE COUNT	3	TEST	400.00	1,200.00
THERMOTOLERANT COLIFORM/E.COLI	3	TEST	1,300.00	3,900.00
Sales Discount	1	TEST	-1,560.00	-1,560.00

Pick up result

**TERMS AND CONDITIONS:**

- a) Minimum transaction amount of PHP 1,500
- b) For transactions PHP 2,500 and below, CASH payment required.
- c) Cost for additional and/or re-printing of reports is PHP 150.00 per Report.

**Total** 6,240.00

Prepared by: Maricar Erica F.

Conforme: \_\_\_\_\_  
 Signature over Printed Name



*CRL Environmental Corporation*

05 July 2023

**Glen S. Nolasco**

MCC - Rizal St., Dolores, Mabalacat City, Pampanga  
 Contact No.: 09771426735

ATTN: **Mr. Glen S. Nolasco**

Project Name: ISIP RIVER RESTORATION  
 Lab. Nos.: P00140691-01/03

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition Certificate with C. R. No. 023/2021, will expire on August 25, 2024.

Likewise, our DOH Accreditation with Accreditation No. 03-001-2325-LW-2, is valid from January 01, 2023 until December 31, 2025.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,

**MARIA CARMELA Q. CAPULE, Ph.D.**  
 Chief Operating Officer

# Reproposal: FUNDING for Bigger Project

The screenshot displays the Outlook web interface. The top navigation bar includes 'Outlook', a search bar, and icons for Teams call, chat, calendar, and settings. The left sidebar shows the 'Home' view with options for 'New mail', 'Delete', 'Archive', 'Report', 'Sweep', 'Move to', 'Reply', 'Reply all', 'Forward', and 'Quick steps'. The 'Folders' pane on the left lists 'Inbox (1572)', 'Drafts (12)', 'Sent Items', 'Deleted ... (21)', 'Junk Email', 'Archive', 'Notes', and 'Conversations'. The 'Groups' section shows 'QOL Res...' with 8 members and options to 'New group', 'Discover gr...', and 'Manage gro...'. The main content area is titled 'WAT3R Integrated Watershed Management Proposal' and shows a message history. The selected message is from 'Michelle Aguilar-Ong' dated 'Thu 8/17', with the subject 'WAT3R Integrated Wat...' and the body text 'Ok, thank you. Get Outlook for iOS'. Below this, a list of messages is shown, including one from 'April Ann Lim-Galang' dated 'Mon 8/14' and several from 'Glen Nolasco' and 'Michelle Aguilar-Ong' dated 'Wed 8/16/2023' and 'Thu 8/17/2023'. The messages discuss the proposal template, account verification, and access requests.



# Reproposal: FUNDING for a Bigger Project

LINE-ITEM BUDGET		
<b>Project Title:</b>	<i>River Restoration: Alleviating the Quality and Quantity of Life on Freshwater Ecosystem</i>	
<b>Project Leader:</b>	Marilyn S. <u>Arcilla</u> , RN, MAN	
<b>Proponent:</b>	<u>Mabalacat</u> City College	
<b>Duration:</b>	24 months	
	DETAILS	24 MONTHS (PHP)
<b>I. Professional Services</b> (Honoraria/Salaries)		
A. Project Leader	8,800/month	211,200.00
1. Project Staff	7,000/month	168,000.00
B. Study Leader 1 (Biological parameters)	5,500/month	132,000.00
C. Study Leader 2 (Chemical parameters)	5,500/month	132,000.00
D. Study Leader 3 (Physical parameters)	5,500/month	132,000.00
Research Associate	21,500/month	516,000.00
Research Associate	21,500/month	516,000.00
<b>SUBTOTAL</b>		<b>1,807,200.00</b>
<b>II. Maintenance and Other Operating Expenses</b>		
A. Travel to study sites	TEV @ PHP 1,000 x 6 persons x 30 days	180,000.00
B. Equipment, Supplies, and Materials		2,000,000.00
C. Fuel/Gasoline	PHP 1,000 x 30 trips x 1 car	30,000.00
D. Professional Services		
1. Biological Parameters	At least 2 <u>trainings</u> /workshops	50,000.00
2. PhysicalParameters		100,000.00
3. Water Quality Parameters		100,000.00
E. Food Expenses	Project meetings	133,000.00
F. Attendance to Conferences/Fora	Transportation and Conference Fees	250,000.00
G. Publication		50,000.00
<b>SUBTOTAL</b>		<b>2,893,000.00</b>
<b>III. Contingency Fund</b>		<b>50,000.00</b>
<b>IV. Administrative Cost</b>	(@5% of Total project cost)	<b>250,000.00</b>
<b>TOTAL</b>		<b>5,000,200.00</b>

