



QUARTERLY RESEARCH PROGRESS REPORT

QUARTER: (1st)

**Research Title: PHYSICO-CHEMICAL CHARACTERIZATION OF THE MAJOR
RIVER SYSTEMS IN LEYTE ECH. 14-1420.15**

I. Project Objectives *(Please specify if it is a program/ project/study):*

This project attempts to uncover the status of the major river systems in the Province of Leyte specifically, the project aims to (1) investigate the levels of organic matter and carbonates in sediments of the major river systems in Leyte, (2) determine the physicochemical properties of the water in the major river systems in Leyte, (3) evaluate the presence of heavy metals in water and in the sediments of major river systems in Leyte, (4) assess the levels of N, P, and K of the water and the sediments of the major river systems in Leyte, and (5) characterize the water quality of the major river systems in Leyte through pigmental analyses of the freshwater algae.

(For the year 2022 to 2023 the river of study is the Daguitan-Marabong River System that stretches along the municipalities of Burauen, Julita, and Dulag, Leyte.)

II. Relevance to VSU & College's Thrust and Priorities:

The research study is aligned with the university and college thrust and priorities on environmental health risk monitoring and evaluation.

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

The targets for the first quarter of 2023 are (a) to finish the second and third sampling on the river as well as continue the data gathering for the different parameters needed for the assessment of the quality of the river of study; (b) to choose the next river to be studied for the year 2023.

B. Highlights of accomplishments

The following were accomplished on the first quarter of 2023.

- a) Second sampling was done on March 21, 2023
- b) Palhi River System in Palhi, Baybay City, Leyte was chosen to be the river of study this year 2023.

IV. Physical Report of Operation

A. Research Program

	Particulars/Name and Brief Description of Utilized/ Commercialized Technologies	Number
Outcome Indicator		
1. Number of research outputs utilized by the industry or by other beneficiaries	NA	
Output Indicator		
1. Number of research outputs completed within the year	NA	
2. Percentage of research outputs published in internationally-referred or CHED recognized journal within the year	On-going	

B. Technologies/Information patented and commercialized

Technology Invention(s) New Information	Invention Patent Number	Date of Issue	Utilization of Invention		Name of Commercial Product
			Development	Service	
A. Technology Invention(s)	None				
B. New Information	None				

C. Research papers published (Identify if articles were for Research, Extension, Innovation or MSc/ PhD Studies)

	Title	Author (s)	Date/Year/Publication/ Publisher	Remarks (If Research, Extension, Innovation, Thesis, MSc/PhD)
a. Refereed Journal	None			
Institutional				
National				
International				
b. Semi-popular pub'n (newsletter, etc.)	None			
c. Popularized pub'n (technoguides, etc.)	None			
d. Book Chapter/s	None			
e. Books	None			

D. Citation

Research Output as Cited by Other Researcher(s) in Journal Activities									
Title of Research Output/ Published Journal Articles/ Book	Title of Journal & Vol. Issue/ Year	Keywords	Researcher (s)	Citation Details					
				Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	City/ Year Published	Publisher
None									

V. Issues, Problems, and Recommendations

Issues:

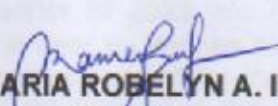
- Delay in the processing of the needed documents to hold an activity outside the campus.
- Delay in the procurement of ordered equipment needed.
- Third sampling was not done within the specified period.

Problems

- Due to strict guideline as well as not updated form coming from the USSO, a delay in the needed documents was experienced during the signing of the unadded personnel for the activity outside the university.
- Procurement is so delayed. Some analyses were done outside VSU premises.
- Due to heavy rainfall during the months of January and February 2023, the second sampling was done only in the month of March 2023 when the weather was fine for about 5 consecutive days.

Recommendations

- USSO should communicate updated forms needed for the outside the campus activities.
- Improve the purchasing process of the Supply Office in the university.
- Analyses for the next river should be done on the second quarter of 2023.

Submitted by :  MARIA ROBELYN A. INSIK
Project Leader

Endorsed by : MA. THERESA P. LORETO
Dean, College of Arts and Sciences

Date Submitted : March 29, 2023

Received by OVPREI-RPO: _____

Date Received : _____