## Job Completion Report

Ernest G. Simmons Marine Biologist.

Project No.	M-8R-1	· · · · · · · · · · · · · · · · · · ·	Date:	July 15, 1959.
Project Name:	Biological Sur Proposed I	rvey of the Upper Lagu Pass Area:	na Madre,	Baffin Bay and
Period Covered	i: <u>July 1, 195</u> 8	8 - July 1, 1959	Job No.	C-4
	Nutrient Ar	nalysis and Culture of	Phytopla	nkton
Objectives: To determine limiting factors of phytoplankton production by the use of enriched cultures.				
meyer fla	asks and combin	from the Laguna Madre nations of nutrients we additives were as fo One ml. 0.1 M. K <sub>2</sub> HPO <sub>4</sub> One ml. 0.1 M. HNO <sub>3</sub> Five drops 0.1 M. FeC	ere added llows: per lite per lite	. Each samples was r
	Flask set 2 -	K <sub>2</sub> HPO HNO <sub>3</sub> No FeCl <sub>3</sub>	Flask set	5 - HNO3 only
	Flask set 3 -	FeCl <sub>3</sub> No HNO <sub>3</sub>	Flask set	6 - K <sub>2</sub> HPO <sub>4</sub> only
	Flask set 4 -	NO KSHLOM		7 - FeCl <sub>3</sub> only.
	ks were then p. Asin for ten de	laced in a floating ra ays.	ft which	was allowed to stay
declined	absent. All a	e response, particular samples with iron adde ne failed to grow phyt	d failed oplankton	to respon and even . All samples soon

and iron absent. All samples with iron added failed to respon and even declined. Nitrate alone failed to grow phytoplankton. All samples soon became senescent and it was apparent that bacterial action was intense. In view of the impossibility of maintaining sterile working conditions and the absence of constant light and temperature sources the project was discontinued.

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Approved by:

Howard T. Lee

Date Approved: 2/ July 1959