

PPBEP COMMUNITY GRANT FINAL REPORT FORM

Agreement No.:	FY2104		
Grantee Name:	Escambia High School		
Grantee Address:	1310 N. 65 th Ave, Pensacola FL 32506		
Grantee's Representative:	Matthew MacGregor	Telephone No.:	850-384-9514
Project Number and Title:	Bayou Grande and Davenport Water Quality Monitoring and Assessment		
Please submit any high-resolution photos related to the project, if available (include photo credit for possible use by PPBEP for use in our e-newsletter, annual report, social media, or website) with your report as image files to lmcdonald@myescambia.com .			

RESULTS: Describe the progress made toward the goals and objectives as stated in the funded grant application.

Students from Escambia High School Marine Science collected samples from Four locations: Grande1, Grande3, Dav1, and Dav2. Samples were collected twice each month starting in January and ending in May, with May having one sample collection due to the end of the school year scheduling restrictions. We were successful in collecting the following parameters at each site: Dissolved Oxygen, Salinity, temperature, Total Inorganic Nitrogen, Phosphonates, and Chlorophyll A. We were able to send samples to Escambia County Laboratories for analysis of Enterococcus once funding was established. The objective was to begin a program to establish a baseline of data collection in both Bayou Grande and Davenport Bayou. The two stations in Davenport Bayou were of particular interest due to the impending White Island and surrounding area shoreline restoration and living shoreline implementation. Dav2 is in very close proximity to the island. The data has been collected, logged, and initial graphing analysis has been implemented using Google Charts. A report is being synthesized to share with the initial data collected from January-May 2021.

IMPACT: Summarize the organization's key evaluation results related to the funded grant (number of people reached, samples taken, etc.):

As stated in the Results, the targeted parameters were taken (minus pH due to the delay in the YSI Quatro Pro meter being delivered and functioning on time). The grant had an impact on **175** Escambia High School students in the Marine Science programs and approximately **60** in the Environmental Sciences. The grant funding will allow the program to continue into the 2021-2022 school year and beyond as supplies are procured to continue the study.

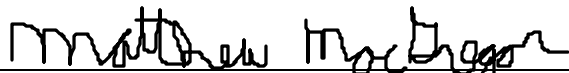
SUCSESSES AND CHALLENGES: Describe the significant successes and challenges the organization experienced related to the funded grant.

Students successfully learned both field collection protocols and laboratory assays in the facilitation of this grant. Students were receptive to accepting the roles and responsibilities of the tasks assigned to them. All students gained a better understanding of human impact on the environment through collecting and analyzing field parameters and gained an understanding of cause and effect, including natural seasonal variations.

LESSONS LEARNED: Describe what the organization learned based upon the results, successes, and challenges reported. Address programmatic, evaluative, or organizational changes that will be made based upon these lessons learned.

This grant was a learning experience for both Mr. MacGregor and his students. It came with challenges. None of the challenges were insurmountable. Challenges present themselves and are overcome. One important lesson learned is to be patient. Some challenges encountered were: Weather, scheduling conflicts, equipment failure, questions regarding odd test results, delays in purchasing, and challenges associated with "citizen science" projects related to training and dependability. One challenge that led to delays was the availability of the school bookkeeper. Changes to be made in the future implementation of this grant is to create a Marine Science Research Club to help create a group of students who have a vested interest in the project. Another change is to have sample collection days on weekends rather than before school. Another change is to designate responsibilities to small groups of students for particular tasks. Overall, implementation of the grant will be more efficient with minor modifications.

This report is submitted in accordance with the reporting requirements of Agreement No. FY2104 accurately reflects the activities associated with the project.



Signature of Grantee's Representative

6/15/21

Date

Matthew MacGregor, Grantee

Print Name and Title