

# 2020 PROGRESS REPORT

Quarter: (circle one)

2020 4<sup>th</sup>

Grant Program, Number and Title: Pollinator RCN RCN GSA 00096

Organization: Poulos Environmental Consulting

Project Leader: Poulos

Abstract: Please provide a short (1-2 paragraphs) abstract that addresses EACH of the following: the objectives of your project, accomplishments to date, future plans and timelines with an estimate for when the project will be completed.

During this quarter, we extracted GIS environmental data for each site, bee bowl transect location, and vegetation transect location. We constructed species matrices for both the bee data and vegetation data. Bee data were counts by site for 2018 only and the corresponding environmental data for all transects. Vegetation data included 2019 plant species cover by vegetation stratum with corresponding transect environmental data for six sites (Linda Loring Nature Foundation, Head of the Plains, Albany Pinebush, Pokomoke, Green Ridge, and Concord Pine Barrens). These were the only sites who contributed data for the project upon query to the site managers.

All site, bee bowl, vegetation, GIS, and vegetation data were cleaned and organized for delivery to the Northeast Barrens group.

Preliminary R scripts for diversity and multivariate plant and bee community analyses were developed as a template for analyzing these data for the project.

Were planned goals/objectives achieved last quarter?

Yes

Progress Achieved: (For each Goal/Objective, list Planned and Actual Accomplishments)

Databases completed, preliminary statistical analyses, and R scripts completed.

The preliminary results from this component of the project will be presented to the group on January 15<sup>th</sup>.

Difficulties Encountered: We were unable to obtain data from many of the sites during the 2020 project time-period.

Activities Anticipated Next Quarter: Finish vegetation data aggregation and vegetation database construction.

Expected End Date: May 30, 2021

Costs:

Total life to date expenses (include this quarter): \$20,860

Total Approved Budgeted Funds: \$20,800. Excess amount is from matching funds

Are you within the approved budget plan and categories? yes

Signature:

A rectangular box containing a handwritten signature in cursive script that reads "Kelly M. Pauloo".

Date:

01/08/21