

Progress Report

5th Quarterly Report May 1, 2016 – July 31, 2016

Project Title: *Cape May County NFWF BESCCH Grant*

Institution: *Cape May County Planning Department*

Project Investigator: *Brian O'Connor*

NFWF Award #: 42279

Award period: *March 1, 2015 – March 1, 2017*

Reporting Period: *May 1, 2016 – July 31, 2016*

Result/Progress to Date:

The following progress was made on the scoped tasks during the reporting period.

- Task 1- Surveying
 - Survey data field collection effort has been completed. Gibson also finished processing of the data and provided two signed and sealed copies of the drawing deliverables as per the survey scope. Gibson also provided hardcopies of title searches for 12 parcels within the marsh. This deliverable has been submitted in both paper, sealed drawings and also in digital format as a pdf.

- Task 2. Hydrology Study
 - Gathered and compensated water elevation data from tidal gages onsite. Gathered and analyzed Gibson onsite survey data. Performed tidal datum analysis on local data using Cape May NOAA gage to build reconstructed epoch. Established tidal boundary conditions. Constructed and ran Green Creek watershed model using ArcSWAT to establish fluvial boundary conditions. Prepared bathymetry raster files for SMS. Merged datasets on SMS. Prepared scatter data for model - checked/cleaned up data and added cross sectional data. Generated CMS-Flow telescoping grid - define resolution with polygons. Added CMS-Wave wind and wave boundary conditions from local NOAA buoy. Performed model calibration runs and analysis. Refined existing conditions model based on input from Dr. Alan Blumberg. Met with Cape May County to develop alternatives that were then modeled. Developed grids for each and performed model runs for each looking at morphological changes in the channels. Held internal model review calls with Dr. Alan Blumberg to review modeling results.

- Task 3. Engineering Design of Selected Alternatives
 - Processed base map obtained from surveyor.

- Task 4 – Coastal Ecology
 - Submitted Environmental Assessment to Cape May County. The Environmental Assessment is completed and is on the website.

- Task 5 – Attend Three Public Meetings
 - The second (2nd) Public meeting is planned for August 25th 6-8 PM at the Green Creek Fire Hall where modeling and alternatives will be discussed. Emails have gone out to the stakeholders. A notice will be published in the local newspaper on August 17th and 24th.

Current progress is in agreement with the original project schedule and milestone chart, attached to this report.

Other Tasks completed but not listed in Milestone/Timeline Schedule Chart:

A website was built to let folks track the progress of this grant. Information is updated quarterly.

June 14th field trip with NFWF members.

Changes to budget and project plan:

Although the project is currently operating within budget, the project is at risk to evolve beyond the defined scope and allocated budget if not closely managed. Specifically, stakeholder coordination and integration of external input into the process could evolve the project scope. Louis Berger will work closely with Cape May County to continue managing this risk.

Upcoming Activities:

The following activities are planned for the upcoming project period.

- Continue to advance development of the hydrodynamic model.
- Prepare for and attend 2nd public meeting 8/25 and pre public meeting on 8/23

Status of Financial Reports:

Total in-kind expenditures for the 5th quarter came to \$7,065.73 ?? (see "5th Quarter In Kind attachment") bringing the total "in kind" to \$34,066.61. Three (3) invoices from Louis Berger were paid in this quarter in the amount of \$23,178.97 Attached find the 5th quarter financial report and attachment C (May 1, 2016 – July 31, 2016) "Cape May County NFWF BESCCH Grant" as well as a State of New Jersey Payment Voucher in the amount of \$ 23,178.97 with all supporting documentation. I hope this satisfies your needs. Please call this office if you have any questions.

Expenditure Report:

Attachments Cs and the expenditure report included.

Extension Requirement:

No extension is foreseen at this time.

Appendices (optional):**Other Tasks completed but not funded by the NFWF BESCCH project:**

None

Thank You,



Brian O'Connor

PROJECT SCHEDULE AND MILESTONE CHART

TASKS	2015		2016				2017
	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Task 1- Surveying Deliverables: Survey							
<i>Task A – Collect Existing Information from client</i>	■						
<i>Task B– Initiate Survey Task for Project</i>	■	■					
<i>Task C - Collect survey Information and develop survey plans & Report</i>		■	■				
Task 2. Hydrology: Deliverable: Hydrology Report							
<i>Task A – Collect H&H Requirements for project</i>	■	■					
<i>Task B – Perform H & H Modeling for the task</i>			■	■			
<i>Task C – Develop H&H report for conceptual designs</i>					■		
Task 3. Engineering: Deliverables: Engineering Design of Selected Alternatives							
<i>Task A – Initiate Design for project</i>				■			
<i>Task B– Develop three conceptual design alternatives</i>				■	■		
<i>Task C– Narrow down to preferred alternative</i>					■		
<i>Task D– Develop plans & cost estimate for preferred alternative</i>					■	■	
<i>Task E– Initiate permit plan development</i>						■	■
Task 4. Coastal Ecologist: Deliverables: Permits							
<i>Task A - Complete Environmental Assessment</i>		■	■				
<i>Task B – Initiate permit discussions with regulatory agencies</i>				■	■		
<i>Task C– Develop draft permit documents & Planting plans, quantities, and cost estimates.</i>				■	■	■	
<i>Task D – Finalize permits applications and processing of permit applications</i>					■	■	
<i>Task E – Coordination with agencies on permits, seasonal restrictions, etc.</i>							■
Task 5. Public Meetings: Deliverable: Meeting minutes							
<i>Task A – Attend Three Public Meetings</i>					■	■	■

NOTES: Q1: January-March; Q2: April -June; Q3: July-September; Q4: October-December of Calendar year

Brian O'Connor
Project Manager