

# *Engineering With Nature*

## *Project Fact Sheet*



### **Engineering With Nature: An Atlas, Volume 2**

#### **Background**

There is tremendous interest internal to USACE and elsewhere to integrate a suite of EWN case studies that highlight natural and nature-based features (NNBF) projects. In turn, this Special Report will provide an inventory complementary to Volume 1, comprised of a diverse grouping of projects (national and international), that exemplifies the utility of EWN solutions.

#### **Objectives**

Following the successful publication of Volume 1, the key objectives for Volume 2 include the following: (1) prepare the second volume of a highly professional, “coffee table”-style book that becomes “gold standard” for describing and illustrating a diverse suite of EWN and NNBF projects; (2) offer the reader a perspective of highlighted EWN and NNBF projects, as described with use of the EWN elements that result in “triple win” outcomes; and (3) use the product to overcome perceived risks of constructing nature-based features through a “preponderance of evidence” that illustrates value of such projects.

#### **Approach**

Approach includes, but is not limited to: (1) inventory ~80 candidate projects received through established project nomination process via the EWN website and direct solicitation of PIs, PMs, and/or project contacts (Figure 1 and 2); (2) Select projects categorized based on type, described and prioritized accordingly; (3) develop cut-sheet (mock up) that align prospective project with EWN elements then circulate to respective POCs; (4) refine/edit exhibits received from POCs (including text and high resolution pictures); (5) integrate exhibits into master document; and (6) format and illustrate accordingly.

#### **Outcomes**

Outcomes associated with this 1-year project (FY20) will include, but are not limited to: (1) Publication of Atlas Book-Hardcopies and Online; (2) Delivery of books to USACE Leadership and other organization POCs; (3) Upload Ebook to EWN Website; and (4) Distribute hardcopies on request and through various [national and internationals] meetings, conferences, expos, etc.



**Figure 1. Pierce Marsh Restoration, Galveston, TX, USA.**



**Figure 2. Blue-Green Infrastructure Approach to Flood Risk Management, Ellis Meadows, Leicester, England**