


**TO:** Michael C. Van Milligen, City Manager  
**FROM:** Gus Psihoyos, City Engineer   
**SUBJECT:** Lower Bee Branch Creek Floating Island Project  
CIP# 7201654, PROJECT# 4X0003  
**DATE:** April 10, 2017

### **INTRODUCTION**

The purpose of this memo is to seek approval of the plans, specifications, form of contract and the estimated cost for the Lower Bee Branch Creek Floating Island Project.

### **BACKGROUND**

In October of 2010 the City Council passed Resolution 390-10 authorizing an application for Vision Iowa River Enhancement Community Attraction and Tourism (RECAT) grant funding specifically for amenities associated with the Bee Branch Creek Restoration Project. One of the amenities included is to construct a floating island in conjunction with the construction of the Bee Branch Creek Restoration Project.

In April of 2011 the City Council passed Resolution 114-11 approving and authorizing the execution of the RECAT Grant Agreement.

### **DISCUSSION**

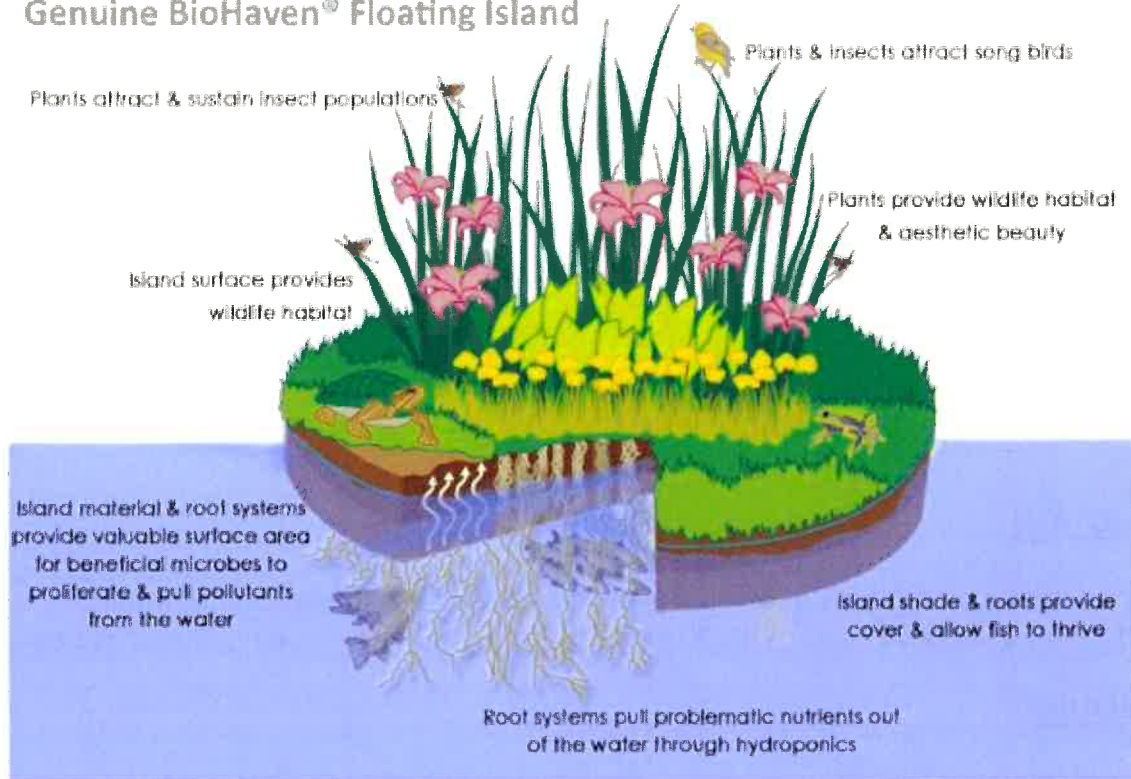
The RECAT grant application and grant agreement include funding for a floating island to be constructed as part of the Bee Branch Creek Restoration Project, located within the 16th Street Detention Basin.

The proposed floating island system is a form of a wetland which will "bio-mimic" natural floating wetland systems invented by Nature. Vegetated with native plants, it is a beautiful, natural and sustainable eco-system which provides many benefits, from habitat restoration to water cleansing.

When a floating island is launched, a whole diverse eco-system is created which attracts life in all its forms, from microbes to nymphs, to butterflies, to fish, birds.... all

the way up the food chain. Figure 1 shows the multitude of benefits provided by floating island systems.

**Genuine BioHaven® Floating Island**



**Figure 1. Benefits of a floating island system.**

The proposed floating island system consists of fourteen floating islands that vary in size from 70 square feet to 300 square feet in area. The total combined island area is 2,660 square feet. The islands will be assembled, planted with native wetland plants, launched, and anchored to the bottom of the Lower Bee Branch Creek and 16th Street Detention Basin.

**PROJECT SCHEDULE**

The schedule for the project is as follows:

Initiate Public Bidding Process	April 3, 2017
Publish Notice to Bidders, Advertise for Bids	April 7, 2017
Publish Public Hearing Notice on Plans & Specs	April 7, 2017
Public Hearing on Plans & Specifications	April 17, 2017
Receipt of Bids (Bid Letting)	April 20, 2017
Award Construction Contract	May 1, 2017
Final Project Completion Date	September 1, 2017

**RECOMMENDATION**

I recommend approval of the plans, specifications, form of contract and the estimated cost for the Lower Bee Branch Creek Floating Island Project (Project).

**BUDGET IMPACT**

The estimate of probable costs for the Lower Bee Branch Creek Floating Island Project is as follows:

Construction	\$ 182,900.00
Contingency (10%)	18,290.00
Engineering	<u>30,500.00</u>
<b>Total Project Cost</b>	<b><u>\$231,690.00</u></b>

The funding summary is as follows:

<u>CIP No.</u>	<u>Fund Description</u>	<u>Fund Amount</u>
<b>7201654</b>	<b>Bee Branch Creek Restoration Project</b>	<b>\$231,690.00</b>
	<b>Vision Iowa RECAT Grant Funding</b>	<b>\$ 46,000.00</b>
	<b>State Revolving Loan Fund Proceeds</b>	<b>\$185,690.00</b>

**ACTION TO BE TAKEN**

I respectfully request adoption of the attached resolution approving the plans, specifications, form of contract and the estimated cost for the Lower Bee Branch Creek Floating Island Project.

Prepared by Deron Muehring

cc: Crenna Brumwell, City Attorney  
Jenny Larson, Budget Director  
Alexis Steger, Senior Budget Analyst  
Steve Sampson Brown, Project Manager  
Deron Muehring, Civil Engineer