

**Maumee Watershed Conservancy District  
Hancock County Flood Diversion**

***MONTHLY PROGRESS REPORT #6  
FOR STANTEC CONSULTING SERVICES INC.***

**Period Covered:**

**4-February-2016 thru 10-March-2017**

**Submitted by:**

**Stantec Consulting Services Inc.  
4540 Heatherdowns Boulevard, Suite A  
Toledo, Ohio 43614**

**Telephone: (419) 380-8910  
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## **I. Invoice Summary and Project Financial Status**

- Invoice Number 1172529 totaling \$122,565.53 for the Phase 2 Proof of Concept efforts is submitted for consideration. To-date approximately 82.64% of the total authorized funds for the Proof of Concept have been invoiced.
- The above invoice includes three (3) subconsultant invoices. Invoices from Stormwater Engineering (\$1,860.00), Jack Faucett Associates (\$29,370.00) and Hart (\$14,041.24) are attached for your records.
- An additional invoice, Invoice Number 1172531 totaling \$21,562.50 for the authorized Supplemental Services related to field investigations for permitting and aerial survey, is also submitted for consideration. This invoice includes time applied by Stantec staff, as well as one (1) subconsultant invoice from the Mannik & Smith Group (\$14,428.75).

## **II. Major Issues and Decisions**

### **Data Collection & Analysis**

- New hydrological information is continuing to be integrated into the hydraulic model. Additional QA and calibration continues for the "typical storm" event. The Proof of Concept report will, however, be based upon the SCS Type II Storm as a direct comparison to the prior efforts by USACE.
- Bi-weekly coordination conference calls are being held with Jack Faucett Associates (Faucett) for their review and update of the BCR for the proposed program of improvements. Faucett is currently in process of creating an updated BCR utilizing a regional economic development (RED) model, versus the national economic development (NED) model utilized by the USACE. Local calls and interviews have occurred to confirm data acquired.
- An online business survey has been issued in coordination with the Chamber of Commerce. An additional agri-business survey is in development with the Farm Bureau and will likely be issued prior to April 1<sup>st</sup>.
- Worked closely with the County, City and District to develop a local presentation that was held on February 22<sup>nd</sup> at the University of Findlay. Provided an informal presentation to the Findlay Courier Editorial Board and The Alliance Group in conjunction with the larger local presentation.
- Supported District staff in the development of the response to the freedom of information act (FOIA) submitted February 23<sup>rd</sup>.
- Coordinated with HART for the development of the Program webpage ([www.hancockcountyflooding.com](http://www.hancockcountyflooding.com)).

### **Concept Refinement**

- Finalized refinements technically feasible alternatives, as presented within the Draft Proof of Concept report.
- Preparing final Hancock County Flood Risk Reduction Plan/Proof of Concept report for District review and consideration. The final report, including the updated BCR analysis for the Hydraulic Improvements to the Blanchard River and overall Program will be submitted by April 3<sup>rd</sup>.

### **Permitting**

- Continued coordination with Mannik & Smith Group (MSG) for Section 106 consultation with SHPO.

- MSG and Stantec staff collaborated for the development of a formal work plan for permit coordination to follow the steps necessary to provide permitting for the preferred alternative/recommended plan once selected.
- Stantec staff are preparing the draft report for the previously completed wetland delineations and threatened and endangered species investigations. This report will be amended later to correspond to the final recommended plan.
- The invoice provide by MSG primarily includes the hourly rates and expenses for the Work Plan development, as well as the summary report for the initial field work east of I-75.

**Aerial Survey**

- Low-level flights for aerial mapping are complete. Post-processing of the raw data is underway to develop the bare earth DEM as part of the original basic services. Additional processing will be required for future design efforts and will be included in the pending proposal for the preliminary efforts of the Hydraulic Improvements.

**III. Schedule**

<b>Task</b>	<b>Proposed Timeline</b>	<b>Current Status</b>	<b>Anticipated Timeline</b>
<b>A. Data Collection &amp; Analysis</b>			
A.1 – Update Hydraulic Modeling, H&H Data Collection & Analysis	9/9/2016	Complete	N/A
A.2 – Economics Impact Analysis	9/30/2016	Complete	N/A
A.3 – Geotechnical Borings	10/28/2016	Complete	N/A
A.4 – Surveying	9/23/2016	Complete	N/A
A.5 – Pre-Permitting, Mussel Recon, Cultural	10/28/2016	Complete	N/A
A.6 – Transportation	9/30/2016	Complete	N/A
A.7 – Precipitation Modeling	10/31/2016	Complete	N/A
A.8.A – Wetland Delineations & Habitat Assessment (Supplemental Task)	1/31/2017	On Hold	4/15/17
A.8.B – Archaeological Survey	1/31/2017	On Hold	4/15/17
A.9 – Aerial Survey	12/31/2016	Complete	N/A
<b>B. - Concept Refinement</b>			
B.1 – Project Adjustments & Improvements	10/14/2016	Complete	N/A
B.2 – Model Refinement	10/14/2016	Nearly complete	3/31/17
B.3 – Estimating & BCR Analysis	10/14/2016	Underway / Estimating Nearly Complete for the Draft Report / Formal BCR	3/31/17

Task	Proposed Timeline	Current Status	Anticipated Timeline
B.4 – Permitting Coordination	10/31/2016	Complete	N/A
B.5 – Report & Presentation	10/31/2016	Draft Report Submitted February 3 <sup>rd</sup> . Final report to be provided by April 3, 2017	4/3/17

Respectfully Submitted

**STANTEC CONSULTING SERVICES INC.**

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**APPROVAL OF PAYMENT:**

On behalf of the Maumee Watershed Conservancy District and in accordance with the Memorandum of Agreement, I hereby recommend payment in favor of Stantec Consulting Services Inc. by the Hancock County Commissioners in the amount of \$ 144,128.03.

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Clark Lynn Army, General Manager                      Date