

Lynn Reinhardt

From: Brad Woznak <bwoznak@sehinc.com>
Sent: Friday, July 15, 2016 10:12 AM
To: Lynn Reinhardt
Subject: Re: Watson - Ebner Coulee Preliminary Cost Estimate for updating hydrologic analysis

Follow Up Flag: Follow up
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Bill,

Here is a quick summary of my estimation of the level of effort required to review and update the hydrology for Ebner Coulee as we discussed over the phone and as highlighted in the provided USGS letter to the WiDNR.

I would suggest a two phase approach to this project with the first being the update of the hydrology and preliminary floodplain revision mapping to estimate the potential impacts of the revised hydrology on the FEMA floodplain maps. This approach provides a lower cost, less detailed up-front study to evaluate the potential impacts and make a determination as to whether or not it is "worth" the extra costs to move the project forward and prepare a formal FEMA Letter of Map Revision (LOMR) Submittal to officially revise the FEMA floodplain maps.

I suggest breaking the detailed floodplain analysis and FEMA submittal into a separate phase because there are a lot of "extra" costs detailing and documenting the analysis and resulting floodplain mapping to the level required for submittal and approval by FEMA. If the phase one results do not indicate the changes to the floodplain are significant, the extra costs to prepare a FEMA submittal can be avoided.

It should also be noted that while I would make a case to FEMA that the LOMR submittal should be fee exempt based on the change only being done to improve upon the information shown on the existing map, if any modifications have been made in the channel/floodplain since the date of the effective modeling, FEMA may require a review fee which at this time would be \$8,000 for this type of map change request.

Here are my recommended budgeting costs,

Phase 1 - Hydrologic Analysis Update and Preliminary Floodplain Mapping Comparison: \$15,000 - \$20,000
Phase 2 - Detailed Floodplain Analysis and FEMA LOMR Submittal: \$35,000 - \$40,000
FEMA LOMR Review Fee: \$0 - \$8,000

Please let me know if you have any questions or if you would like something more formal from me.

Thank you.

Brad Woznak, PE,PH,CFM | Senior Professional Engineer
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From: "Lynn Reinhardt" <lynn@bankofalma.net>
To: <bwoznak@sehinc.com>
Date: 07/07/2016 02:58 PM
Subject: Watson

Brad,

Please find attached the letter we discussed.

Bill

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