Item 5A..
Supplemental Info
BCWMC 8-20-20

Julie Benadum

From: Sarah Stratton <SStratton@barr.com>
Sent: Friday, July 24, 2020 8:23 AM
To: Julie Benadum; MacIntyre, Kelly E.
Cc: Jim Herbert; 23271820 Irving Ave Sanitary Sewer - Bassett Creek Floodplain Modeling
Subject: RE: Irving Ave Sanitary Project - model analysis results

Here you go:

	Velocity (fps)	Flow Depth (ft)	Flow (cfs)
2-year	7.2	3.4	420.8
10-year	8.6	4.2	683.4
100-year	5.2	7.4	1400

Sarah Stratton, CFM

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From: Julie Benadum <JBenadum@brwncald.com>
Sent: Friday, July 24, 2020 8:06 AM
To: MacIntyre, Kelly E. <Kelly.MacIntyre@minneapolismn.gov>; Sarah Stratton <SStratton@barr.com>
Cc: Jim Herbert <JHerbert@barr.com>; 23271820 Irving Ave Sanitary Sewer - Bassett Creek Floodplain Modeling <23271820IrvingAveSanitarySewer-BassettCreekFloodplainMo@barr.com>
Subject: RE: [EXTERNAL] Irving Ave Sanitary Project - model analysis results

Sarah-
Could you please provide the updated corresponding depth of flow?
Thank you!
Julie

From: MacIntyre, Kelly E. <Kelly.MacIntyre@minneapolismn.gov>
Sent: Friday, July 24, 2020 7:50 AM
To: Sarah Stratton <sstratton@barr.com>; Julie Benadum <JBenadum@brwncald.com>
Cc: Jim Herbert <JHerbert@barr.com>; 23271820 Irving Ave Sanitary Sewer - Bassett Creek Floodplain Modeling <23271820IrvingAveSanitarySewer-BassettCreekFloodplainMo@barr.com>
Subject: RE: [EXTERNAL] Irving Ave Sanitary Project - model analysis results

That's great news thanks.

From: Sarah Stratton <SStratton@barr.com>
Sent: Thursday, July 23, 2020 6:54 PM
To: MacIntyre, Kelly E. <Kelly.MacIntyre@minneapolismn.gov>; Julie Benadum <JBenadum@brwncald.com>
Cc: Jim Herbert <JHerbert@barr.com>; 23271820 Irving Ave Sanitary Sewer - Bassett Creek Floodplain Modeling <23271820IrvingAveSanitarySewer-BassettCreekFloodplainMo@barr.com>
Subject: [EXTERNAL] Irving Ave Sanitary Project - model analysis results

Kelly and Julie,

We have completed our analysis and here is the summary of results:

- Modeling indicates removing the Irving Avenue Bridge and associated abutments does not increase flood elevations for the 2-yr, 10-yr and 100-yr events
- Modeling indicates filling to 802.6 ft NAVD88 (per the extent shown on the attached figure) to increase cover will not increase flood elevations for the 2-yr, 10-yr and 100-yr events
- Modeling indicates a critical velocity of 8.6 ft/s in the project area based on the 10-yr event (which is the critical event)

Here is the updated velocity table based on the new model developed for this project analysis:

	Velocity (fps)	Flow (cfs)
2-year	7.2	420.8
10-year	8.6	683.4
100-year	5.2	1400

Jim and I discussed the results and he is aware of the model details and findings.

Call me if you have any questions.

Sarah

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