

Lastovka, David

From: Michael Seluga <SelugaM@neorsd.org>
Sent: Thursday, November 10, 2016 11:02 AM
To: Blank, Douglas
Cc: Mary Maciejowski; Lastovka, David; Schulz, Matthew; Doug Lopata; Andrea Remias; Robert Stoerke; Frederick Vincent; Baker, Brian; Link, Brian G
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Good Morning Doug,

NEORSD provides the following feedback on the CCG6A/CCG6B/FSMF projects.

We have no further comment on the Results of the Combined Conceptual Drainage Analysis. Individual project comments/feedback as follows:

- **CCG6A;** no further comment on drainage evaluation.
- **CCG6B;** as outlined in the conclusion of the Conceptual Drainage Analysis Memo, the CCG6B design-build team will perform its own final analysis and coordinate with NEORSD during the final design phase.
- **ODOT Full Service Maintenance Facility;** NEORSD requests a copy of the structural design drawings and support of excavation design to coordinate the connection of the proposed 48-inch Storm Sewer to the Morgana Run Culvert (which is 12-ft x 10.5-ft brick culvert).

Thanks,
Mike

Michael J. Seluga, P.E.
NEORSD
216-881-6600 x6431

From: Blank, Douglas [mailto:Dablank@mbakerintl.com]
Sent: Friday, September 30, 2016 10:02 AM
To: Michael Seluga <SelugaM@neorsd.org>
Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata <LopataD@neorsd.org>; Andrea Remias <RemiasA@neorsd.org>; Robert Stoerke <StoerkeR@neorsd.org>; Frederick Vincent <VincentF@neorsd.org>; Baker, Brian <BBaker@mbakerintl.com>
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

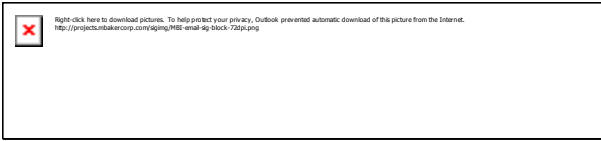
Mike,

Thank you for this confirmation regarding our calibrated model. Please see attached for revised modeling results for the combined CCG6A/CCG6B/FSMF project flows.

Please do not hesitate to contact us with any questions.

Thanks again,
Doug

Douglas A. Blank, P.E. | Project Manager | Michael Baker International
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dablank@mbakerintl.com | www.mbakintl.com



From: Michael Seluga [<mailto:SelugaM@neorsd.org>]

Sent: Friday, September 16, 2016 2:56 PM

To: Baker, Brian <BBaker@mbakerintl.com>

Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov;
Doug Lopata <LopataD@neorsd.org>; Andrea Remias <RemiasA@neorsd.org>; Robert Stoerkel

<StoerkelR@neorsd.org>; Frederick Vincent <VincentF@neorsd.org>; Blank, Douglas <Dablank@mbakerintl.com>

Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Brian,

Attached is a review of the model validation between ODOT SWMM model and District's Infoworks ICM model. Based on review the SWMM model is considered calibrated/validated.

Thanks,
Mike

Michael J. Seluga, P.E.
NEORS
216-881-6600 x6431

From: Baker, Brian [<mailto:BBaker@mbakerintl.com>]

Sent: Tuesday, August 23, 2016 3:24 PM

To: Michael Seluga

Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias;
Robert Stoerkel; Frederick Vincent; Blank, Douglas

Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Mike,

Attached is the spreadsheet with updated numbers from the PCSWMM model. Please let me know if you have any questions or need anything else.

Thanks,
Brian

From: Michael Seluga [<mailto:SelugaM@neorsd.org>]

Sent: Wednesday, August 17, 2016 3:35 PM

To: Baker, Brian <BBaker@mbakerintl.com>

Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov;
Doug Lopata <LopataD@neorsd.org>; Andrea Remias <RemiasA@neorsd.org>; Robert Stoerkel

<StoerkelR@neorsd.org>; Frederick Vincent <VincentF@neorsd.org>; Blank, Douglas <Dablank@mbakerintl.com>

Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Brian,

If your analysis show there is sufficient capacity, or negligible difference, in the 5-yr storm (and model calibrates/validates) there is no need to analyze the 1-yr storm for purpose of District review.

My guess is by re-running the model with true time-series inputs (vs. the conservative “baseflow” input used last time) you will be able to show no, or de minimus, impact to the peak flow and HGL in the system.

Thanks,
Mike

Michael J. Seluga, P.E.
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216-881-6600 x6431

From: Baker, Brian [<mailto:BBaker@mbakerintl.com>]
Sent: Wednesday, August 17, 2016 8:05 AM
To: Michael Seluga
Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias; Robert Stoerkel; Frederick Vincent; Blank, Douglas
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Mike,
The 1-year storm info is not needed for calibration purposes, but for analyzing the model in the 1-year storm conditions if that was still necessary. I told Doug that I didn’t have the 1-year model info because I know we analyzed the 1-year model in the past and wanted to make sure we had the correct info if we needed to analyze it again.

Let me know if you need anything else.

Thanks,
Brian

From: Michael Seluga [<mailto:SelugaM@neorsd.org>]
Sent: Tuesday, August 16, 2016 4:36 PM
To: Baker, Brian <BBaker@mbakerintl.com>
Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata <LopataD@neorsd.org>; Andrea Remias <RemiasA@neorsd.org>; Robert Stoerkel <StoerkelR@neorsd.org>; Frederick Vincent <VincentF@neorsd.org>; Blank, Douglas <Dablank@mbakerintl.com>
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Brian,

I received a voice mail on Friday from Doug Blank requesting the District provide (add) the 1-yr storm to the attached spreadsheet. The District is comfortable using only the 5yr storm values for the calibrations/verification purposes in the model. Please let me know if there is a specific reason you needed the 1-yr?

Thanks,
Mike

Michael J. Seluga, P.E.
NEORS
216-881-6600 x6431

From: Michael Seluga
Sent: Wednesday, June 22, 2016 12:59 AM
To: Douglas Blank
Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias; Brian

Baker; Greg Link , PE, CFM; Robert Stoerkel; Frederick Vincent
Subject: Fwd: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Doug,

Attached is the updated spreadsheet for model validation I referenced in my previous email. Please note this includes time series data for additional model nodes based on what you provided with your validation spreadsheet. Please note this model node data should not be relocated within the model. They must be loaded at the identified node IDs. Please let me know if there are any questions.

thanks,

Mike Seluga
NEORS
216.881.6600

Sent from my iPad

Begin forwarded message:

From: Blank, Douglas [<mailto:Dablank@mbakerintl.com>]
Sent: Tuesday, June 14, 2016 5:49 PM
To: Michael Seluga
Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias; Baker, Brian; Link, Greg; Robert Stoerkel; Frederick Vincent
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Mike,

Thank you for the reply below and for confirming the intent of the Morgana Run culvert size.

Please see attached for an excel sheet with our SWMM data for the calibration. The flow data used in our model were the 5 year, 6-hour time series sent by Greg Link for the 4 nodes S01A, S84A, TA00049, and S1B, and any baseflow already in the model, except for those taken out because they were upstream of the time series and we didn't want to double dip. We ran the model for the time length of the time series which is from 5/10/1999 18:00 to 5/11/1999 16:00.

Once your team has an opportunity to take a look at the data, we are happy to set up a call to discuss any of this in further detail.

In response to your additional questions:

- Please proceed with ODOT Maintenance Facility detention facilities hydrograph comparison (existing vs. proposed).

ODOT maintenance facility should evaluate the proposed storm basins as well as existing storm basin (it is recommended to complete this combined in one model).

If possible, it is recommended that the ODOT calculated peak flows are not added to the SWMM model as “base flow”, this eliminates the possible changes to the peak’s timing due to any Tc revisions from water quality or detention.

- Preliminary indications are that the existing and proposed hydrographs are significantly different. Therefore, we are likely going to run the existing flow as base flow in both the existing and proposed condition (to be conservative – no reduction in existing flow is proposed in the proposed condition). The proposed Maintenance Facility flow will likely be modeled using a time series rather than “base flow.”
- Is there any water quality/detention facilities in CCG6A or CCG6B?
 - Yes, these projects will conform to the requirements of ODOT’s Location and Design Manual, Volume 2. Additionally, CCG6B’s project scope includes additional requirements encouraging the design build team to utilize sustainable BMPs rather than manufactured systems.

Don’t hesitate to call with any questions. Thank you for the continued coordination.

Doug

Douglas A. Blank, P.E. | Project Manager | Michael Baker International
1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O] 216-776-6604 | [M]
216-536-1857
dablank@mbakerintl.com | www.mbakertnl.com



From: Michael Seluga [<mailto:SelugaM@neorsd.org>]
Sent: Tuesday, May 31, 2016 1:44 PM
To: Blank, Douglas <Dablank@mbakerintl.com>
Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>;
Dave.Lastovka@dot.ohio.gov; Matthew.Schulz@dot.ohio.gov; Doug Lopata
<LopataD@neorsd.org>; Andrea Remias <RemiasA@neorsd.org>; Baker, Brian
<BBaker@mbakerintl.com>; Link, Greg <GLINK@WadeTrim.com>; Robert
Stoerkel <StoerkelR@neorsd.org>; Frederick Vincent <VincentF@neorsd.org>
Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Good Morning Doug,

The Sewer District's modeling team found there is not a 1-ft diameter pipe on the Morgana Run Culvert as referenced in the email chain below. Please see the attached map that identifies the pipe segment dimensions from our InfoWorks ICM model for your team to compare to the ODOT SWMM model.

The outgoing conduit (RA00019.1) is a non-standard rectangular shape (102" x 144"). It's possible the conversion process from ICM to SWMM incorrectly translated 144" into 12" since (144 inches = 12 ft). Therefore, as discussed in our coordination meeting on 5/26 it is recommended that the existing conditions SWMM model complete a "validation" prior to its use for design evaluation. It is recommended you provide the peak flow and HGL output for 6 to 10 nodes split between CSO-039 & 036 from the exist SWMM model (combination of upstream and downstream of ODOT connection) as well as peak discharge at CSO-039 & CSO-036 in a table. The Sewer District will then have our modeling team provide the InfoWorks ICM data for the corresponding nodes as a simple "validation" approach.

Few other questions/comments:

- Please proceed with ODOT Maintenance Facility detention facilities hydrograph comparison (existing vs. proposed).

- ODOT maintenance facility should evaluate the proposed storm basins as well as existing storm basin (it is recommended to complete this combined in one model).
- Is there any water quality/detention facilities in CCG6A or CCG6B?
- If possible, it is recommended that the ODOT calculated peak flows are not added to the SWMM model as “base flow”, this eliminates the possible changes to the peak’s timing due to any Tc revisions from water quality or detention.

Lastly based on the discussion with the Sewer District’s modeling team it is my understanding that the CSO regulators were not included in the SWMM model output. Therefore, please update “Conclusions – CCG6A/CCG6B Combined Flows” section in the memo (Page 3) to remove the comment *“The proposed flows will not increase the volume, frequency, duration, or rate of combined sewer overflow (CSO) for the S-84A or S-01A CSOs. They both remain at zero overflows for both the 1-year and 5-year storm events”*. The SWMM model your team is using cannot determine this since the regulators are not in the model.

I am happy to discuss/clarify comments and model validation further with someone on your modeling team if they want to call.

Best,

Mike

Michael J. Seluga, P.E.

NEORS

216-881-6600 x6431

-----Original Message-----

From: Blank, Douglas [\[mailto:Dablank@mbakerintl.com\]](mailto:Dablank@mbakerintl.com)

Sent: Thursday, May 26, 2016 6:43 PM

To: Michael Seluga; Link, Greg

Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov;

Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias; Baker, Brian

Subject: RE: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Mike & Greg,

We appreciate your time in looking into this issue. For clarification of the exact portion of the model in question, please see PDF pages 17-19 from our attached December 2015 preliminary modeling report where we indicated the portion of the SWMMM model Baker manipulated to match the model culvert dimensions to record information. This was prior to correspondence last month where it was determined that the 1' pipe is an artificially imposed size used during model calibration to simulate flow conditions, not an error in the model.

Please don't hesitate to call me with any questions.

Thanks again,

Doug

Douglas A. Blank, P.E. | Project Manager | Michael Baker International

1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O] 216-776-6604 | [M] 216-536-1857 dablank@mbakerintl.com | www.mbakerintl.com

-----Original Message-----

From: Michael Seluga [<mailto:SelugaM@neorsd.org>]

Sent: Thursday, May 26, 2016 4:07 PM

To: Link, Greg <GLINK@WadeTrim.com>

Cc: Mary Maciejowski <MaciejowskiM@neorsd.org>;
Dave.Lastovka@dot.ohio.gov; Blank, Douglas <Dablank@mbakerintl.com>;
Matthew.Schulz@dot.ohio.gov; Doug Lopata <LopataD@neorsd.org>; Andrea
Remias <RemiasA@neorsd.org>

Subject: Re: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

Hi Greg,

Thank you for the time on the phone this afternoon. As discussed we are questions a 1-ft pipe diameter (sorry for reference to segment/length in my email). The model nodes are referenced in the email chain below from October 23, 2015. Thanks again for your help on this.

Talk to you soon,

Mike

Mike Seluga

NEORS

216.881.6600

Sent from my iPad

> On May 26, 2016, at 3:37 PM, Link, Greg <GLINK@WadeTrim.com> wrote:

>

> Mike,

> I tried calling you, but left a voice message. Can you send me the model element ID that you are referring to? I checked both Southerly baseline and CD master models and could not find a single conduit element in either model scenarios that equals 1 ft, regardless of location.

>

> Greg A. Link, PE, CFM

> 1100 Superior Avenue East, Suite 1710, Cleveland, Ohio 44114

> 216.363.0300 office | 216.346.6468 cell | 216.363.0303 fax

>

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Architecture | Operations | Planning | Sciences | Surveying

>

> From: Michael Seluga [mailto:SelugaM@neorsd.org]

> Sent: Thursday, May 26, 2016 2:48 PM

> To: Link, Greg

> Cc: Mary Maciejowski; Dave.Lastovka@dot.ohio.gov; Blank, Douglas;

> Matthew.Schulz@dot.ohio.gov; Doug Lopata; Andrea Remias

> Subject: Re: ODOT/MBaker: CCG6B Info Request & ICM Model coordination

>

> Hi Greg,

>

> Will you please give me a call to discuss the Morgana Run culvert model set-up. I would like to get some clarification of the 1-ft pipe segment in the model on the portion of the Morgana run culvert d/s of I-77 crossing.

>

> [image1.PNG]

>

> Thanks,

> Mike

> Mike Seluga

> NEORSD

> 216.881.6600

>

> Sent from my iPad

>

> On May 26, 2016, at 2:32 PM, Blank, Douglas
<Dablank@mbakerintl.com<mailto:Dablank@mbakerintl.com>> wrote:

> Mike & Mary,
>
> As discussed at today's meeting.
>
> Thank you,
> Doug
>
> Douglas A. Blank, P.E. | Project Manager | Michael Baker International
> 1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O]
> 216-776-6604 | [M] 216-536-1857
> dablank@mbakerintl.com<mailto:dablank@mbakerintl.com> |
> www.mbakerial.com<http://www.mbakerial.com/>
> [<http://projects.mbakercorp.com/sigimg/MBI-email-sig-block-72dpi.png>]
>
>
>
>
>
> From: Link, Greg [mailto:GLINK@WadeTrim.com]
> Sent: Friday, October 23, 2015 1:40 PM
> To: Blank, Douglas
> <Dablank@mbakerintl.com<mailto:Dablank@mbakerintl.com>>; 'Devona
> Marshall' <MarshallD@neorsd.org<mailto:MarshallD@neorsd.org>>
> Cc: Mary Maciejowski
> <MaciejowskiM@neorsd.org<mailto:MaciejowskiM@neorsd.org>>;
> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;
> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>;

> Andrea Remias <RemiasA@neorsd.org<mailto:RemiasA@neorsd.org>>;
Baker,

> Brian <BBaker@mbakerintl.com<mailto:BBaker@mbakerintl.com>>

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Doug,

>

> Yes, the SWMM version and the District's master model in ICM are essentially the same hydraulically. The representations of the overflow/storm sewers in the model were not the main focus of the original model development and therefore a lower level of effort was invested in representing these in the model.

> These models normally haven't been used to evaluate sewer performance of these sections if the model-estimated flooding did not impact CSO control at upstream regulators. With that said, the District would definitely be interested in updating their models if more reliable information like drawings/surveys are available.

>

> Greg A. Link, PE, CFM

> 1100 Superior Avenue East, Suite 1710, Cleveland, Ohio 44114

> 216.363.0300 office | 216.346.6468 cell | 216.363.0303 fax

>

> Engineering | Landscape
Architecture | Operations | Planning | Sciences | Surveying

>

> From: Blank, Douglas [mailto:Dablank@mbakerintl.com]

> Sent: Friday, October 23, 2015 10:23 AM

> To: Link, Greg; 'Devona Marshall'

> Cc: Mary Maciejowski;

> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;

> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>;

> Andrea Remias; Baker, Brian

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Devona and Greg,

>

> Thanks again for all the coordination on ODOT's Broadway Bridge (CCG6B) project. We are finishing our analysis, and an apparent inconsistency of the model emerged. At the southern end of our analysis (I-77 near Morgana Run trail), ODOT's I-77 trunk line outlets into node S1B, which is a 5 foot diameter pipe, and eventually outlets into a 1 foot diameter pipe at node RA00019 in the model. Does your version of the model show this apparent dramatic pipe downsizing, or is this an issue with our model? Not surprisingly, there is flooding in the model at this node.

>

> We would appreciate any confirmation or additional information you could provide.

>

> Thank you,

> Doug

>

> Douglas A. Blank, P.E. | Michael Baker International

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> www.mbakerial.com<<http://www.mbakerial.com>>

>

>

>

> From: Blank, Douglas

> Sent: Friday, August 21, 2015 11:56 AM

> To: Link, Greg; 'Devona Marshall'

> Cc: Mary Maciejowski;

> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;

> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>;

> Andrea Remias; Baker, Brian

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Devona & Greg,

>

> Please see below for the pipe IDs for which hydrographs (1-yr and 5-yr) are requested.

>

> In response to Devona's question regarding schedule, we would appreciate the hydrographs information by mid-October (8 weeks from now). Please advise if this is not realistic.

>

> Thanks again, and please let us know if you have any additional questions.

> Doug

>

> Douglas A. Blank, P.E. | Michael Baker International

> 1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O]

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> dablank@mbakerintl.com<mailto:dablank@mbakerintl.com> |

> www.mbakerintl.com<http://www.mbakerintl.com/>

>

>

> List of Pipes:

> TA00049.1
> TA00050.1
> TA00045.1
> TA00040.1
> TA00035.1
> SCA0030.1
> S84A.1
> DN_S84A.1
> SCA0020.1
> SCA0015.1
> S84A.2
> SS6WF .1
> SAY0030.1
> S01A.1
> DN-S01A.1
> SAY0020.1
> SAY0015.1
> S1AWF.1
> S01A.2
> S1W.1
> S1B.1
> S1C.1
> S1D.1
>
>
> From: Link, Greg [mailto:GLINK@WadeTrim.com]

> Sent: Wednesday, August 19, 2015 2:19 PM

> To: 'Devona Marshall'; Blank, Douglas

> Cc: Mary Maciejowski;

> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;

> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>;

> Andrea Remias

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Can you provide a list of pipe ids that you want flow timeseries instead of nodes? It's not clear if you want the influent or exiting sewer(s) with respect to the listed nodes. A node/manhole could potentially have multiple influent sewers and/or existing sewers. Thanks in advance for the clarification.

>

> Greg A. Link, PE, CFM

> 1100 Superior Avenue East, Suite 1710, Cleveland, Ohio 44114

> 216.363.0300 office | 216.346.6468 cell | 216.363.0303 fax

>

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Architecture | Operations | Planning | Sciences | Surveying

>

> From: Devona Marshall [mailto:MarshallD@neorsd.org]

> Sent: Wednesday, August 19, 2015 11:50 AM

> To: 'Blank, Douglas'

> Cc: Mary Maciejowski;

> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;

> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>; Link,

> Greg; Andrea Remias

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Doug,

>

> For purposes of prioritizing work on our end, please provide the timeframe in which the information being requested is needed.

>

> Thanks.

> Devona

>

> From: Blank, Douglas [mailto:Dablank@mbakerintl.com]

> Sent: Wednesday, August 19, 2015 9:01 AM

> To: Devona Marshall

> Cc: Mary Maciejowski;

> Dave.Lastovka@dot.ohio.gov<mailto:Dave.Lastovka@dot.ohio.gov>;

> Matthew.Schulz@dot.ohio.gov<mailto:Matthew.Schulz@dot.ohio.gov>

> Subject: RE: ODOT/MBaker: CCG6B Info Request

>

> Devona,

>

> Please see below for the list of sewer node IDs for which Baker is requesting hydrographs (1-yr and 5-yr).

>

> We appreciate your continued coordination. Please let me know if you or your modeling team has any questions.

>

> TA00049

> S84A

> DN_S84A

> SS6WF

> S01A

> DN-S01A

> S1AWF

> TA00045

> S1B

> SCA0020

> SCA0015

> SAY0020

> SAY0015

> TA00040

> TA00035

> S1C

> S1D

>

> Thanks again,

> Doug

>

> Douglas A. Blank, P.E. | Michael Baker International

> 1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O]

> 216-776-6604 | [M] 216-536-1857

> dablank@mbakerintl.com<<mailto:dablank@mbakerintl.com>> |

> www.mbakerial.com<<http://www.mbakerial.com>/>

>

>

> From: Devona Marshall [mailto:MarshallD@neorsd.org]

> Sent: Tuesday, August 04, 2015 12:33 PM

> To: Blank, Douglas

> Cc: Mary Maciejowski

> Subject: ODOT/MBaker: CCG6B Info Request

>

> Hi Doug,

>

> Per my voicemail, the District is proposing providing ODOT/MBaker with timeseries hydrographs (1-yr and 5-yr) for select pipes. These hydrographs can then be loaded into your project model to simulate and no hydrology will need to be processed on your end. In order to do this, ODOT/MBaker needs to provide a list of the modeled pipe ids along the edges of your project area for which you want timeseries hydrographs. Note that model-estimated flows for events greater than the 5-yr, 6-hr are expected to be over-predicted compared to reality due to model resolution which doesn't adequately reflect catch basin inlet restriction and non-modeled local sewer capacity limitations therefore we only proposing providing the information for the 1-year and 5-year storms.

>

> If you have any questions and/or concerns, please let me know. Once we receive the requested pipe ids, we will proceed on providing the hydrographs.

>

> Thanks.

> Devona

>

>

> From: Blank, Douglas [mailto:Dablank@mbakerintl.com]

> Sent: Thursday, July 09, 2015 2:10 PM

> To: Devona Marshall

> Cc: Mary Maciejowski; Baker, Brian

> Subject: FW: CCG6B Info

>

> Hi Devona,

>

> I just left you a lengthy voicemail message. This morning, Mary Maciejowski and I discussed that it might be best for me to coordinate with you regarding our modeling efforts on CCG6B (Broadway Bridge over I-77). I'm forwarding you a copy of the latest correspondence. I am also including a snapshot of our preliminary drainage design PDF just to give you an idea of our project limits and scope.

>

> I would appreciate the opportunity to discuss with you at your earliest convenience.

>

> Thanks,

> Doug

>

> Douglas A. Blank, P.E. | Michael Baker International

> 1228 Euclid Avenue, Suite 1050 | Cleveland, OH 44115 | [O]

> 216-776-6604 | [M] 216-536-1857

> dablank@mbakerintl.com<<mailto:dablank@mbakerintl.com>> |

> www.mbakerial.com<<http://www.mbakerial.com>/>

> <image001.jpg><image002.jpg>

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>

> From: Baker, Brian

> Sent: Wednesday, June 24, 2015 11:05 AM

> To: Mary Maciejowski

> Cc: Blank, Douglas; Ciucci, Ron

> Subject: RE: CCG6B Info

>

> Hi Mary,

> The reason I asked for the HGL information is because I'm having issues with flooding with the model I'm running. I was just trying to test the system with the 1 month-6 hour storm event and I was getting flooding throughout the system which did not seem like it should happen. The attached image indicates which nodes were experiencing flooding during this test. I'm not sure if there was an issue with the conversion from InfoWorks over to SWMM but I was hoping you could tell me if this is an issue that happens in your model?

>

> If it's not an issue your model indicates, it might make more sense for you to run your model instead. Attached is the PCSWMM file and data that I've been using if that would help.

>

> If my model seems ok, it would be great if I could get the information by the end of next week (7/3). If you have a report of the results from your model including the HGL elevations, flows, surcharge depths, etc. that would very helpful when trying to find issues with my model.

>

> Please let me know if you have any questions.

>

> Thanks,

> Brian

>

>

> Brian P. Baker | Civil Engineer | Michael Baker International

> 100 Airside Drive | Moon Twp., PA 15108 | [O] 412-269-6031

> bbaker@mbakerintl.com<<mailto:bbaker@mbakerintl.com>> |

> www.mbakerial.com<<http://www.mbakerial.com>>

> <image003.png>

>

>

>

>

> From: Mary Maciejowski [mailto:MaciejowskiM@neorsd.org]

> Sent: Wednesday, June 24, 2015 10:03 AM

> To: Baker, Brian

> Subject: RE: CCG6B Info

>

> How soon do you need this?

>

> Mary Maciejowski

> Community Discharge Permit Program Manager Northeast Ohio Regional

> Sewer District Watershed Programs

> 3900 Euclid Avenue

> Cleveland, Ohio 44115

> 216.881.6600, ext. 6466

> maciejowskim@neorsd.org<<mailto:maciejowskim@neorsd.org>>

>

> <image004.jpg>

>

> From: Baker, Brian [mailto:BBaker@mbakerial.com]

> Sent: Tuesday, June 23, 2015 4:39 PM

> To: Mary Maciejowski

> Subject: RE: CCG6B Info

>

> I just need the precipitation files so that I can run it with those events.

>

> Thanks,

> Brian

>

> From: Mary Maciejowski [mailto:MaciejowskiM@neorsd.org]

> Sent: Tuesday, June 23, 2015 4:36 PM

> To: Baker, Brian

> Subject: RE: CCG6B Info

>

> Just a point of clarification... Are you asking us to run the model for the 10 and 25 year storms or are you asking for precipitation files for those events so that YOU can run the model? Also, if you want us to do it, how soon would you need this? We have a lot of work going on right now related to the model and would need to juggle priorities.

>

> Mary Maciejowski

> Community Discharge Permit Program Manager Northeast Ohio Regional

> Sewer District Watershed Programs

> 3900 Euclid Avenue

> Cleveland, Ohio 44115

> 216.881.6600, ext. 6466

> maciejowskim@neorsd.org<mailto:maciejowskim@neorsd.org>

>

> <image004.jpg>

>

> From: Baker, Brian [mailto:BBaker@mbakerintl.com]

> Sent: Tuesday, June 23, 2015 1:55 PM

> To: Mary Maciejowski

> Cc: Ciucci, Ron; Blank, Douglas

> Subject: RE: CCG6B Info

>

> Hi Mary,

> I had a couple of questions I was hoping you could help me with:

>

>

> 1.) Is there any way to get data regarding HGL elevations for either a design storm or the typical year for various nodes throughout the system so that when I run the base model (no additional loads) I can check to make sure my model matches the expected results of their model? Any nodes around the project area would be helpful.

>

> 2.) Can you send me the design storm data for the 10 and 25 year storms? I need analyze the whole system with those events for it to make sense with me adding the 10 and 25 year flows.

>

> Thanks,

> Brian

>

> _____

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> <image001.png>

<SWMM Node Data for Calibration_revPSS.xlsx>