

MEMORANDUM

DATE: November 21, 2013

TO: Brian Dissette, City of South Haven
Roger Huff, City of South Haven
Amanda Morgan, City of South Haven

FROM: Christopher J. Cook, PE, Abonmarche

CC: Cindy Clendenon, MDEQ
Marcus Tironi, MDEQ
Timothy R. Drews, P.E., PTOE, Abonmarche
Tony McGhee, Abonmarche
Daniel A. Dombos, PE Abonmarche

RE: City of South Haven – Sewer Study Progress Report

The following will summarize our progress to-date on the City of South Haven Sewer Study. The only item remaining for completion at this time is the Project Plan:

UTILITY MAPPING

We have completed this work. This task entailed compiling City record drawings, maps and field data into a comprehensive sanitary sewer system map. We added data fields such as reference drawing; installation/rehabilitation date; and length, material and slope of pipe. We converted city GIS information into AutoCAD for presentation, modeling, field investigation and study purposes.

FIELD INVESTIGATION AND DATA REVIEW

We have completed field work on the sewer lines to determine the size and slope of key runs and mapping that information for the modeling effort.

COMPUTER MODELING AND FLOW MONITORING

Metering and modeling has been completed. The results predict the system response at key points during certain large scale wet weather events (25 year, 24 hour storm).

SMOKE TESTING

The smoke testing work is complete. Most recently, we discovered connections to a few roof drains in the downtown business district as well as some residential connections north of the Black River. We also witnessed smoke coming from catch basins at the northeast, northwest and southeast corners of the intersection of Dyckman Avenue and Black River Street. CCTV inspection in this area revealed a number of structural sewer concerns including collapsed pipe and undermining beneath Dyckman Avenue. No direct pipe connections were observed during the CCTV work. We suspect these cross-connections may be a result of the structural defects and undermining present in this area. The Dyckman area has been added to the priority projects identified in the Project Plan.

SEWER TELEVISION

The originally planned work has been completed. We have reviewed the results and prepared a summary of the findings for inclusion in the SRF Project Plan. Additional inspection of the Peterson Ravine Sewer between Clinton Street (SMH 344) and La Grange Street (SMH 443) was determined to be not warranted. However, based upon recent requests for service and maintenance issues along North Shore Drive, we completed CCTV work along North Shore Drive. We are awaiting the results but our expectation is that this will show sewer structural defects to be addressed.

SRF PROJECT PLAN

We are roughly 95% complete with this task. We reviewed the draft plan with the BPU in October and have since prepared the plan to "Approvable Form" for inclusion with the SAW Application. A draft of the Project Plan is to DEQ for review at this time. It is expected that the final plan will be reviewed at a Public Hearing in January and submitted to DEQ in the spring of 2014.

