

**CITY OF WAUKESHA****Administration**

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<b>Committee:</b> Board of Public Works	<b>Date:</b> 10/6/2016
<b>Common Council Item Number:</b> ID #16-1514	<b>Date:</b> 10/18/2016
<b>Submitted By:</b> Fred Abadi, Director of Public Works	<b>City Administrator Approval:</b> Kevin Lahner, City Administrator
<b>Finance Department Review:</b> Rich Abbott, Finance Director <b>RA</b>	<b>City Attorney's Office Review:</b> Brian Running, City Attorney <b>BR</b>
<b>Subject:</b> Review and act on Change Order #1 with CH2M Hill Engineers, Inc., for E. Moreland Blvd. Odor Control Study	

**Details:**

CH2M Hill was retained earlier in 2016 to conduct a study and provide a recommendation to resolve the odor issues that are present on a section of E Moreland Blvd. CH2M presented preliminary results from the study to the City on September 1, 2016. One of the alternatives presented recommended changing the force main discharge location to shorten the length of the 6,500 foot force main. The two discharge locations proposed are located on Saratoga Road (1,700 foot force main) and Butler Drive (2,600 foot force main) which is tributary to a sewer along Greenway Terrace. Portions of the existing gravity sewer that will receive wastewater from the new force main discharge location will need to be enlarged to accommodate the additional flow. The City has requested odor modeling of the two options including the force main and downstream gravity sewer to assess sulfide generation and odor impacts. The modeling will also provide an estimate of the calcium nitrate dose needed to further mitigate sulfide generation in the force main, if needed. This is necessary to ensure the odor complaints currently present on E. Moreland Blvd are not transferred to the area surrounding the new discharge location.

**Options & Alternatives:**

The additional work could be denied. However, without modeling, there is no way to effectively predict if the relocated force main discharge point will cause odor complaints along the new discharge sewer route and no method to determine the means to reduce the potential odor generated.

**Financial Remarks:**

Contract Change Order #1 – Total Expense: \$4,500.00  
Account 7380.52135 - Consulting

**Executive Recommendation:**

Recommend approval of Change Order #1 with CH2M Hill Engineers, Inc., for E. Moreland Blvd. Odor Control Study

