



**CITY OF WAUKESHA**

**Administration**

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<b>Committee:</b> Board of Public Works	<b>Date:</b> 4/20/2017
<b>Common Council Item Number:</b> ID 17-0617	<b>Date:</b> 5/2/2017
<b>Submitted By:</b> Fred Abadi, Director of Public Works	<b>City Administrator Approval:</b> Kevin Lahner, City Administrator <b>KL</b>
<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> Discussion and approval of the conversion of the City's pavement management program from GBA Master Series (Lucity) to VUEWorks Asset Management through a service contract with DTS and amend the CIP to spend the funds remaining from the original VUEWorks project.	

**Details:** Several years ago, the Common Council approved the selection of VUEWorks as the software for the City's asset management program and since then, the City has been using VUEWorks to manage many of its assets (buildings, street signs, storm sewer, sanitary sewer, storm water BMPs, water mains and hydrants, city-owned trees and more). The one asset type that the City had already been managing in an asset management system was its pavement.

Using a software program called GBA Master Series, the City maintains a database of every street segment in the City, its current pavement rating, and a history of every inspection that was done on each segment. This data allows the City to generate condition ratings (Pavement Rating Index or PCI), to prioritize the rehabilitation and reconstruction of the City streets, and to develop long-range plans for street maintenance.

It was expected that the City would migrate its pavement program to VUEWorks, but back when the initial implementation of VUEWorks was being conducted, the existing functionality with VUEWorks as it relates to pavement management was not fully developed. As a result, and because staff had a pre-existing familiarity with GBA, the decision was made to delay the conversion to VUEWorks.

VUEWorks has since been bought out by an engineering firm called DTSGIS, a firm which specializes in pavement inspection and management. Since DTS has owned VUEWorks, they have invested heavily in improving VUEWorks' ability to manage pavement assets. As a result, VUEworks is now superior to GBA in its ability to manage pavement.

DTS also specializes in the collection of pavement condition information using vehicles equipped with cameras and sensory equipment. This method of data collection means that pavement condition data can be collected faster, better (GBA's collection method is subjective, dependent upon the interpretation of the individual conducting the inspection) and potentially much cheaper than the past methods utilized with GBA. Switching to VUEWorks means potential savings on every year's pavement inspection.



**Options & Alternatives:** There are two options available to the City: convert the pavement data from GBA to VUEWorks and complete the consolidation of the City's asset management program to a single platform, OR continue to manage pavement in GBA.

Option 1: Convert to VUEWorks - Converting to VUEWorks has several benefits. First, moving pavement to VUEWorks would mean that all of the City's assets would be managed in a single software, which would save on maintenance costs (GBA maintenance is over \$3,500 each year; there would be no additional maintenance costs to switch to VUEWorks) and on the time and effort needed to maintain additional software. All staff would be trained on the same software, leading to greater efficiencies and greater ability for collaboration. In addition, having all assets in one software would allow for the comprehensive management of multiple asset types. For example, when studying alternatives for reconstructing a street, the software could take other assets such as sanitary sewer, storm sewer, lighting, traffic signals and water into consideration.

VUEWorks can do everything that GBA did, and in some regards it can do it better. The user interface is more intuitive and is familiar to staff who are already familiar with it as the City's asset management software. VUEWorks also manages pavement assets in a more streamline fashion, meaning there is less overhead involved in managing pavement.

There are additional one-time costs for conversion however. All of the data collected about the City's pavement, including past inspection records, collected in the past and stored in the GBA database would need to be converted and integrated into VUEWorks. The estimated costs for conversion and integration to VUEWorks is \$22,000.

Option 2: Remain in GBA

Remaining in GBA means paying the annual maintenance cost of over \$3,500 each year.

Aside from the costs, GBA's software is not as intuitive, requires more tools and specialized knowledge to maintain pavement, and utilizes out-dated and less powerful technology. Significant time and effort will be required to upgrade the software. In addition, while VUEWorks uses SQL Server as its database platform, GBA's database is limited to Microsoft Access.

**Financial Remarks:**

Option 1: \$22,000 for data conversion, implementation. Save \$3,575.28 per year in GBA maintenance costs.

Option 2: Continue paying \$3,575.28 in additional yearly maintenance. This maintenance expense increases yearly.

The funds for option 1 are available in 1914.68160 to complete the project, as the vueworks project had been closed out with remaining funds of \$24,154. The budget would be shifted to 1914.68160.81209 for tracking purposes which is where the original vueworks project was originally budgeted.

Total Expense: \$22,000

Acc# 1914.68160.81209 - \$22,000

**Executive Recommendation:**

Approve of converting the City's pavement management program from GBA Master Series (Lucity) to VUEWorks Asset Management through a service contract with DTS and amend the CIP to spend the funds remaining from the original VUEWorks project.