

## Q & A for Young Road Dyke Project

Question	Answer
What does the 2015 East Dyke (Young Road) upgrade project involve?	The 2015 East Dyke (Young Road) project will take place between Cartmell Road and Hope River Road. It involves raising the road by approximately 1 metre to meet provincial dyke standards. The road will be improved to include bike lanes on both sides, as per the City's Bicycle Transportation Plan.
Why build this dyke project now?	<p>The Young Road dyke project is a necessary part of planned improvements to our 50 km of dyke in order to meet the dyke standards set by the Provincial Government. Provincial legislation designates the City of Chilliwack as the local Dyking Authority responsible for the dyke system.</p> <p>The City has been upgrading the Fraser River dykes over the past number of years and has completed the portion between the Rosedale bridge and Young/Cartmell Road intersection. This has been a phased approach starting at the upstream end near the Rosedale bridge to provide the maximum flood protection possible to the community. The Young Road portion is the next section of dyke to be raised and has been the top priority dyke project for the past five years.</p> <p>This upgrade program is supported by the Provincial and Federal governments who each pay a third of the upgrade costs. The upgrade is required as a result of new Fraser River flood profile analysis completed by the Provincial Government.</p>
Who is protected by the dyke?	The Young Road dyke protects 40,000 residents and the entire downtown including the General Hospital. In addition to residences, businesses and key facilities, the dyke protects City water and sewer infrastructure as well as BC Hydro, Telus, CN Railway and Trans-Canada Highway. The potential losses resulting from a flood in Chilliwack would be extensive.
How does the Young Road dyke protect Chilliwack without the Town dyke being complete?	The Young Road dyke is the next portion of dyke to complete as improvements are made from upstream to downstream. In the event of a significant flood occurring before all dykes are raised the City would deploy emergency sandbags and/or gabions to provide protection. Every kilometer of dyke (including Young Road) raised to the provincial standard is one less kilometer of emergency work necessary.
Who is paying for this project?	The Young Road dyke is being funded 1/3 by each of the City of Chilliwack, Province of BC and Federal governments.
When will construction begin?	<p>The Contractor is expecting to commence road construction starting at the beginning of May and reaching substantial completion by September 2015. BC Hydro &amp; Telus are also in the process of confirming any overhead lines which need to be raised to accommodate the road construction.</p> <p>In mid-March, the Contractor will be contacting individual property owners to advise on vegetation removal planned on the road right of way adjacent to their property. This vegetation removal is being completed in advance to mitigate the potential disruption of nesting birds.</p>
What are the driveway impacts?	City staff and qualified engineering consultants have designed the Young Road dyke project with preliminary access solutions for each property. Martens Asphalt will incorporate the preliminary designs into their final designs and has also committed, as part of their proposal, to actively pursue solutions which offer the best driveway access possible. Prior to construction, driveway solutions will be discussed with each of the property owners.

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<p>What are the drainage impacts?</p>	<p>The project scope of work includes for additional storm sewer and catch basins to correct some of the pre-existing drainage concerns and to ensure that this project does not create any new drainage problems.</p>
<p>Can we leave Young Road low and rely on emergency measures?</p>	<p>Young Road is below the current flood level elevation and would require emergency dyke raising in the event of a flood threat. The population and infrastructure protected by this dyke is such that a permanent dyke solution is required to provide adequate protection.</p> <p>For over 100 years permanent dyke protection has consistently been selected over temporary measures. These historic decisions to build and systematically improve our dyke systems were based on the value of lives and infrastructure being protected. Today the analysis is no different; the dyke protects 40,000 people, important areas of the city, and extensive public infrastructure and buildings.</p> <p>Emergency type dyke raising would not provide the same level of robust flood protection provided by standard dykes. There are concerns that there will not be enough time to install the emergency barrier and even if it is in place it would not provide the same level of protection.</p>
<p>What is at risk if the Young Road dyke isn't raised?</p>	<p>Every section of dyke protects the adjacent area and everything downstream of it. The Young Road dyke offers protection to a large portion of the community, including 40,000 residents.</p> <p>The 2009 study by BGC Engineering estimated the potential damages and losses at over \$1 billion (based on \$475M building structure damage and \$520M of business losses), not including agricultural losses.</p>
<p>What is the point of raising one section of the dyke when other sections still require raising?</p>	<p>The dyke upgrades policy calls for phased upgrading of the dyke system as the City saves its local 1/3 of the funding and then applies for senior government funding assistance. This phased approach offers increased risk reduction over taking an "All or Nothing" approach because as the dyke is incrementally upgraded, less emergency flood protection measures are required. It would also not be possible to secure senior government funding for 2/3 of the entire dyke upgrades cost at one time because of the funding restrictions associated with their program.</p>
<p>Has the City investigated alternate alignments?</p>	<p>Staff met with representatives from alternative properties to discuss exploring alternative dyke alignments. The limited funding opportunities for dyke infrastructure and significant land acquisition requirements for a new dyke will make this a complex and lengthy process. Upgrading the Young Road dyke qualifies for immediate provincial-federal funding and also provides immediate, significant flood protection benefits.</p>
<p>Project Schedule Updates</p>	<p>The Contractor has recently delivered construction notices and made contact information available to affected residents to promote communication to reduce construction disruption and construction activity impacts.</p> <p>Field staff will be visiting each fronting property owner to make arrangements for access during construction and access improvement. Every effort will be made to accommodate the needs of property owners and reduce the impacts of the project.</p>