



March 22, 2018

Chad Siemens, PMP  
Regional Project Manager  
South Coast Region  
Ministry of Transportation and Infrastructure

Attention: Chad Siemens

Re: Highway 13 Clearing – Tree Assessment

Dear Chad,

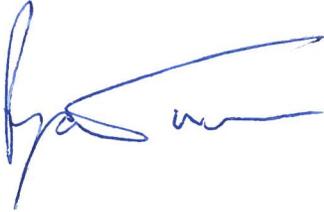
On March 6<sup>th</sup>, 2018, the Ministry of Transportation and Infrastructure (MOTI) requested the services of Chartwell Consultants Ltd. (CCL) to provide a tree volume and species estimates for the Highway 13 widening site from 0 Avenue to 8<sup>th</sup> Avenue in Langley, B.C. It is anticipated that the tree volume and species breakdown will be used as part of a tenure application and clearing contract language to facilitate tree cutting and/or transportation.

Ryan Turner of CCL was on site on March 20<sup>th</sup>, 2018 collecting pertinent tree data. While on site, advanced clearing was actively taking place on Drawing Number R1-852-107 and had already occurred on Drawing Number R1-852-106. While tree volumes from stumps was estimated where evident, only tree volumes for standing trees are included in the assessment numbers below. Standing trees exist across all Drawing Numbers (Appendix 1) of the project.

The estimated standing gross merchantable volume of timber within the clearing and grubbing limits of the site is approximately 177.5m<sup>3</sup> from 227 trees. The breakdown was 56% deciduous (100.1m<sup>3</sup> from 146 trees) and 44% coniferous (77.4m<sup>3</sup> from 81 trees). Dominant deciduous species by volume include 33% Red Alder, 12% Black Cottonwood, and 6% Maple. Average diameter and height of the dominant deciduous species is 37.4cm DBH and 18.3m tall and range from 18-80cm DBH and 5-28m tall. Dominant coniferous species by volume include 34% Douglas-fir and 5% Cedar. Average diameter and height of the dominant coniferous species is 41.8cm DBH and 17m tall and range from 20-85cm DBH and 5-31m tall. All other species that were present in relatively minor volumes (<5%) include; Pine, Cherry, Birch, Hemlock, Spruce, Willow, and Ash.

If you require any additional detail or have any questions regarding this tree assessment, please do not hesitate to contact me at 604.973.1132.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ryan Turner', with a long horizontal stroke extending to the right.

Ryan Turner, RPF, Certified Arborist, Certified Tree Risk Assessor  
Partner / Project Manager  
Chartwell Consultants Ltd.  
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