

YEAR 2019 CCIL CORRELATION

EXTRACTION AND GRADATION TEST (BC, MB, NB, NL, NS and SK)

One sample of hot mix asphalt identified as Material **EXT-(I,III,V)-(N)** and one sample of hot mix asphalt identified as Material **EXT-(II,IV,VI)-(N)** have been provided.

TESTING

On receipt of the Material **EXT-(I,III,V)-(N)** and Material **EXT-(II,IV,VI)-(N)** the two materials shall be tested (use complete sample) as per ASTM D2172 "Quantitative Extraction of Bitumen from Bituminous Paving Mixtures", using trichloroethylene or n-Propyl Bromide as solvent (**Note 1**). Sieve analysis of the resulting aggregate shall be carried out using ASTM D5444 "Mechanical Size Analysis of Extracted Aggregate".

Note 1: *All solvents are reported to be toxic to some extent. Attention should be paid to the safety precautions and the use of proper safety equipment such as gloves, goggles, respiration masks and fume hoods.*

The extracted aggregate shall be dried of all solvent, followed by water washing, drying and sieving. Laboratories shall report data calculated on the basis of total dried aggregate mass corrected for mineral fines in the extracts using in-house equipment.

The cumulative percentage of sample **passing** each of the required sieves shall be reported. The asphalt content for each sample shall be calculated and reported on the same form. The asphalt content shall be expressed as a mass percent of total mixture.

Note 2: *For Test Method A use only one bowl and its matching lid OR use Test Method B*

All test results shall be reported online and submitted by Friday **January 4 2019**.

Note 3: *For laboratories in British Columbia, if your laboratory does not use the 16.0 mm sieve, please do not enter zero in the online reporting form. Please cancel this sieve by clicking the box adjacent to the sieve in the reporting form.*

An example of a completed report form is shown on page 2.

Hard copies of the report forms and work sheets shall be submitted by **January 4 2019** by mail or courier to:

Nabil Kamel, M.A.Sc., P.Eng.
CCIL Program Manager
3410 South Service Road, Suite 104
Burlington, Ontario, L7N 3T2
Tel: 289-337-8888: Fax: 289-337-8889: email: nkamel@ccil.com

DO NOT send reports and worksheets by fax.

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Testing Admin Information

your assigned CCIL Lab No.:

BC99

• Lab Name (include Branch or Mobile #)	Apex Construction
• E-mail Address	ebstein@apex.com
• Reported by (Contact Name)	Frank Enstein
• Phone Number (Contact)	(999) 999-9999
• Tested by (Name(s))	I. M. Parker
• Results Reporting Date	January 4 2019

D2172 Extraction EXT-I and EXT-II

EXTRACTION and SIEVE ANALYSIS

Results for:	Material I		Material II	
Sample Number				
• %A.C.		5.03		5.26
% Passing Sieve, mm				
• 19.0		100.0		100.0
• 16.0				
BC only: Cancel sieve? <input type="checkbox"/>		100.0		100.0
• 13.2		97.6		98.1
• 9.5		84.7		83.2
• 4.75		63.6		59.8
• 2.36		52.1		49.0
• 1.18		43.7		41.3
• 0.600		33.7		32.1
• 0.300		20.6		19.5
• 0.150		8.3		8.6
• 0.075		3.2		4.2

Report which solvent used with check mark (X)

Trichloroethylene	X
n-propyl bromide	