

YEAR 2010 CCIL CORRELATION

EXTRACTION AND GRADATION TEST

One sample of hot mix asphalt identified as Material **(A-C-E)-EX-#** and one sample of hot mix asphalt identified as Material **(B-D-F)-EX- #** have been provided.

TESTING

On receipt of the Material **(A-C-E)-EX-#** and Material **(B-D-F)-EX- #** the two materials shall be tested (use complete sample) as per LS-282, Rev. No. 25, "Method of Test for Quantitative Extraction of Asphalt Cement and Analysis of Extracted Aggregate from Bituminous Paving Mixtures", using trichloroethylene as solvent (**Note 1**). Those laboratories equipped to carry out LS-291, Rev. No. 18, "Method of Test for Quantitative Extraction of Asphalt Cement and Mechanical Analysis of Extracted Aggregate from Bituminous Paving Mixtures - Ontario Procedure", are free to choose between the two methods. In either case specification of the method used is required.

Note 1:

A) Because Trichloroethylene is reported to be more toxic than the 1,1,1-Trichloroethane formerly used, attention should be paid to the safety precautions and the use of proper safety equipment such as gloves, goggles, respiration masks and fume hoods.

B) For the purpose of this and future CCIL correlation testing only Normal Propyl Bromide (nPB) shall be used by participating Ontario laboratories. As usual, attention should be paid to the safety precautions prescribed by the Supplier

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.

Note 2: Use only one bowl and its matching lid for all samples

All test results shall be reported by e-mail in the designated spaces on the (MS-Excel) Extraction Report form. Please use the appropriate form for the samples that were shipped to your laboratory.

The completed Extraction Report form shall be e-mailed to ibullen@ccil.com by Friday **January 8, 2009** (listed separately on CCIL Web Site). An example of a completed report form is shown on page 3-2.

Hard copies of the report forms and work sheets shall be submitted by **January 8, 2010** by mail or courier to:

Nabil Kamel, M.A.Sc., P.Eng.
CCIL Program Manager

YEAR 2010 CCIL CORRELATION

3166 Lakeshore Road

Burlington, Ontario, L7n 1A4

Tel: 905-632-6456: Fax: 905-632-1990: e-mail: nkamel@ccil.com

DO NOT send reports and worksheets by fax.

2010 CCIL CORRELATION – EXAMPLE REPORT EXTRACTION & GRADATION										
Testing Admin Information		Enter your assigned Lab Code No.:		175						
<ul style="list-style-type: none"> • Lab Name (include Branch or Mobile #) • E-mail Address • Reported by (Contact Name) • Phone Number (Contact) • Tested by (Name(s)) • Results Reporting Date 	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Apex Construction</td> </tr> <tr> <td style="padding: 2px;">enstein@apex.com</td> </tr> <tr> <td style="padding: 2px;">Frank Enstein</td> </tr> <tr> <td style="padding: 2px;">(999) 999-9999</td> </tr> <tr> <td style="padding: 2px;">I.M. Homely</td> </tr> <tr> <td style="padding: 2px;">January 8,2010</td> </tr> </table>				Apex Construction	enstein@apex.com	Frank Enstein	(999) 999-9999	I.M. Homely	January 8,2010
Apex Construction										
enstein@apex.com										
Frank Enstein										
(999) 999-9999										
I.M. Homely										
January 8,2010										
Extraction A-EX and B-EX										
EXTRACTION and SIEVE ANALYSIS										
Results for:	A-EX		B-EX							
Sample Number	x		y							
• %A.C.	5.03		5.26							
% Passing Sieve, mm										
• 19.0	100.0		100.0							
• 16.0	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							

Save as Extraction Report - Lab ### (where ### is your code number)