



# Englobe

## CONCRETE TEST REPORT

97 TROOP AVE., DARTMOUTH, N.S. B3B 2A7 - TEL (902) 468-6486 FAX 468-4919

### Client:

Nova Scotia Transportation & Infrastructure Renewal  
152 Oakmount Drive  
Bedford, N.S.  
B4W 2W2

Our Project No.:

02000061.009.0001.0001

Client Contract No.:

Client PO.:

Contractor:

CC:

Fax

Attn: Ray Daniels

Fax

Project: NSTIR - Beechville CNR Overpass (2020-021-1) (HFX185) - Concrete Testing

Email

Set No: 2		No. Of Specimens: 6		Date Cast: 20 May 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m <sup>3</sup>	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	21 May 2020	1	102		231	28.3	A	<input checked="" type="checkbox"/>
B	22 May 2020	2	102		315	38.5	A	<input checked="" type="checkbox"/>
C	22 May 2020	2	102		296	36.2	A	<input checked="" type="checkbox"/>
D	27 May 2020	7	102	2343	415	50.8	A	<input checked="" type="checkbox"/>
E	17 Jun 2020	28	102	2343	499	61.1	A	<input checked="" type="checkbox"/>
F	17 Jun 2020	28	102	2351	506	61.9	A	<input checked="" type="checkbox"/>

  

Specified Properties		Test Information		Sample pickup at Site :
Strength @28 days(MPa):	35	Conc Temp°C	18	Date : 21 May 2020
Slump (mm):	80 +/- 20	Slump (mm)	145/145	Time : 9:00
Air (%):	5 - 7	Air Temp°C :	13	Rec'd Sample at Lab :
Max Agg Size (mm):	20	Air(%):	4.5/6.2	Date : 21 May 2020
		Cast Time:	10:50	Time : 9:30
		Cast By:	MTL	
Supplier Information		Initial curing Temp (CSA: 15 - 25°C)		
Supplier:	OSCO	Minimum: 10.2 Maximum: 27.8		
Batch Time:	10:09	Initial Curing Conditions :		
Truck No.:	51705	Inside curing box		
Ticket No.:	4076047	Test samples cast in reusable hard plastic moulds.		
Strength Delivered:	35 (MPa)	Section: Joint and deck repairs.		
Mix No:	35201A10NR	Location: Both out and inbound inside lanes of bridge.		
Load Vol:	4.00 m <sup>3</sup>	Comments: BL - 1		
Cum Vol:	4.00 m <sup>3</sup>			
Additives:				
Heat	<input type="checkbox"/> Superplasticizer <input checked="" type="checkbox"/>			
Silica fume	<input type="checkbox"/> Flyash <input checked="" type="checkbox"/>			
Set Retarder	<input checked="" type="checkbox"/> Air Entrainment <input checked="" type="checkbox"/>			
Water Reducer	<input type="checkbox"/> Accelerators <input type="checkbox"/>			
H2O Added <input type="checkbox"/> Authorized B				

Standby:

0

Record No 51548

Englobe Tech: BL

PER

*Bl*



CSA CERTIFIED  
LABORATORY FOR TESTING

For testing conducted by this company, procedures are carried out in accordance with CSA-A23.2. Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on request.

N/A - Not Applicable or Not Available

Project manager : Peter Salah

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B4W 2W2

Our Project No.:

02000061.009.0001.0001

Client Contract No.:

Client PO.:

Contractor:

Wilcraft Concrete Services Ltd.

CC:

Fax

Attn: Ray Daniels

Fax

Project: NSTIR - Beechville CNR Overpass (2020-021-1) (HFX185) - Concrete Testing

Email

Set No: 6		No. Of Specimens: 8		Date Cast: 09 Jun 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m <sup>3</sup>	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	10 Jun 2020	1	102		221	27.0	A	<input checked="" type="checkbox"/>
B	11 Jun 2020	2	102	2317	262	32.1	A	<input checked="" type="checkbox"/>
C	12 Jun 2020	3	102	2317	273	33.4	A	<input checked="" type="checkbox"/>
D	16 Jun 2020	7	102	2317	345	42.2	A	<input checked="" type="checkbox"/>
E	07 Jul 2020	28	102	2307				<input checked="" type="checkbox"/>
F	07 Jul 2020	28	102	2302				<input checked="" type="checkbox"/>

  

Specified Properties		Test Information		Sample pickup at Site :	
Strength @28 days(MPa):	35	Conc Temp°C	20.5	Slump (mm)	110/110
Slump (mm):	125 +/- 25	Air Temp°C :	9	Air(%) :	4.4/5.8
Air (%):	5 - 7	Cast Time:	08:00	Cast By:	MTL
Max Agg Size (mm):	20	Initial curing Temp (CSA: 15 - 25° C)		Rec'd Sample at Lab :	
		Minimum: Maximum:		Date :	
Supplier Information		Initial Curing Conditions :		Time :	
Supplier: OSCO		Inside curing box		Date :	
Batch Time: 07:15		Test samples cast in reusable hard plastic moulds.		Time :	
Truck No.: 51705		Section: Bridge deck, curb, joint repair, inbound lane.			
Ticket No.: 4076983		Location:			
Strength Delivered: 35 (MPa)		Comments: JKD			
Mix No: 35201A10NR		AP1 04 AUG 20, AP2 04 AUG 20.			
Load Vol: 5.50 m <sup>3</sup>					
Cum Vol: 5.50 m <sup>3</sup>					
Additives:					
Heat	<input type="checkbox"/>	Superplasticizer	<input checked="" type="checkbox"/>		
Silica fume	<input type="checkbox"/>	Flyash	<input type="checkbox"/>		
Set Retarder	<input checked="" type="checkbox"/>	Air Entrainment	<input checked="" type="checkbox"/>		
Water Reducer	<input type="checkbox"/>	Accelerators	<input type="checkbox"/>		
H2O Added <input type="checkbox"/> Authorized B					

Standby:

0

Record No 51776

Englobe Tech: JKD

PER




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N/A - Not Applicable or Not Available

Project manager : Peter Salah