



CSA CERTIFIED  
LABORATORY FOR TESTING  
CONCRETE

## CONCRETE PLACEMENT REPORT

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

**Client**

Nova Scotia Transportation And Infrastructure Renewal  
PO Box 186, 1672 Granville Street  
Halifax, Nova Scotia  
B3J 2N2

**Our Project No.**

02000061.000.001

**Client Contract No.:**

4600019710

**Client P.O.:****Contractor:**

Marco Maritimes

**CC:**

Fax

**ATTENTION:** Krista Ranahan, P.Eng.

**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Metro Casey  
**Mix No:** C25F1D1  
**Date Placed:** 22-Jan-20  
**Formwork:** Wood  
**Method Of Placing:** Pump  
**Weather:** Clear  
**Vibrators:** Whip  
**Method Of Curing:** Insulated Tarps

**Specified Properties: Strength, @28 Days :** 25 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cyls Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103697	39CM	13:41	14:25	14:50	1:09	2.0 / 4.7	100	19.5	-1.5	8.00	8.00	3
2	103698	32CM	13:52	14:45	15:05	1:13	1.9 / 4.5	80 / 95	18.5	-2.0	8.00	16.00	2
3	1036699	38CM	14:00	15:00	15:20	1:20	4.4	100	15.5	-2.5	8.00	24.00	

**Section:** Footing

**Location:** Grid Line 1 ( A-D )

**Comments** NSTIR was accepting any AEA over 4% up to 7%.

Field Test results reported on site.

**Record No:** 29460 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

**PER**

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Project manager : Peter Salah



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**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Casey Metro

**Mix No:** C25F1D1

**Date Placed:**

23-Jan-20

**Formwork:** Wood

**Method Of Placing:**

Pump

**Weather:** Clear

**Vibrators:** Whip

**Method Of Curing:**

Insulated Tarps

**Specified Properties: Strength, @28 Days :** 25 MPa,

**Slump:** 80 +/- 20 mm

**Air:** 4 - 7 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103725	31CM	13:21	14:10	14:25	1:04	2.9/4.5	90/100	21.0	4.0	7.45	7.45	3
2	103726	33CM	13:36	14:25	14:35	0:59	5.0	100	20.5	3.5	7.45	14.90	2
3	103727	29CM	14:08	14:50	15:05	0:57	4.9	95	21.0	4.0	7.10	22.00	

**Section:** Strip Footings

**Location:** Grid Line D ( 1-4 )

**Comments**

Field Test results reported on site.

**Record No:** 29476

**Standby:**

0.5

**Englobe Tech:** Joel DeCoste

**PER**

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Project manager : Peter Salah



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Marco Maritimes

**CC:**

Fax

**ATTENTION:** Krista Ranahan, P.Eng.

**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Mix No:** C27F101E **Date Placed:** 23-Jan-20  
**Supplier:** Casey Metro **Formwork:** Wood **Method Of Placing:** excavator & buc  
**Weather:** Clear **Vibrators:** Whip **Method Of Curing:** Insulated Tarps  
**Specified Properties: Strength, @28 Days :** 28 MPa, **Slump:** 125 +/- 25 mm **Air:** 4 - 7 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cyls Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103728	38CM	14:52	15:20	15:45	0:53	4.5	145	19.0	4.0	8.00	8.00	5

**Section:** Duct Bank

**Location:** 1st Section : Pull Pit

**Comments**

Field Test results reported on site.

**Record No:** 29477 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

**PER**

*Peter Salah*

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Project manager : Peter Salah



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Fax

**ATTENTION:** Krista Ranahan, P.Eng.

**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Mix No:** C25F1D1

**Date Placed:**

24-Jan-20

**Supplier:** Casey Metro

**Formwork:** Wood

**Method Of Placing:**

Pump

**Weather:** Sunny

**Vibrators:** Whip

**Method Of Curing:**

Insulated Tarps

**Specified Properties: Strength, @28 Days :** 25 MPa,

**Slump:** 80 +/- 20 mm

**Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103762	36CM	13:08	14:01			5.2	100	19.5	3	8	8	3
2	103765	33CM	13:25	14:15			3.4/5.8	75/100	19.5	3	6.12	14.12	2
3	103766	29CM	13:32	14:34			5.4	95	19	3	6.12	20.24	0
4	103769	23CM	14:12	14:51			5.3	100	19	3	5.76	26	0

**Section:**

**Location:** strip footings. Line Z1 from W1 to W4 and small section at W1

**Comments**

Field Test results reported on site.

**Record No:** 29481

**Standby:**

0

**Englobe Tech:** Tristan Pye

PER *[Signature]*

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Project manager : Peter Salah



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**PHONE:** (902) 722-1207

**FAX:**

**Email:** krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Casey Metro

**Mix No:** C25F1D1

**Date Placed:** 27-Jan-20

**Formwork:** Wood

**Method Of Placing:** Pump

**Weather:** Overcast

**Vibrators:** Whip

**Method Of Curing:** Insulated Tarps

**Specified Properties: Strength, @28 Days :** 25 MPa, **Slump:** 80 +/- 20 mm **Air:** 4 - 7 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103816	25CM	13:29	14:15	14:30	1:01	5.7	95	21.5	6.0	7.65	7.65	3
2	103818	31CM	13:50	14:25	14:50	1:00	6.6	100	20.0	5.5	7.65	15.30	2
3	103820	28CM	14:09	14:50	15:00	0:51	5.9	95	20.5	5.5	7.70	23.00	

**Section:** Strip Footings

**Location:** Grid Line : A ( 5-8 ) & Line Z1 ( W1-W2)

**Comments**

Field Test results reported on site.

**Record No:** 29489 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

**PER** 

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Project manager : Peter Salah



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**Client Contract No.:** 4600019710

**Client P.O.:**

**Contractor:** Marco Maritimes

**CC:** Fax

**ATTENTION:** Krista Ranahan, P.Eng.

**PHONE:** (902) 722-1207

**FAX:**

**Email:** krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Casey Metro **Mix No:** C27F101E **Date Placed:** 27-Jan-20

**Formwork:** Wood **Method Of Placing:** excavator & buc

**Weather:** Overcast **Vibrators:** Whip **Method Of Curing:** Insulated Tarps

**Specified Properties: Strength, @28 Days :** 28 MPa, **Slump:** 125 +/- 25 mm **Air:** 4 - 7 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cyls Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103824	38CM	14:41	15:25	15:55	1:14	6.8	140	18.5	5.0	4.50	4.50	5

**Section:** Duct Bank

**Location:** 2nd Location of Pull Pit

**Comments**

Field Test results reported on site.

**Record No:** 29490 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

**PER** 

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**CC:**

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**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Metro Casey **Mix No:** C25F1D1 **Date Placed:** 28-Jan-20  
**Formwork:** Wood **Method Of Placing:** Pump

**Weather:** Cloudy **Vibrators:** Whip **Method Of Curing:** Insulated Tarps

**Specified Properties: Strength, @28 Days :** 25 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103856	36CM	14:08	14:50	15:10	1:02	6.5	100	20.5	0.0	8.03	16.06	3
2	103857	23CM	14:18	15:05	15:25	1:07	6.4	95	18.5	-1.0	8.03	24.09	2
3	103855	29CM	13:57	15:15	16:05	2:08	6.2	90	19.0	-1.5	8.03	8.03	
4	103861	38CM	14:49	16:00	16:10	1:21	6.4	95	19.5	-2.0	8.03	32.12	

**Section:** Strip Footings and Box Footings

**Location:** SF : Line A ( 8-11 ) BF : B2, B3, C2, C3

**Comments**

Field Test results reported on site.

**Record No:** 29492 **Standby:** 1 **Englobe Tech:** Joel DeCoste

**PER**

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Project manager : Peter Salah





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Fax

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**PHONE:** (902) 722-1207

**FAX:**

**Email:**

krista.ranahan@no

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Supplier:** Casey Metro  
**Weather:** Cloudy  
**Mix No:**  
**Formwork:** Wood  
**Vibrators:** Whip  
**Date Placed:** 28-Jan-20  
**Method Of Placing:** excavator & buc  
**Method Of Curing:** Insulated Tarps  
**Specified Properties: Strength, @28 Days :** 28 MPa, **Slump:** 125 +/- 25 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	103867	25CM	15:35	16:20	16:40	1:05	6.2	135	17.5	-2.5	3.00	3.00	5

**Section:** Comm. Entry to Building , Final Pull

**Location:**

**Comments**

Field Test results reported on site.

**Record No:** 29493

**Standby:**

1

**Englobe Tech:** Joel DeCoste

**PER**

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Marco Maritimes

**CC:**
**Fax**

**Attn:** Krista Ranahan, P.Eng.

**Fax**

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Email** krista.ranahan@novascotia.ca

Set No: 4		No. Of Specimens: 3		Date Cast: 20 Jan 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	27 Jan 2020	7	102	2315	195	23.9	A	<input checked="" type="checkbox"/> A
B	17 Feb 2020	28	102	2330				<input checked="" type="checkbox"/> B
C	17 Feb 2020	28	102	2324				<input checked="" type="checkbox"/> C
								<input checked="" type="checkbox"/> D
								<input checked="" type="checkbox"/> E
								<input checked="" type="checkbox"/> F

  

Specified Properties		Test Information		Sample pickup at Site :
Strength @28 days(MPa):	25	Conc Temp°C	18.0	Date : 21 Jan 2020
Slump (mm):	80 +/- 20	Slump (mm)	60/95	Time : 9:00
Air (%):	6 +/- 1	Air Temp°C :	-2.5	Rec'd Sample at Lab :
Max Agg Size (mm):	20	Air(%):	2.9/5.1	Date : 21 Jan 2020
		Cast Time:	15:25	Time : 10:30
		Cast By:	MTL	
		Initial curing Temp (CSA: 15 - 25°C)		
		Minimum: 12 Maximum: 20		
<b>Supplier Information</b>		<b>Initial Curing Conditions :</b>		
Supplier:	Casey Metro	Inside curing box inside trailer		
Batch Time:	14:36	Test samples cast in reusable hard plastic moulds.		
Truck No.:	34CM	<b>Section:</b> Strip Footings		
Ticket No.:	103665	<b>Location:</b> Grid Line : A ( 2-5 )		
Strength Delivered:	25 (MPa)	<b>Comments:</b>		
Mix No:	C25F1D1	Field Test results reported on site.		
Load Vol:	8.00 m <sup>3</sup>			
Cum Vol:	8.00 m <sup>3</sup>			
<b>Additives:</b>				
Heat	<input checked="" type="checkbox"/> Superplasticizer			
Silica fume	<input type="checkbox"/> Flyash			
Set Retarder	<input type="checkbox"/> Air Entrainment	<input checked="" type="checkbox"/>		
Water Reducer	<input type="checkbox"/> Accelerators	<input type="checkbox"/>		
H2O Added	<input type="checkbox"/> Authorized B			
		Extra Airs: 1 Extra Slumps: 1		

**Standby:** 1.5

**Record No** 50501 **Englobe Tech:** Joel #1

PER *Peter Salah*



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N/A - Not Applicable or Not Available

Project manager : Peter Salah



# CONCRETE TEST REPORT

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Our Project No.: 02000061.000.001

Client Contract No.: 4600019710

Client PO.:

Contractor: Marco Maritimes

CC:

Fax

Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 5	No. Of Specimens: 5	Date Cast: 20 Jan 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	27 Jan 2020	7	102	2276	198	24.2	A
B	17 Feb 2020	28	102	2269			
C	17 Feb 2020	28	102	2270			
D	16 Mar 2020	AP	102				
E	16 Mar 2020	AP	102				

Specified Properties	Test Information	Sample pickup at Site :
Strength @28 days(MPa): 28	Conc Temp°C 14.5 Slump (mm) 130/150	Date : 21 Jan 2020
Slump (mm): 80 +/- 20	Air Temp°C : -3.5 Air(%): 4.5/6.4	Time : 9:00
Air (%): 6 +/- 1	Cast Time: 16:25 Cast By: MTL	Rec'd Sample at Lab :
Max Agg Size (mm): 20	Initial curing Temp (CSA: 15 - 25°C) Minimum: 12 Maximum: 20	Date : 21 Jan 2020
Supplier Information	Initial Curing Conditions :	Time : 10:30
Supplier: Casey Metro	Inside curing box inside trailer	
Batch Time: 15:11	Test samples cast in reusable hard plastic moulds.	
Truck No.: 38CM	Section: Electrical Ductbank	
Ticket No.: 103670	Location: Section 5	
Strength Delivered: 28 (MPa)	Comments:	
Mix No:	Field Test results reported on site.	
Load Vol: 6.00 m <sup>3</sup>		
Cum Vol: 6.00 m <sup>3</sup>		
Additives:		
Heat <input checked="" type="checkbox"/> Superplasticizer <input checked="" type="checkbox"/>		
Silica fume <input type="checkbox"/> Flyash <input type="checkbox"/>		
Set Retarder <input type="checkbox"/> Air Entrainment <input checked="" type="checkbox"/>		
Water Reducer <input type="checkbox"/> Accelerators <input type="checkbox"/>		
H2O Added <input type="checkbox"/> Authorized B		
	Extra Airs: 1 Extra Slumps: 1	

Standby: 1.5

Record No 50503 Englobe Tech: Joel #3

PER



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N/A - Not Applicable or Not Available

Project manager : Peter Salah

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**Contractor:** Marco Maritimes

**CC:**

**Fax**

**Attn:** Krista Ranahan, P.Eng.

**Fax**

**Project:** FO1-55-02-01 - JL Ilsley High School Concrete Testing

**Email** krista.ranahan@novascotia.ca

Set No: 6		No. Of Specimens: 3		Date Cast: 22 Jan 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	29 Jan 2020	7	102	2344	180	22.0	A	<input checked="" type="checkbox"/> A
B	19 Feb 2020	28	102	2347				<input checked="" type="checkbox"/> B
C	19 Feb 2020	28	102	2343				<input checked="" type="checkbox"/> C
								<input checked="" type="checkbox"/> D
								<input checked="" type="checkbox"/> E
								<input checked="" type="checkbox"/> F

  

Specified Properties		Test Information		Sample pickup at Site :
Strength @28 days(MPa):	25	Conc Temp°C	19.5	Date : 23 Jan 2020
Slump (mm):	80 +/- 20	Slump (mm)	100	Time : 7:00
Air (%):	6 +/- 1	Air Temp°C :	-1.5	Rec'd Sample at Lab :
Max Agg Size (mm):	20	Air(%):	2.0 / 4.7	Date : 23 Jan 2020
		Cast Time:	14:25	Time : 8:30
		Cast By:	MTL	
		Initial curing Temp (CSA: 15 - 25° C)		
		Minimum: 5.6 Maximum: 18.3		
<b>Supplier Information</b>		<b>Initial Curing Conditions :</b>		
Supplier:	Metro Casey	Inside curing box inside trailer		
Batch Time:	13:41	Test samples cast in reusable hard plastic moulds.		
Truck No.:	39CM	<b>Section:</b> Footing		
Ticket No.:	103697	<b>Location:</b> Grid Line 1 (A-D)		
Strength Delivered:	25 (MPa)	<b>Comments:</b>		
Mix No:	C25F1D1	Field Test results reported on site.		
Load Vol:	8.00 m <sup>3</sup>	Extra Airls: 1		
Cum Vol:	8.00 m <sup>3</sup>			
<b>Additives:</b>				
Heat	<input checked="" type="checkbox"/> Superplasticizer			
Silica fume	<input type="checkbox"/> Flyash			
Set Retarder	<input 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:** 0.5

**Record No** 50508 **Englobe Tech:** Joel #1

**PER** *[Signature]*



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