



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

OurProject No.

02000061.000.001

Client Contract No.:

4600019710

Client P.O.:

Contractor:

Able Equipment

CC:

Fax

ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

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

Mix No:

C25F1D1

Date Placed:

11-Feb-20

Supplier: Casey Metro

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

6 +/- 1 % Air:

Load					Slump	Temp (C)		Volume		#Cylds			
No.	No.	No.	Batch 7	Fested	Unload Elap	sed	Air (%)	(mm)	Conc	Air	Load	Cum.	Cast
1	104154	31CM	12:49	13:49			6.2	100	19.0	1	6.31	6.31	3
2	104156	38CM	13:04	14:10			6.4	100	18.5	1	6.31	12.62	2
3	104158	36CM	13:19	14:39			6.0	100	19.0	1	5.88	18.50	0

Section:

Location:

Wall on footing on line D from 1 to 4. Footing on line 14 from A to B. Box footing at lines Y7and X1. Footing

for Shearwall 10 adjacent to Y7-X1 box footing.

Comments

Field Test results reported on site.

Record No: 29580

Standby:

Englobe Tech: Tristan Pye

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.

Project manager: Peter Salah





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ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

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

Mix No:

C25F1D1

Date Placed:

12-Feb-20

Supplier: Casey Metro

Specified Properties: Strength, @28 Days:

Formwork:

Wood

Method Of Placing: **Method Of Curing:**

Pump Insulated Tarps

Weather: Sunny

Vibrators:

Whip 25 MPa,

Slump:

80 +/- 20 mm

6 +/- 1 % Air:

Load Ticket		Truck			Record			Slump	Temp	(C)	Vo	ume	#Cylds
No.	No.	No.	Batch	Tested	Unload	Elapsed	Air (%)	(mm)	Conc	Air	Load	Cum.	Cast
1	104173	38CM	12:57	13:41	14:11	1:14	5,5	85	21	1	6	6	3
2	104179	31CM	14:28	15:05			7.0	130	21	1	8.03	6	0
3	104183	23CM	15:19	16:03	16:11	0:52	5.2	65	19.5	1	8.03	14.03	2

Section:

Location:

Gridline A 12 to 14 and gridline 14 from 1 to + 1.3 m towards 2. Elevator Pad

Comments

Field Test results reported on site.

Record No: 29591

Standby:

Englobe Tech: Tristan Pye

PER

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.

Project manager: Peter Salah



Record No 50480

Englobe Tech:

CONCRETE TEST REPORT

LABORATORY FOR TESTING

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

		1.0. DOD EAT - 1	LL (302) 400-0400	1 AX 400-4313						
Client:				Our Projec	t No.:	02000061.0	0.00	01		
Nova Scotia	a Transportation	And Infrastru	cture Renewal	Client Con	tract No.:	4600019710				
	6, 1672 Granville			Client PO.:						
Halifax, Nov		, other	Contractor:			Marco Maritimes				
B3J 2N2			СС	:			Fax			
Attn: Krist	a Ranahan, P.E	ng.								
Fax										
	O1-55-02-01 - J esting	IL IIsley High \$	School Concrete	Email	krista.ranah	an@novasco	otia.c	а		
Set No:	3 No.	Of Specimens	s: 3		Ų	Date Cast: 1	5 Jar	1 2020		
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compress Strength (M		Failure Type		
Α	22 Jan 2020	7	102	2313	201	24.6		_	AX	
В	12 Feb 2020	28	102	2318	239	29.2		A	國	
c	12 Feb 2020	28	102	2329	236	28.9		A		
ĭ	12 1 00 2020	20		2020	-15	20.3		A		
									EM	
	pecified Proper	rtine		Toot Informati	ion				F	
	28 days(MPa):	28	Test Information Conc Temp [©] 19 Slump (mm) 150					Sample pickup at Site : Date : 16 Jan 2020		
Slump (mm		80 +/- 20	l 🥳					ime: 10:3		
Air (%):	,.	6 +/- 1	Air Temp C: -1 Air(%): 5.2 Cast Time: 13:30 Cast By: MTL				Rec'd Sample at Lab:			
Max Agg Si	ze (mm):	20	Date : 1					ate: 16 Ja	an 2020	
Sı	upplier Informa	tion	lnitial curi Minimum	Initial curing Temp (CSA: 15 - 25 C) Minimum: 11,2 Maximum: 18,9						
Supplier:	Casey Concre	te Ltd.	Initial Curing Conditions :							
Batch Time	: 12:37		Inside curing box inside trailer							
Truck No.:	29CM		Test samples cas	st in reusable hard	l plastic moulds					
Ticket No.:	103572			t Bank						
_	elivered: 28	(MPa)	Location: Adja	cent to existin	a high schoo	Ĭ.				
Mix No:	C27F101	E 3	,,,,,	oon to ontain	g 111g11 001100					
Load Vol:	6.5	3								
Cum Vol:	6.5		Comments:							
	Additives:									
Heat ✓ Superplasticizer ✓ Silica fume □ Flyash				l Test results r	eported on s	ite.				
Set Retarder	☐ Flyash ☐ Air Entrainr	ment 🔽								
Water Reduce										
H2O Added	_									
1120 Added	- Authorized t	J								
Standby:	0			0	11	CCIL CSA	CER	TIFIED		

Jamie Abraham 1



Client:

CONCRETE **TEST REPORT**

02000061.000.001

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

Nova Scotia Transportation And Infrastructure Renewal Client Contract No.: 4600019710										
	6, 1672 Granville	Street		Client PO.:						
Halifax, Nov	va Scotia			Contractor	•		_			
B3J 2N2			cc	:			Fax			
	a Ranahan, P _a E	ng.								
Fax										
	O1-55-02-01 - J esting	IL IIsley High \$	School Concrete	Email	krista.ranah	an@novasco	tia.ca	a		
Set No:	22 No .	Of Specimens	s: 3			Date Cast: 0	5 Feb	2020		
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compress Strength (M		Failure Type		
Α	12 Feb 2020	7	102	2284	133	16.3		Α	AX	
В	04 Mar 2020	28	102	2286			- 1	, , ,	BI	
С	04 Mar 2020	28	102	2287						
									F	
_	pecified Proper	rties	13	Test Informat			Sam	ple pickup	at Site :	
	28 days(MPa):	25	1 ^	• •	mp (mm) 90		Date: 06 Feb 2020			
Slump (mm):	80 +/- 20	Air Temp C: 0 Air(%): 7.6					Time: 16:00 Rec'd Sample at Lab:		
Air (%): Max Agg Si	zo (mm):	6 +/- 1	Cast Time:	Cast Time: 15:00 Cast By: MTL Rec'd Sample a						
	upplier Informa	20 tion	Initial curing Temp (CSA: 15 - 25°C) Minimum: 8.8 Maximum: 20.5					00		
Supplier:	Casey Metro		Initial Curing Conditions :							
Batch Time	: 13:44		Inside curing	box inside traile	r					
Truck No.:	37CM		Test samples cast in reusable hard plastic moulds.							
Ticket No.:	104049		Section: Foot							
_	elivered: 25	(MPa)	Location: Z1 (W5, W6), (Y7	X4), And Wa	all A(9 - 10)				
Mix No: Load Vol:	C25F1D1	3			•	, ,				
Cum Vol:	8.00 8.00	m m³								
	Additives:		Comments:							
Heat	✓ Superplast	ticizer	Field	d Test results i	reported on s	ite				
Silica fume	☐ Flyash		7 day compre		•		ted b	ased on	typical	
Set Retarder	Air Entrain	ment 🗸	strength gains			ian antioipa	iou b	u00u 011	ty pioui	
Water Reduce	er 🗌 Accelerator	rs								
H2O Added	☐ Authorized I	В								
Standby:	0	aha Ta-ti	204	pep 11	0+ L,	CCIL CSA	CERT	IFIED	ESTING	
Record No	50660 E ng l	obe Tech: (CC1	PER	In also	LABO	UKAT	ORY FOR 1	ESTING	

Our Project No.:



CONCRETE **TEST REPORT**

7 TROOP AV	E., DARTMOUTH, I	N.S. B3B 2A7 - T	EL (902) 468-6486	FAX 468-4919					
Client:				Our Projec	02000061.0	00.00	01		
Nova Scotia	a Transportation	And Infrastrue	cture Renewal	Client Con	tract No.:	4600019710			
	6, 1672 Granville			Client PO.:					
Halifax, Nov	•		Contractor:			Marco Marit	imes		
B3J 2N2			CC	:			Fax		
Attn: Krist	a Ranahan, P.E	ng.							
Fax									
	O1-55-02-01 - J esting	IL IIsley High S	School Concrete	Email	krista.ranah	an@novasco	tia.ca	a	
Set No:	23 No.	Of Specimens	: 3			Date Cast: 06	6 Feb	2020	
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)		Failure Type	
Α	13 Feb 2020	7	102		240			. , , , ,	M
			102	2362	240	29.4		Α	
В	05 Mar 2020	28	102	2365 2366					國
С	05 Mar 2020	28	102	2300					
	nasified Drane	tion		Foot Informet					F
-	pecified Proper 28 days(MPa):	25	Test Information Conc Temp [©] 22.5 Slump (mm) 100 Sample pickup at Site: Date: 07 Feb 2020						
Slump (mm	- ' '	80 +/- 20	1 ^	-4 Air(·		ime: 11:3	
Air (%):	,.	No AEA			t By: MTL		Rec	'd Sample	at Lab :
Max Agg Si	ze (mm):	20	Date: 07 Fe						
Sı	upplier Informa	tion	f Initial curi Minimum	ing Temp (CS : 13.5 Maxim	A: 15 - 25 C) um: 21:5		Ti	me: 12:0	0
Supplier:	Casey Metro		Initial Curing Co						
Batch Time	: 12:28		_	box inside traile	r				
Truck No.:	38CM		Test samples cas	st in reusable hard	d plastic moulds	10			
Ticket No.:	104086			tings					
	elivered: 30	(MPa)	Location: 14(y	4. v5. v6). 11(v7)				
Mix No:	C30F100	3	· "	13 13 77	,				
Load Vol: Cum Vol:	7.07 14.14	m ³							
	Additives:	""	Comments:						
Heat	Superplast	inima.	E:-1-	l T = = t == = = t = = .		ti.			
Silica fume	Superplast Flyash		Field Test results reported on site.						
Set Retarder	Air Entraine	ment							
Water Reduce									
H2O Added	☐ Authorized I	В							

Standby:

Record No 50667

Englobe Tech:

Jamie Abraham 1





Client:

CONCRETE **TEST REPORT**

02000061.000.001

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

	a Transportation 5, 1672 Granville		cture Renewal Client Contract No.: Client PO.:			4600019710				
Halifax, Nov		e Street		Contractor		Marco Maritime	s			
B3J 2N2			CC	•		Fax	•			
Attn: Krist Fax	a Ranahan, P.E	ng.								
	O1-55-02-01 - J esting	IL IIsley High	School Concrete	Email	krista.ranah	an@novascotia.c	ca			
Set No:	24 No .	Of Specimens	: 3			Date Cast: 06 Fe				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type			
Α	13 Feb 2020	7	102	2390	277	33.9	Α	AX		
В	05 Mar 2020	28	102	2401			'	BU		
С	05 Mar 2020	28	102	2399						
<u>s</u>	pecified Prope	rties .	(Test Informat	ion	Sai	nple pickup	at Site :		
Strength @	28 days(MPa):	30	l n					eb 2020		
Slump (mm):	80 +/- 20	Air Temp C: -4 Air(%): 1.8 Time: 11:30					1.100.1.00		
Air (%):		No AEA	Cast Time: 14:15 Cast By: MTL Rec'd Sample at Lab: Date: 07 Feb 2020							
Max Agg Si	ze (mm): upplier Informa	20 tion	Initial curing Temp (CSA: 15 - 25°C) Minimum: 13.5 Maximum: 21.5							
Supplier:	Casey Metro		Initial Curing Conditions :							
Batch Time	: 13:34		Inside curing	box inside traile	r					
Truck No.:	22CM		Test samples cast in reusable hard plastic moulds.							
Ticket No.: Strength De	104090 elivered: 30	(MDa)	Section: Pier	s						
Mix No:	C30F100	(MPa)	Location: 5b, 5c, 6b, 6c, w2/z2, w3/z2							
Load Vol:	2	m ³								
Cum Vol:	2	m 3								
	Additives:		Comments:							
Heat Superplasticizer Field Test results reported on site. Silica fume Flyash Set Retarder Air Entrainment Water Reducer Accelerators H2O Added Authorized B										
Standby: Record No (

Our Project No.:



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Client:		Our Project No.: 02000061.000.001									
Nova Scotia Transportation And Infrastructure Renewal				Client Contract No.: 4600019710							
	6, 1672 Granville			Client PO.:							
Halifax, Nova Scotia				Contractor	Contractor: Able Equipment						
B3J 2N2 CC:				:			Fax				
Attn: Krist	a Ranahan, P.E	na.									
Fax	,	5									
Project: F	:O1-55-02-01 - I	I IIsley High 9	School Concrete								
-	esting	L noicy riight	Seriour Gorierete	Email	krista.ranah	an@novasco	tia.ca	Э			
Set No:	26 No .	Of Specimens	s: 4			Date Cast: 10	0 Feb	2020			
Specimen	Date	Age At Test		Cyl Density	Maximum	Compress	ive	Failure			
	Tested	(Days)	Diameter(mm)	kg/m ³	Load (kN)	Strength (M	IPa)	Туре			
Α	13 Feb 2020	3	102	2325	146	17.9		Α	AX		
В	17 Feb 2020	7	102	2315					ВД		
С	09 Mar 2020	28	102	2318					C		
D	09 Mar 2020	28	102	2326							
									EM		
									F		
<u>s</u>	pecified Proper	rties	15	Test Informat	ion		Sam	ple pickup	at Site :		
Strength @	28 days(MPa):	25	Conc Temp ^o C 19 Slump (mm) 100 Dat					ate: 11 Feb 2020			
Slump (mm):	80 +/- 20	Air Temp [°] C:	0 Air(%): 6.4			ime: 12:0			
Air (%):		6 +/- 1	Cast Time:								
Max Agg Si	ze (mm):	20	Initial curing Temp (CSA: 15 - 25°C) Date: 11 Fe								
S	upplier Informa	tion	Minimum: Maximum:								
Supplier:	Casey Metro		Initial Curing Conditions :								
Batch Time	: 12:43		Inside curing box inside trailer								
Truck No.: Ticket No.:	39CM		Test samples cast in reusable hard plastic moulds.								
Strength De	104117 elivered: 25	(MPa)	Section:	Section:							
Mix No:	C25F1D1	, ,	Location: Wal		e 1 A to D an	id line d from	1 to	3.1 m tow	ards		
Load Vol:	6.5	m ³	line:	line 2.							
Cum Vol:	6.5	m ³									
	Additives:		Comments:								
Heat	✓ Superplast	icizer	Field	ld Test results reported on site.							
Silica fume Flyash					-,						
Set Retarder ☐ Air Entrainment ✓											
Water Reducer Accelerators											
H2O Added	☐ Authorized I	3									
Ctond L	^		M			11					
Standby: Record No 5	0 50600 Eng le	nhe Tech:	FD4	PER	V /alul	CCIL CSA	CERT	TIFIED ORY FOR T	ESTING		
Record NO	20090 Engli	obe Tech:	ГР1	FER	Drow	M	OI VAT	OKT FOR I	-011140		