

**R. W. Gillespie & Associates, Inc.**

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

**LETTER OF TRANSMITTAL**

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

Date:	8 July 2011	Project No.:	0557-014
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Concrete Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

**We are sending you attached concrete cylinder test results.**

Cylinder No. (s)	Age (Days)
68536	28
68537	28
68540	28
68541	28
68544	28
68545	28

Remarks:

Copy To:  
Roy Williams: rsw@portlandmaine.gov  
Jim Stanislaski: jim\_stanislaski@gensler.com  
Cliff Takara: clifford\_takara@gensler.com  
Lacey Fogg: Lacey.Fogg@amec.com  
Mike Fusco: mfusco@tcco.com  
Shaun Winner: swinner@tcco.com  
Phil Coleman: pcoleman@tcco.com  
Elizabeth O'Toole: eotoole@tcco.com  
TMM@portlandmaine.gov  
ldobson@portlandmaine.gov  
rdixon@tcco.com  
gemitchell@tcco.com  
Remi Delcourt (remi@auburnconcrete.com)  
Jeff Evans, Amec (jeff.evans@amec.com)

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

# R.W. GILLESPIE & ASSOCIATES

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 200 International Drive, Suite 170, Portsmouth, NH 03801 (603) 427-0244

## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement at the Portland Jetport	<b>Date Cylinders Cast:</b>	10-Jun-11
<b>Project No:</b>	0557-014	<b>Concrete Supplier:</b>	Auburn Concrete
<b>Weather Conditions:</b>	Partly Cloudy, Warm	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	4500 PSI
<b>Admixtures:</b>	Glenium 7500, Micro Air	<b>Max. Aggregate Size:</b>	3/4 In.
<b>Placement Location:</b>	Apron; KM - XM + 30'Y4-Y7, Loading Dock Slab, Sidewalk; Entrance Intersection-180' SE of Int.		
<b>Test Cylinder Location:</b>	Set #1 : XM.5/Y4.5 (Apron)		

**JUL 12 2011**

**Date Report Issued:**

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time		
Load No.	2	Slump (in)	ASTM C 143	6.25	Batched @	8:19 AM
Ticket No.	179159	Air (°F)		65	Arrived @	8:44 AM
Truck No.	94	Concrete (°F)		63	Total Time	35 ±
Cubic Yds.	10	Air Content (%)	ASTM C 231	5.7		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3

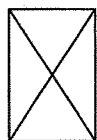
Date Received: 13-Jun-11

Condition of Cylinders: Good

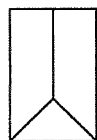
Lab No.	Test Date	Ave Dia (in)	Ave Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68535	17-Jun-11	4.011	12.64	7	63235	5000	2
68536	8-Jul-11	4.016	12.67	28	81480	6430	2
68537	8-Jul-11	4.016	12.67	28	83320	6580	5
68538	HOLD			H			

\*Concrete compressive strength by ASTM C 39

**Types of Breaks**



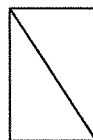
Cone  
1



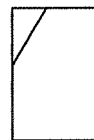
Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
*1	179158	96	10	7.25	--	--	--	35±
3	179160	84	10	--	--	--	--	40±
4	179162	86	10	--	--	--	--	40±
5	190110	94	10	--	--	--	--	45±
6	190111	84	10	--	--	--	--	35±

Remarks: Total loads = 15  
 Curing Temperatures: High = 78°, Low = 46°  
 \*Load 1 was rejected by S. Winner (TCCO)

Checked by:   
 Mathew T. Grady, Manager of MTS

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<b>Project Name:</b>	Terminal Enhancement at the Portland Jetport	<b>Date Cylinders Cast:</b>	10-Jun-11
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<b>Weather Conditions:</b>	Partly Cloudy, Warm	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	4500 PSI
<b>Admixtures:</b>	Glenium 7500, Micro Air	<b>Max. Aggregate Size:</b>	3/4 In.
<b>Placement Location:</b>	Apron; KM - XM + 30/Y4-Y7, Loading Dock Slab, Sidewalk; Entrance Intersection-180' SE of Int.		
<b>Test Cylinder Location:</b>	Set #2 :Apron;Y7/M+20'		

JUL 13 2011

**Date Report Issued:**

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time	
Load No.	7	Slump (in)	ASTM C 143		6.25
Ticket No.	190112	Air (°F)			68
Truck No.	86	Concrete (°F)			67
Cubic Yds.	10	Air Content (%)	ASTM C 231		7.0
				Batched @	10:10 AM
				Arrived @	10:35 AM
				Total Time	50 ±

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3

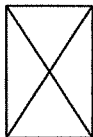
Date Received: 13-Jun-11

Condition of Cylinders: Good

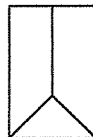
Lab No.	Test Date	Ave Dia (in)	Ave Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68539	17-Jun-11	4.011	12.64	7	65720	5200	2
68540	8-Jul-11	4.016	12.67	28	83985	6630	2
68541	8-Jul-11	4.016	12.67	28	84030	6630	2
68542	HOLD			H			

\*Concrete compressive strength by ASTM C 39

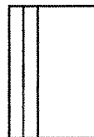
### Types of Breaks



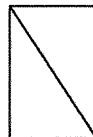
Cone  
1



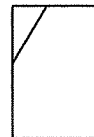
Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
8	190113	98	10	7.25	--	--	--	40±
9	190114	84	10	--	--	--	--	40±
10	190115	86	10	--	--	--	--	45±
11	190118	84	10	--	--	--	--	40±
12	190119	86	2	--	--	--	--	30±
13	190120	94	8	--	--	--	--	50±

Remarks: Total loads = 15  
 Curing Temperatures: High = 78°, Low = 46°

Checked by: Mathew T. Grady  
 Mathew T. Grady, Manager of MTS

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<b>Admixtures:</b>	Glenium 7500, Micro Air	<b>Max. Aggregate Size:</b>	3/4 In.
<b>Placement Location:</b>	Apron; KM - XM + 30/Y4-Y7, Loading Dock Slab, Sidewalk; Entrance Intersection-180' SE of Int.		
<b>Test Cylinder Location:</b>	Set #3 : NW End of Sidewalk		

JUL 12 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich		Time	
Load No.	14	Slump (in)	ASTM C 143	2.75	Batched @	3:00 PM
Ticket No.	190121	Air (°F)		73	Arrived @	3:24 PM
Truck No.	116	Concrete (°F)		69	Total Time	45 ±
Cubic Yds.	9	Air Content (%)	ASTM C 231	6.0		

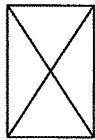
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 3  
 Date Received: 13-Jun-11  
 Condition of Cylinders: Good

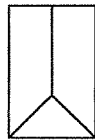
Lab No.	Test Date	Ave Dia (in)	Ave Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68543	17-Jun-11	4.011	12.64	7	69040	5460	3
68544	8-Jul-11	4.016	12.67	28	88765	7010	5
68545	8-Jul-11	4.016	12.67	28	88305	6970	6
68546	HOLD			H			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



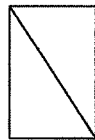
Cone  
1



Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
15	190122	98	8	--	--	--	--	--

Remarks: Total loads = 15  
 Curing Temperatures: High = 78°, Low = 46°

Checked by: Matthew T. Grady  
 Matthew T. Grady, Manager of MTS

