

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:	July 29, 2010	Project No.:	557-14
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)
66441	7
66445	7

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  
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 TMM@portlandmaine.gov  
 ldobson@portlandmaine.gov  
 rdixon@tcco.com  
 gemitchell@tcco.com

Signed: Bertha Dawn

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	22-Jul-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Sunny	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	4,000
<b>Admixtures:</b>	Mid Range Water Reducer	<b>Max Agg. Size:</b>	3/4
<b>Placement Location:</b>	Area B: Footing: Z6/XH; Piers: XG/Y.8, XH/Y6.5, Y7, Y7.5, Y8, XJ/Y8; Elevator Pit		
<b>Test Cylinder Location:</b>	Footing: XH/Z6		

**Date Report Issued:** JUL 30 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	2	Slump (in) ASTM C 143	5.25		Batched @ 11:03
Ticket No.	167573	Air (°F)	76		Arrived @ 11:20
Truck No.	79	Concrete (°F) ASTM C 1064	85		Total Time 75
Cubic Yds.	10	Air Content (%) ASTM C 231	5.5		

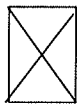
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 5  
Date received 27-Jul-10  
Condition of Cylinders: Good

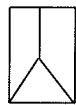
Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
66441	29-Jul-10	4.022	12.70	7	44,460	3500	5
66442	19-Aug-10			28			
66443	19-Aug-10			28			
66444	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



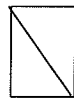
Cone  
1



Cone & Split  
2



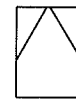
Columnar  
3



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	167571	96	10	--	--	--	--	75
3	167574	84	10	--	--	--	--	75
4	167577	101	10	--	--	--	--	65
5	167578	84	10	--	--	--	--	--

Remarks: Total loads = 9  
Curing Temperatures: Max = 83°, Min = 62°

Checked by:   
Matthew T. Grady, Manager of MTS

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<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Sunny	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	4,000
<b>Admixtures:</b>	Mid Range Water Reducer	<b>Max Agg. Size:</b>	3/4
<b>Placement Location:</b>	Area C: Walls: XJ/10' Southeast of Z2 - 2' Southeast of Z2, Halfway between Y1.5 & Y2/XJ - 10' Southwest of XJ, 10' Southwest of XJ/Halfway between Y1.5 & Y2 - Y2.5; Footings: XK/Y2 & Y3		
<b>Test Cylinder Location:</b>	Footing: XK/Y2 & Y3	<b>Date Report Issued:</b>	

JUL 30 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	6	Slump (in) ASTM C 143	5.5	Batched @	1:08
Ticket No.	167579	Air (°F)	76	Arrived @	1:29
Truck No.	97	Concrete (°F) ASTM C 1064	83	Total Time	30
Cubic Yds.	10	Air Content (%) ASTM C 231	5.2		

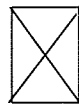
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 5  
 Date received 27-Jul-10  
 Condition of Cylinders: Good

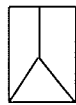
Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
66445	29-Jul-10	4.022	12.70	7	47,740	3760	5
66446	19-Aug-10			28			
66447	19-Aug-10			28			
66448	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



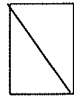
Cone  
1



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.)
7	167580	101	10	--	--	--	--	30
8	167581	84	10	--	--	--	--	40
9	167582	97	6	--	--	--	--	35

Remarks: Total loads = 9  
 Curing Temperatures: Max = 83°, Min = 62°

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