

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:	June 22, 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)
65855	7
65859	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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 Idobson@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>	15-Jun-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>	Walls: F/East side of Footing at F/1ZB - West side of Footing at F/1ZC; Footings: F/1ZC.3 - 1ZD, F.5/1ZB.3		

**Test Cylinder Location:** Walls: F/East side of Footing at F/1ZB - 10' West of F/1ZB

JUN 22 2010

**Date Report Issued:**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	1	Slump (in) ASTM C 143	6.5	Batched @	11:58
Ticket No.	172981	Air (°F)	83	Arrived @	12:20
Truck No.	84	Concrete (°F) ASTM C 1064	74	Total Time	60
Cubic Yds.	10	Air Content (%) ASTM C 231	*6.9/9.8		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 2  
Date received 17-Jun-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
65855	22-Jun-10	4.019	12.69	7	50,200	3960	2
65856	13-Jul-10			28			
65857	13-Jul-10			28			
65858	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

**Types of Breaks**



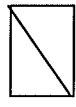
Cone  
1



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.)
2	172982	78	10	--	--	--	*5.5	60
3	172984	100	10	--	--	--	--	60
4	172985	86	10	--	--	--	--	50
5	172986	84	10	--	--	--	--	60

Remarks: Total loads = 7  
Curing Temperatures: Max = 75°, Min = 62°  
\*Initial air.

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

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	15-Jun-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>	Walls: F/East side of Footing at F/1ZB - West side of Footing at F/1ZC; Footings: F/1ZC.3 - 1ZD, F.5/1ZB.3		
<b>Test Cylinder Location:</b>	Footings: F.5/1ZB.3 - 1ZC.3		

**Date Report Issued:**

JUN 22 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	6	Slump (in) ASTM C 143	6.5	Batched @
Ticket No.	172989	Air (°F)	85	Arrived @
Truck No.	100	Concrete (°F) ASTM C 1064	76	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	6.0	45

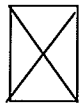
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 2  
Date received 17-Jun-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
65859	22-Jun-10	4.019	12.69	7	49,860	3930	2
65860	13-Jul-10			28			
65861	13-Jul-10			28			
65862	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

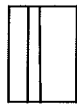
### Types of Breaks



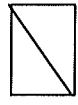
Cone  
1



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	172992	116	6	--	--	--	--	--

Remarks: Total loads = 7  
Curing Temperatures: Max = 75°, Min = 62°

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