

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 25, 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)
65646	28
65647	28
65650	28
65651	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

Signed: Bertha Dawn

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

# 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  
**CONCRETE TEST/PLACEMENT REPORT**

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	28-May-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>	Footings: Line 24.5/XC to XC.3 through Z6/XC to XC.3		
<b>Test Cylinder Location:</b>	XC/Z6		

**Date Report Issued: JUN 25 2010**

4x8 Cylinders	4	Cast by	Rodney R. Collard		
Load No.	1	Slump (in) ASTM C 143	5.0	Time	Batched @ 12:01 Arrived @ 12:26 Total Time 47
Ticket No.	170393	Air (°F)	82		
Truck No.	99	Concrete (°F) ASTM C 1064	77		
Cubic Yds.	10	Air Content (%) ASTM C 231	4.5		

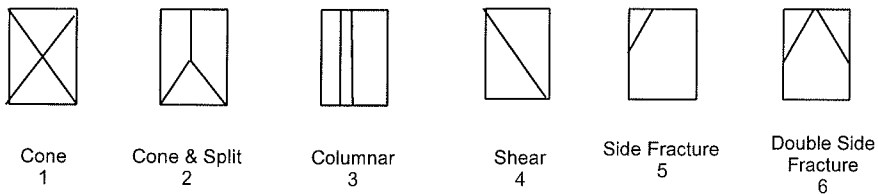
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 4  
 Date received 01-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
65644	04-Jun-10	4.023	12.71	7	45,900	3610	2
65645	04-Jun-10	4.023	12.71	7	46,200	3630	2
65646	25-Jun-10	4.020	12.69	28	69,960	5510	2
65647	25-Jun-10	4.020	12.69	28	68,260	5380	3

\*Concrete compressive strength by ASTM C 39

**Types of Breaks**



Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
2	170394	116	10	--	--	--	--	47
3	170395	84	10	--	--	--	--	48
4	170396	78	10	--	--	--	--	53
5	170397	86	10	--	--	--	--	46

Remarks: Total loads = 9  
 Curing Temperatures: Max = 83°, Min = 68°

Checked by:   
 Matthew T. Grady, Manager of MTS

# 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  
**CONCRETE TEST/PLACEMENT REPORT**

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	28-May-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>	Footings: Line 24.5/XC to XC.3 through Z6/XC to XC.3		
<b>Test Cylinder Location:</b>	XC.3/Z6 to Z6, XC/Z5		

**Date Report Issued:** JUN 25 2010

4x8 Cylinders	4	Cast by	Rodney R. Collard	Time	
Load No.	6	Slump (in) ASTM C 143	5.75		Batched @ 1:03
Ticket No.	170398	Air (°F)	82		Arrived @ 1:27
Truck No.	96	Concrete (°F) ASTM C 1064	80		Total Time 45
Cubic Yds.	10	Air Content (%) ASTM C 231	4.9		

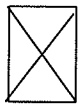
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 4  
 Date received 01-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
65648	04-Jun-10	4.023	12.71	7	44,680	3520	2
65649	04-Jun-10	4.023	12.71	7	43,980	3460	3
65650	25-Jun-10	4.020	12.69	28	60,980	4810	2
65651	25-Jun-10	4.020	12.69	28	62,020	4890	2

\*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	170399	101	10	--	--	--	--	--
8	170400	116	10	--	--	--	--	--
9	170401	84	6	--	--	--	--	--

Remarks: Total loads = 9  
 Curing Temperatures: Max = 83°, Min = 68°

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