

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

Doughty & Associates, Inc.

362 U.S. Route One

Falmouth, ME 04105

Date:	November 30, 2004	Project No.:	438-05
Attention:	Mr. Phillip Doughty (pdarch@maine.rr.com)		
Re:	Concrete Testing New Jetways & Addition to Baggage Claim Portland Jetport Portland, Maine		

We are sending you attached concrete cylinder test results.

Cylinder No. (s)	Age (Days)
49723	7
49727	7

Remarks:

Copy To: Roy Williams (rsw@portlandmaine.gov)
Todd Neal, Becker Structural Engineering (Todd@beckerstructural.com)

Signed: Bertha Dawn

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

Auburn Concrete - Auburn Plant

068628

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17160	1.00
AGGREGATE	Sand	14840	14860	4.00
CEMENT	Cement	6200	6215	
ADMIX	Polar Set	620	620	
ADMIX	Darex II	0		
WATER	COLD WATER	228	228	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068630

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17080	1.00
AGGREGATE	Sand	14760	14880	3.50
CEMENT	Cement	6200	6250	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	237	238	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068634

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17160	1.00
AGGREGATE	Sand	14680	14720	3.00
CEMENT	Cement	6200	6190	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	247	247	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

Auburn Concrete - Auburn Plant

068635

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17240	1.00
AGGREGATE	Sand	14680	14680	3.00
CEMENT	Cement	6200	6185	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	247	247	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

Auburn Concrete - Auburn Plant

068637

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17220	1.00
AGGREGATE	Sand	14680	14700	3.00
CEMENT	Cement	6200	6180	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	247	247	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

Auburn Concrete - Auburn Plant

068638

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17200	1.00
AGGREGATE	Sand	14600	16920	2.50
CEMENT	Cement	6200	6190	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	256	256	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

Auburn Concrete - Auburn Plant

068639

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17120	1.00
AGGREGATE	Sand	14600	14680	2.50
CEMENT	Cement	6200	6200	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	256	256	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

Auburn Concrete - Auburn Plant

068641

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17140	1.00
AGGREGATE	Sand	14640	14680	2.75
CEMENT	Cement	6200	6160	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	251	252	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068645

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17220	1.00
AGGREGATE	Sand	14640	14520	2.75
CEMENT	Cement	6200	6200	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	251	251	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068647

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17180	1.00
AGGREGATE	Sand	14640	14520	2.75
CEMENT	Cement	6200	6200	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	251	251	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068651

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17220	1.00
AGGREGATE	Sand	14600	14500	2.50
CEMENT	Cement	6200	6190	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	256	256	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

068648

Auburn Concrete - Auburn Plant

Material Type	Material	Target Wgt	Actual Wgt	Moisture %
AGGREGATE	67 Stone	17180	17180	1.00
AGGREGATE	Sand	14600	14660	2.50
CEMENT	Cement	6200	6205	
ADMIX	Polar Set	1240	1240	
ADMIX	Darex II	0		
WATER	COLD WATER	256	256	
ADMIX	ADVA 140	250	250	
HAND'S ADD	DCI-S	0	0	

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CONCRETE TEST/PLACEMENT REPORT

Project Name: New Jetways & Addition to Baggage Claim
Project No: 438-05
Weather Conditions: Cloudy
Method of Placement: Pump
Admixtures: Polarset, ADVA
Placement Location: Slab
Test Cylinder Location: Line X.6, Line 47

Date Cylinders Cast: 23-Nov-04
Concrete Supplier: Auburn
General Contractor: Ledgewood
Design Strength: 4,000
Max Agg. Size: 3/4

Date Report Issued: DEC 01 2004

6x12 Cylinders	4	Cast by	Chad N. Gryskwicz	Time
Load No.	2	Slump (in) ASTM C 143	6.25	
Ticket No.	68630	Air (°F)	36	
Truck No.	83	Concrete (°F) ASTM C 1064	73	
Cubic Yds.	10	Air Content (%) ASTM C 231	1.8	
				Arrived @ 6:41
				Total Time 71 mins.

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
Date received: 24-Nov-04
Condition of Cylinders: Good

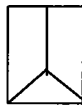
Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
49723	30-Nov-04	5.990	28.18	7	97,200	3450	4
49724	21-Dec-04			28			
49725	21-Dec-04			28			
49726	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



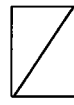
Cone
1



Cone & Split
2



Cone & Shear
3



Shear
4



Columnar
5

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
1	68628	101	10	--	--	--	--	62
3	68634	95	10	--	--	--	--	46
4	68635	98	10	--	--	--	--	55
5	68637	96	10	--	--	--	--	101
6	68638	101	10	--	--	--	--	96

Remarks:

Checked by:
George S. Morrell, Supervisor

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	New Jetways & Addition to Baggage Claim	Date Cylinders Cast:	23-Nov-04
Project No:	438-05	Concrete Supplier:	Auburn
Weather Conditions:	Cloudy	General Contractor:	Ledgewood
Method of Placement:	Pump	Design Strength:	4,000
Admixtures:	Polarset, ADVA	Max Agg. Size:	3/4
Placement Location:	Slab		
Test Cylinder Location:	Line X.2, Line 40		

Date Report Issued: DEC 01 2004

6x12 Cylinders	4	Cast by	Chad N. Gryskwicz	Time	
Load No.	7	Slump (in) ASTM C 143	5.75	Batched @	7:44
Ticket No.	68639	Air (°F)	39	Arrived @	8:10
Truck No.	83	Concrete (°F) ASTM C 1064	74	Total Time	98 mins.
Cubic Yds.	10	Air Content (%) ASTM C 231	1.8		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received: 24-Nov-04
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
49727	30-Nov-04	5.990	28.18	7	98,440	3490	4
49728	21-Dec-04			28			
49729	21-Dec-04			28			
49730	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

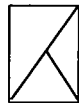
Types of Breaks



Cone
1



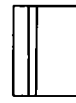
Cone & Split
2



Cone & Shear
3



Shear
4



Columnar
5

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
8	68641	98	10	--	--	--	--	83
9	68645	97	10	--	--	--	--	46
10	68647	95	10	--	--	--	--	49
11	68648	83	10	--	--	--	--	51
12	68651	96	10	--	--	--	--	46

Remarks: Total Loads: 12

Checked by:
 George S. Morrell, Supervisor