

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:	2 Nov 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)
67353	28
67354	28
67357	28
67358	28
67361	28
67362	28
67365	28
67366	28
67369	28
67370	28
67373	28
67374	28
67377	28
67378	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
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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.

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	04-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast	General Contractor:	Turner
Method of Placement:	pump	Design Strength:	3,000
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/4
Placement Location:	Slab on grade		
Test Cylinder Location:	See attached sketch		

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	1	Slump (in) ASTM C 143	6.5	Batched @
Ticket No.	177326	Air (°F)	50	Arrived @
Truck No.	85	Concrete (°F) ASTM C 1064	68	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	2.4	

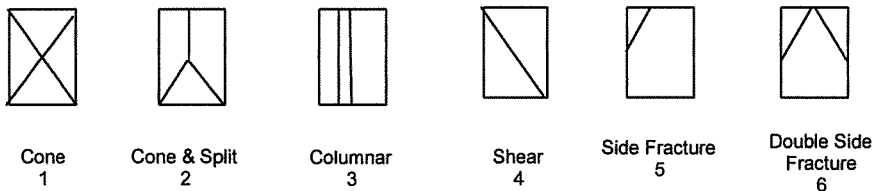
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67352	11-Oct-10	4.009	12.62	7	37,500	2970	6
67353	01-Nov-10	4.015	12.66	28	70,160	5540	2
67354	01-Nov-10	4.015	12.66	28	70,540	5570	2
67355	HOLD			HOLD			

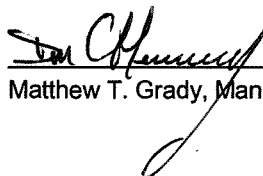
*Concrete compressive strength by ASTM C 39

Types of Breaks



Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
2	177432	99	10	--	--	--	--	90+
3	177433	96	10	--	--	--	--	90+
4	177435	97	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on grade
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 04-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	5	Slump (in) ASTM C 143	7.5	Batched @	7:17
Ticket No.	177436	Air (°F)	51	Arrived @	--
Truck No.	76	Concrete (°F) ASTM C 1064	64	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	2.7		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67356	11-Oct-10	4.009	12.62	7	39,560	3130	3
67357	01-Nov-10	4.015	12.66	28	64,220	5070	5
67358	01-Nov-10	4.015	12.66	28	66,500	5250	5
67359	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.)
6	177332	82	10	--	--	--	--	--
7	177337	118	10	--	--	--	--	--
8	177338	83	10	--	--	--	--	--
9	177339	117	10	--	--	--	--	--
10	177340	85	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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 Folz Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on grade
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 04-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	11	Slump (in) ASTM C 143	7	Batched @	--
Ticket No.	--	Air (°F)	51	Arrived @	--
Truck No.	--	Concrete (°F) ASTM C 1064	63	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	2.5		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67360	11-Oct-10	4.009	12.62	7	45,500	3610	2
67361	01-Nov-10	4.015	12.66	28	70,780	5590	2
67362	01-Nov-10	4.015	12.66	28	71,020	5610	2
67363	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



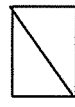
Cone
1



Cone & Split
2



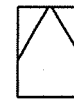
Columnar
3



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.)
12	177343	82	10	--	--	--	--	--
13	177344	118	10	--	--	--	--	--
14	177345	83	10	--	--	--	--	--
15	177346	117	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on grade
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 04-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	16	Slump (in) ASTM C 143	4	Batched @	--
Ticket No.	177347	Air (°F)	54	Arrived @	--
Truck No.	--	Concrete (°F) ASTM C 1064	64	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	2.8		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67364	11-Oct-10	4.009	12.62	7	46,840	3710	2
67365	01-Nov-10	4.015	12.66	28	69,500	5490	5
67366	01-Nov-10	4.015	12.66	28	72,060	5690	2
67367	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



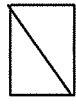
Cone
1



Cone & Split
2



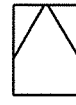
Columnar
3



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.)
17	177348	76	10	--	--	--	--	--
18	177349	82	10	--	--	--	--	--
19	177350	118	10	--	--	--	--	--
20	177351	83	10	--	--	--	--	--
21	177352	117	10	--	--	--	--	--
22	177353	76	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on grade
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 04-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

NOV 02 2010

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	23	Slump (in) ASTM C 143	6	Batched @	11:26
Ticket No.	177354	Air (°F)	62	Arrived @	--
Truck No.	82	Concrete (°F) ASTM C 1064	64	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	2.9		

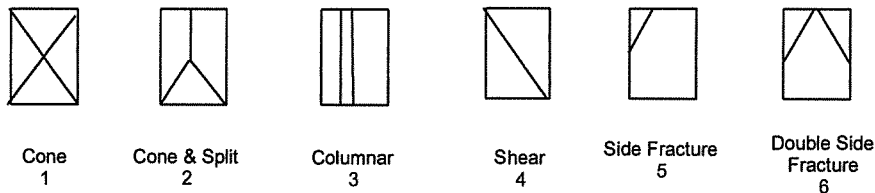
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67368	11-Oct-10	4.009	12.62	7	38,100	3020	6
67369	01-Nov-10	4.015	12.66	28	61,380	4850	5
67370	01-Nov-10	4.015	12.66	28	64,160	5070	2
67371	HOLD			HOLD			


*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.)
24	177355	99	10	--	--	--	--	--
25	177356	83	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on grade
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 04-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	26	Slump (in) ASTM C 143	6.5	Batched @	12:03
Ticket No.	177357	Air (°F)	62	Arrived @	--
Truck No.	117	Concrete (°F) ASTM C 1064	68	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	2.5		

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67372	11-Oct-10	4.009	12.62	7	40,360	3200	2
67373	01-Nov-10	4.015	12.66	28	69,120	5460	5
67374	01-Nov-10	4.015	12.66	28	70,860	5600	5
67375	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

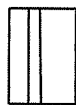
Types of Breaks



Cone
1



Cone & Split
2



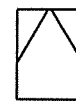
Columnar
3



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.)
27	177358	76	10	--	--	--	--	--
28	177359	82	10	--	--	--	--	--
29	177361	96	10	--	--	--	--	--
30	177362	118	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 77°, Min = 62°

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	04-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast	General Contractor:	Turner
Method of Placement:	pump	Design Strength:	3,000
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/4
Placement Location:	Slab on grade		
Test Cylinder Location:	See attached sketch		

Date Report Issued: NOV 02 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time		
Load No.	31	Slump (in) ASTM C 143	6.25	Batched @	1:18	
Ticket No.	177364	Air (°F)	62	Arrived @	--	
Truck No.	119	Concrete (°F) ASTM C 1064	64	Total Time	--	
Cubic Yds.	10	Air Content (%) ASTM C 231	2.7			

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 05-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67376	11-Oct-10	4.009	12.62	7	37,580	2980	6
67377	01-Nov-10	4.015	12.66	28	63,320	5000	5
67378	01-Nov-10	4.015	12.66	28	59,720	4720	2
67379	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



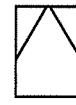
Columnar
3



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.)
32	177366	82	10	--	--	--	--	--

Remarks: 32 Total Loads
 Curing Temperatures: Max = 78°, Min = 56°

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

