

R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

Date:	June 28, 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

We are sending you attached In-Place Density Test Results.

Date(s) Performed:

June 08 and 09, 2010

Test (s) Performed

In-Place Density Testing - Nuclear Method ASTM D6938

- Meets Specification
- Selected Tests Do Not Meet Specification - Noted with an *

Note: Materials descriptions and maximum laboratory dry density values were transmitted under separate cover and are referenced in the attached summaries by the material number.

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.gove
 ldobson@portlandmaine.gov
 bcybulski@tcco.com
 rdixon@tcco.com
 Geoff Mitchell: gemitchell@tcco.com

Signed: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 6/8/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly Graded Sand	111.0	11.4
11280	On-site Fill Material	132.5	6.9

Report Issue Date:

Test No.	Location 12" Water Line Backfill	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	20' NW of Tie-In	SG -3'	107.6	5	97	11194
2	25' NW of Tie-In	SG -2'	107.6	5	97	11194
3	40' NW of Tie-In	SG -3'	105.3	5	95	11194
4	60' NW of Tie-In	SG -3'	105.3	5	95	11194
5	80' NW of Tie-In	SG -3'	106.3	5	96	11194
6	60' NW of Tie-In	SG -2'	111.7	4	100	11194
7	40' NW of Tie-In	SG -2'	107.0	5	96	11194
8	100' NW of Tie-In	SG -3'	108.9	5	98	11194
9	40' NW of Tie-In	SG -1'	127.5	5	96	11280
10	120' NW of Tie-In	SG -3'	106.7	6	96	11194
11	120' NW of Tie-In	SG -2'	132.0	5	100	11280
12	80' NW of Tie-In	SG -3'	126.7	6	96	11280

Remarks: Densities 3' below subgrade must meet 92% compaction. Less than 3' below subgrade, compaction must be 95% or greater.

FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall
 BOF = Bottom of Footing
 SG = Subgrade
 TOP = Top of Pipe
 TOF = Top of Footing

Checked by:



SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 6/8/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly Graded Sand	111.0	11.4
11280	On-site Fill Material	132.5	6.9

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
13	12" Water Line Backfill					
14	60' NW of Tie-In	SG -3'	124.9	6	94	11280
15	100' NW of Tie-In	SG -3'	128.5	6	97	11280
16						

Remarks: Densities 3' below subgrade must meet 92% compaction. Less than 3' below subgrade, compaction must be 95% or greater.

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Checked by: *Arthur J. Goff*

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT

PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 6/9/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11141	Poorly graded sand	118.5	9.7
11177	Poorly graded sand w. silt & gravel	134.8	6.4

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Area C, Zone 4; N. side of footing at C.4/1ZA	TOF -1'	118.2	6	100	11141
2	Area C, Zone 4; N. side of footing at C.4/1ZA	TOF	129.1	6	96	11177

Remarks: Materials used differed in each lift. The first lift was compacted, tested, compacted again, and returned the same density. The second lift was only compacted one time and resulted in a much higher density, indicating that the material had changed.

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Checked by: 