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LETTER OF TRANSMITTAL

City of Portland, Portland Int. Jetport
1001 Westbrook Street
Portland, Maine 04102

Date:	July 23, 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

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

Date(s) Performed:

July 6 through July 9, 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:

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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: 7/6/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

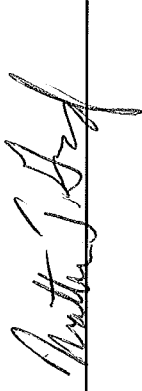
Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11151	3" Minus	133.0	7.3

Report Issue Date: **JUL 27 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Foundation Wall Backfill Zone 4 Middle of utility structure at road STA 10+00	FG -4'	129.9	2	98	11151

Remarks: Test require 95% of maximum density.

- 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
- BOW = Bottom of Wall
- BOF = Bottom of Footing
- SG = Subgrade
- TOF = Top of Footing

Checked by: 

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

PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 7/8/2010
 Technician: RRC
 Gauge Model/Serial Number: L 244
 Report Issue Date: **JUL 27 2010**

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly Graded Sand	111.0	11.4

Test No.	Location Foundation Wall Backfill Zone 4	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Around Sanitary Pump Station - Civil Plan C02.01	FG-11'	103.1	3	93	11194
2	Over 12" Drainage Pipe - Civil Plan C02.01	FG-4'	104.8	2	95	11194
3	Around Sanitary Pump Station - Civil Plan C02.01	FG-10'	105.9	4	96	11194
4	Around Sanitary Pump Station - Civil Plan C02.01	FG-9'	104.9	3	95	11194
5	Over Natural Gas Line - Civil Plan C02.01	FG-3'	110.0	4	99	11194
6	Over Natural Gas Line - Civil Plan C02.01	FG-3'	103.9	7	94	11194
7	Over Natural Gas Line - Civil Plan C02.01	FG-3'	103.1	7	93	11194
8	Around Sanitary Pump Station - Civil Plan C02.01	FG-8'	106.9	3	96	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

- FG = Finish Grade
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- FF = Finish Floor
- FGB = Finish Grade of Base
- FGSB = Finish Grade of Subbase
- BOW = Bottom of Wall
- BOF = Bottom of Footing
- SG = Subgrade
- TOF = Top of Footing
- TOW = Top of Foundation Wall

Checked by: 

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

PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly graded sand	111.0	11.4
11280	On-site common fill	132.5	6.9

Client: City of Portland
 Test Date: 7/9/2010
 Technician: MJK
 Gauge Model/Serial Number: L 244

Report Issue Date: **JUL 27 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Foundation Wall Backfill Zone 4 Drain line - XD.7/Y7.5	FG -3'	105.7	2	95	11194
2	Fuel line - 10' N of electrical foundation N corner	FG	106.4	3	96	11194
3	Drain line - XD.7/Z3	FG -3'	102.4	2	92	11194
4	S corner of electrical foundation	FG -3'	123.6	5	93	11280
5	5' E of hydrant at W corner of electrical foundation	FG -4'	101.6	2	92	11194
6	5' E CB OA-10	FG -2'	105.9	3	95	11194
7	5' E CB OA -10	FG -1'	105.9	4	95	11194
8	5' N DMH OA-49	FG -2'	109.6	3	99	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

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 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall
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Checked by: 