



MARK HAMPTON ASSOCIATES, INC.

SOIL EVALUATION • WETLAND DELINEATIONS • SOIL SURVEYS • WETLAND PERMITTING

4851

547 Riverside Street
Robert Leblanc
Portland, ME

Soil Narrative Report

DATE: Soil Profiles observed on February 24, 2017

BASE MAP: Base plan provided by Owen Haskell, Inc.
scale 1 inch equals 40 feet and one foot contours.

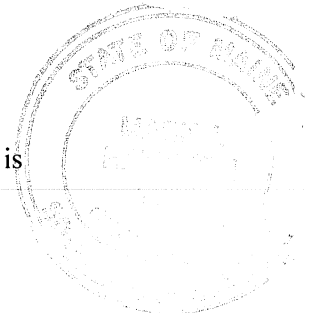
GROUND CONTROL: Soil survey boundaries located by Mark Hampton Associates,
Inc. for Class B Soil Survey

Class B-High Intensity Soil Survey (Minimum Standards)


Mapping units of 1 acre or larger.
Scale of 1"= 100 feet or larger.
Up to 25% inclusions in mapping units of which no more than 15% may be dissimilar soils.
Ground Control – test pits located accurately under direction of registered land surveyor
Base Map – 2 foot contour intervals

Provided:

Mapping units of 1/2 acre or larger
Base map scale of 1"= 40 feet.
Up to 25 percent inclusions in mapping units of which no more than 15 percent is dissimilar soils.
Baseline information and test pits located by Mark Hampton Associates, Inc.
Ground topographic survey with 1 foot contours and ground control provided.

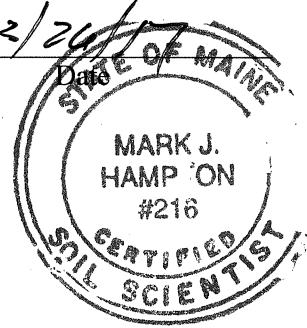


The accompanying soil profile descriptions, soil map, and this soil narrative report were done in accordance with the standards adopted by the Maine Association of Professional Soil Scientists, and the Maine Board of Certification of Geologists and Soil Scientists.



C.S.S. #216, L.S.E. #263 2/26/17

Mark J. Hampton





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SOIL EVALUATION • WETLAND DELINEATIONS • SOIL SURVEYS • WETLAND PERMITTING

4851

547 Riverside Street
Robert Leblanc
Portland, ME

Buxton
(Aquic Dystric Eutrochrepts)

SETTING

PARENT MATERIAL: Derived from glaciomarine or glaciolaucustrine sediments
LANDFORM: Coastal lowlands and river valleys
POSITION IN LANDSCAPE: Intermediate positions on landform
SLOPE GRADIENT RANGES: (A) 0-3%

COMPOSITION AND SOIL CHARACTERISTICS

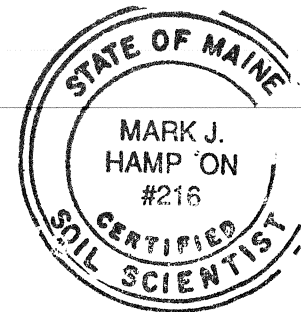
DRAINAGE CLASS: Moderately well drained with a perched watertable from 1.5 to 3.0 feet below the surface at some time from November to May or during periods of heavy precipitation.

TYPICAL PROFILE: Surface Layer: Dark Brown, fine sandy loam 0-7"
Subsurface Layer: Olive brown, silt loam, 8-15"
Subsoil Layer: Olive gray silty clay loam, 15-32"
Substratum: Gray silty clay loam +32"

HYDROLOGIC GROUP: Group C
SURFACE RUNOFF: Moderate to moderately slow
PERMEABILITY: Slow to very slow
DEPTH TO BEDROCK: Greater than 60 inches
HAZARD TO FLOODING: None

INCLUSIONS
(Within Mapping Unit)

CONTRASTING: Scantic, Lamoine



USE AND MANAGEMENT

Development: The limiting factor for building site development is wetness due to the presence of a high watertable for a portion of the year. Proper foundation drainage or site modification is recommended.



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4851

547 Riverside Street
Robert Leblanc
Portland, ME

Lamoine
(Aeric Haplaquepts)

SETTING

PARENT MATERIAL: Derived from glaciomarine or glaciolaucustrine sediments
LANDFORM: Coastal lowlands and river valleys
POSITION IN LANDSCAPE: Intermediate positions on landform
SLOPE GRADIENT RANGES: (A) 0-3%

COMPOSITION AND SOIL CHARACTERISTICS

DRAINAGE CLASS: Somewhat poorly drained with a perched watertable from 0.5 to 2.0 feet below the surface at some time from November to June or during periods of heavy precipitation.

TYPICAL PROFILE:

<u>Surface Layer:</u>	Dark Brown, fine sandy loam 0-7"
<u>Subsurface Layer:</u>	Lt. Olive brown silt loam, 7-14"
<u>Subsoil Layer:</u>	Olive silty clay loam, 14-21"
<u>Substratum:</u>	Olive, silty clay loam, 21-65"

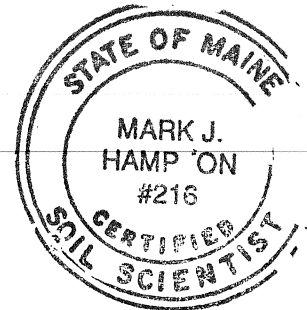
HYDROLOGIC GROUP: Group D
SURFACE RUNOFF: Moderate to moderately slow
PERMEABILITY: Slow to very slow
DEPTH TO BEDROCK: Greater than 65 inches
HAZARD TO FLOODING: None

INCLUSIONS
(Within Mapping Unit)

CONTRASTING: Buxton, Scantic

USE AND MANAGEMENT

Development: The limiting factor for building site development is wetness due to the presence of a high watertable for a portion of the year. Proper foundation drainage or site modification is recommended.





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4851

547 Riverside Street
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Man Made Land

SETTING

PARENT MATERIAL: Derived from various materials found onsite and offsite.
LANDFORM: N/A
POSITION IN LANDSCAPE: N/A
SLOPE GRADIENT RANGES: (A) 0-3%

COMPOSITION AND SOIL CHARACTERISTICS

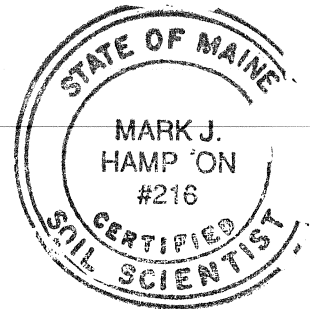
DRAINAGE CLASS: Generally moderately well to somewhat poorly drained but varies.
TYPICAL PROFILE: Varies in profile and onsite from fine loamy sand to silty clay loam
HYDROLOGIC GROUP: Group C
SURFACE RUNOFF: Usually very slow due to compaction
PERMEABILITY: Slow to very slow
DEPTH TO BEDROCK: Greater than 65 inches
HAZARD TO FLOODING: None

INCLUSIONS
(Within Mapping Unit)

CONTRASTING: Buxton, Lamoine, Scantic

USE AND MANAGEMENT

Development: There may be limiting factors for building site development.





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4851

547 Riverside Street
Robert Leblanc
Portland, ME

Scantic
(Aquic Haplorthod)

SETTING

PARENT MATERIAL: Derived from glaciomarine or glaciolauustrine sediments
LANDFORM: Coastal lowlands and river valleys
POSITION IN LANDSCAPE: Lower positions on landform
SLOPE GRADIENT RANGES: (A) 3-8%

COMPOSITION AND SOIL CHARACTERISTICS

DRAINAGE CLASS: Poorly drained with a perched watertable from 0.0 to 1.0 feet below the surface at some time from October to May or during periods of heavy precipitation.

TYPICAL PROFILE: Surface Layer: Dark grayish brown, silt loam 0-9"
Subsurface Layer: Olive gray silt loam, 9-16"
Substratum: Gray silty clay loam, 16"+

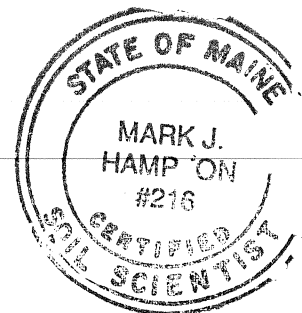
HYDROLOGIC GROUP: Group D
SURFACE RUNOFF: Moderate to moderately slow
PERMEABILITY: Slow to very slow
DEPTH TO BEDROCK: Greater than 65 inches
HAZARD TO FLOODING: None

INCLUSIONS
(Within Mapping Unit)

CONTRASTING: Lamoine, Buxton

USE AND MANAGEMENT

Development: The limiting factor for building site development is wetness due to the presence of a high watertable for a portion of the year. Proper foundation drainage or site modification is recommended.



SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SITES

Project Name: 547 Riverside Street Applicant Name: Robert Leblanc Project Location (municipality): Portland

Exploration Symbol # SS1 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0				
10	Varies	Varies	Varies	
20				
30				
40				
50				
60				

Soil Details by S.E. 9 D 2 10 Groundwater Restrictive Layer Bedrock
 S.S. Soil Series/Phase Name: Made Land Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS2 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	friable	Dark Brown	
10	Silt loam	friable	Brown	
20	Silty clay loam	firm	gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 D 2 10 Groundwater Restrictive Layer Bedrock
 S.S. Soil Series/Phase Name: Lanone SPD Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS3 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	friable	Dark Brown	
10	Silt loam	friable	Brown	
20	Silty clay loam	firm	gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 C 2 15 Groundwater Restrictive Layer Bedrock
 S.S. Soil Series/Phase Name: Buxton MUD Hydric Non-hydric Hydrologic Soil Group

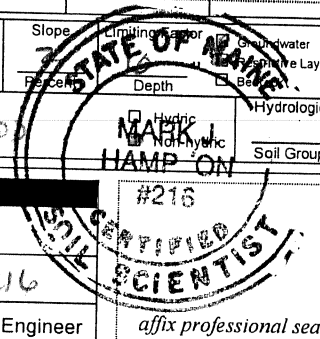
Exploration Symbol # SS4 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	friable	Dark Brown	
10	Silt loam	friable	Brown	
20	Silty clay loam	firm	gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 D 2 10 Groundwater Restrictive Layer Bedrock
 S.S. Soil Series/Phase Name: Lanone SP Hydric Non-hydric Hydrologic Soil Group

INVESTIGATOR INFORMATION AND SIGNATURE

Signature: Marie J. Hampton Date: 5/24/17
 Name Printed: Marie J. Hampton Cert/Lic/Reg. # 263/216
 Title: Licensed Site Evaluator Certified Soil Scientist Certified Geologist Professional Engineer



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SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SITES

Project Name: 547 Riverside Street Applicant Name: Robert Leblanc Project Location (municipality): Portland

Exploration Symbol # SS5 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	Friable	Black	
10	Silt loam	Friable	Gray	Common Discrete
20	Silt loam	Friable	Gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 E 2 6 Groundwater Restrictive Layer Bedrock
 Profile Condition Percent Depth
 S.S. Soil Series/Phase Name: Scoutic PD Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS6 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	Friable	Dark gray	
10	Silt loam	Friable	Brown	
20	Silt loam	Friable	Gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 D 2 13 Groundwater Restrictive Layer Bedrock
 Profile Condition Percent Depth
 S.S. Soil Series/Phase Name: Lamoine SPD Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS7 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

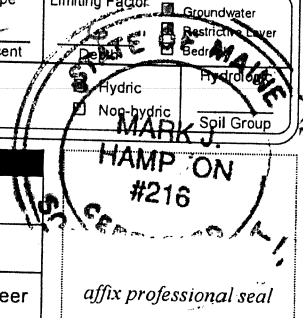
Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	Friable	Dark brown	
10	Silt loam	Friable	Brown	
20	Silt loam	Friable	Gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 C 2 15 Groundwater Restrictive Layer Bedrock
 Profile Condition Percent Depth
 S.S. Soil Series/Phase Name: Buxton MUD Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS8 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	Friable	Black	
10	Silt loam	Friable	Gray	Common Discrete
20	Silt loam	Friable	Gray	Common Discrete
30				
40				
50				
60				

Soil Details by S.E. 9 E 2 Groundwater Restrictive Layer Bedrock
 Profile Condition Percent Depth
 S.S. Soil Series/Phase Name: Scoutic PD Hydric Non-hydric Hydrologic Soil Group



INVESTIGATOR INFORMATION AND SIGNATURE

Signature: Mark J. Hampton Date: 3/24/17
 Name Printed: MARK J. Hampton Cert/Lic/Reg. #: 263/216
 Title: Licensed Site Evaluator Certified Soil Scientist Certified Geologist Professional Engineer

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SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SITES

Project Name: 547 Riverside Street

Applicant Name: Robert LeBlanc

Project Location (municipality): Panama

Exploration Symbol # SS9 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	friable	Dark Brown	
10	Silt loam	Friable	Brown	
20	Silty Clay loam	Fine	gray	Common Oxidant
30				
40				
50				
60				

Soil Details by S.E. Soil Classification: 9 D Slope: 2 Limiting Factor: 12 Groundwater Restrictive Layer
 Profile Condition Percent Depth Bedrock
 S.S. Soil Series/Phase Name: Lamoine SPD Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # SS10 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	Silt loam	Friable	Dark Brown	
10	Silt loam	Friable	Brown	
20	Silty Clay loam	Fine	gray	Common Oxidant
30				
40				
50				
60				

Soil Details by S.E. Soil Classification: 9 C Slope: 2 Limiting Factor: 16 Groundwater Restrictive Layer
 Profile Condition Percent Depth Bedrock
 S.S. Soil Series/Phase Name: Buxton mud Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # _____ Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0				
10				
20				
30				
40				
50				
60				

Soil Details by S.E. Soil Classification: _____ Slope: _____ Limiting Factor: _____ Groundwater Restrictive Layer
 Profile Condition Percent Depth Bedrock
 S.S. Soil Series/Phase Name: _____ Hydric Non-hydric Hydrologic Soil Group

Exploration Symbol # _____ Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0				
10				
20				
30				
40				
50				
60				

Soil Details by S.E. Soil Classification: _____ Slope: _____ Limiting Factor: _____ Groundwater Restrictive Layer
 Profile Condition Percent Depth Bedrock
 S.S. Soil Series/Phase Name: _____ Hydric Non-hydric Hydrologic Soil Group

INVESTIGATOR INFORMATION AND SIGNATURE

Signature: Mamie J. Hampton

Name Printed: MAMIE J. Hampton

Title: Licensed Site Evaluator

Certified Soil Scientist

Certified Geologist

Professional Engineer

Date: 3/24/17
 Cert/Lic/Reg. # 263/216

