MARK HAMPTON ASSOCIATES, INC.

SOIL EVALUATION • WETLAND DELINEATIONS • SOIL SURVEYS • WETLAND PERMITTING

CITY OF PORTLAND, MAINE
RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/05/18

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 equals40 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.

P.O. BOX 1931 • PORTLAND, ME 04104-1931 • 207-756-2900 • mhampto1@maine.rr.com

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Date: 02/05/18

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.

Mark J. Hampton C.S.S. #216, L.S.E. #263 2/26/17
Date

STATE OF MAINE
MARK J.
HAMPTON
#216
CERTIFIED
SOIL SCIENTIST

CITY OF PORTLAND, MAINE · RESURGAM
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MARK HAMPTON ASSOCIATES, INC.

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

STATE OF MAINE
MARK J. HAMPTON
#216
CERTIFIED SOIL SCIENTIST

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:

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

STATE OF MAINE
MARK J. HAMPTON
#216
CERTIFIED SOIL SCIENTIST

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
Robert Leblanc
Portland, ME

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

STATE OF MAINE
MARK J.
HAMP ON
#216
CERTIFIED
SOIL SCIENTIST

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 glaciolaucustrine 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

STATE OF MAINE
MARK J. HAMPTON
#216
CERTIFIED SOIL SCIENTIST

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.

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FORM F Rev.

CITY OF PORTLAND, MAINE — RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/05/18

SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT S

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): 0, 10, 20, 30, 40, 50, 60

Texture	Consistency	Color	Redox Features
Varies	Varies	Varies	

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification	Slope	Limiting Factor	
Profile: ___ Condition: ___	Percent: ___	___ " Depth	☐ Groundwater ☐ Restrictive Layer ☐ Bedrock

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): 0, 10, 20, 30, 40, 50, 60

Texture	Consistency	Color	Redox Features
Silt loam	Friable	Dark Brown	
Silt loam	Friable	Brown	
Silty Clay loam	Firm	Gray	Common Distinct

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification	Slope	Limiting Factor	
Profile: 9 Condition: D	Percent: 2	10 " Depth	■ Groundwater ■ Restrictive Layer ☐ Bedrock

Soil Series/Phase Name: Lamoine 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): 0, 10, 20, 30, 40, 50, 60

Texture	Consistency	Color	Redox Features
Silt loam	Friable	Dark Brown	
Silt loam	Friable	Brown	
Silty Clay loam	Firm	Gray	Common Distinct

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification	Slope	Limiting Factor	
Profile: 9 Condition: C	Percent: 2	15 " Depth	■ Groundwater ■ Restrictive Layer ☐ Bedrock

Soil Series/Phase Name: Buxton MWD

☐ 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): 0, 10, 20, 30, 40, 50, 60

Texture	Consistency	Color	Redox Features
Silt loam	Friable	Dark Brown	
Silt loam	Friable	Brown	
Silty Clay loam	Firm	Gray	Common Distinct

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification	Slope	Limiting Factor	
Profile: 9 Condition: D	Percent: 2	___ " Depth	■ Groundwater ■ Restrictive Layer ☐ Bedrock

Soil Series/Phase Name: Lamoine SPD

☐ Hydric ■ Non-hydric

Hydrologic Soil Group: ___

STATE OF MAINE — MARK J. HAMPTON — #216 — CERTIFIED SOIL SCIENTIST

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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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FORM F Rev.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/05/18

SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT S

Project Name: 547 Riverside Street

Applicant Name: Robert Leblanc

Project Location (municipality): Portland

Exploration Symbol # 225

☒ 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	Silty clay loam	Firm	Gray	Common Distinct
20				
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	E	2	6 "	☒ Groundwater ☒ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

Soil Series/Phase Name: Scantic PD

☒ Hydric ☐ Non-hydric

Hydrologic Soil Group: _____

Exploration Symbol # 556

☒ 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 Distinct
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	D	2	13 "	☒ Groundwater ☒ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

Soil Series/Phase Name: Lamoine SPD

☐ Hydric ☒ Non-hydric

Hydrologic Soil Group: _____

Exploration Symbol # 557

☒ 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 Distinct
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	C	2	15 "	☒ Groundwater ☒ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

Soil Series/Phase Name: Buxton MUD

☐ Hydric ☒ Non-hydric

Hydrologic Soil Group: _____

Exploration Symbol # 558

☒ 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	Silty clay loam	Firm	Gray	Common Distinct
20				
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	E	2	[illegible]	☒ Groundwater ☒ Restrictive Layer ☒ Bedrock
Profile	Condition	Percent	Depth	

Soil Series/Phase Name: Scantic PD

☒ Hydric ☐ Non-hydric

Hydrologic Soil Group: _____

INVESTIGATOR INFORMATION AND SIGNATURE

Signature: Mark 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

STATE OF MAINE
MARK J. HAMPTON
#216
CERTIFIED SOIL SCIENTIST

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FORM F Rev. (

CITY OF PORTLAND, MAINE — RESURGAM

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Inspections Division
Approved with Conditions
Date: 02/05/18

SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SI

Project Name: 547 Riverside Street

Applicant Name: Robert LeBlanc

Project Location (municipality): Portland

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	Firm	Gray	common & distinct
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	D	2	12 "	☒ Groundwater ☒ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

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	Firm	Gray	common & distinct
30				
40				
50				
60				

Soil Details by S.E. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
9	C	2	16 "	☒ Groundwater ☒ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

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. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
			"	☐ Groundwater ☐ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

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. ▸▸ / S.S. ▸▸

Soil Classification		Slope	Limiting Factor	
			"	☐ Groundwater ☐ Restrictive Layer ☐ Bedrock
Profile	Condition	Percent	Depth	

Soil Series/Phase Name:

☐ Hydric ☐ Non-hydric

Hydrologic Soil Group: _____

STATE OF MAINE
MARK J. HAMPTON
#216
CERTIFIED SOIL SCIENTIST

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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