

August 6, 2019
Summit #19262

James Logan, LSE, CSS
Longview Partners, LLC
76 Chadbourne Hill Road
Bridgton, ME 04009

Reference: Explorations Report
Roosevelt Trail Property, Windham, Maine (Map 51 / Lot 40-1)

Dear Jim:

On August 6, 2019, Summit Geoengineering Services (SGS) completed a soil boring exploration and installed a monitoring well at the above referenced property to characterize the surficial materials and depth to groundwater on the property.

Surficial materials consisted stratified sands and gravels from zero to 35 feet below ground surface.

A 1-inch diameter monitoring well was installed with a screened interval of 20 to 35 feet below ground surface. The depth to groundwater is approximately 26 feet below ground surface.

A copy of the Maine Geological Survey Significant Sand and Gravel Aquifer map showing the site location is provided as Attachment 1. A boring log with surficial material and well construction information is provided as Attachment 2.

The boring/well is located at: Latitude: N43.821524
Longitude: W70.435351
Datum: NAD1983 (CONUS)

Sincerely yours,
Summit Geoengineering Services



Stephen B. Marcotte, C.G., L.S.E.
Senior Geologist

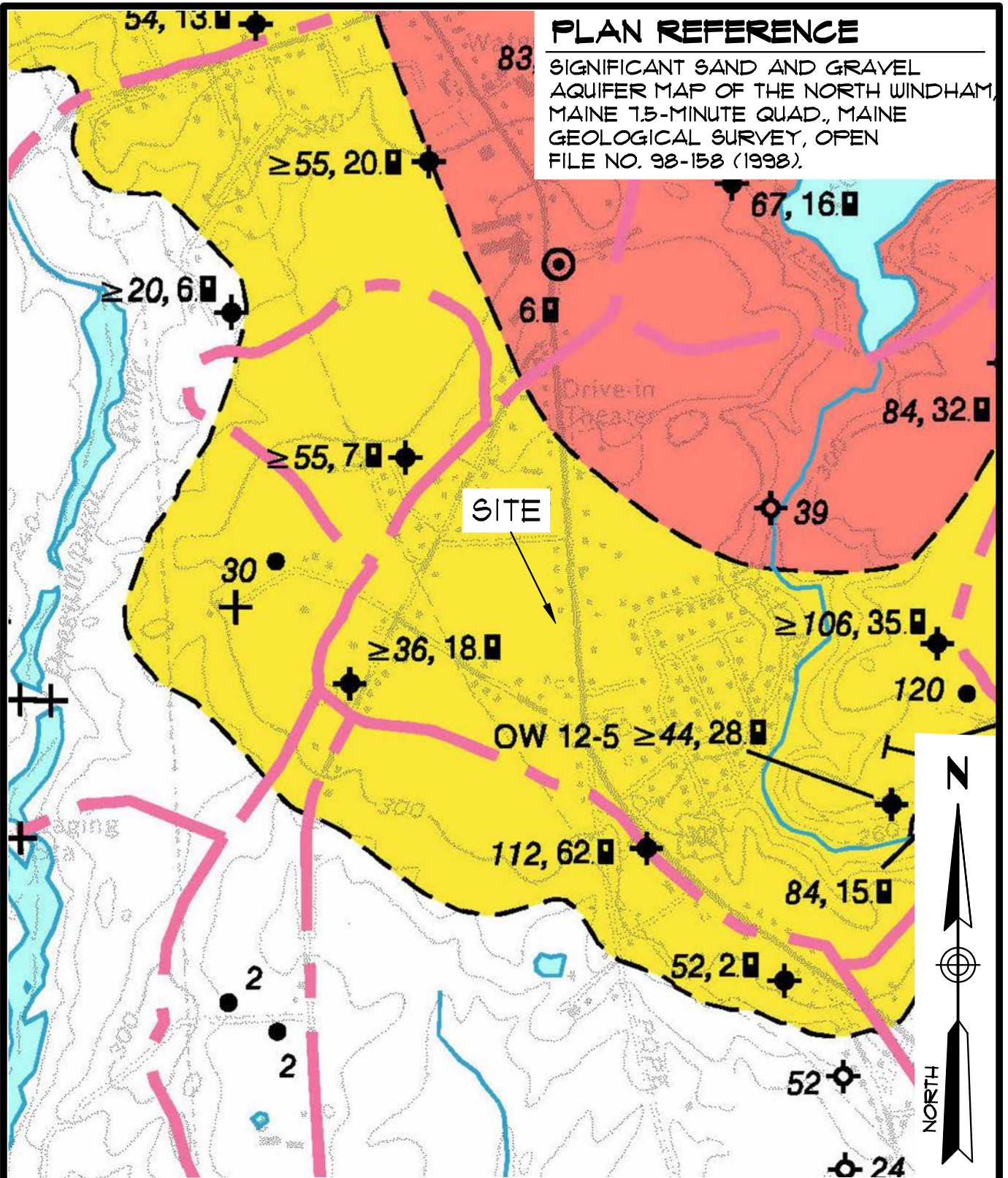
enclosures

Attachment 1

Explorations Map

PLAN REFERENCE

SIGNIFICANT SAND AND GRAVEL
AQUIFER MAP OF THE NORTH WINDHAM,
MAINE 7.5-MINUTE QUAD., MAINE
GEOLOGICAL SURVEY, OPEN
FILE NO. 98-158 (1998).



SAND & GRAVEL AQUIFER MAP ROOSEVELT TRAIL PROPERTY

WINDHAM, MAINE
PREPARED FOR
LONGVIEW PARTNERS LLC

DATE: 8-6-2019	DRAWN BY: SBM	CHECKED BY: SBM
JOB: 19262	SCALE: 1" = 1000'	FILE: 19262 SITE


145 LISBON ST. - SUITE 101
LEWISTON, ME 04240
Tel.: (207) 576-3313


173 PLEASANT STREET
ROCKLAND, ME 04841
Tel.: (207) 318-7761

SUMMIT
GEOENGINEERING SERVICES
www.summitgeoeng.com

Attachment 2

Well Completion Logs

					SOIL BORING LOG			Boring #: B-1	
Project: Roosevelt Trail Property					Project #:			19262	
Location: Map 51 / Lot 40-1					Sheet:			1 of 2	
City, State: Windham, Maine					Chkd by:			SBM	
Drilling Co: Summit Geoengineering Services, Inc.					Boring Elevation: +/- 311 ft				
Driller: Shaun Floyd					Reference: Google Earth				
Summit Staff: Steve Marcotte, CG					Date started: 8/6/2019 Date Completed: 8/6/2019				
DRILLING METHOD			SAMPLER		ESTIMATED GROUND WATER DEPTH				
Vehicle: AMS		Length: 24" SS		Date	Depth	Elevation	Reference		
Model: 9500 VTR		Diameter: 2"OD/1.5"ID		8/6/2019	26 ft bgs	+/-285 ft	28.74' below top of PVC casing		
Method: 3¼" ID HSA		Hammer: 140 lb							
Hammer Style: Auto		Method: ASTM D1586							
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION		Geological/ Test Data	Geological Stratum
					+/- 311	light yellow brown med-coarse SAND & GRAVEL w/ thin seam of fine sand, humid, compact			SAND AND GRAVEL
1									
2									
3									
4									
5									
	S1	24/19	5-7	4					
6				9					
				7					
7				7					
8									
9									
10									
	S2	24/12	10-12	3					
11				4					
				5					
12				5					
13									
14									
15									
	S3	24/15	15-17	2					
16				3					
				3					
17				4					
18									
19									
20									
	S4	24/18	20-22	3					
				4					
21				5					
				5					
22									
23									
24									
25									
Granular Soils		Cohesive Soils		% Composition		NOTES:			Soil Moisture Condition
Blows/ft. Density		Blows/ft. Consistency		ASTM D2487					
0-4 V. Loose		<2 V. soft				PP = Pocket Penetrometer, MC = Moisture Content			Dry: S = 0%
5-10 Loose		2-4 Soft		< 5% Trace		LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test			Humid: S = 1 to 25%
11-30 Compact		5-8 Firm		5-15% Little		Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength			Damp: S = 26 to 50%
31-50 Dense		9-15 Stiff		15-30% Some		Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches			Moist: S = 51 to 75%
>50 V. Dense		16-30 V. Stiff		> 30% With		Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200			Wet: S = 76 to 99%
		>30 Hard							Saturated: S = 100%

					SOIL BORING LOG				Boring #: B-1		
Drilling Co: Summit Geoengineering Services, Inc.					Project: Roosevelt Trail Property				Project #: 19262		
Driller: Shaun Floyd					Location: Map 51 / Lot 40-1				Sheet: 2 of 2		
Summit Staff: Steve Marcotte, CG					City, State: Windham, Maine				Chkd by: SBM		
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Method: 3/4" ID HSA			Hammer: 140 lb								
Hammer Style: Auto			Method: ASTM D1586								
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION		Geological/ Test Data	Geological Stratum		
	S5	24/13	25-27	3	+/- 286	wet gray coarse SAND with gravel, loose to compact			SAND AND GRAVEL		
26				5							
				7							
27				8							
28						Bottom of Boring at 35 feet bgs No Refusal					
29											
30											
31											
32											
33						Well installed in boring 2.7' stickup (0-20 feet) 1-inch Dia Sch. 40 PVC Riser (20-35 feet) 1-inch Dia Sch. 40 PVC Screen, 0.01 slot Native backfill, with the exception of bentonite seal from 0.5 to 1 ft bgs.					
34											
35											
36											
37											
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43											
44											
45											
46											
47											
48											
49											
50											
Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200					Soil Moisture Condition	
Blows/ft.	Density	Blows/ft.	Consistency							Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%	
0-4	V. Loose	<2	V. soft	< 5% Trace 5-15% Little 15-30% Some > 30% With							
5-10	Loose	2-4	Soft								
11-30	Compact	5-8	Firm								
31-50	Dense	9-15	Stiff								
>50	V. Dense	16-30	V. Stiff								
		>30	Hard								