APPENDIX B

Logs of Test Pits

HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP101

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 77.6 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				Gray silty SAND with gravel (SM), mps=6 in., moist	10	30	10	15	15	20				
		75.8		-FILL-										
2	S1 1.8'-3.0'	1.8		Gray poorly-graded SAND with silt (SP-SM), mps=2 mm, moist				30	60	10				
				Note: water seeping in at 4.6 ft.										
				-FILL-										
4		73.0												
	S2 4.6'-5.0'	4.6		Brown SILT with sand (ML), mps=0.4 mm, organic odor, roots					15	85	R			
		72.0		-FORMER TOPSOIL/ORGANICS-										
		5.6												
6				Gray-brown lean CLAY (CL), mps=0.4 mm, moist					5	95	N			
				-MARINE DEPOSIT-										
8		69.4												
		8.2		BOTTOM OF EXPLORATION 8.2 FT.										
				No refusal										
				No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth - ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 8.2
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP102

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 79.0 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		78.0		Brown silty SAND (SM), mps=0.4 mm, roots, moist					75	25				
		1.0												
2				Gray silty SAND (SM), 5% oversized, mps=12 in., moist, roots, occasional coarse sand pockets, trace insulation, 1.0 ft. diameter asphalt piece		10		20	30	40				
				-FILL-										
4														
6		73.0												
		6.0		Gray sandy lean CLAY with gravel (ML), 10% oversized, mps=2.0 ft., moist, concrete block (2.0ft. x 2.0 ft. x 6 in.) at 8.5 ft.	10	10	5	10	15	50	N			
8				-FILL-										
10		69.0		BOTTOM OF EXPLORATION 10.0 FT.										
		10.0		No refusal										
				No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth - ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 10.0
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP103

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 81.7 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		81.6		Dark brown silty SAND (SM), mps=2 mm, moist, roots				15	65	20				
		0.1		-TOPSOIL-				5	90	5				
				Red-brown poorly-graded SAND (SP), mps=2 mm, moist										
				-MARINE DEPOSIT-										
1														
		80.1												
	S1	1.6		Red-brown poorly-graded SAND (SP), mps=2 mm, moist				50	50					
	1.6'-1.8'													
2														
		79.3												
		2.4		Gray poorly-graded SAND with silt (SP-SM), mps=0.4 mm, moist					90	10				
3														
		78.3												
		3.4		Gray-brown lean CLAY (CL), mps=0.4 mm					5	95				
4														
		77.2												
		4.5		BOTTOM OF EXPLORATION 4.5 FT.										
				No refusal										
				No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid	S - Slow	N - None	
Toughness	L - Low	M - Medium	H - High	
Plasticity	N - Nonplastic	L - Low	M - Medium	H - High
Dry Strength	N - None	L - Low	M - Medium	H - High V - Very High

Standing Water in Completed Pit

at depth N/E ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 4.5
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP104

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 81.3 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test: Dilatancy	Field Test: Toughness	Field Test: Plasticity	Field Test: Strength
0				Gray-brown well-graded GRAVEL with silt and sand (GW-GM), 15% oversized, mps=6 in., moist	35	20	10	15	10	10				
1				-FILL-										
		79.5												
		1.8		Gray lean CLAY with sand (CL), mps=2 in., moist	5	5	5	5	5	75				
2														
3		78.2												
		3.1		Dark brown sandy SILT (ML), mps=2 in., moist to wet, organic odor, roots		10	5	5	30	50	S			
		77.6		-FORMER TOPSOIL/ORGANICS-										
		3.7		Gray to light brown poorly-graded SAND (SP), mps=2 mm, moist to wet				15	85					
4	S1 4.0'-4.3'			-MARINE DEPOSIT-										
		76.8												
		4.5		Mottled gray-brown lean CLAY (CL), mps=0.4 mm, moist					5	95				
5														
		76.0												
		5.3		BOTTOM OF EXPLORATION 5.3 FT.										
				No refusal										
				No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth N/E ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 5.3
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP105

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 77.2 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0														
2				Brown and gray silty SAND (SM), 10% oversized, mps=5.0 ft., moist to wet, 20% construction/miscellaneous debris, bricks, 4.0 ft. x 3.0 ft. x 8 in. and 5.0 ft. x 4.0 ft. x 8 in. concrete blocks	5	5	5	5	35	25				
				-FILL-										
4														
6														
		70.7 6.5		Brown lean CLAY (CL), mps=0.4 mm, roots					10	90				
		69.7 7.5		-FORMER TOPSOIL-										
8				Brown-gray lean CLAY (CL), mps=0.4 mm, moist					5	95				
				-MARINE DEPOSIT-										
		67.7 9.5		BOTTOM OF EXPLORATION 9.5 FT.										
				No refusal										
				No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth N/E ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 9.5
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP106

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 46.3 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0														
2		43.8 2.5		Brown silty SAND (SM), 10% oversized, (cobbles stones), mps=2.0 ft., wet		10	10	20	35	25				
4				Gray sandy lean CLAY (CL), 10% oversized, mps=3.0 ft., roots, organic odor, wood (1 ft. diameter), bricks, metal springs, 3.0 ft. x 3.0 ft. x 8 in., concrete piece -FILL-		10			25	65				
6														
8		37.8 8.5												
10				Brown well-graded SAND with gravel (SW), mps=4 in., wet	20	10	25	30	15					
		35.3 11.0		-GLACIAL STREAM DEPOSIT- BOTTOM OF EXPLORATION 11.0 FT. No refusal No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.										

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth - ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 11.0
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST PIT LOG

Test Pit No. TP107

Project	PROPOSED FOOD STORE
Location	RIVERSIDE STREET, PORTLAND, MAINE
Client	HANNAFORD BROS. CO.
Contractor	RJ GRONDIN & SONS
Equipment Used	HITACHI EX 200LC EXCAVATOR
File No.	29761-001
Date	March 19, 2003
Weather	Sunny, 20'S
H&A Rep	B. Lawrence

Ground El.: 44.5 ft
El. Datum: NGVD
Location: See Plan
Groundwater depths/entry rates (in./min.): -

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	Visual-Manual Identification and Description (Color, GROUP NAME, % oversized, max. particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				Brown well-graded SAND with silt and gravel (SW-SM), mps=2 in., moist to wet	10	15	25	20	20	10				
2				Gray silty GRAVEL with sand (GM), mps=2 in.	30	10		15	15	30				
4				Brown-gray silty SAND with gravel (SM), mps=4 in. -FILL-	15	10	20	15	20	25				
6														
		37.0 7.5		Mottled gray-brown lean CLAY (CL), mps=0.4 mm, moist to wet					5	95	N			
8		36.0 8.5		BOTTOM OF EXPLORATION 8.5 FT.										

No refusal

No elevated PID readings or other evidence of oil and hazardous materials encountered during the exploration.

Obstructions: -

Remarks: -

Field Tests

Dilatancy	R - Rapid S - Slow N - None
Toughness	L - Low M - Medium H - High
Plasticity	N - Nonplastic L - Low M - Medium H - High
Dry Strength	N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit

at depth - ft
measured after - hours elapsed

Boulders

Diameter (in.)	Number	Approx. Vol. (cu.ft)
12" to 24"	-	= -
over 24"	-	= -

Test Pit Dimensions (ft)

Pit Depth 8.5
Pit Length x Width -

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.