

APPENDIX B – TEST HOLE LOGS

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-01
LOCATION: Scotia Street; Between Seven Oaks Boulevard and Jefferson Avenue (UTM: 14 N, 5 532 752.6, 635 379.8)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 229.15
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH	COMMENTS	ELEVATION
					* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) Total Unit Wt (kN/m³)	+ Torvane + × QU × □ Lab Vane □ △ Pocket Pen. △ ⊕ Field Vane ⊕ (kPa)			
0		TOPSOIL (FILL)							229
0-1		CLAY (FILL) - some silt to silty, trace to some sand, brown, moist, firm, intermediate to high plasticity							
1-2		CLAY - silty - brown, moist, firm - intermediate plasticity		G1	●				228
2-3		SILT - some clay, trace sand - light brown, moist, soft - low plasticity		G2	●				227
3-4				G3	●				226
4-5		- some sand, trace clay at 4.6 m		G4	●				225
5-6				G5	●				224
6-7		- some clay, some sand, grey below 6.7 m		G6	●				223
7-8				G7	●				222
8-9				G8	●				221
9-10									220
10-11									219
11-12									218
12-13		END OF TEST HOLE AT 12.2 m IN SILT Notes: 1. No sloughing observed. 2. Seepage observed at 6.4 m below surface. 3. Test hole backfilled with auger cuttings and bentonite pellets.							217
13-14									216
14-15									215

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/12/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-02
LOCATION: Scotia Street at Tait Avenue (UTM: 14 N, 5 532 592.2, 635 412.6)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 229.06
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
					SPT (Standard Pen Test) (Blows/300mm)	Total Unit Wt (kN/m ³)	Lab Vane	Field Vane		
0		TOPSOIL (FILL)								
0-1		CLAY (FILL) - some silt to silty, trace to some sand, brown, moist, firm, intermediate to high plasticity								
1-2		CLAY - trace silt - dark brown, moist, firm - high plasticity		G9						228
2-3		SILT - clayey, some sand - brown, moist, soft to firm - intermediate plasticity		G10						227
3-4		- trace clay, soft below 3.7 m		G11						226
4-5				G12						225
5-6				G13						224
6-7		SAND - silty, some clay - brown, moist, loose		G14						223
7-8		SILT - some clay, some sand - grey, moist, soft to firm - intermediate plasticity		G15						222
8-9				G16						221
9-10										220
10-11										219
11-12										218
12-13		- some gravel, wet below 11.9 m								217
13-15		END OF TEST HOLE AT 12.2 m IN SILT Notes: 1. No sloughing observed. 2. Seepage observed at 11.9 m below surface. 3. Test hole backfilled with auger cuttings and bentonite pellets.								216
									Gravel: 0.0%, Sand: 61.5%, Silt: 23.1%, Clay: 15.4%	215

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/12/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-03
LOCATION: Rupertsland Boulevard; West of Scotia Street (UTM: 14 N, 5 532 453.2, 635 414.9)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 227.91
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
					* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) ■ Total Unit Wt (kN/m³)	+ Torvane + × QU × □ Lab Vane □ △ Pocket Pen. △ ⊕ Field Vane ⊕ (kPa)				
0		TOPSOIL (FILL)								
0-1		CLAY (FILL) - some silt to silty, trace to some sand, brown, moist, firm, intermediate to high plasticity								227
1-2		CLAY - silty, trace to some sand - brown, moist, soft - intermediate plasticity		G17	●					226
2-3				G18	●					225
3-4		SILT - trace clay, trace sand - brown, moist, soft - low plasticity		G19	●					224
4-5				G20	●					223
5-6				G21	●					222
6-7		CLAY - silty, trace to some sand - grey, moist, firm - intermediate to high plasticity		G22	●					221
7-8		SILT - sandy, trace clay - grey, moist, soft - low to intermediate plasticity		G23	●					220
8-9				G24	●					219
9-10		SAND - silty - brown, moist, loose		G25	●					218
10-11		CLAY - silty - grey, moist, soft - intermediate plasticity								217
11-12		- some gravel below 11.6 m								216
12-13		CLAY - some silt, trace sand, grey, moist, firm, high plasticity								215
13-14		END OF TEST HOLE AT 12.2 m IN CLAY Notes: 1. No sloughing observed. 2. Seepage observed at 5.5 m below surface. 3. Test hole backfilled with auger cuttings and bentonite pellets.								214
14-15										213

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/12/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C CLIENT: City of Winnipeg TESTHOLE NO: TH 11-04
 LOCATION: Mac Steet; Between Rupertsland Boulevard and Tait Avenue (UTM: 14 N, 5 532 609.5, 635 216.2) PROJECT NO.: 60219315
 CONTRACTOR: Paddock Drilling Ltd. METHOD: RM-30, 125 mm SSA ELEVATION (m): 228.68

SAMPLE TYPE GRAB SHELBY TUBE SPLIT SPOON BULK NO RECOVERY CORE

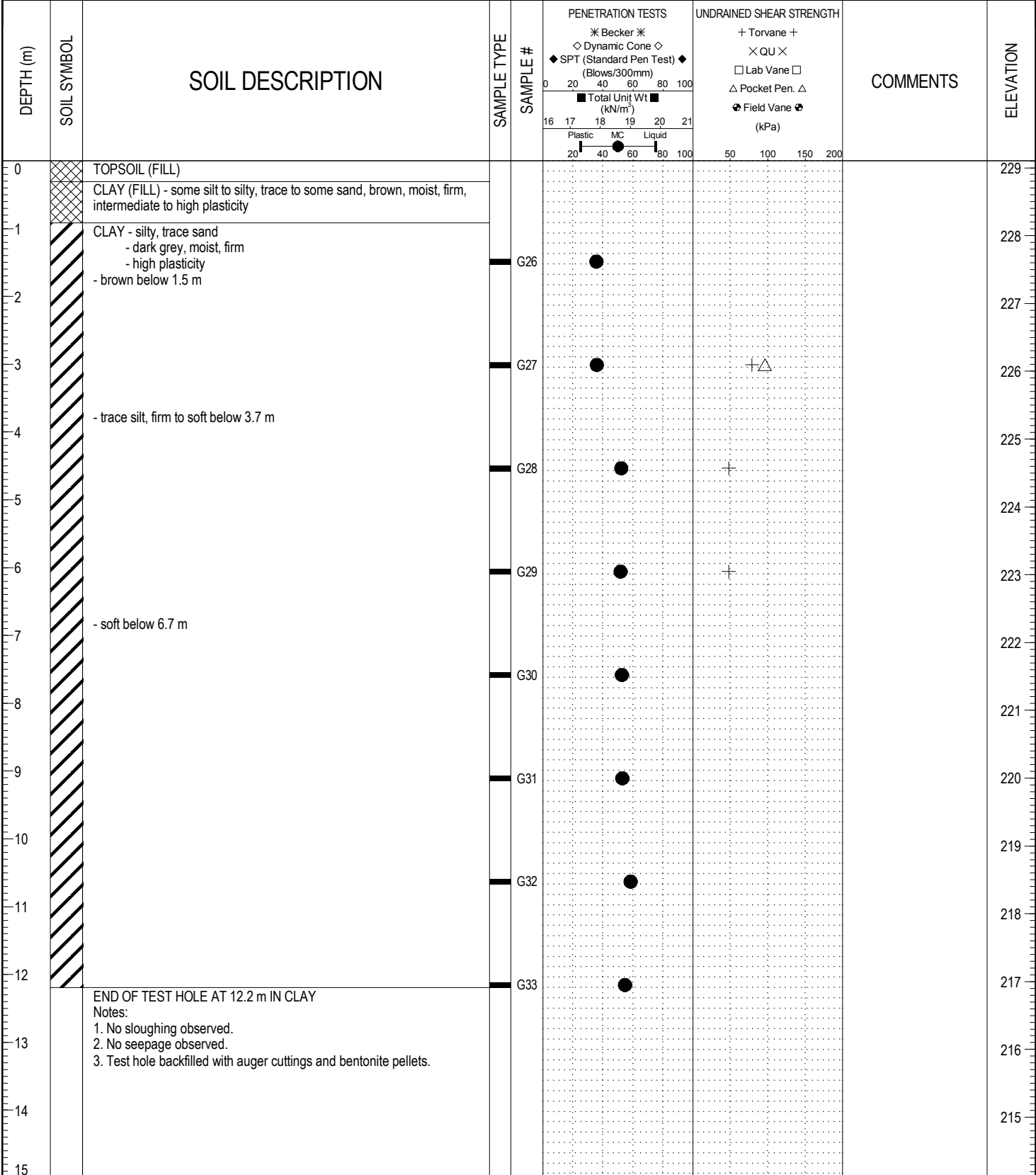
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
					SPT (Standard Pen Test) (Blows/300mm)	Total Unit Wt (kN/m ³)	Lab Vane	Field Vane		
0		TOPSOIL (FILL)								
0-1		CLAY (FILL) - some silty to silty, trace to some sand - brown, moist, firm - high plasticity								228
1-3.5		CLAY (FILL) - some silty to silty, trace to some sand - brown, moist, firm - high plasticity								227
3.5-6.4		CLAY - trace to some silt, trace to some sand - brown, moist, stiff to firm - high plasticity								226
6.4-10		- grey below 6.4 m								225
10-11		SILT - trace clay - light brown, moist to wet, very soft - low plasticity								224
11-12		CLAY - silty, trace sand - grey, moist, soft - high plasticity								223
12-12.2		END OF TEST HOLE AT 12.2 m IN CLAY								222
12.2-13		Notes: 1. No sloughing observed. 2. No seepage observed. 3. Test hole backfilled with auger cuttings and bentonite pellets.								221
13-14										220
14-15										219
										218
										217
										216
										215
										214

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche COMPLETION DEPTH: 12.19 m
 REVIEWED BY: Jared Baldwin COMPLETION DATE: 12/13/11
 PROJECT ENGINEER: Eymond Toupin Page 1 of 1

PROJECT: Jefferson East CSR D&C CLIENT: City of Winnipeg TESTHOLE NO: TH 11-05
 LOCATION: Jones Street at Colleen Road (UTM: 14 N, 5 532 613.7, 634 999.3) PROJECT NO.: 60219315
 CONTRACTOR: Paddock Drilling Ltd. METHOD: RM-30, 125 mm SSA ELEVATION (m): 229.10
 SAMPLE TYPE GRAB SHELBY TUBE SPLIT SPOON BULK NO RECOVERY CORE



LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche COMPLETION DEPTH: 12.19 m
 REVIEWED BY: Jared Baldwin COMPLETION DATE: 12/12/11
 PROJECT ENGINEER: Eymond Toupin Page 1 of 1

PROJECT: Jefferson East CSR D&C CLIENT: City of Winnipeg TESTHOLE NO: TH 11-06
 LOCATION: Seven Oaks Boulevard; Between Jones Street and Scotia Street (UTM: 14 N, 5 532 779.6, 635 215.3) PROJECT NO.: 60219315
 CONTRACTOR: Paddock Drilling Ltd. METHOD: RM-30, 125 mm SSA ELEVATION (m): 230.77

SAMPLE TYPE GRAB SHELBY TUBE SPLIT SPOON BULK NO RECOVERY CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
					SPT (Standard Pen Test) (Blows/300mm)	Total Unit Wt (kN/m ³)	Lab Vane	Field Vane		
0		TOPSOIL (FILL)								230
0-1		CLAY (FILL) - some silt to silty, trace to some sand, brown, moist, firm, intermediate to high plasticity								
1-2		CLAY - silty, trace sand, brown, moist, firm - high plasticity		G42	●					229
2-3		SILT - trace clay, trace sand - light brown, moist, soft - low plasticity		G43	●					228
3-4		CLAY - some silt to silty, trace sand - brown, moist, firm - high plasticity		G44	●					227
4-5				G45	●		△+			226
5-6				G46	●		△+			225
6-7		- soft below 6.7 m		G47	●		△+			224
7-8				G48	●		△+			223
8-9		- grey below 8.2 m		G49	●		△+			222
9-10				G50	●					221
10-11										220
11-12										219
12		- trace gravel (<12 mm dia.)								218
12		END OF TEST HOLE AT 12.2 m IN CLAY								218
12		Notes: 1. No sloughing observed. 2. No seepage observed. 3. Test hole backfilled with auger cuttings and bentonite pellets.								217

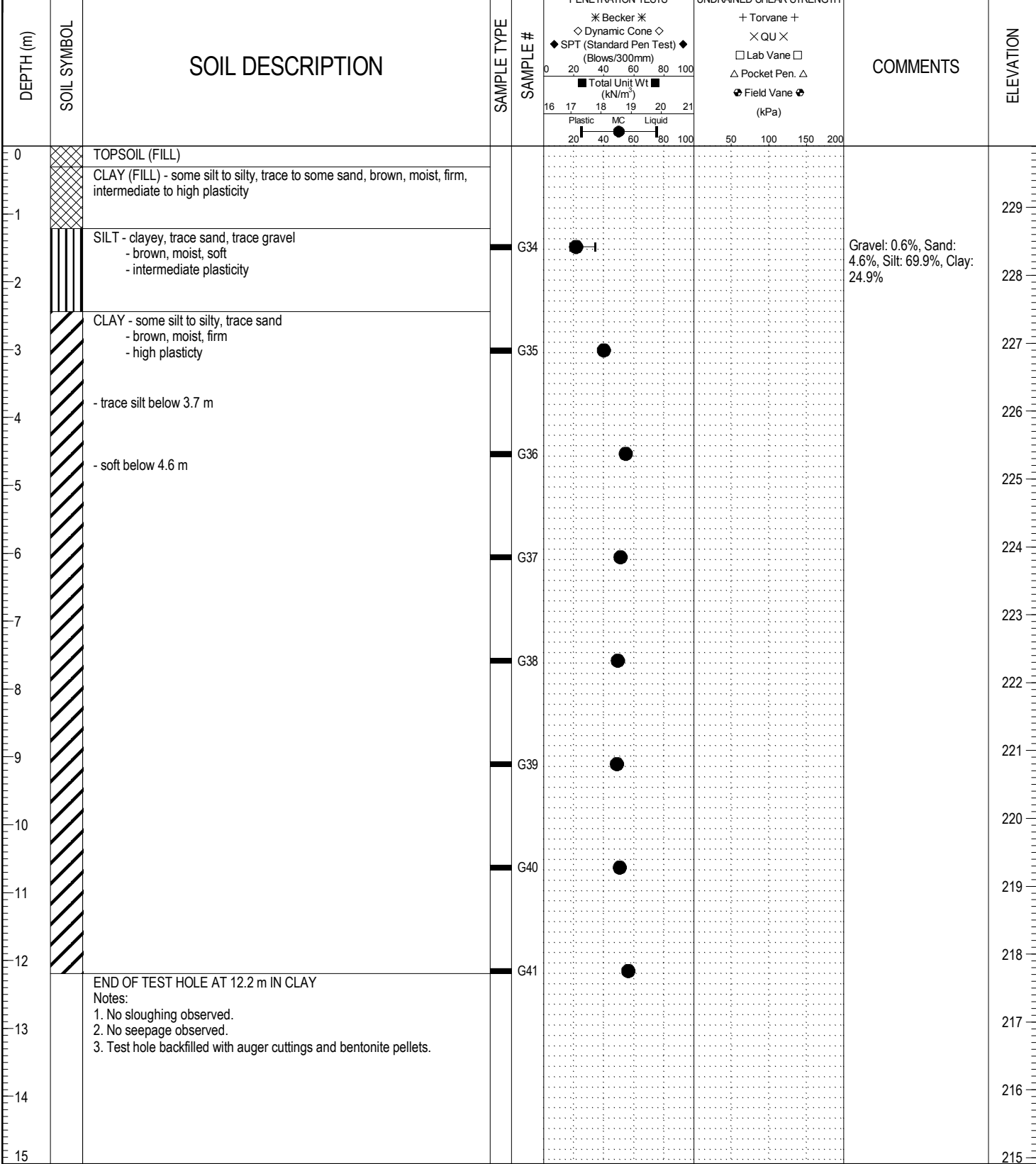
LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche COMPLETION DEPTH: 12.19 m
 REVIEWED BY: Jared Baldwin COMPLETION DATE: 12/13/11
 PROJECT ENGINEER: Eymond Toupin Page 1 of 1

PROJECT: Jefferson East CSR D&C CLIENT: City of Winnipeg TESTHOLE NO: TH 11-07
 LOCATION: Seven Oaks Boulevard; East of Main Street (UTM: 14 N, 5 532 903.1, 634 952.4) PROJECT NO.: 60219315
 CONTRACTOR: Paddock Drilling Ltd. METHOD: RM-30, 125 mm SSA ELEVATION (m): 229.91

SAMPLE TYPE GRAB SHELBY TUBE SPLIT SPOON BULK NO RECOVERY CORE

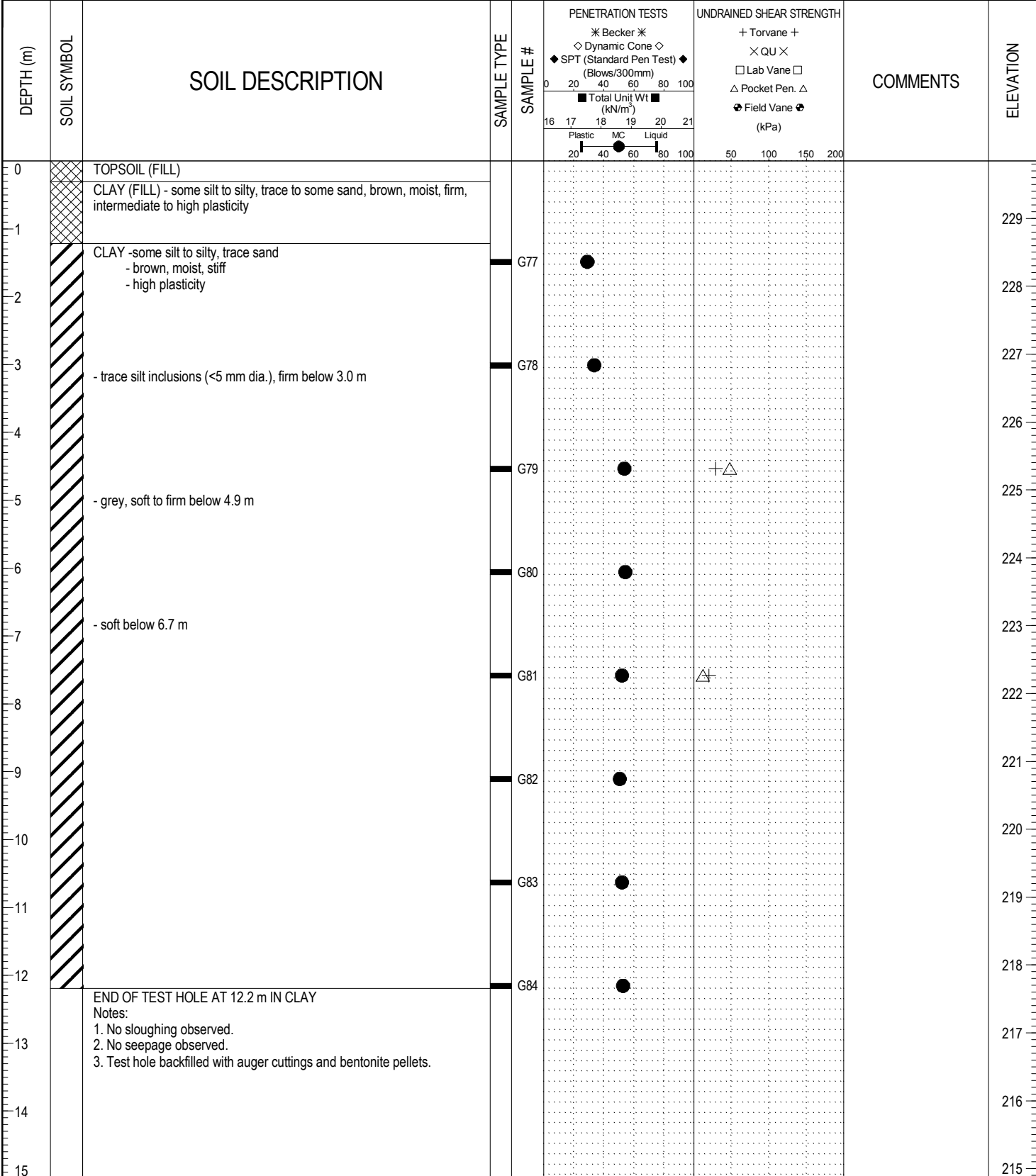


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINNI.GDT 1/23/12



LOGGED BY: Stephen Petsche COMPLETION DEPTH: 12.19 m
 REVIEWED BY: Jared Baldwin COMPLETION DATE: 12/12/11
 PROJECT ENGINEER: Eymond Toupin Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-08
LOCATION: Jones Street at St. Anthony Avenue (UTM: 14 N, 5 533 005.7, 635 169.6)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 229.85
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	

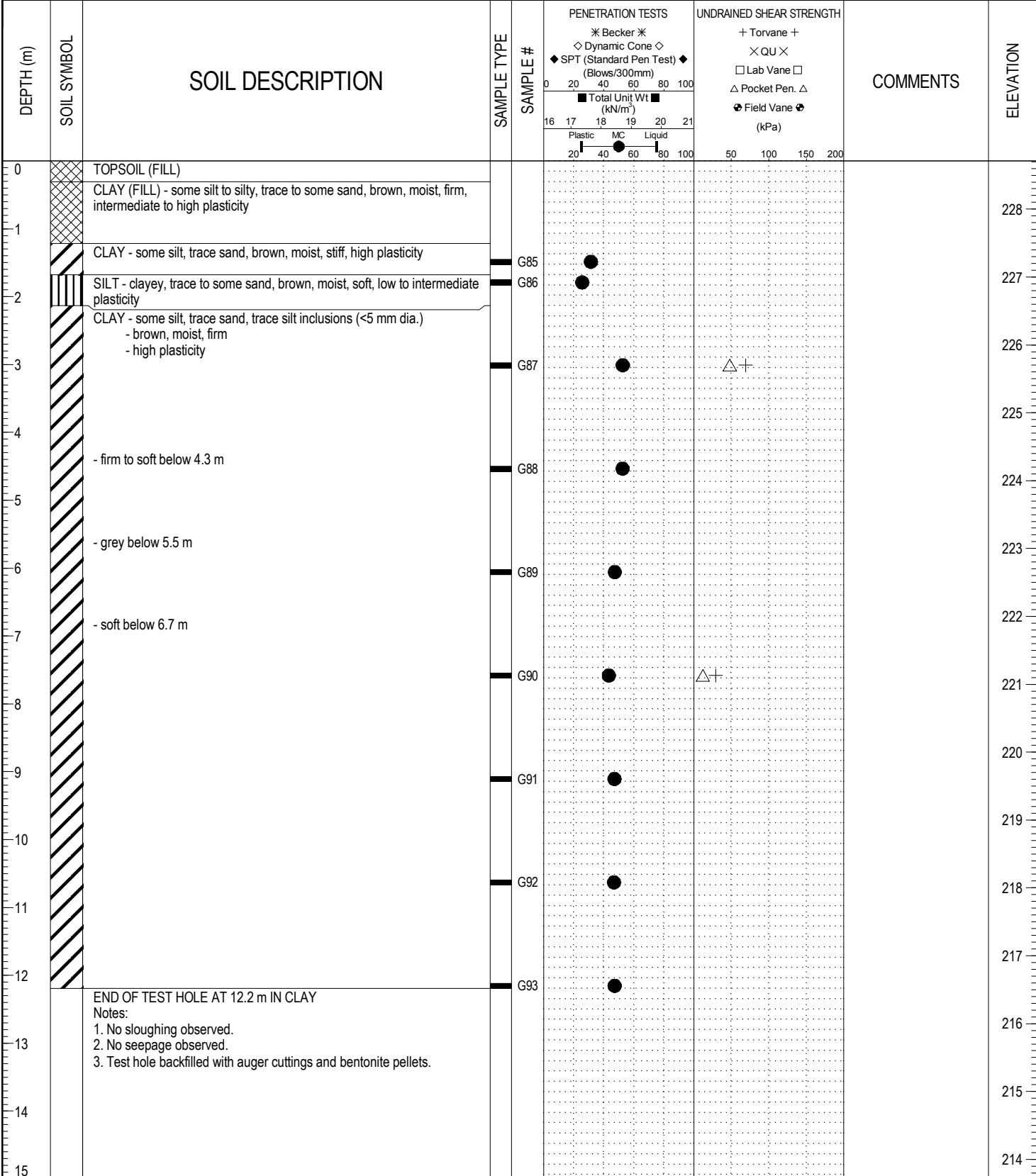


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/13/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-09
LOCATION: Jones Street at Hartford Avenue (UTM: 14 N, 5 533 159.7, 635 238.0)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 228.71
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	



LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/13/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-10
LOCATION: Scotia Street at Belmont Avenue (UTM: 14 N, 5 533 204.8, 635 369.7)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 230.67
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE

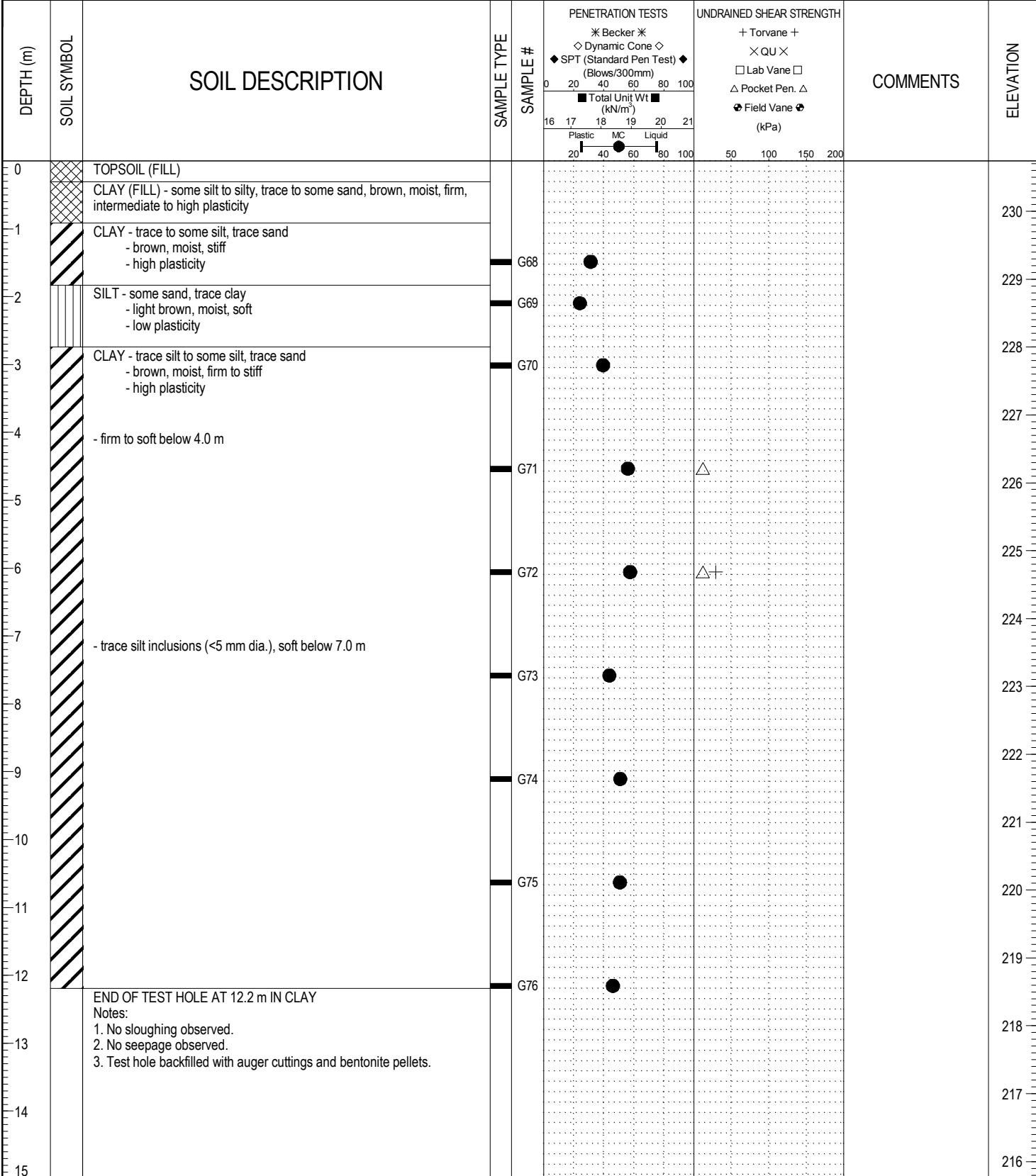
DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS		UNDRAINED SHEAR STRENGTH		COMMENTS	ELEVATION
					Blows/300mm	Total Unit Wt (kN/m ³)	+	×		
0		TOPSOIL (FILL)								230
0-1		CLAY (FILL) - some silt to silty, trace to some sand, brown, moist, firm, intermediate to high plasticity								
1-2		CLAY - some silt to silty, trace sand, brown, moist, firm - high plasticity		G94	●					229
2-3		SILT - trace to some clay, trace sand - light brown, moist, soft - low plasticity		G95	●					228
3-4		CLAY - trace to some silt, trace sand - brown, moist, firm - high plasticity		G96	●					227
4-12		- grey, soft below 4.0 m		G97	●		△			226
				G98	●		△			225
				G99	●		△			224
				G100	●					223
				G101	●					222
				G102	●					221
12		END OF TEST HOLE AT 12.2 m IN CLAY								218
13		Notes: 1. No sloughing observed. 2. No seepage observed. 3. Test hole backfilled with auger cuttings and bentonite pellets.								217

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/14/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-11
LOCATION: Semple Avenue; East of Main Street (UTM: 14 N, 5 533 432.1, 635 210.0)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 230.74
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE

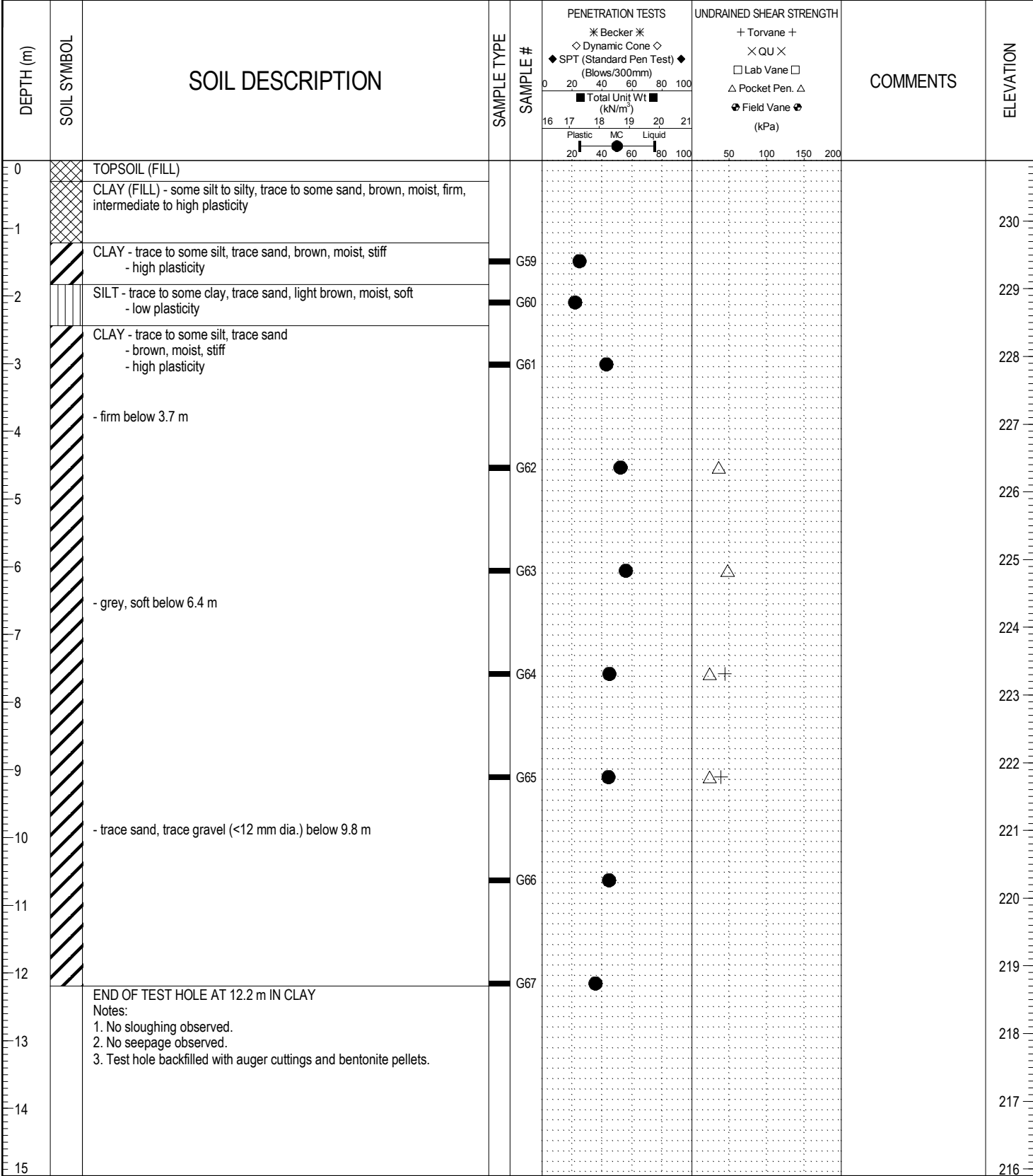


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/13/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-12
LOCATION: Scotia Street at Semple Avenue (UTM: 14 N, 5 533 321.9, 635 426.4)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 230.89
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	

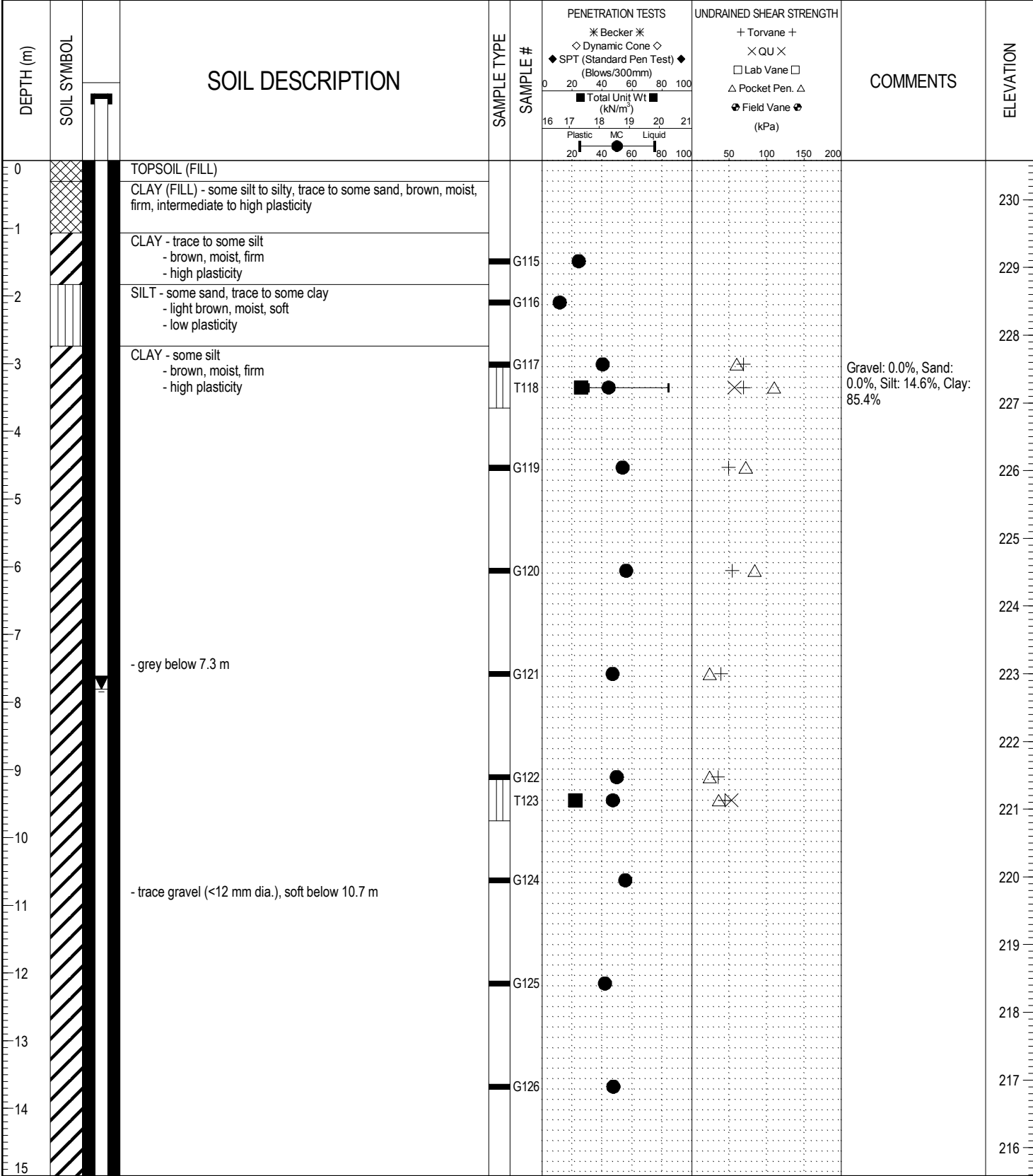


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 12.19 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/13/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 1

PROJECT: Jefferson East CSR D&C		CLIENT: City of Winnipeg		TESTHOLE NO: SP 11-13		
LOCATION: Upper Outfall Area; East of Scotia Street (UTM: 14 N, 5 533 354.1, 635 496.6)		METHOD: RM-30, 125 mm SSA		PROJECT NO.: 60219315		
CONTRACTOR: Paddock Drilling Ltd.		ELEVATION (m): 230.58				
SAMPLE TYPE	GRAB	SHELBY TUBE	SPLIT SPOON	BULK	NO RECOVERY	CORE
BACKFILL TYPE	BENTONITE	GRAVEL	SLOUGH	GROUT	CUTTINGS	SAND

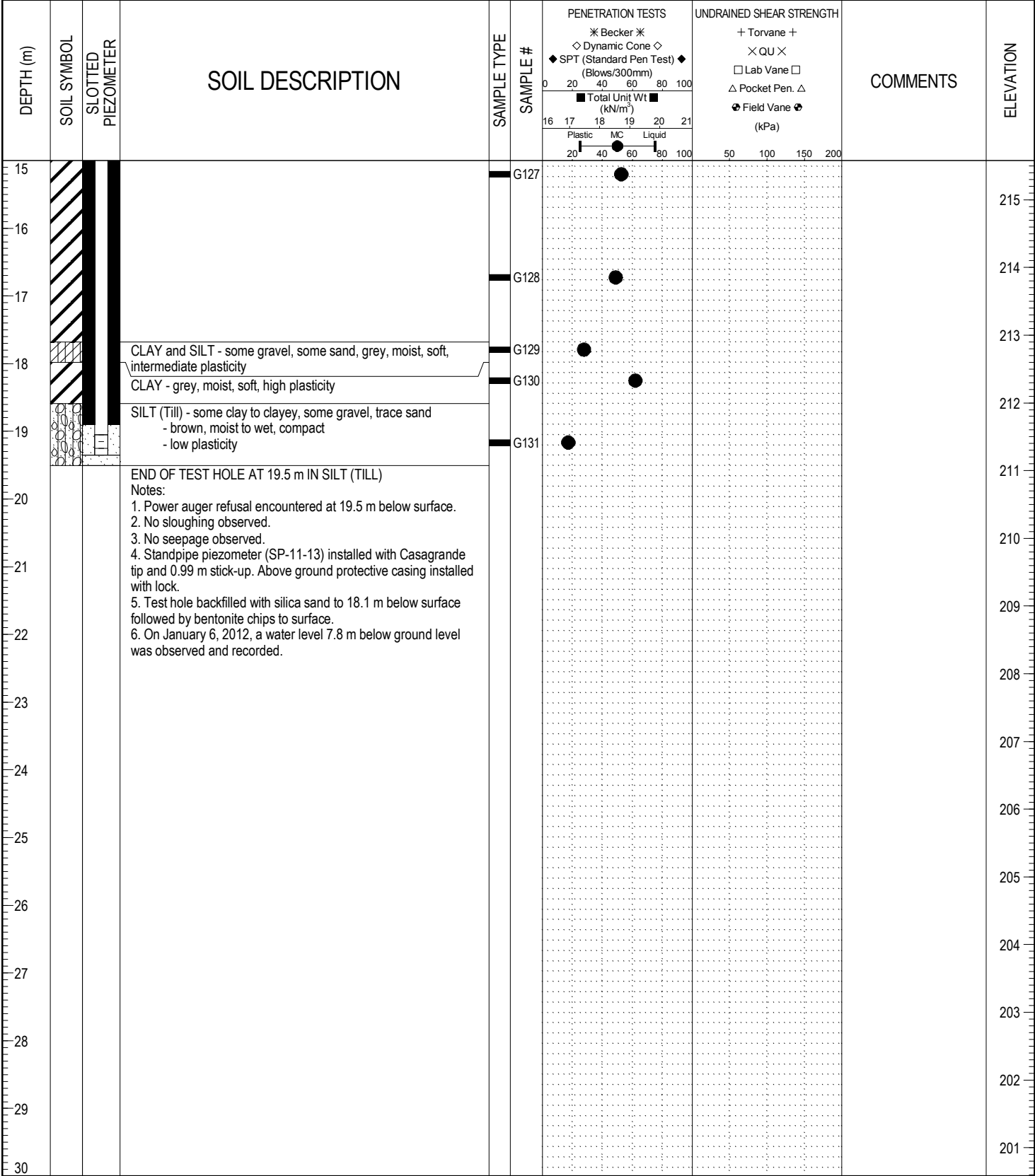


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 19.51 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/14/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 2

PROJECT: Jefferson East CSR D&C		CLIENT: City of Winnipeg		TESTHOLE NO: SP 11-13		
LOCATION: Upper Outfall Area; East of Scotia Street (UTM: 14 N, 5 533 354.1, 635 496.6)				PROJECT NO.: 60219315		
CONTRACTOR: Paddock Drilling Ltd.		METHOD: RM-30, 125 mm SSA		ELEVATION (m): 230.58		
SAMPLE TYPE	GRAB	SHELBY TUBE	SPLIT SPOON	BULK	NO RECOVERY	CORE
BACKFILL TYPE	BENTONITE	GRAVEL	SLOUGH	GROUT	CUTTINGS	SAND

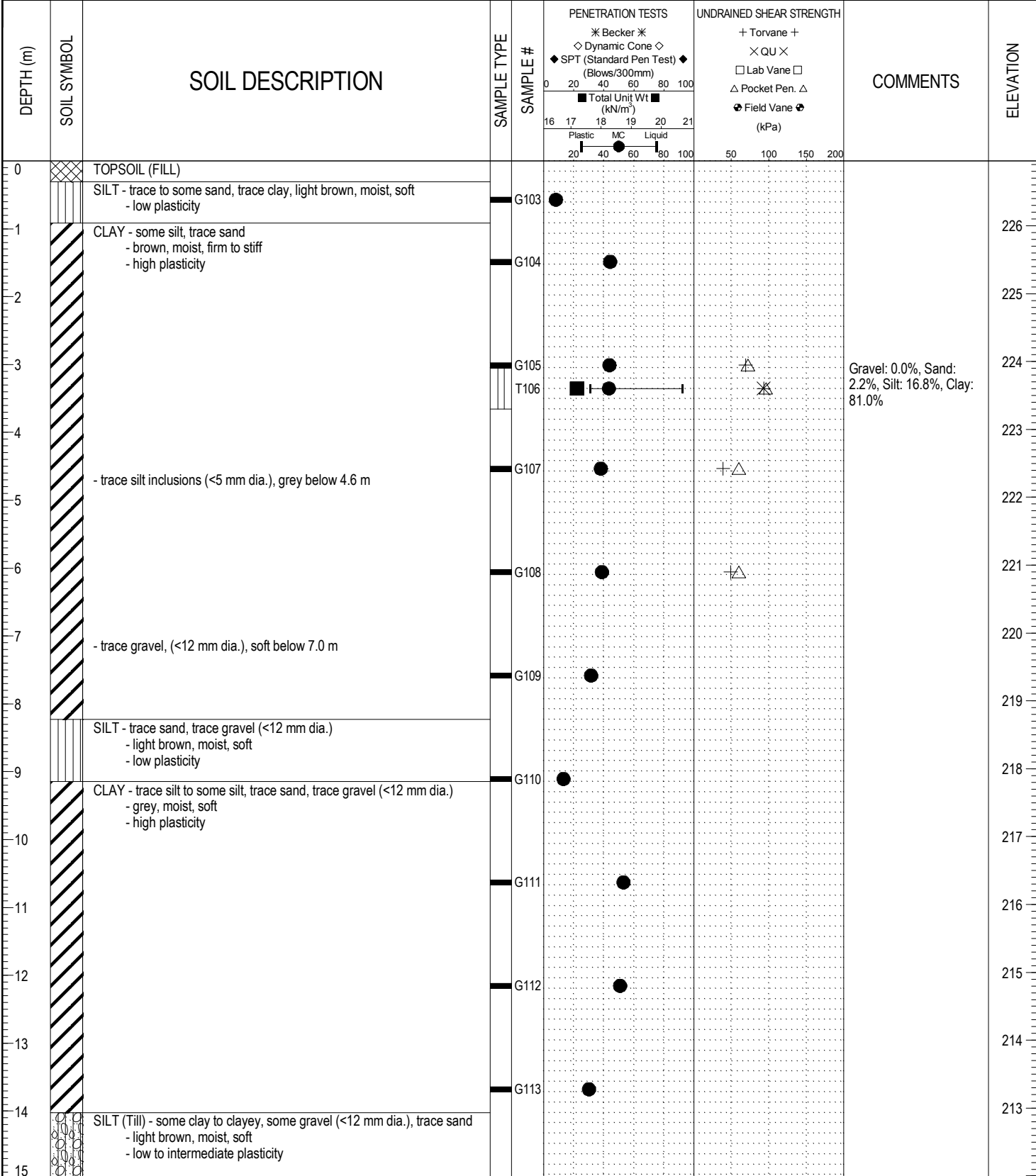


LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINNI.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 19.51 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/14/11
PROJECT ENGINEER: Eymond Toupin	Page 2 of 2

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-14
LOCATION: Lower Outfall Area; East of Scotia Street (UTM: 14 N, 5 533 345.7, 635 513.5)		PROJECT NO.: 60219315
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 226.96
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	



LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINNI.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 15.54 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/14/11
PROJECT ENGINEER: Eymond Toupin	Page 1 of 2

PROJECT: Jefferson East CSR D&C	CLIENT: City of Winnipeg	TESTHOLE NO: TH 11-14
LOCATION: Lower Outfall Area; East of Scotia Street (UTM: 14 N, 5 533 345.7, 635 513.5)	PROJECT NO.: 60219315	
CONTRACTOR: Paddock Drilling Ltd.	METHOD: RM-30, 125 mm SSA	ELEVATION (m): 226.96
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	PENETRATION TESTS	UNDRAINED SHEAR STRENGTH	COMMENTS	ELEVATION
15	●	END OF TEST HOLE AT 15.5 m IN SILT (TILL) Notes: 1. Power auger refusal encountered at 15.5 m below surface. 2. No sloughing observed. 3. No seepage observed. 4. Test hole backfilled with auger cuttings and bentonite pellets.		G114	* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) 0 20 40 60 80 100 ■ Total Unit Wt ■ (kN/m ²) 16 17 18 19 20 21 Plastic MC Liquid 20 40 60 80 100	+ Torvane + × QU × <input type="checkbox"/> Lab Vane <input type="checkbox"/> △ Pocket Pen. △ ⊗ Field Vane ⊗ (kPa) 50 100 150 200		211
16								210
17								209
18								208
19								207
20								206
21								205
22								204
23								203
24								202
25								201
26								200
27								199
28								198
29								
30								

LOG OF TEST HOLE JEFFERSON EAST LOGS.GPJ UMA WINN.GDT 1/23/12



LOGGED BY: Stephen Petsche	COMPLETION DEPTH: 15.54 m
REVIEWED BY: Jared Baldwin	COMPLETION DATE: 12/14/11
PROJECT ENGINEER: Eymond Toupin	Page 2 of 2