



Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Morris Valley **Contract Area:** Fraser Valley **Equipment Type:** Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Water Table Elevation (m)	Remarks	Bag #						
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4					C (%)	F (%)	C (%)	F (%)		
												A (%)	B (%)				C (%)	F (%)								C (%)	F (%)
13-1	0.5	0.0	0.5	3/4" CR																		FVI					
	0.3	0.5	0.8	TS																			FVI; BURIED ORGANICS				
	4.2	0.8	5.0	GP	5	2	1	350	65	34	1												WSA	271			
	1.0	5.0	6.0	GP	7	3	2	450	64	34	2												FVI				
13-2	0.8	0.0	0.8	3/4" CR																				FVI			
	2.7	0.8	3.5	GP	3	1		300	59	40	1													WSA	272		
	2.5	3.5	6.0	GP	2	1		300	55	44	1													WSA	990		
13-3	0.5	0.0	0.5	3/4" CR																					FVI		
	4.5	0.5	5.0	GP	10	5	1	450	66	32	2	83	75	4.7	9.6										WSA; CAVED IN	991	
13-4	5.0	0.0	5.0	GP	5	2		300	60	39	1	84	64	3.8	7.9										WSA; CAVED IN	992	
13-5	2.0	0.0	2.0	GP	5	2		200	62	36	2														FVI		
	3.5	2.0	5.5	SM2						76	24															FVI	
	1.0	5.5	6.5	GP	2			150	61	35	4														WSA	993	
13-6	5.5	0.0	5.5	GP	5	2	1	600	62	36	2	60	56			67									WSA	995	

FVI= Field Visual Identification
BRX= Bedrock

WSA= Washed Sieve Analysis

LVI= Lab Visual Identification



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Pit: Morris Valley

Contract Area: 7

Equipment Type: Sonic

Date: March 2017

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator					Density	Absorption		Water Table Elevation (m)	Remarks	Bag #				
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C	F							
												A	B			C							F	C	F	
												(%)	(%)	(%)	(%)	(%)		(%)	(%)				(%)	(%)	(%)	(%)
17-5	2.4	70.5	68.1	GP					64	35	1												FVI			
	1.0	68.1	67.1	GPGM					69	23	8	79	67											WSA	9	
	0.9	67.1	66.2	SP					15	74	1													FVI		
	7.9	66.2	58.3	GM1					50	36	14													WSA	10	
	0.6	58.3	57.7	ML					20	25	55													FVI		
	16.5	57.7	41.2	GM1					46	39	15							0.9	3.9					WSA	21	
NOTE: VERY BOULDERY & COBBLY THROUGHOUT TH17-5																										
17-6	3.0	70.0	67.0	GP					64	35	1														FVI	
	8.9	67.0	58.1	GPGM					62	32	6	77	65												WSA	22
	1.2	58.1	56.9	GP					64	35	1														FVI	
	0.3	56.9	56.6	GM1					50	35	15														FVI	
	14.0	56.6	42.6	SPSM					43	49	8	65	61	6.5	12										WSA	23
	1.9	42.6	40.7	GPGM					60	30	10														FVI	

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Pit: Morris Valley Contract Area: Fraser Valley-7 Equipment: Excavator Date: Apr 2020

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Standard Proctor	Total or Water-soluble Sulphate Ion Content	Water-soluble Chloride Ion Content in Hardened Grout/Concrete	Water Table Elevation (m)	Remarks	Bag #								
					Gravel	Sand	Fines	75-150 mm	150-300 mm	> 300 mm	Maximum Size (mm)	Fracture		Micro Duval			MgSO4								C (%)	F (%)	C (%)	F (%)				
												A (%)	B (%)	C (%)	F (%)		C (%)	F (%)											C (%)	F (%)		
20-1	5.0	34.8	29.8	GW	56	40	4	6	3	3	600																				UTM: 576976E 5460913N; 1st meter may be from material pushed down from slope top; lots of stuffing; WSA	1002
20-2	1.3	56.3	55.0	SM3	0	65	35	3	2																						UTM: 577005E 5460972N; FVI	
	3.2	55.0	51.8	SM2	8	64	28																								seam of thin gravel; WSA	1003
	0.3	51.8	51.5	GP	56	42	2																								Iron rich rock; FVI	
20-3	5.7	71.0	65.3	GW	60	36	4	12	8	5	340																				UTM: 577076E 5461125N; Gravel is wet while going deeper; WSA	1004
20-4	3.7	69.1	65.4	GW	70	30	0.7	7	5	3																					UTM: 577034E 5461042N; WSA	1006
	1.7	65.4	63.7	SM2	10	62	28																								sample has little pebbles; WSA	1005
	0.3	63.7	63.4	GP	56	42	2																								Iron rich rock; FVI	
	0.8	63.4	62.6	SM1	10	72	18																								FVI	
20-5	1.1	65.5	64.4	GP	58	41	1	15	10	5																					UTM: 576962E 5461044N; FVI	
20-6	1.9	63.6	61.7	GP	58	41	1																								UTM: 576995E 5461103N; @1.5m, 0.4m of seam of gravel; FVI	
	1.0	61.7	60.7	SM2	1	70	29																								WSA	1008
	2.9	60.7	57.8	GPGM	51	44	5	14	9	5	400																				WSA	1009

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					Gravel	Sand	Fines	75-150 mm	150-300 mm	> 300 mm	Maximum Size (mm)	Fracture		Micro Duval			MgSO4								C (%)	F (%)	C (%)	F (%)	
												A (%)	B (%)	C (%)	F (%)		C (%)	F (%)											C (%)
20-7	5.2	59.5	54.3	GP	53	43	4	7	3		200																	UTM: 577010E 5461151N; WSA	1010
20-8	0.2	65.1	64.9	CRUSH																				64			UTM: 577000E 5461063N; FVI		
	1.2	64.9	63.7	SM1	10	72	18																					Potential border/end of WT; FVI	
20-9	0.2	64.4	64.2	CRUSH																								UTM: 577016E 5461076N; FVI	
	4.5	64.2	59.7	SM3	0	67	33																					Trace of Water Table@61.7m; WSA	1011
	0.8	59.7	58.9	SPSM	21	72	7																					Interbedded with sand layer; WSA	1007
20-10	1.0	63.8	62.8	GP	55	42	3	15	10	5	500																	UTM: 577033E 5461117N; bolders at this layer only; FVI	
	1.8	62.8	61.0	GW	58	39	3	1	0	0		90	88	4	11													Dipping from North to South; WSA	1013
	1.1	61.0	59.9	GPGM	54	41	5	1	0	0						42	1	2	3	3								WSA	1012
20-11	2.1	70.4	68.3	GPGM	64	31	5	10	6	7		86	83	4	10													UTM: 577057E 5461249N; WSA	1015
	1.4	68.3	66.9	GP	54	43	3	5	0	0																		WSA	1014
20-12	0.2	73.4	73.2	OB/TS								90	89	4	9													UTM: 577013E 5461336N; FVI	
	3.1	73.2	70.1	GW	70	29	1	16	9	5						31	1	5	3	3								WSA	1016
	1.9	70.1	68.2	GP	61	36	3	4	2	0																		WSA	1017

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Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Standard Proctor	Total or Water-soluble Sulphate Ion Content	Water-soluble Chloride Ion Content in Hardened Grout/Concrete	Water Table Elevation (m)	Remarks	Bag #						
					Gravel	Sand	Fines	75-150 mm	150-300 mm	> 300 mm	Maximum Size (mm)	Fracture		Micro Duval	Sand Eq.										MgSO4					
												A (%)	B (%)												C (%)	F (%)	C (%)	F (%)	C (%)	F (%)
20-13	0.4	77.2	76.8	OB/TS																UTM: 576922E 5461363N; FVI										
	1.4	76.8	75.4	GP	55	42	3	15	8	4										FVI										
	2.2	75.4	73.2	GP	61	35	4	15	8	4										Lesser oversize going deeper; WSA	84									
	2.2	73.2	71.0	GW	61	35	4	6	2	0										WSA	Rice bag									

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