amec	**Project**	Mount Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-06	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	4-Feb-14

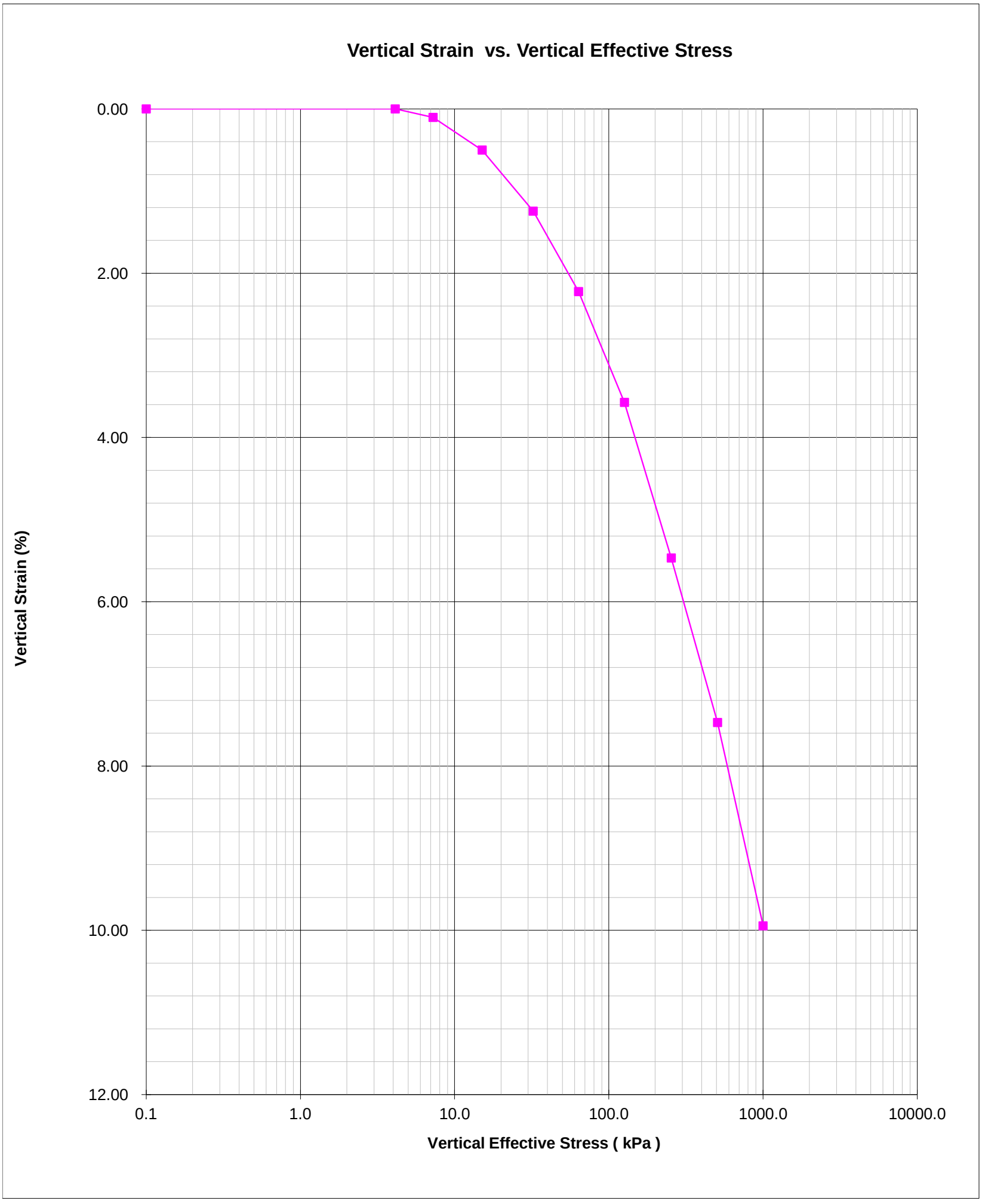
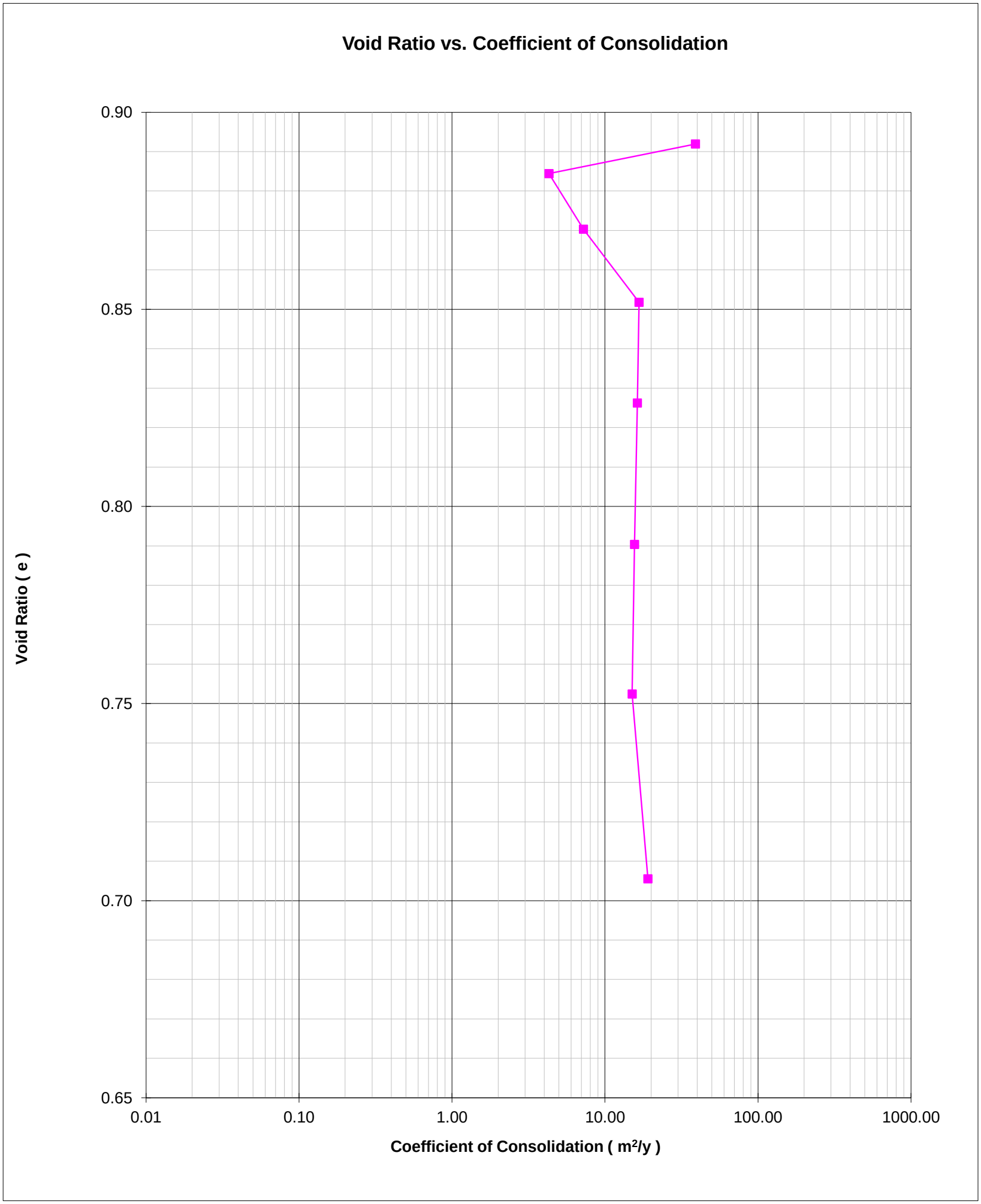
Apparatus Data			**Moisture Content Data**		
Ring No.	9		Wt. of Ring + Soil + Water (Start)	199.80	g
Weight of ring	87.5	g	Wt. of Ring + Soil + Water (End)	204.95	g
Thickness	18.7	mm	Wt. of Ring	87.50	g
Diameter	66.0	mm	Wt. of Soil + Water (End)	117.45	g
Area	34.2	cm^2	Wt. of Tare (Tare #)	87.50	g
Machine No.	9		Wt. of Soil Dry + Tare	181.20	g
Loading Beam Ratio	11:01		Wt. of Soil	93.70	g
Weight of Top + Stone	0.345	kg			

Specimen Data	**Initial**	**Final**		**Index Tests**		Calculated	Final
Specimen Height	18.7200	16.8581	mm	Specific Gravity	(Assumed)	2.77	
Volume of Specimen	64.06	57.69	ml	Liquid Limit	%		
Volume of Solids	33.83	33.83	ml	Plastic Limit	%		
Volume of Voids	30.24	23.87	ml	Plastic Index	%		
Volume of Water	18.60	23.75	ml	Sand	%		
Void Ratio	0.894	0.706		Silt	%		
Saturation	61.5	100	%	Clay	%		
Moisture Content	19.9	25.3	%	**Soil Description**		SILTY SAND(86%SPDD)	
Height of Solids	9.88	9.88	mm				
Wet Density	1753	2036	kg/m_3				
Dry Density	1463	1624	kg/m^3				
Compressive Index C_C		**0.120**		Swelling Pressure P_S		**4.12**	kPa
Recompression Index C_r				Percent Swell			%
Pre-Consolidation Pressure P_O'		**125**	kPa	Overburden Pressure P_V			kPa

Pressure p (kPa)	Dial Reading (mm)	Apparatus Deformation (mm)	Corrected Height (mm)	Vertical Strain ε (%)	Void Ratio e	Constrained Modulus E=Δp/Δε (MPa)	Coeff. of Consolidation c_v (m^2/yr)	Coeff.of Volume Compressibility m_v (m^2/MN)	Coeff. of Permeability $k = c_v m_v \rho_w g$ (m/s)
0.1	18.7200		18.7200		0.894				
4.12	18.7200		18.7200		0.894				
7.25	18.7004	-0.0002	18.7007	0.10	0.892	3.03	39.03	3.3E-01	4.0E-09
15.09	18.6258	-0.0005	18.6263	0.50	0.884	1.97	4.30	5.1E-01	6.8E-10
32.32	18.4863	-0.0007	18.4870	1.24	0.870	2.32	7.23	4.3E-01	9.8E-10
63.66	18.3025	-0.0012	18.3037	2.22	0.852	3.20	16.70	3.2E-01	1.6E-09
126.34	18.0489	-0.0023	18.0512	3.57	0.826	4.65	16.28	2.2E-01	1.1E-09
254.20	17.6929	-0.0037	17.6966	5.47	0.790	6.75	15.60	1.5E-01	7.5E-10
507.41	17.3179	-0.0037	17.3216	7.47	0.752	12.64	15.05	8.4E-02	3.9E-10
1000.68	16.8527	-0.0054	16.8581	9.95	0.706	19.92	19.07	5.4E-02	3.2E-10

amec	**Project**	Mount Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-06	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14

amec	**Project**	Mount Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-06	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14



amec	**Project**	Mount Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-06	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14