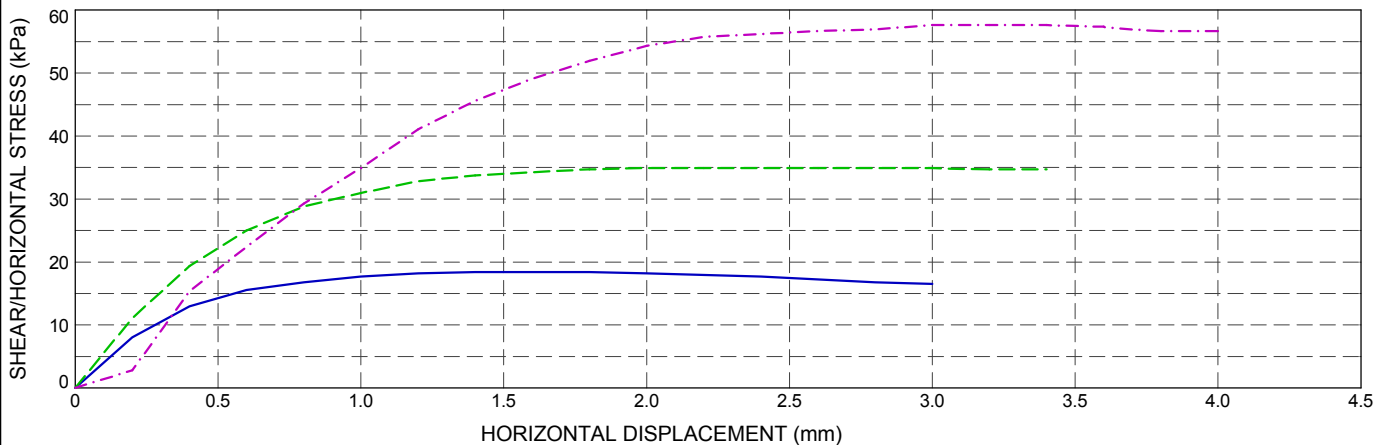
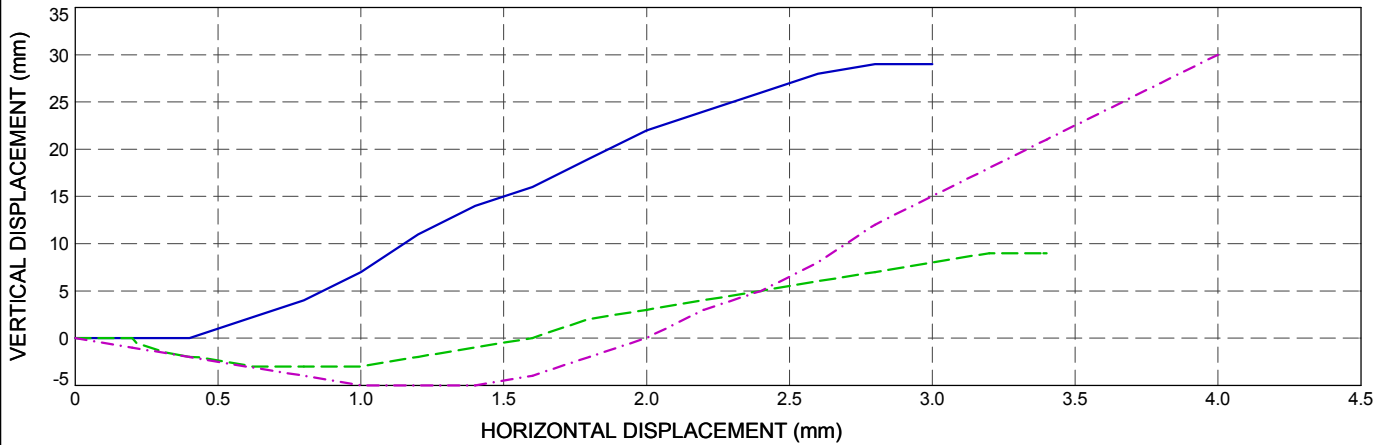
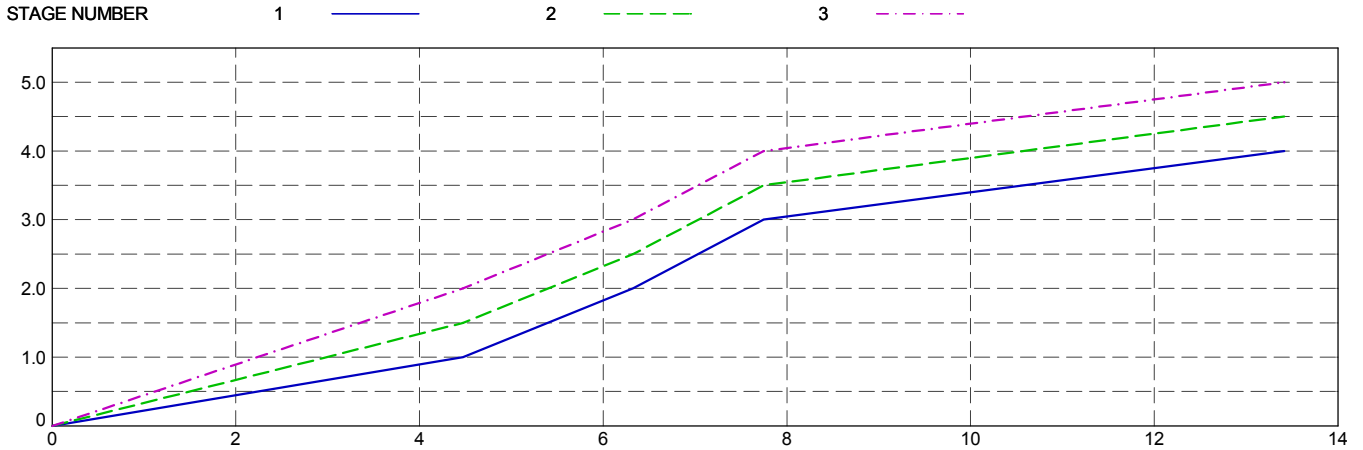


CLIENT : Client 1  
ENGINEER : Engineer 1  
PROJECT : Construction Project  
LOCATION : Somewhere, World  
PROJECT No. : 1234  
LABORATORY : Lab 1

LOCATION  
DUMP AREA :  
LAYER :  
CH / OS :  
COORDS. :  
ELEVATION :

SAMPLING DATA  
HOLE ID : V-Lab  
HOLE TYPE : TP  
SAMPLE DEPTH : 0.00-1.00 m  
SAMPLE TYPE : D  
SAMPLE REF : 1  
SPECIMEN DEPTH : 0.10 m  
SPECIMEN REF : 2  
SAMPLE DATE :  
SAMPLED BY : LB - Contactor 1

LABORATORY SPECIMEN DESCRIPTION:  
Slightly silty very gravelly well graded SAND (SW) medium to coarse sand, fine to medium gravel



GENERAL REMARKS: Rem;VPRem;SDRem

Fill Type  
▲ Type 1

Requirement Remark  
Not Applicable

Tested By TB	Tested Date 01/01/2010
Checked By CB	Checked Date 03/01/2010
Approved By AB	Approved Date 04/01/2010

SPECIMEN PREPARATION:

TEST METHOD:  
BS1377-7:1990:4.5.4 small shearbox - single stage

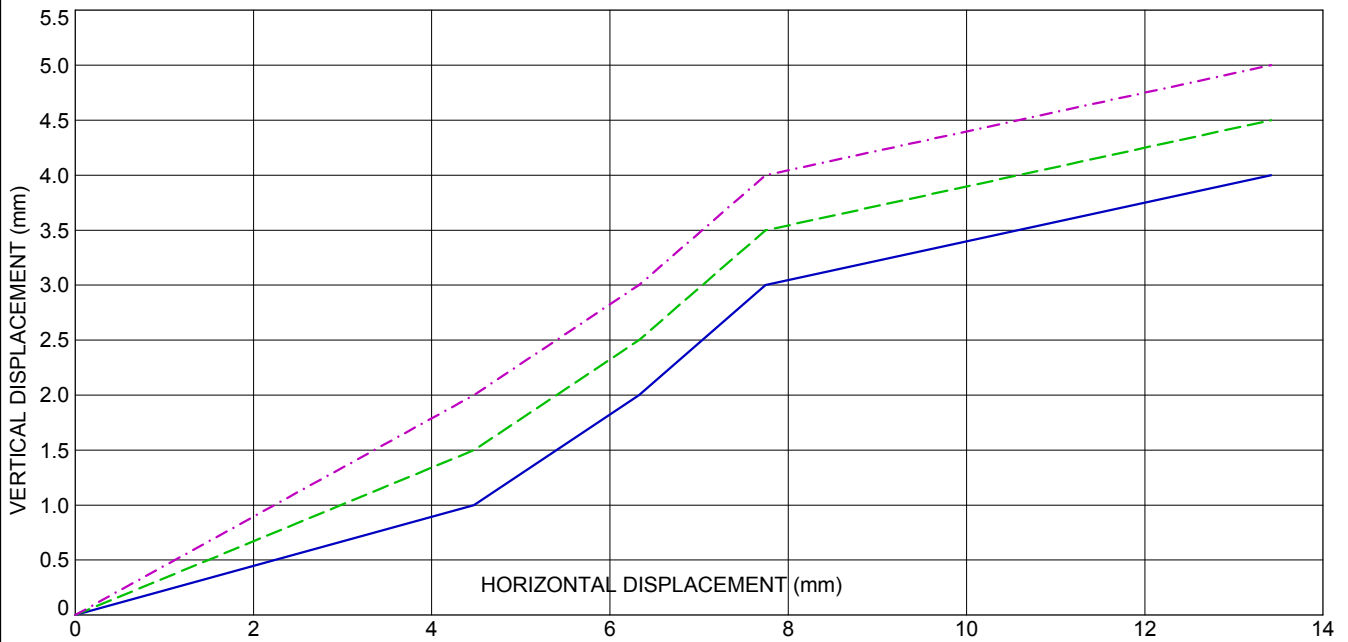
CLIENT : Client 1  
ENGINEER : Engineer 1  
PROJECT : Construction Project  
LOCATION : Somewhere, World  
PROJECT No. : 1234  
LABORATORY : Lab 1

LOCATION  
DUMP AREA :  
LAYER :  
CH / OS :  
COORDS. :  
ELEVATION :

SAMPLING DATA  
HOLE ID : V-Lab  
HOLE TYPE : TP  
SAMPLE DEPTH : 0.00-1.00 m  
SAMPLE TYPE : D  
SAMPLE REF : 1  
SPECIMEN DEPTH : 0.10 m  
SPECIMEN REF : 2  
SAMPLE DATE :  
SAMPLED BY : LB - Contactor 1

LABORATORY SPECIMEN DESCRIPTION:  
Slightly silty very gravelly well graded SAND (SW) medium to coarse sand, fine to medium gravel

STAGE NUMBER      1      2      3



GENERAL REMARKS: Rem;VPRem;SDRem

Fill Type  
▲ Type 1

Requirement Remark  
Not Applicable

Tested By: TB  
Tested Date: 01/01/2010

Checked By: CB  
Checked Date: 03/01/2010

Approved By: AB  
Approved Date: 04/01/2010

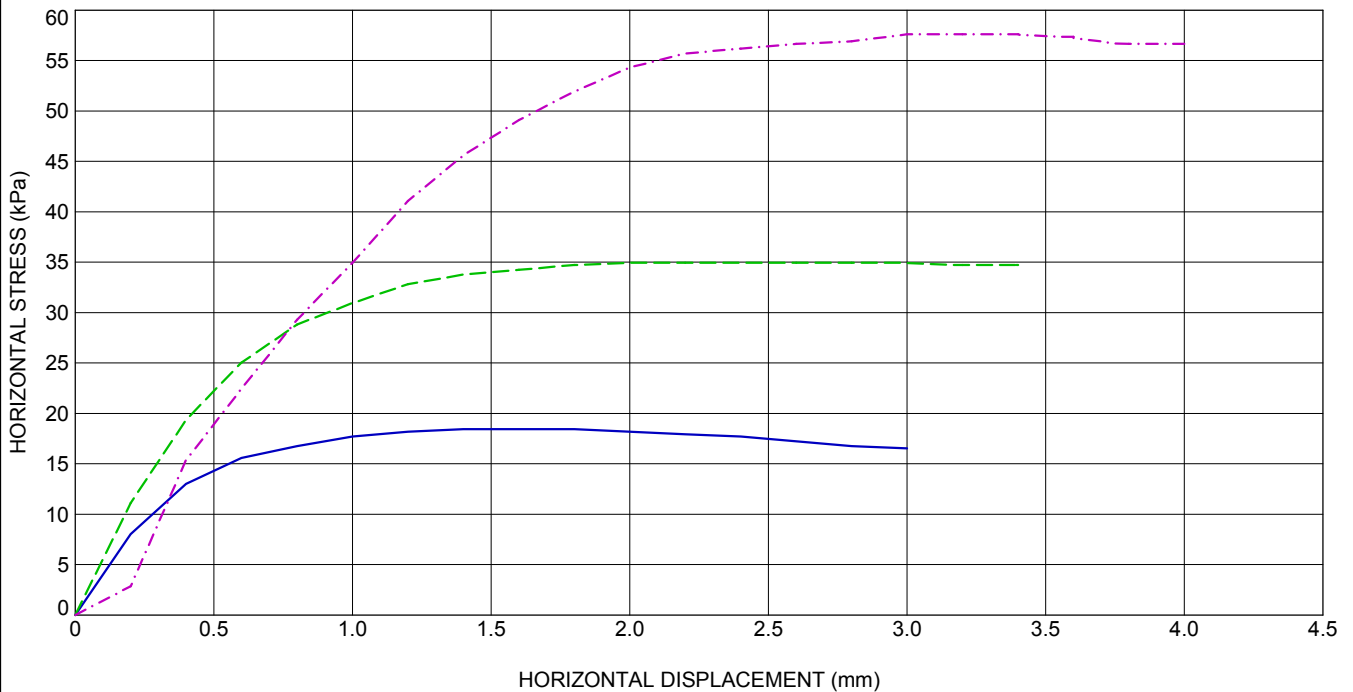
SPECIMEN PREPARATION:

TEST METHOD:  
BS1377-7:1990:4.5.4 small shearbox - single stage

CLIENT : Client 1 ENGINEER : Engineer 1 PROJECT : Construction Project LOCATION : Somewhere, World PROJECT No. : 1234 LABORATORY : Lab 1	LOCATION DUMP AREA : LAYER : CH / OS : COORDS. : ELEVATION :	SAMPLING DATA HOLE ID : V-Lab HOLE TYPE : TP SAMPLE DEPTH : 0.00-1.00 m SAMPLE TYPE : D SAMPLE REF : 1 SPECIMEN DEPTH : 0.10 m SPECIMEN REF : 2 SAMPLE DATE : SAMPLED BY : LB - Contactor 1
LABORATORY SPECIMEN DESCRIPTION: Slightly silty very gravelly well graded SAND (SW) medium to coarse sand, fine to medium gravel		

## SPECIMEN INFORMATION

STAGE NUMBER	INITIAL			FINAL		
	1	2	3	1	2	3
DIMENSIONS (mm)	60 x 60	60 x 60	60 x 60			
HEIGHT (mm)	39	39	39	68	48	69
PARTICLE DENSITY (Mg/m <sup>3</sup> )	2.65 Assumed	2.65 Assumed	2.65 Assumed			
MOISTURE CONTENT (%)	0.0	0.0	0.0	0.0	0.0	0.0
BULK DENSITY (Mg/m <sup>3</sup> )	1.50	1.50	1.50	0.86	1.22	0.85
DRY DENSITY (Mg/m <sup>3</sup> )	1.50	1.50	1.50	0.86	1.22	0.85
VOID RATIO	0.76	0.76	0.76	2.08	1.17	2.12
DEGREE OF SATURATION (%)	0.0	0.0	0.0	0.0	0.0	0.0



## SHEARING INFORMATION

## SHEAR STRENGTH PARAMETERS

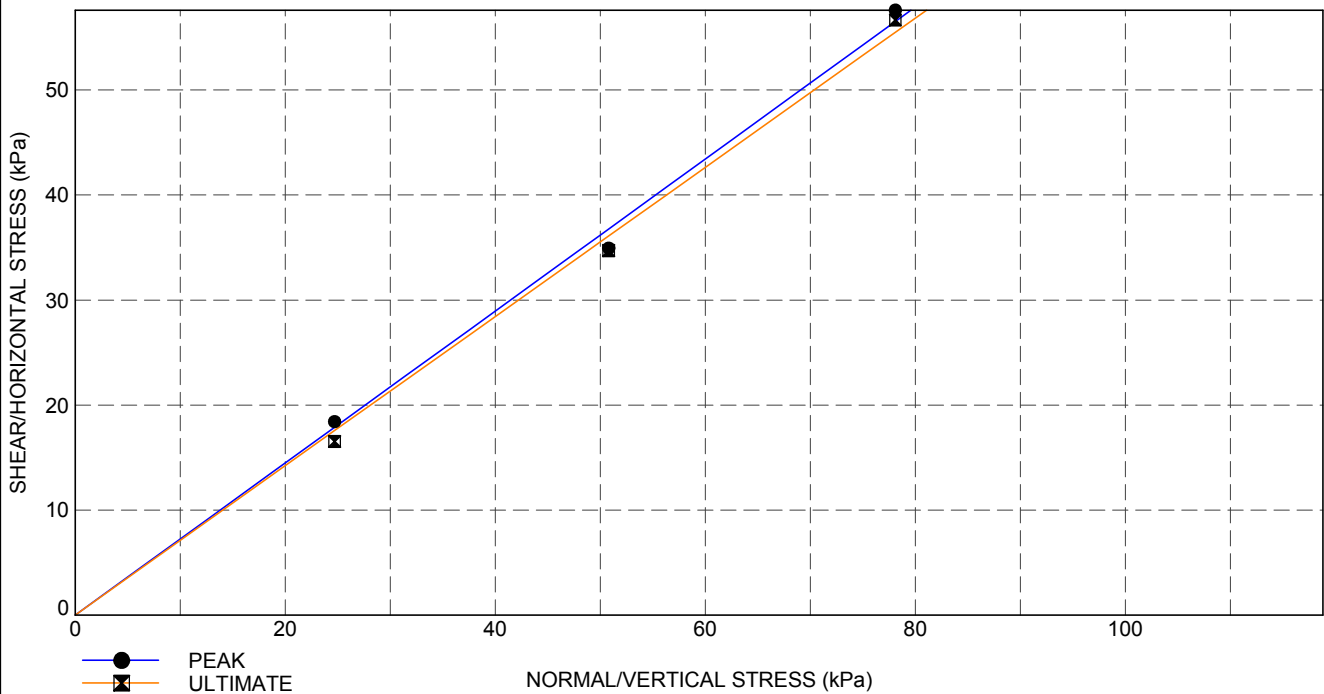
STAGE NUMBER	1	2	3		
NORMAL STRESS (kPa)	24.7	50.8	78.1	PEAK APPARENT COHESION, c' (kPa)	0.0
TEST STATE				PEAK FRICTION ANGLE, $\phi'$ (deg)	35.9°
RATE OF DISPLACEMENT (mm/min)					
PEAK SHEAR STRESS (kPa)	18.4	34.9	57.6		
PEAK DISPLACEMENT (mm)	1.4	2.0	3.0	ULTIMATE APPARENT COHESION, c <sub>R</sub> ' (kPa)	0.0
ULTIMATE SHEAR STRESS (kPa)	16.5	34.7	56.7	ULTIMATE FRICTION ANGLE, $\phi_R'$ (deg)	35.4°
ULTIMATE DISPLACEMENT (mm)	3.0	3.4	4.0		
NUMBER OF TRAVELS					

GENERAL REMARKS: Rem;VPRem;SDRem	Fill Type ▲ Type 1	Requirement Remark Not Applicable	Tested By TB	Tested Date 01/01/2010
SPECIMEN PREPARATION:	TEST METHOD: BS1377-7:1990:4.5.4 small shearbox - single stage		Checked By CB	Checked Date 03/01/2010
			Approved By AB	Approved Date 04/01/2010

CLIENT : Client 1 ENGINEER : Engineer 1 PROJECT : Construction Project LOCATION : Somewhere, World PROJECT No. : 1234 LABORATORY : Lab 1	LOCATION DUMP AREA : LAYER : CH / OS : COORDS. : ELEVATION :	SAMPLING DATA HOLE ID : V-Lab HOLE TYPE : TP SAMPLE DEPTH : 0.00-1.00 m SAMPLE TYPE : D SAMPLE REF : 1 SPECIMEN DEPTH : 0.10 m SPECIMEN REF : 2 SAMPLE DATE : SAMPLED BY : LB - Contactor 1
LABORATORY SPECIMEN DESCRIPTION: Slightly silty very gravelly well graded SAND (SW) medium to coarse sand, fine to medium gravel		

## SPECIMEN INFORMATION

	INITIAL			FINAL		
	1	2	3	1	2	3
STAGE NUMBER	1	2	3			
DIMENSIONS (mm)	60 x 60	60 x 60	60 x 60			
HEIGHT (mm)	39	39	39	68	48	69
PARTICLE DENSITY (Mg/m <sup>3</sup> )	2.65 Assumed	2.65 Assumed	2.65 Assumed			
MOISTURE CONTENT (%)	0.0	0.0	0.0	0.0	0.0	0.0
BULK DENSITY (Mg/m <sup>3</sup> )	1.50	1.50	1.50	0.86	1.22	0.85
DRY DENSITY (Mg/m <sup>3</sup> )	1.50	1.50	1.50	0.86	1.22	0.85
VOID RATIO	0.76	0.76	0.76	2.08	1.17	2.12
DEGREE OF SATURATION (%)	0.0	0.0	0.0	0.0	0.0	0.0



## SHEARING INFORMATION

## SHEAR STRENGTH PARAMETERS

SHEARING INFORMATION				SHEAR STRENGTH PARAMETERS	
STAGE NUMBER	1	2	3	PEAK APPARENT COHESION, c' (kPa)	0.0
NORMAL STRESS (kPa)	24.7	50.8	78.1	PEAK FRICTION ANGLE, $\phi'$ (deg)	35.9°
TEST STATE				ULTIMATE APPARENT COHESION, c <sub>R</sub> ' (kPa)	0.0
RATE OF DISPLACEMENT (mm/min)				ULTIMATE FRICTION ANGLE, $\phi'_R$ (deg)	35.4°
PEAK SHEAR STRESS (kPa)	18.4	34.9	57.6		
PEAK DISPLACEMENT (mm)	1.4	2.0	3.0		
ULTIMATE SHEAR STRESS (kPa)	16.5	34.7	56.7		
ULTIMATE DISPLACEMENT (mm)	3.0	3.4	4.0		
NUMBER OF TRAVELS					

GENERAL REMARKS: Rem;VPRem;SDRem  SPECIMEN PREPARATION:	Fill Type <b>▲ Type 1</b>	Requirement Remark Not Applicable	Tested By TB	Tested Date 01/01/2010
			Checked By CB	Checked Date 03/01/2010
			Approved By AB	Approved Date 04/01/2010
TEST METHOD: BS1377-7:1990:4.5.4 small shearbox - single stage				