

hoil Office



SO-Log

Current samples are in "Metric" units.

SO-Log also supports “SI”,
“English [ksf]” and “English [psi]” units.

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - Full	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	22	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Soil Particles				Atterberg Limits			Physical Characteristics			Direct Shear			q _u [kg/cm²]	Triaxial Compression					Consolidation			Other Tests	Elevation [m]
					0	25	50	75	100	Gravel [%]	Sand [%]	Silt [%]	Clay [%]	LL [%]	PL [%]	PI [%]	γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]		Type	φ [deg.]	c [kg/cm²]	φ' [deg.]	c' [kg/cm²]	C _c	C _s	P' c [kg/cm²]		
0				Fill Material																										0			
1		ST		Sandy LEAN CLAY with Boulders	19					7.9	27.9	39.7	24.5	37	20	17														-1			
2				LEAN CLAY with Sand																										-2			
3		SH				30					0	21.7	78.3	-	31	19	12				UU	3.4	1.06			0.24	0.029	0.43			-3		
4																														-4			
5		ST			42					18.3	12.6	69.1	-	34	20	14	1.71	11.2												-5			
6				SILTY CLAY																										-6			
7		SH				50/5					1.9	3.3	53.8	41	25	18	7			CD			23.1	0.27	0.19	0.031				CH	-7		
8		ST		Poorly-Graded GRAVEL with Clay						82.6	8.9	8.5	-	34	21	13														-8			
9		ST		Well-Graded GRAVEL with Clay and Sand	64					71.7	16.9	11.4	-	32	20	12		2.63												-9			
10																														-10			

Sample		Disturbed	Index	LL: Liquid Limit	γ _d : Dry unit weight	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
		Undisturbed		PL: Plastic Limit	w: Moisture Content		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
		Rock core		PI: Plastic Index	G _s : Specific Gravity		φ, φ': Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic			c, c': Cohesion	qu: Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - Full	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	22	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)	Soil Particles				Atterberg Limits			Physical Characteristics			Direct Shear		q _u [kg/cm²]	Triaxial Compression				Consolidation			Other Tests	Elevation [m]
						Gravel [%]	Sand [%]	Silt [%]	Clay [%]	LL [%]	PL [%]	PI [%]	γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]		c [kg/cm²]	Type	φ [deg.]	c [kg/cm²]	φ' [deg.]	c' [kg/cm²]	C _c		
10																										-10	
11		DT		Well-Graded GRAVEL with Clay and Sand	35																					-11	
12																										-12	
13		SH		Clayey SAND with Cobbles and Boulders	27													1.62								-13	
14		ST		Poorly-Graded GRAVEL with Silt, Sand and Cobbles																						-14	
15																										-15	
16		TT		Well-Graded SAND with Clay and Gravel	39																					-16	
17		SS		Poorly-Graded GRAVEL with Sand and Boulders	48																					-17	
18																										-18	
19				Highly Weathered Rock																						-19	
20																										-20	

Sample		Disturbed	Index	LL: Liquid Limit	γ _d : Dry unit weight	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
		Undisturbed		PL: Plastic Limit	w: Moisture Content		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
		Rock core		PI: Plastic Index	G _s : Specific Gravity		φ, φ': Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic			c, c': Cohesion	qu: Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - Full	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	22	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Soil Particles				Atterberg Limits			Physical Characteristics			Direct Shear			q _u [kg/cm²]	Triaxial Compression					Consolidation			Other Tests	Elevation [m]
					0	25	50	75	100	Gravel [%]	Sand [%]	Silt [%]	Clay [%]	LL [%]	PL [%]	PI [%]	γ _d [kg/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]		Type	φ [deg.]	c [kg/cm²]	φ' [deg.]	c' [kg/cm²]	C _c	C _s	P' c [kg/cm²]		
20				Rock																											-20		
21																																	-21
22				End of boring																												-22	
23																																-23	
24																																-24	
25																																-25	
26																																-26	
27																																-27	
28																																-28	
29																																-29	
30																																-30	

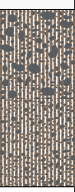
Sample	 Disturbed	Index	LL: Liquid Limit	γ _d : Dry unit weight	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
	 Undisturbed		PL: Plastic Limit	w: Moisture Content		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
	 Rock core		PI: Plastic Index	G _s : Specific Gravity		φ, φ': Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
			NP: Non-Plastic			c, c': Cohesion	q _u : Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - a	Name:	TP-01	Contractor:	Contractor 01	
Client:	Client	Depth [m]:	12	Method:	Test pit	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-19	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-25	

Depth [m]	GWT [m]	Sample Type	USCS	Description	DP (Blows per 20 cm)					Soil Particles [%]				Atterberg Limits [%]			Physical Characteristics			Direct Shear		Insitu Direct Shear			Other Tests	Elev. [m]	
					0	80	160	240	320	G	S	M	C	LL	PL	PI	γ_d [g/cm³]	w [%]	G _s	Type	ϕ [deg.]	c [kg/cm²]	Type	ϕ [deg.]			c [kg/cm²]
0				Top Soil																					0		
1																									-1		
2		BL	⊗	FAT CLAY	98					0	14.6	56.3	29.1	57	27	30	1.65	8.2							-2		
3																									-3		
4		BU	□	FAT CLAY with Sand	142					6.3	17.2	49.7	26.8	66	29	37			2.74					CH	-4		
5																									-5		
6		BU	□	ELASTIC SILT with Gravel	226									54	31	23				S	27.7	0.08		K	-6		
7																	1.73	6.4					S	30.2	0.14	PLT	-7
8		CC	⊗	LEAN CLAY	160/6					5.2	3.3	60.1	31.4	38	15	23									-8		
9																									-9		
10		BU	□	Silty GRAVEL with Sand	269					41.1	28.6	30.3		NP	NP	NP									-10		

Sample		Disturbed	Index	G: Gravel	LL: Liquid Limit	γ_d : Dry unit weight	Strength	F: Fast	Other tests	CH: Chemical	Note:
		Undisturbed		S: Sand	PL: Plastic Limit	w: Moisture Content		S: Slow		CMP: Compaction	
		Rock core		M: Silt	PI: Plastic Index	G_s : Specific Gravity		ϕ : Friction angle		PLT: Plate loading test	
				C: Clay	NP: Non-Plastic			c: Cohesion		K: Permeability	
	Full details available in supplementary legend.										

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - a	Name:	TP-01	Contractor:	Contractor 01	
Client:	Client	Depth [m]:	12	Method:	Test pit	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-19	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-25	

Depth [m]	GWT [m]	Sample Type	USCS	Description	DP (Blows per 20 cm)	Soil Particles [%]				Atterberg Limits [%]			Physical Characteristics		Direct Shear				Insitu Direct Shear			Other Tests	Elev. [m]
						G	S	M	C	LL	PL	PI	γ_d [g/cm³]	w [%]	G _s	Type	ϕ [deg.]	c [kg/cm²]	Type	ϕ [deg.]	c [kg/cm²]		
10		BU		Silty GRAVEL with Sand	269	41.1	28.6	30.3		NP	NP	NP											-10
11																							-11
12		BU		Silty SAND with Cobbles and Boulders																			-12
				End of boring	135	19.3	55.6	15.2	9.9													PLT	-12
13																							-13
14																							-14
15																							-15
16																							-16
17																							-17
18																							-18
19																							-19
20																							-20

Sample		Disturbed	Index	G: Gravel	LL: Liquid Limit	γ_d : Dry unit weight	Strength	F: Fast	Other tests	CH: Chemical	Note:
		Undisturbed		S: Sand	PL: Plastic Limit	w: Moisture Content		S: Slow		CMP: Compaction	
		Rock core		M: Silt	PI: Plastic Index	G_s : Specific Gravity		ϕ : Friction angle		PLT: Plate loading test	
				C: Clay	NP: Non-Plastic			c: Cohesion		K: Permeability	
	Full details available in supplementary legend.										

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - b	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	20	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Fines [%]	Atterberg Limits [%]			Physical Characteristics			Direct Shear			q _u [kg/cm²]	Triaxial Compression			Consolidation		Other Tests	Elev. [m]
					0	25	50	75	100		LL	PL	PI	γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]		Type	φ [deg.]	c [kg/cm²]	C _c	C _s		
0				Fill Material																						0	
1		ST	■	Sandy LEAN CLAY with Boulders	19					64.2	37	20	17													-1	
2																										-2	
3		SH	⊗	LEAN CLAY with Sand	30					78.3	31	19	12								UU	3.4	1.06	0.24	0.029		-3
4																											-4
5		ST	■			42					69.1	34	20	14	1.71	11.2											K
6																										-6	
7		SH	⊗	SILTY CLAY						94.8	25	18	7								CD	23.1	0.27	0.19	0.031	CH	-7
8		ST	■	Poorly-Graded GRAVEL with Clay	50/5					8.5	34	21	13				F	37	0							-8	
9																										-9	
10		ST	■	Well-Graded GRAVEL with Clay and Sand	64					11.4	32	20	12			2.63										-10	

Sample		Disturbed	Index	LL: Liquid Limit	Fines: M+C	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
		Undisturbed		PL: Plastic Limit	γ _d : Dry unit weight		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
		Rock core		PI: Plastic Index	w: Moisture Content		φ: Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic	G _s : Specific Gravity		c: Cohesion	q _u : Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - b	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	20	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Fines [%]	Atterberg Limits [%]			Physical Characteristics			Direct Shear			q _u [kg/cm ²]	Triaxial Compression			Consolidation		Other Tests	Elev. [m]
					0	25	50	75	100		LL	PL	PI	γ _d [g/cm ³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm ²]		Type	φ [deg.]	c [kg/cm ²]	C _c	C _s		
10																											-10
11		DT		Well-Graded GRAVEL with Clay and Sand	35					5.8	41	19	22														-11
12																											-12
13		SH		Clayey SAND with Cobbles and Boulders	27					44.9	38	22	16	1.99	5.3	2.68				1.62							-13
14		ST		Poorly-Graded GRAVEL with Silt, Sand and Cobbles						9.1	NP	NP	NP														-14
15																											-15
16		TT		Well-Graded SAND with Clay and Gravel	39					7.5	29	20	9													CH	-16
17		SS		Poorly-Graded GRAVEL with Sand and Boulders	48					4	31	21	10	2.01	8.1	2.66	F	35.4	0.02								-17
18																											-18
19																											-19
20																											-20

End of boring

Sample		Disturbed	Index	LL: Liquid Limit	Fines: M+C	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
		Undisturbed		PL: Plastic Limit	γ _d : Dry unit weight		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
		Rock core		PI: Plastic Index	w: Moisture Content		φ: Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic	G _s : Specific Gravity		c: Cohesion	qu: Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - c	Name:	TP-01	Contractor:	Contractor 01	
Client:	Client	Depth [m]:	12	Method:	Test pit	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-19	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-25	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Soil Particles [%]				Atterberg Limits [%]			Physical Characteristics		Direct Shear		Qu		Consolidation		Other Tests	Elev. [m]
					0	25	50	75	100	G	S	M	C	LL	PL	PI	γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]	[kg/cm²]	C _c	C _s	
0				Top Soil																						0
1																										-1
2		BL	⊗	FAT CLAY	30					0	14.6	56.3	29.1	57	27	30	1.65	8.2					2.78			-2
3																										-3
4		BU	□	FAT CLAY with Sand	>32					6.3	17.2	49.7	26.8	66	29	37			2.74						CH	-4
5																										-5
6		BU	□	ELASTIC SILT with Gravel	>32									54	31	23				S	27.7	0.08			K	-6
7																	1.73	6.4							PLT	-7
8		CC	⊗	LEAN CLAY	Over					5.2	3.3	60.1	31.4	38	15	23							0.32	0.039		-8
9																										-9
10		BU	□	Silty GRAVEL with Sand	>50					41.1	28.6	30.3		NP	NP	NP										-10

Sample	□	Disturbed	Index	G: Gravel	LL: Liquid Limit	γ _d : Dry unit weight	Strength & Compression	F: Fast	q _u : Unconfined Compression	Other tests	CH: Chemical	Note:
	⊗	Undisturbed		S: Sand	PL: Plastic Limit	w: Moisture Content		S: Slow	C _c : Coefficient of compression		CMP: Compaction	
	■	Rock core		M: Silt	PI: Plastic Index	G _s : Specific Gravity		φ: Friction angle	C _s : Coefficient of swelling		PLT: Plate loading test	
				C: Clay	NP: Non-Plastic			c: Cohesion			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - c	Name:	TP-01	Contractor:	Contractor 01	
Client:	Client	Depth [m]:	12	Method:	Test pit	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-19	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-25	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT (Blows per 30 cm)					Soil Particles [%]				Atterberg Limits [%]			Physical Characteristics				Direct Shear		q _u [kg/cm ²]	Consolidation		Other Tests	Elev. [m]
					0	25	50	75	100	G	S	M	C	LL	PL	PI	γ _d [g/cm ³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm ²]		C _c	C _s		
10		BU		Silty GRAVEL with Sand	>50					41.1	28.6	30.3		NP	NP	NP											-10
11																											-11
12		BU		Silty SAND with Cobbles and Boulders																							-12
				End of boring	42					19.3	55.6	15.2	9.9													PLT	-12
13																											-13
14																											-14
15																											-15
16																											-16
17																											-17
18																											-18
19																											-19
20																											-20

Sample		Disturbed	Index	G: Gravel	LL: Liquid Limit	γ _d : Dry unit weight	Strength & Compression	F: Fast	q _u : Unconfined Compression	Other tests	CH: Chemical	Note:
		Undisturbed		S: Sand	PL: Plastic Limit	w: Moisture Content		S: Slow	C _c : Coefficient of compression		CMP: Compaction	
		Rock core		M: Silt	PI: Plastic Index	G _s : Specific Gravity		φ: Friction angle	C _s : Coefficient of swelling		PLT: Plate loading test	
				C: Clay	NP: Non-Plastic			c: Cohesion			K: Permeability	

Project				Bore hole/Test pit		Drilling		Logo
Name:	Output - d			Name:	BH-01	Contractor:	Contractor 02	
Client:	Client			Depth [m]:	20	Method:	Continuous coring	
Location:	Location			Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code			Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Fines		Atterberg Limits [%]			Physical Characteristics			Direct Shear		q _u [kg/cm²]	Triaxial Compression				Consolidation		Other Tests	Elev. [m]	
						[%]	LL	PL	PI	γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]		c' [kg/cm²]	Type	φ [deg.]	c [kg/cm²]	φ' [deg.]	c' [kg/cm²]			C _c
0				Fill Material																			0		
1		ST	▬▬	Sandy LEAN CLAY with Boulders	19	64.2	37	20	17														-1		
2																							-2		
3		SH	⊠	LEAN CLAY with Sand	30	78.3	31	19	12								UU	3.4	1.06		0.24	0.029		-3	
4																								-4	
5		ST	▬▬			>30	69.1	34	20	14	1.71	11.2											K	-5	
6																							-6		
7		SH	⊠	SILTY CLAY	50/5	94.8	25	18	7								CD			23.1	0.27	0.19	0.031	CH	-7
8		ST	▬▬	Poorly-Graded GRAVEL with Clay		8.5	34	21	13				F	37	0									-8	
9																								-9	
10		ST	▬▬	Well-Graded GRAVEL with Clay and Sand	>50	11.4	32	20	12		2.63													-10	

Sample	■	Disturbed	Index	LL: Liquid Limit	Fines: M+C	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
	⊠	Undisturbed		PL: Plastic Limit	γ _d : Dry unit weight		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
	■	Rock core		PI: Plastic Index	w: Moisture Content		φ, φ': Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic	G _s : Specific Gravity		c, c': Cohesion	qu: Unconfined Compression			K: Permeability	

Project		Bore hole/Test pit		Drilling		Logo
Name:	Output - d	Name:	BH-01	Contractor:	Contractor 02	
Client:	Client	Depth [m]:	20	Method:	Continuous coring	
Location:	Location	Elevation [m]:	-	Start date:	2017-08-18	
Code:	Project Code	Water table level [m]:	-	End date:	2017-08-22	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Fines [%]	Atterberg Limits [%]				Physical Characteristics			Direct Shear			q _u	Triaxial Compression					Consolidation		Other Tests	Elev. [m]
							LL	PL	PI		γ _d [g/cm³]	w [%]	G _s	Type	φ [deg.]	c [kg/cm²]	[kg/cm²]	Type	φ [deg.]	c [kg/cm²]	φ' [deg.]	c' [kg/cm²]	C _c	C _s		
10																										-10
11		DT		Well-Graded GRAVEL with Clay and Sand	35	5.8	41	19	22																	-11
12																										-12
13		SH		Clayey SAND with Cobbles and Boulders	27	44.9	38	22	16		1.99	5.3	2.68				1.62									-13
14		ST		Poorly-Graded GRAVEL with Silt, Sand and Cobbles		9.1	NP	NP	NP																	-14
15																										-15
16		TT		Well-Graded SAND with Clay and Gravel	39	7.5	29	20	9																CH	-16
17		SS		Poorly-Graded GRAVEL with Sand and Boulders	48	4	31	21	10		2.01	8.1	2.66	F	35.4	0.02										-17
18																										-18
19																										-19
20																										-20

End of boring

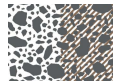
Sample		Disturbed	Index	LL: Liquid Limit	Fines: M+C	Strength & Compression	F: Fast	CD: Consolidated Drained	C _c : Coefficient of compression	Other tests	CH: Chemical	Note:
		Undisturbed		PL: Plastic Limit	γ _d : Dry unit weight		S: Slow	CU: Consolidated Undrained	C _s : Coefficient of swelling		CMP: Compaction	
		Rock core		PI: Plastic Index	w: Moisture Content		φ, φ': Friction angle	UU: Unconsolidated Undrained			PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic	G _s : Specific Gravity		c, c': Cohesion	qu: Unconfined Compression			K: Permeability	

Patterns

Gravel



GW



GW-GC



GP-GC



GC



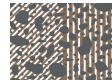
GP



GW-GM



GP-GM



GC-GM

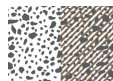


GM

Sand



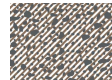
SW



SW-SC



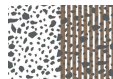
SP-SC



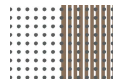
SC



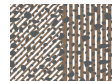
SP



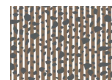
SW-SM



SP-SM



SC-SM



SM

Fines



CL



CH



OL



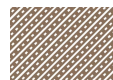
PT



CL-ML



MH



OH



ML

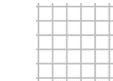
Rock & Others



ROCK



TS



OTHER



HWR



FL

Sample types

Disturbed

BU: Bulk

SS: Split-spoon

Undisturbed

BL: Block

FO: Foil

PT: Pitcher

CC: Core cutter

PH: Hydraulic piston

SH: Shelby

D: Denison

PS: Stationary piston

Rock core

ST: Single tube

TT: Triple tube

DT: Double tube

WL: Wire line

Symbols & Abbreviations

Index

G: Gravel

LL: Liquid limit

γ_d : Dry unit weight

S: Sand

PL: Plastic limit

w: Moisture content

M: Silt

PI: Plastic index

G_s : Specific gravity

C: Clay

NP: Non-plastic

Strength

F: Fast

CD: Consolidated Drained

S: Slow

CU: Consolidated Undrained

ϕ , ϕ' : Friction Angle

UU: Unconsolidated Undrained

c, c': Cohesion

q_u : Unconfined compression

Compression

C_c : Coefficient of compression

C_s : Coefficient of swelling

Other tests

CH: Chemical

PLT: Plate Loading Test

CMP: Compaction

K: Permeability

Project		Bore hole/Test pit		Logo
Name:	Output - e	Name:	TP-01	
Client:	Client	Depth [m]:	15	
Location:	Location	Elevation [m]:	100	
Code:	Project Code	Water table level [m]:	12	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Soil Particles [%]				Atterberg Limits [%]		Physical Characteristics		Direct Shear			Elev. [m]
						G	S	M	C	LL	PI	γ_d [g/cm ³]	w [%]	Type	ϕ [deg.]	c [kg/cm ²]	
0				Top Soil													100
		BU		Clayey GRAVEL with Sand and Cobbles	43	36.8	26.9	22.4	13.9	33	16						
2		BL		Clayey GRAVEL with Sand	>50	51.2	20.7	18.3	9.8	37	18			S	34.5	0.05	98
4		BU		Clayey SAND with Gravel	>50	26.4	38.8	34.8	-	32	16	1.97	6.7				96
6		BU		Poorly-Graded GRAVEL with Clay and Sand	>50	67.3	21.2	11.5	-	29	14			F	37.1	0.01	94
8		BU		Poorly-Graded GRAVEL with Sand	>50					-							92
10		CC		Silty, Clayey GRAVEL with Sand	Over	34.1	28.5	23.2	14.2					S	32.8	0.04	90
12		CC		LEAN CLAY with Gravel	Over	12.9	8.6	45.9	32.6	39	19	1.71	10.1				88
14		BL		Gravelly LEAN CLAY with Sand	>30									S	29.4	0.13	86
16				End of boring													84
18																	82
20																	80

Sample		Disturbed	Index	G: Gravel	LL: Liquid Limit	γ_d : Dry unit weight	Strength	F: Fast	Note:
		Undisturbed		S: Sand	PL: Plastic Limit	w: Moisture Content		S: Slow	
		Rock core		M: Silt	PI: Plastic Index	G_s : Specific Gravity		ϕ : Friction angle	Full details available in supplementary legend.
				C: Clay	NP: Non-Plastic			c: Cohesion	

Project		Bore hole/Test pit		Logo
Name:	Output - f	Name:	BH-01	
Client:	Client	Depth [m]:	35	
Location:	Location	Elevation [m]:	102.5	
Code:	Project Code	Water table level [m]:	13.4	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Fines [%]	Atterberg Limits [%]	Physical Characteristics	Direct Shear	Other Tests	Elev. [m]
							LL PI	γ_d [g/cm ³] w [%]	Type ϕ [deg.] c [kg/cm ²]		
0				Top Soil							102.5
2		SS		Clayey GRAVEL with Sand	28	43.1	37 17	1.99 5.3		CMP	100.5
4		SS			23	29.3	31 12			K-CH	98.5
6		ST		Clayey SAND with Gravel	34	31.7	34 14		S 31.8 0.04		96.5
8		ST		Well-Graded SAND with Silty Clay, Gravel and Cobbles	>50	9.7	25 7	1.89 7.2		CH	94.5
10		DT		Clayey GRAVEL with Sand	44	27.7	34 13				92.5
12		SH			50/6	22.8	32 12				90.5
14		SH		Gravelly LEAN CLAY	50/12	78.2	41 22			CH	88.5
16		SH			>32	59.5	38 16				86.5
18		ST		Poorly-Graded GRAVEL with Sand	>50	3.9	-		F 36.9 0.01	K	84.5
20		SS			50/9	2.3				CH	82.5

Sample	Disturbed Undisturbed Rock core	Index	Fines: Silt + Clay LL: Liquid Limit PI: Plastic Index NP: Non-Plastic	γ_d : Dry unit weight w: Moisture Content G _s : Specific Gravity	Strength	F: Fast S: Slow ϕ : Friction angle c: Cohesion	Other tests	CH: Chemical CMP: Compaction PLT: Plate loading test K: Permeability	Note:
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Full details available in supplementary legend.

Project		Bore hole/Test pit		Logo
Name:	Output - f	Name:	BH-01	
Client:	Client	Depth [m]:	35	
Location:	Location	Elevation [m]:	102.5	
Code:	Project Code	Water table level [m]:	13.4	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Fines [%]	Atterberg Limits [%]		Physical Characteristics		Direct Shear			Other Tests	Elev. [m]
							LL	PI	γ_d [g/cm ³]	w [%]	Type	ϕ [deg.]	c [kg/cm ²]		
20		SS		Poorly-Graded GRAVEL with Sand	50/9	2.3								CH	82.5
22		DT		Clayey GRAVEL with Sand	>50	27									80.5
24															78.5
26		DT		Well-Graded SAND with Silt and Gravel	50/5	10.2	NP	NP	1.91	8.5	F	35.1	0.02	CH-K	76.5
28				Highly Weathered Rock											74.5
30															72.5
32				Rock											70.5
34															68.5
36				End of boring											66.5
38															64.5
40															62.5

Sample		Disturbed	Index	Fines: Silt + Clay	γ_d : Dry unit weight	Strength	F: Fast	Other tests	CH: Chemical	Note:
		Undisturbed		LL: Liquid Limit	w: Moisture Content		S: Slow		CMP: Compaction	
		Rock core		PI: Plastic Index	G _s : Specific Gravity		ϕ : Friction angle		PLT: Plate loading test	Full details available in supplementary legend.
				NP: Non-Plastic			c: Cohesion		K: Permeability	

Project		Bore hole/Test pit		Logo
Name:	Output - g	Name:	TP-01	
Client:	Client	Depth [m]:	18	
Location:	Location	Elevation [m]:	100	
Code:	Project Code	Water table level [m]:	12	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Fines [%]	Atterberg Limits [%]		Physical Characteristics		Direct Shear			q _u [kg/cm ²]	Consolidation		Elev. [m]
							LL	PI	γ _d [g/cm ³]	w [%]	Type	φ [deg.]	c [kg/cm ²]		C _c	C _s	
0				Fill Material													100
		BU		PEAT	138												
2																	98
		BL		Clayey GRAVEL with Sand	193	28.1	37	18			S	34.5	0.05				
4																	96
		BU		Clayey SAND with Gravel	226	34.8	32	16	1.97	6.7				2.23			
6																	94
		BU		Poorly-Graded GRAVEL with Clay and Sand	301	11.5	29	14			F	37.1	0.01				
8																	92
		BU		Poorly-Graded GRAVEL with Sand	320		-										
10																	90
		CC		Silty, Clayey GRAVEL with Sand	160/7	37.4					S	32.8	0.04				
12																	88
		CC		LEAN CLAY with Gravel	160/9	78.5	39	19	1.71	10.1				3.64	0.34	0.048	
14																	86
		BL		Gravelly LEAN CLAY with Sand	294						S	29.4	0.13				
16																	84
				Highly Weathered Rock													
18																	82
				End of boring													
20																	80

Sample		Disturbed	Index	Fines: Silt + Clay	γ _d : Dry unit weight	Strength & Compression	F: Fast	q _u : Unconfined Compression	Note:
		Undisturbed		LL: Liquid Limit	w: Moisture Content		S: Slow	C _c : Coefficient of compression	
		Rock core		PI: Plastic Index	G _s : Specific Gravity		φ: Friction angle	C _s : Coefficient of swelling	
				NP: Non-Plastic			c: Cohesion		

Full details available in supplementary legend.

Project		Bore hole/Test pit		Logo
Name:	Output - h	Name:	BH-01	
Client:	Client	Depth [m]:	35	
Location:	Location	Elevation [m]:	102.5	
Code:	Project Code	Water table level [m]:	13.4	

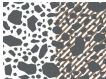
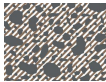
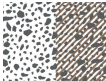
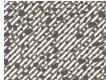
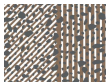
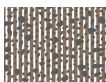
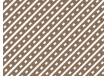
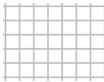
Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Soil Particles [%]				Physical Characteristics		Direct Shear			q _u [kg/cm ²]	Consolidation		Elev. [m]
						G	S	M	C	γ _d [g/cm ³]	w [%]	Type	φ [deg.]	c [kg/cm ²]		C _c	C _s	
0				Top Soil														102.5
2		SS		Well-Graded GRAVEL with Sand	28	63.1	35.8	1.1	-	1.99	5.3							100.5
4		SS			23	70.7	25.9	3.4	-									98.5
6		ST		Clayey SAND with Gravel	34	29.4	38.9	17.2	14.5			S	31.8	0.04				96.5
8		ST		Well-Graded SAND with Silty Clay, Gravel and Cobbles	67	22.5	67.8	9.7	-	1.89	7.2							94.5
10		DT		Clayey GRAVEL with Sand	44	47.2	25.1	27.7	-									92.5
12		SH			50/6	50.4	26.8	22.8	-									90.5
14		SH		Gravelly LEAN CLAY	50/12	14.6	7.2	51.4	26.8							0.29	0.041	88.5
16		SH			50	18.9	21.6	25.1	34.4						3.25			86.5
18		ST		Poorly-Graded GRAVEL with Sand	89	71.4	24.7	3.9	-			F	36.9	0.01				84.5
20		SS			50/9	64.8	32.9	2.3	-									82.5

Sample		Disturbed	Index	G: Gravel	γ _d : Dry unit weight	Strength & Compression	F: Fast	q _u : Unconfined Compression	Note:
		Undisturbed		S: Sand	w: Moisture Content		S: Slow	C _c : Coefficient of compression	
		Rock core		M: Silt	G _s : Specific Gravity		φ: Friction angle	C _s : Coefficient of swelling	
				C: Clay			c: Cohesion		Full details available in supplementary legend.

Project		Bore hole/Test pit		Logo
Name:	Output - h	Name:	BH-01	
Client:	Client	Depth [m]:	35	
Location:	Location	Elevation [m]:	102.5	
Code:	Project Code	Water table level [m]:	13.4	

Depth [m]	GWT [m]	Sample Type	USCS	Description	SPT	Soil Particles [%]					Physical Characteristics		Direct Shear			q _u [kg/cm ²]	Consolidation		Elev. [m]
						G	S	M	C		γ _d [g/cm ³]	w [%]	Type	φ [deg.]	c [kg/cm ²]		C _c	C _s	
20		SS		Poorly-Graded GRAVEL with Sand	50/9	64.8	32.9	2.3											82.5
22		DT		Clayey GRAVEL with Sand	100	56.7	16.3	27	-										80.5
24		DT		Well-Graded SAND with Silt and Gravel	50/5	22.9	66.9	10.2	-	1.91	8.5	F	35.1	0.02					78.5
26																			76.5
28				Highly Weathered Rock															74.5
30																			72.5
32				Rock															70.5
34																			68.5
36				End of boring															66.5
38																			64.5
40																			62.5

Sample		Disturbed	Index	G: Gravel	γ _d : Dry unit weight	Strength & Compression	F: Fast	q _u : Unconfined Compression	Note:
		Undisturbed		S: Sand	w: Moisture Content		S: Slow	C _c : Coefficient of compression	
		Rock core		M: Silt	G _s : Specific Gravity		φ: Friction angle	C _s : Coefficient of swelling	Full details available in supplementary legend.
				C: Clay			c: Cohesion		

Sample types	Disturbed	BU: Bulk		SS: Split-spoon						
	Undisturbed	BL: Block CC: Core cutter D: Denison		FO: Foil PH: Hydraulic piston PS: Stationary piston		PT: Pitcher SH: Shelby				
	Rock core	ST: Single tube DT: Double tube		TT: Triple tube WL: Wire line						
Patterns	Gravel		GW		GW-GC		GP-GC		GC	
			GP		GW-GM		GP-GM		GC-GM	
									GM	
		Sand		SW		SW-SC		SP-SC		SC
				SP		SW-SM		SP-SM		SC-SM
										SM
	Fines		CL		CH		OL		PT	
			CL-ML							
			ML		MH		OH			
		Rock & Others		ROCK		TS				OTHER
				HWR		FL				
		Symbols & Abbreviations	Index	G: Gravel S: Sand M: Silt C: Clay		LL: Liquid limit PL: Plastic limit PI: Plastic index NP: Non-plastic				γ_d : Dry unit weight w: Moisture content G_s : Specific gravity
Strength	F: Fast S: Slow ϕ, ϕ' : Friction Angle c, c': Cohesion		CD: Consolidated Drained CU: Consolidated Undrained UU: Unconsolidated Undrained q_u : Unconfined compression							
Compression	C_c : Coefficient of compression				C_s : Coefficient of swelling					
Other tests	CH: Chemical CMP: Compaction		PLT: Plate Loading Test K: Permeability							