

GROUNDWORKS - DESIGN REQUEST FORM

Customer Name and Site Address:		Mabey Engineering Job Number (MABEY):
		Mabey Sales Representative (MABEY):
Scheme Title:		Estimated Hire Duration:
Principle Contractor:	Consultant (if applicable):	Quote Required By:
		Equipment Required By:

Required Information:		Comments:
1.	Is Professional Certification Required e.g., RPEQ, CPENG (Y/N – Give Details)	
2.	Excavation Purpose: (e.g., pipe run, storage tank, wet well etc.)	
3.	Plan Dimensions: (Strut Size) (Clear Internal) (Sheet to Sheet)	
4.	Max Excavation Depth:	
5.	Are any ground reductions taking place / OR possible? (Provide levels):	
6.	Ground Conditions: (Provide site investigation report, Nominate relevant boreholes) <i>If No Soils info is available, complete verbal soils form.</i>	
7.	Ground water / Adjacent Water Courses: (provide details / levels of any nearby rivers, creeks, oceans etc.)	
8.	Details of any Dewatering taking place: (e.g. sump pumps / dewatering spears and to what level the water is to be reduced to.)	
9.	Details of Plant / Excavators / Cranes etc. working around Excavation: (provide weights and distances.)	
10.	Details of any additional nearby Loads: (e.g. Spoil, Live Roads, Railways, Buildings etc.)	
11.	Any height restrictions on use of lifting plant: (e.g. max lift height of excavator / overhead power cables.)	

<p><u>Required Attachments / Information</u></p> <ol style="list-style-type: none"> Long sections and plans of permanent works. Full Soil Investigation Report inc. relevant BH / TP. <u>OR</u> Verbal soils form if no SI available. 	<p><u>Useful Attachments / Comments</u></p> <ol style="list-style-type: none"> Sketch of site layout & Problem Photos of site. Schedule of works
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VERBAL SOILS DESCRIPTION – ONLY USE IF NO SOILS INFO IS AVAILABLE

SOILS DESCRIPTION GUIDELINES

SOIL TYPE		PARTICLE SIZE, mm		COMPACTNESS / STRENGTH		NOTES & VALUES	
				TERM	FIELD IDENTIFICATION		
Descriptions generally in accordance with AS 1726-1993. For more information see Australian Standard.							
VERY COARSE	COBBLES/BOULDERS	200		<u>Plasticity - Clay and Silts</u>			
				<u>Descriptive Term</u>	<u>Range of liquid limit %</u>		
		63		Low Plasticity ≤ 35			
				Medium Plasticity > 35 ≤ 50			
				High Plasticity > 50			
COARSE	GRAVELS	Coarse		<u>Classification of Granular soils</u>			
				<u>Density</u>	<u>SPT 'N' Value</u>	<u>Φ</u>	
	20		Loose	Very loose < 4 28°			
	6			Loose 4 - 10 29° - 30°			
	2.36		Dense	Medium Dense 10 - 30 30° - 36°			
	0.6			Dense 30 - 50 36° - 40°			
	0.2		Slightly Cemented	Very Dense > 50 > 40			
	0.0075			<u>Descriptive Terms for Material Proportions</u>			
					<u>Coarse</u>	<u>Fine</u>	
				<u>% Fines</u>	<u>Modifier</u>	<u>% Coarse</u>	<u>Modifier</u>
				≤ 5	Trace	≤ 15	Trace
				> 5 ≤ 12	With some	> 15 ≤ 30	With some
				> 12	Much/many	> 30	Much/many
FINE	SANDS	Coarse		<u>Consistency Terms - None Cohesive Soils</u>			
				<u>Term</u>	<u>Density</u>	<u>Index %</u>	
	0.02		Soft or loose	Very Loose ≤ 12			
	0.006			Loose > 15 ≤ 35			
	0.002		Firm or dense	Medium Dense > 35 ≤ 65			
				Dense > 65 ≤ 85			
					Very Dense > 85		
	CLAYS	0.002		<u>FIELD TEST GUIDE</u>			
				<u>SPT 'N' Value (Blows per 300mm)</u>			
		<u>Consistency Terms - Cohesive Soils - Strength (kPa)</u>					
		0 > 2 ≤ 12					
		2 > 4 > 12 ≤ 25					
		4 > 8 > 25 ≤ 50					
		8 > 15 > 50 ≤ 100					
ORGANIC	ORGANIC CLAY, SILT OR SAND	Firm		Fibres already compressed together			
		Spongy		Very compressible and open structure			
		Plastic		Can be moulded in hand, and smears on fingers			
				Fibrous: Plant remains recognizable and retain some strength			
				Amorphous: Recognizable plant remains absent			
<u>Structure</u>							
VERBAL SOILS DESCRIPTION							
Thickness (m)							
Layer 1							
Layer 2							
Layer 3							
Layer 4							
Layer 5							
Groundwater level							
Reduced water level							
Details of Dewatering Methods (if applicable)							

Any Additional Comments / sketches

[illegible]

Declaration:

"I declare that the information contained should be used to prepare the required scheme".

Name: _____

Position:

Date:

Signature:

Email:

Tel No: