

SOILCO MATERIALS INVESTIGATIONS (PTY) LTD

CIVIL ENGINEERING MATERIALS TESTING LABORATORY

Reg. No. : 1965/09585/07

25 WESTMEAD ROAD - WESTMEAD P.O.BOX 15318 WESTMEAD 3608 KWAZULU - NATAL

TELEPHONE : 031 7004325 TELEFAX : 031 7001909 email : soilslab@mweb.co.za



Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-26	
Field Technician	M.M	
Position	LHS S/S	
Test Pit Number	TP 3	
Chainage		
Co - Ordinates	S 29°53.435" E 030°59.788"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		70	Aged brittle ASPHALT.
			Aged slightly tackey ASPHALT. 4L
		300	
		420	Slightly moist, dusky blue pale red, medium dense, crushed rock quarzitic SANDSTONE. PHEN - HCL + 4L
		600	Slightly moist (MC = 3.7%), dark yellow brown, medium dense, crushed rock TILLITE. PHEN - HCL + 4L
		800	Slightly moist (MC = 6.2%), dark brown black, loose, uniform, silty SAND + sandstone gravel with coal, reworked residual. 2L
		1000	Moist (MC = 5.8%), dark brown, loose, intact, beach SAND + sandstone gravel, residual. 2L

The above test report is pertinent only to the area tested. This report shall not be reproduced, except in full, without the prior consent of Soilco Materials Investigations (Pty) Ltd

Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8631-8632 / 8635-8636 / 8637-8638

For Soilco : _____ (Technical Signatory).

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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-26	
Field Technician	M.M	
Position	RHS N/S	
Test Pit Number	TP 4	
Chainage		
Co - Ordinates	S 27°53.361" E 030°59.715"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION	
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)	
		80	Aged brittle ASPHALT.	4L
		190	Aged slightly tackey ASPHALT.	
		400	Slightly moist (MC = 4.5%), pale red dark grey, medium dense, crushed rock SANDSTONE. PHEN - HCL +	4L
		800	Slightly moist (MC = 9.9%), dark grey black, loose, uniform, dune SAND with crushed coal, reworked residual.	4L
		1000	Moist (MC = 6.3%), light brown, loose, intact, beach SAND + concrete boulder, residual.	2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8633-8634 / 8639-8642

For Soilco : _____ (Technical Signatory).

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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-27	
Field Technician	M.M	
Position	RHS N/S	
Test Pit Number	TP 5	
Chainage		
Co - Ordinates	S 27°54.238" E 031°00.383"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		100	Aged brittle ASPHALT.
		220	Aged slightly tackey ASPHALT.
		440	Slightly moist (MC = 3.1%), pale red, medium dense, crushed rock SANDSTONE. PHEN - HCL +
		780	Slightly moist to moist (MC = 10.2%), dark brown, loose, uniform, silty SAND with coal + gravel, reworked residual.
		1000	Moist (MC = 10.9%), light brown, loose, intact, beach SAND, residual.

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ X ☐ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8643-8644 / 8651 / 8655

For Soilco : _____ (Technical Signatory).

SOILCO MATERIALS INVESTIGATIONS (PTY) LTD

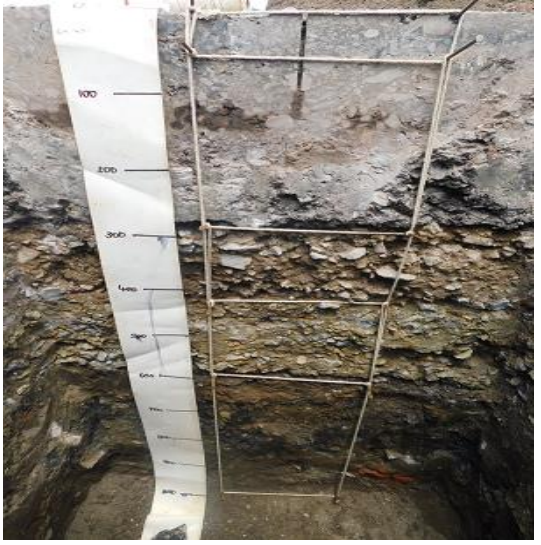
CIVIL ENGINEERING MATERIALS TESTING LABORATORY




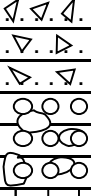
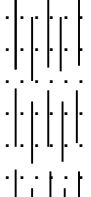
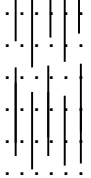

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TELEPHONE : 031 7004325 TELEFAX : 031 7001909 email : soilslab@mweb.co.za

Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-27	
Field Technician	M.M	
Position	RHS N/S	
Test Pit Number	TP 6	
Chainage		
Co - Ordinates	S 29°53.168" E 030°59.476"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		60	Aged brittle ASPHALT.
		290	Aged slightly tackey ASPHALT. 4L
		410	Slightly moist, dusky blue dark grey pale red, medium dense, crushed rock SANDSTONE. PHEN - HCL + 4L
		600	Slightly moist (MC = 4.3%), dusky blue dark yellow brown, medium dense, crushed rock TILLITE. PHEN - HCL - 4L
		1000	Slightly moist to moist (MC - 6.1%), dark brown, loose, uniform, silty SAND with coal + building rubble. 2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
Excavation Stopped ☒ Refusal ☐
Struggling to Excavate ☐
Photo No : 8645-8650

For Soilco : _____ (Technical Signatory).

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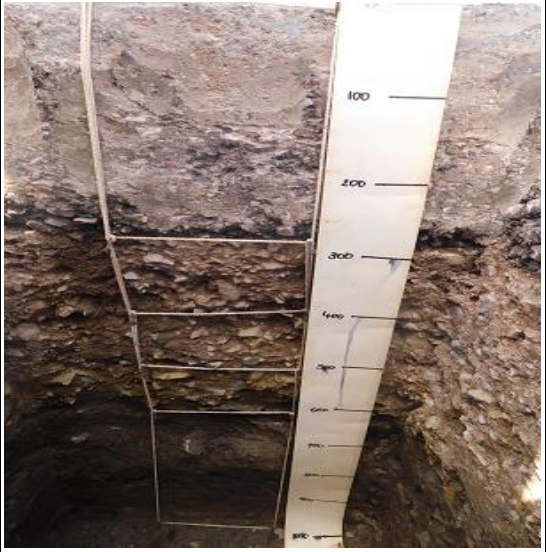
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


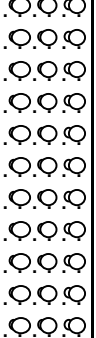
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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-26	
Field Technician	M.M	
Position	LHS S/S	
Test Pit Number	TP 7	
Chainage		
Co - Ordinates	S 29°54.224" E 031°00.361"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		150	Aged brittle ASPHALT. 4L
		290	Aged slightly tackey ASPHALT.
		410	Slightly moist (MC = 2.9%), pale red, medium dense, crushed rock SANDSTONE PHEN - HCL + 2L
		520	Slightly moist (MC = 3.4%), dusky blue pale red, medium dense, crushed rock SANDSTONE. PHEN - HCL - 2L
		650	Slightly moist (MC = 4.8%), dark yellow brown, medium dense, uniform, weathered TILLITE + silty sand, reworked residual. 2L
		1000	Moist (MC = 5.2%), dark brown, loose, intact, dune SAND + tillite gravel, residual. 2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
Excavation Stopped ☒ Refusal ☐
Struggling to Excavate ☐
Photo No : 8620-8624

For Soilco : _____ (Technical Signatory).

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


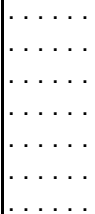
25 WESTMEAD ROAD - WESTMEAD P.O.BOX 15318 WESTMEAD 3608 KWAZULU - NATAL

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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-30	
Field Technician	M.M	
Position	LHS	
Test Pit Number	TP 8	
Chainage		
Co - Ordinates	S 29°53.237" E 030°59.532"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		50	Aged brittle ASPHALT.
		270	Aged brittle ASPHALT. 4L
		440	Slightly moist, dusky blue pale red, medium dense, crushed rock SANDSTONE. PHEN - HCL + 4L
		580	Slightly moist, dark yellow brown, medium dense, crushed rock TILLITE. PHEN - HCL - 3L
		720	Slightly moist, dark brown, loose, uniform, silty SAND + coal with sandstone gravel, reworked residual. 2L
		1000	Moist, dark brown, loose, intact, river SAND, residual. 2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ X ☐ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8656-8657 / 8665-8668

For Soilco : _____ (Technical Signatory).

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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-30	
Field Technician	M.M	
Position	RHS	
Test Pit Number	TP 9	
Chainage		
Co - Ordinates	S 27°35.757" E 031°00.082"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION	
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)	
		100	Aged brittle ASPHALT.	2L
		180	Aged slightly tackey ASPHALT.	
		300	Slightly moist, light yellow orange, medium dense, crushed rock SANDSTONE. PHEN - HCL -	3L
		400	Slightly moist, pale red dark grey, loose, crushed rock SANDSTONE. PHEN - HCL +	2L
		900	Slightly moist, dark brown, loose, uniform, silty SAND + coal, reworked residual.	2L
		1000	Slightly moist, light brown, loose, intact, beach SAND, residual.	2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8658-8664

For Soilco : _____ (Technical Signatory).

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Client	BSM Laboratories	
Project	Bayhead Road	
Job Card No.	243400	
Date of Test	2023-10-25	
Field Technician	M.M	
Position	LHS S/S	
Test Pit Number	TP 11	
Chainage		
Co - Ordinates	S 27°53.826" E 031°00.111"	

FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - (I = Indicator ; M = MOD AASHTO ; C = CBR)
		90	Aged brittle ASPHALT.
			Aged slightly tackey ASPHALT. 4L
		280	
			Slightly moist (MC = 3.3%), pale red, medium dense, crushed rock quarzitic SANDSTONE.
		420	PHEN - HCL + 2L
			Slightly moist (MC = 6.4%), dusky blue grey dark yellow brown, medium dense, slightly clay crushed rock TILLITE.
		600	PHEN - HCL - 2L
			Slightly moist, dark brown red, loose, intact, silty SAND + ash and tillite gravel, residual.
		1000	2L

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Remarks : Type of Excavation ☒ Hand ☐ TLB ☐ Excavator
 Excavation Stopped ☒ ☐ Refusal ☐
 Struggling to Excavate ☐
 Photo No : 8626-8630

For Soilco : _____ (Technical Signatory).