



5 Voorbaai Crescent, Bayview, Hartenbos
Tel. : (044) 695 0831

P.O. Box 35, Hartenbos, 6520
e-mail : jaco@testpro.co.za



Client:	Zec 4 (Pty) Ltd
	P.O Box 154
	Hartenbos
	6520
Attention:	Dreyer van Zyl, 0825716279

SOIL ANALYSIS TEST REPORT

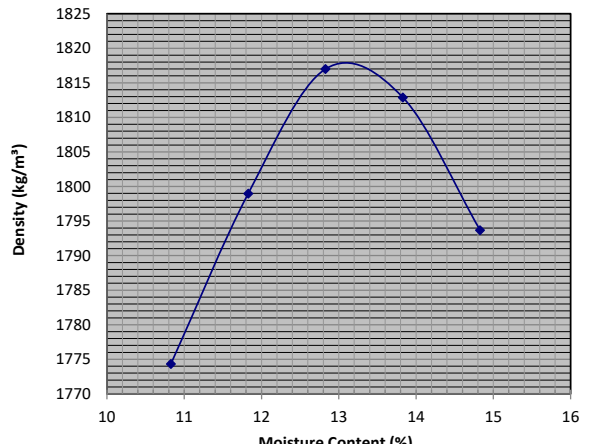
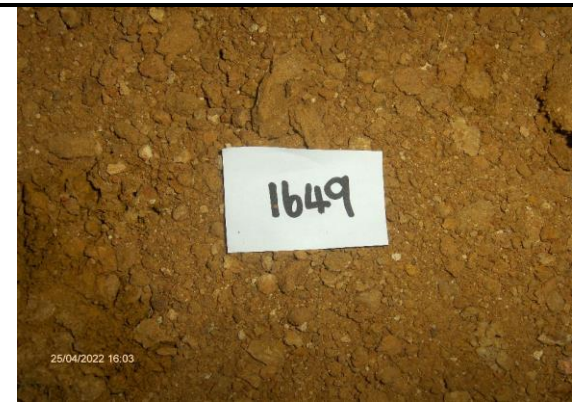
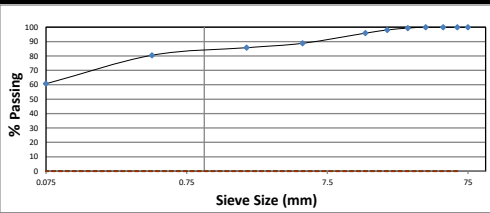
Job No:	TP16923		
Order No:	2022 04 01		
Sample No:	1649		
Project Information:	Outeniquasbosch Phase 11 & 13, Hartenbos		
Number of pages:	2		
Date Received:	27/04/2022		
Date Sampled:	27/04/2022		
Sampled by:	TESTPRO Laboratory		
Sample plan included:	No		
Environmental Conditions:	Windy /	Sunny /	Hot /
Delivered by:	TESTPRO Laboratory		
Sampling method:	TMH5:MA2		
Source of sample	Test Pit 5		
Condition of sample:	Good		
Conformity statement requested by client:	Yes		
Subcontractor (if any)	No		
Material description:	Yellow Orange Sandy Clay with Sandstone Pebbles		
Tests Requested/Method:	SANS		
	Grading	SANS 3001-GR1	
	Atterberg Limits	SANS 3001-GR10 & -GR20	
	M.D.D	SANS 3001-GR30 & -GR20	
	C.B.R.	SANS 3001-GR40 & -GR20	
Date Completed:	10/05/2022		

Notes/Deviations	
-	
-	
-	
-	

Remarks:

1. All tests marked (#) are not included in our schedule of Accreditation.
2. The results reported relate only to the sample tested. Statement of conformity are not made or implied in the report, unless required by the client. Review the results, expanded uncertainty, and specifications to ensure they meet your requirements.
The final decision rule will be the customers risk and not the Laboratory.
The Laboratory does not report a statement of conformity unless it is inherent in the requested specification or standard.
3. This document is the correct record of all measurements made, and may not be reproduced other than with full written approval from the Technical Manager of TESTPRO Laboratory.
4. Measuring equipment is traceable to national standards (Where applicable).
5. Samples will be retained, for a one month period, before disposal.
6. Tests are reported with an approximate 95% level of confidence.
7. Uncertainty of measurement will only be reported if requested by the client.
8. Opinions & Interpretations are not included in our schedule of Accreditation.

Technical Signatory
Jaco van Rensburg

 TESTPRO LABORATORY Materials Testing Laboratory		 sanas Testing Laboratory 10552																		
5 Voorbaai Crescent, Bayview, Hartenbos Tel. : (044) 695 0831		P.O. Box 35, Hartenbos, 6520 e-mail : jaco@testpro.co.za																		
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			Specification:	COLTO	Order no:	2022_04_01														
Attention:	Dreyer van Zyl, 0825716279		Project: Outeniquasbosch Phase 11 & 13, Hartenbos																	
SOIL ANALYSIS TEST REPORT																				
SAMPLE INFORMATION				MATERIAL PROPERTIES																
Material Description	Yellow Orange Sandy Clay with Sandstone Pebbles			GRADING																
Source	Test Pit 5	Position/ Layer	Layer 3	Sieve Size	% Passing	G9 Specifications														
Date Received	27/04/2022	Date Tested	10/05/2022	75	100															
Sampling Method	TMH5:MA2	Sample Number	1649	63	100															
MOD, BD & AD Analysis				50	100															
MDD	1818	kg/m³	OMC	13.1																
BD	-		WA	-																
AD	-																			
Method	Scalped	% Scalped	5.7																	
Uncertainty																				
MDD		kg/m³	OMC																	
																				
				SIEVE ANALYSIS																
																				
				Test	Results	Specifications	Opinion													
				Grading Modulus	0.7	0.75<2.7	✗													
				Coarse Sand Ratio	6	N/A														
				Strength (kN)																
				10% FACT (Dry)		Mudrock Only														
				10% FACT (Wet)																
				Wet/Dry Rel. (%)																
				CBR																
Moulding MC%	12.9																			
CBR @ 98%	1																			
CBR @ 97%	1																			
CBR @ 95%	1																			
CBR @ 93%	1	Min 7	✗																	
CBR @ 90%	1																			
Swell																				
Swell @ 100%	4.8	Swell<1.5%	✗																	
Durability (%)																				
ACV (Dry)																				
ACV (Wet)																				
Flakiness Index																				
20mm<28mm																				
14mm<20mm																				
Atterberg Limits																				
-0.425mm																				
Liquid Limit	37																			
Plastic Limit	17																			
Linear Shrinkage	9.0																			
LSx%Pass0.425	725																			
Plasticity index	19	Max 12.2	✗																	
-0.075mm																				
Liquid Limit	-																			
Plastic Limit	-																			
Linear Shrinkage	-																			
Plasticity index	-																			
Classification:	<G9																			
Fractured Faces <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Size</td> <td>Fractured Faces %</td> <td>Size</td> <td>Fractured Faces %</td> <td rowspan="4" style="text-align: center;">#N/A</td> </tr> <tr> <td>37.5</td> <td></td> <td>14</td> <td></td> </tr> <tr> <td>28</td> <td></td> <td>5</td> <td></td> </tr> <tr> <td>20</td> <td></td> <td>All>5</td> <td></td> </tr> </table>				Size	Fractured Faces %	Size	Fractured Faces %	#N/A	37.5		14		28		5		20		All>5	
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