TESTPRO LABORATORY
Materials Testing Laboratory

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:	TP2354	
Order No:	-	
Sample No:	2355	
Project Information:	Phase 12 & 14 Outeniquasbosch	
Number of pages:	2	
Date Received:	13/01/2023	
Date Sampled:	13/01/2023	
Sampled by:	TESTPRO Laboratory	
Sample plan included:	No	
Environmental Conditions:	Hot / Sunny / Cloudy /	
Delivered by:	TESTPRO Laboratory	
Sampling method:	TMH5:MA2	
Source of sample	Test Pit 2 (Phase 12)	
Condition of sample:	Good	
Conformity statement requested by client:	Yes	
Subcontractor (if any)	No	
Material description:	Reddish Brown Clayey Sand	
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:	19/01/2023	

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.

Jacobus Phillipus van Rensburg
Digitally signed by Jacobus Phillipus van Rensburg
Date: 2023.02.01 08:05:36 +02'00'

Technical Signatory
Jaco van Rensburg

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sanas Testing Laboratory T0952

Client:	Zec 4 (Pty) Ltd P.O Box 154 Hartenbos 6520	Date Reported:	01/02/2023
Attention:	**Dreyer van Zyl, 0825716279**	Job nr:	TP2354
		Specification:	COLTO
		Order no:	-
		Project:	Phase 12 & 14 Outeniquasbosch

SOIL ANALYSIS TEST REPORT

SAMPLE INFORMATION

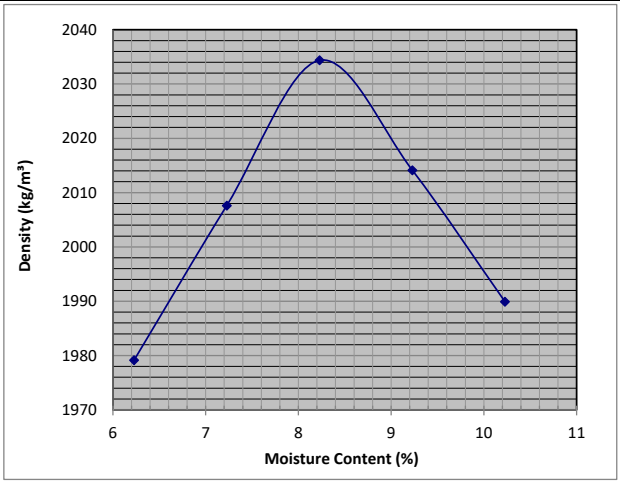
Material Description	Reddish Brown Clayey Sand		
Source	Test Pit 2 (Phase 12)	Position/ Layer	Layer 2
Date Received	13/01/2023	Date Tested	19/01/2023
Sampling Method	TMH5:MA2	Sample Number	2355

MOD , BD & AD Analysis

MDD	2034	kg/m³	OMC	8,2	%
BD	-		WA	-	
AD	-				
Method	Scalped		% Scalped	0,9	%

Uncertainty

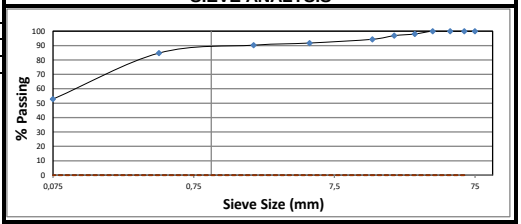
MDD		kg/m³	OMC		%



MATERIAL PROPERTIES

GRADING		G9	Uncertainty	Opinion
Sieve Size	% Passing	Specifications		✓ or x
75	100			
63	100			
50	100			
37,5	100			
28	98			
20	97			
14	94			
5	92			
2	90			
0,425	85			
0,075	52,9			

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%	8,2			
CBR @ 98%	9			
CBR @ 97%	8	-		
CBR @ 95%	6			
CBR @ 93%	5	Min 7		×
CBR @ 90%	3	-		
Swell				
Swell @ 100%	0,6	Swell<1.5%		✓
Durability (%)				
ACV (Dry)				
ACV (Wet)				
Flakiness Index				
20mm<28mm				
14mm<20mm				
Atterberg Limits				
-0.425mm				
Liquid Limit	21			
Plastic Limit	12			
Linear Shrinkage	4,0			
LSx%Pass0.425	339			
Plasticity index	9	Max 12,2		✓
-0.075mm				
Liquid Limit	-			
Plastic Limit	-			
Linear Shrinkage	-			
Plasticity index	-			
Classification:	**<G9**			

Fractured Faces

Size	Fractured Faces %		Size	Fractured Faces %		
37,5			14			#N/A
28			5			
20			All>5			

✓	In Spec
×	Out of Spec
☐	Even with a 95% certainty, reading could be out of spec.

Jacobus Phillipus van Rensburg
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Jaco van Rensburg

End of Report