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

SOIL ANALYSIS TEST REPORT

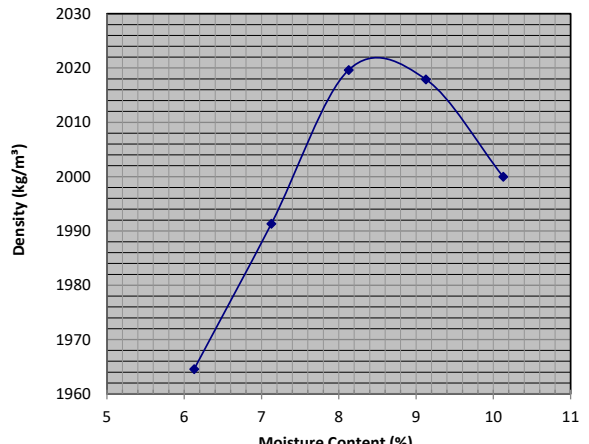
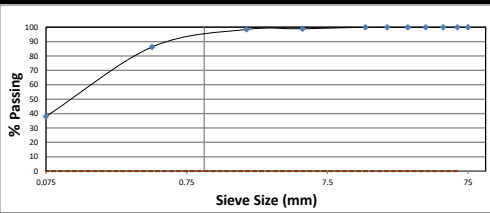
Job No:	TP16923	
Order No:	2022_04_01	
Sample No:	1652	
Project Information:	Outeniquasbosch Phase 11 & 13, Hartenbos	
Number of pages:	2	
Date Received:	27/04/2022	
Date Sampled:	27/04/2022	
Sampled by:	TESTPRO Laboratory	
Sample plan included:	No	
Environmental Conditions:	Windy /	Sunny /
Delivered by:	TESTPRO Laboratory	
Sampling method:	TMH5:MA2	
Source of sample	Test Pit 3	
Condition of sample:	Good	
Conformity statement requested by client:	Yes	
Subcontractor (if any)	No	
Material description:	Yellowish to White Silty 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:	10/05/2022	

Notes/Deviations

Remarks:

- All tests marked (#) are not included in our schedule of Accreditation.
- 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.
- 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.
- Measuring equipment is traceable to national standards (Where applicable).
- Samples will be retained, for a one month period, before disposal.
- Tests are reported with an approximate 95% level of confidence.
- Uncertainty of measurement will only be reported if requested by the client.
- Opinions & Interpretations are not included in our schedule of Accreditation.

Technical Signatory
Jaco van Rensburg

 TESTPRO LABORATORY Materials Testing Laboratory		 sanas Testing Laboratory 10952					
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Client:	Zec 4 (Pty) Ltd P.O Box 154 Hartenbos 6520		Date Reportec	27/05/2022	Job nr:	TP16923	
			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	Yellowish to White Silty Sand			GRADING			
Source	Test Pit 3	Position/ Layer	Layer 2	Sieve Size	% Passing	G9 Specifications	
Date Received	27/04/2022	Date Tested	10/05/2022	75	100		
Sampling Method	TMH5:MA2	Sample Number	1652	63	100		
MOD, BD & AD Analysis				50	100		
MDD	2022	kg/m³	OMC	8.4			
BD	-		WA	-			
AD	-						
Method	Scalped	% Scalped	0.0				
Uncertainty							
MDD		kg/m³	OMC				
				SIEVE ANALYSIS			
							
				Test	Results	Specifications	Opinion
				Grading Modulus	0.8	0.75<2.7	✓
				Coarse Sand Ratio	12	N/A	
				Strength (kN)			
10% FACT (Dry)		Mudrock Only					
10% FACT (Wet)							
Wet/Dry Rel. (%)							
CBR							
Moulding MC%	8.3						
CBR @ 98%	11						
CBR @ 97%	10						
CBR @ 95%	7						
CBR @ 93%	5	Min 7		✗			
CBR @ 90%	3						
Swell							
Swell @ 100%	1.0	Swell<1.5%		✓			
Durability (%)							
ACV (Dry)							
ACV (Wet)							
Flakiness Index							
20mm<28mm							
14mm<20mm							
Atterberg Limits							
-0.425mm							
Liquid Limit	25						
Plastic Limit	16						
Linear Shrinkage	4.5						
LSx%Pass0.425	388						
Plasticity index	9	Max 12.3		✓			
-0.075mm							
Liquid Limit	-						
Plastic Limit	-						
Linear Shrinkage	-						
Plasticity index	-						
Classification:	<G9						
Technical Signatory Jaco van Rensburg							