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

SOIL ANALYSIS TEST REPORT

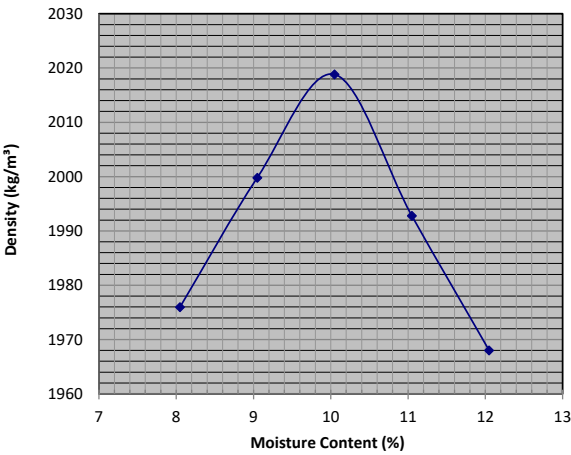
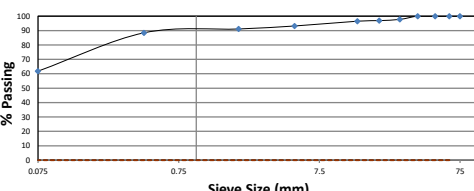
Job No:	TP16923	
Order No:	2022_04_01	
Sample No:	1655	
Project Information:	Outeniquasbosch Phase 11 & 13, Hartenbos	
Number of pages:	2	
Date Received:	27/04/2022	
Date Sampled:	27/04/2022	
Sampled by:	TESTPRO Laboratory	
Sample plan included:	No	
Environmental Conditions:	Hot /	Sunny /
Delivered by:	TESTPRO Laboratory	
Sampling method:	TMH5:MA2	
Source of sample	Test Pit 2	
Condition of sample:	Good	
Conformity statement requested by client:	Yes	
Subcontractor (if any)	No	
Material description:	Whitish Sandy Clay	
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 10552							
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Client:	Zec 4 (Pty) Ltd P.O Box 154 Hartenbos 6520			Date Reportec	27/05/2022	Job nr:	TP16923				
Attention:	Dreyer van Zyl, 0825716279			Specification:	COLTO	Order no:	2022_04_01				
				Project:	Outeniquasbosch Phase 11 & 13, Hartenbos						
SOIL ANALYSIS TEST REPORT											
SAMPLE INFORMATION				MATERIAL PROPERTIES							
Material Description	Whitish Sandy Clay			GRADING		G9	Opinion				
Source	Test Pit 2	Position/ Layer	Layer 3	Sieve Size	% Passing	Specifications	Uncertainty				
Date Received	27/04/2022	Date Tested	10/05/2022	75	100						
Sampling Method	TMH5:MA2	Sample Number	1655	63	100						
MOD, BD & AD Analysis				50	100						
MDD	2019	kg/m ³	OMC	37.5	100						
BD	-		WA	28	98						
AD	-			20	97						
Method	Scalped	% Scalped	3.6	14	97						
Uncertainty				5	93						
MDD		kg/m ³	OMC	2	91						
				0.425	88						
				0.075	61.8						
				SIEVE ANALYSIS							
											
				Test	Results	Specifications	Opinion				
				Grading Modulus	0.6	0.75<2.7	✗				
				Coarse Sand Ratio	3	N/A					
				Strength (kN)							
				10% FACT (Dry)	Mudrock Only						
				10% FACT (Wet)							
				Wet/Dry Rel. (%)							
				CBR							
				Moulding MC%	10.0						
				CBR @ 98%	2						
				CBR @ 97%	2						
				CBR @ 95%	2						
				CBR @ 93%	2	Min 7	✗				
				CBR @ 90%	1						
				Swell							
				Swell @ 100%	3.7	Swell<1.5%	✗				
				Durability (%)							
				ACV (Dry)							
				ACV (Wet)							
				Flakiness Index							
				20mm<28mm							
				14mm<20mm							
				Atterberg Limits							
				-0.425mm							
				Liquid Limit	32						
				Plastic Limit	18						
				Linear Shrinkage	6.5						
				LSx%Pass0.425	575						
				Plasticity index	14	Max 12	✗				
				-0.075mm							
				Liquid Limit	-						
				Plastic Limit	-						
				Linear Shrinkage	-						
				Plasticity index	-						
				Classification:	<G9						
				Technical Signatory Jaco van Rensburg							
Fractured Faces											
Size	Fractured Faces %	Size	Fractured Faces %	#N/A							
37.5		14									
28		5									
20		All>5									
				In Spec Out of Spec Even with a 95% certainty, reading could be out of spec.							