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

SOIL ANALYSIS TEST REPORT

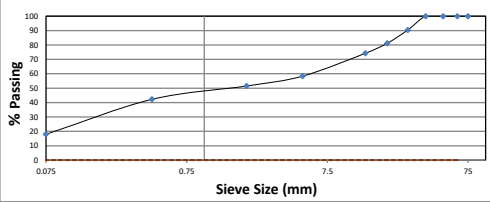
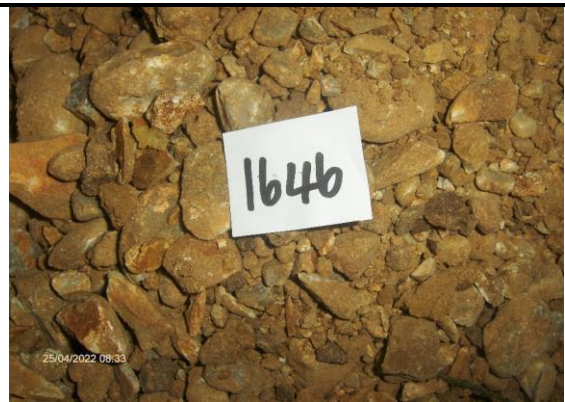
Job No:	TP16923	
Order No:	2022_04_01	
Sample No:	1646	
Project Information:	Outeniquasbosch Phase 11 & 13, Hartenbos	
Number of pages:	2	
Date Received:	27/04/2022	
Date Sampled:	27/04/2022	
Sampled by:	TESTPRO Laboratory	
Sample plan included:	No	
Environmental Conditions:	Hot /	Sunny /
Delivered by:	TESTPRO Laboratory	
Sampling method:	TMH5:MA2	
Source of sample	Test Pit 1	
Condition of sample:	Good	
Conformity statement requested by client:	Yes	
Subcontractor (if any)	No	
Material description:	QSS Gravel	
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	
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	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	QSS Gravel		
Source	Test Pit 1	Position/ Layer	Layer 3
Date Received	27/04/2022	Date Tested	10/05/2022
Sampling Method	TMH5:MA2	Sample Number	1646
MOD, BD & AD Analysis			
MDD	2166	kg/m³	OMC
BD	-		WA
AD	-		%
Method	Scalped	% Scalped	17.8
Uncertainty			
MDD		kg/m³	OMC
SIEVE ANALYSIS			
			
Test	Results	Specifications	Opinion
Grading Modulus	1.9	0.75<2.7	✓
Coarse Sand Ratio	18	N/A	
Strength (kN)			
10% FACT (Dry)		Mudrock Only	
10% FACT (Wet)			
Wet/Dry Rel. (%)			
CBR			
Moulding MC%	7.1		
CBR @ 98%	15		
CBR @ 97%	13		
CBR @ 95%	10		
CBR @ 93%	7	Min 7	✓
CBR @ 90%	5		
Swell			
Swell @ 100%	0.4	Swell<1.5%	✓
Durability (%)			
ACV (Dry)			
ACV (Wet)			
Flakiness Index			
20mm<28mm			
14mm<20mm			
Atterberg Limits			
-0.425mm			
Liquid Limit	30		
Plastic Limit	17		
Linear Shrinkage	6.0		
LSx%Pass0.425	254		
Plasticity index	13	Max 15.6	✓
-0.075mm			
Liquid Limit	-		
Plastic Limit	-		
Linear Shrinkage	-		
Plasticity index	-		
Classification:	Possible G9		
			
Fractured Faces			
Size	Fractured Faces %	Size	Fractured Faces %
37.5		14	
28		5	
20		All>5	
#N/A			
☒ In Spec ☐ Out of Spec ☐ Even with a 95% certainty, reading could be out of spec.			
Technical Signatory Jaco van Rensburg			