

ADDENDUM 3

APPENDIX 1

QUEBEC TAXIWAY GEOTECH RESULTS

Job Request No.: RD 7234/23

Date Reported : 01/11/23

Nankhoo Engineers

P.O.Box 2135

Umhlanga Manors

4021

Project : King Shaka International Airport

Attention : Mr A. Sukuram

Material Classification

SAMPLE INFORMATION AND PROPERTIES

SAMPLE NO.	D17187	D17188	D17189	D17190
HOLE NO./ Km / CHAINAGE	TP6B	TP6B	TP6C	TPD
ROAD NO./ NAME Line 1 ROAD NO./ NAME Line 2	Greenfield CH 1+150 CEN	Greenfield CH 1+150 CEN	Greenfield CH 1+150 CEN	Greenfield CH 1+150 CEN
LAYER TESTED/SAMPLED	Insitu	Insitu	Insitu	Insitu
SAMPLE DEPTH	0-230mm	230-630mm	630-840mm	840-1000mm
DATE SAMPLED	24/10/23	24/10/23	24/10/23	24/10/23
COLOUR OF SAMPLE	Refer to Profile	Refer to Profile	Refer to Profile	Refer to Profile
TYPE OF SAMPLE	Refer to Profile	Refer to Profile	Refer to Profile	Refer to Profile

SIEVE ANALYSIS - % PASSING SIEVES *(SANS 3001-GR1:2010, SANS 3001-GR2:2010)

SIEVE ANALYSIS - % PASSING SIEVES (SANS 3001-GR1:2010, SANS 3001-GR2:2010)					
SIEVE ANALYSIS (GR 1) % PASSING	100.0 mm				100
	75.0 mm				95
	63.0 mm				95
	50.0 mm				90
	37.5 mm				87
	28.0 mm				85
	20.0 mm				82
	14.0 mm			100	81
	5.0 mm	100		99	78
	2.0 mm	99	100	99	77
	0.425 mm	94	98	96	73
0.075 mm	60	64	61	48	
GM %		0.50	0.40	0.40	1.0

ATTERBERG LIMITS ANALYSIS - *(SANS 3001-GR10:2010)

ATTERBERG LIMITS (%) SANS GR10,GR11	LIQUID LIMIT	22	22	19	20
	PLASTICITY INDEX	5	6	4	5
	LINEAR SHRINKAGE	2	3	2	2
CLASSIFICATION	H.R.B.	A-4(5)	A-4(6)	A-4(5)	A-4(3)
	COLTO	-	-	-	G8
	TRH 14	G10	G10	G10	G9

CALIFORNIA BEARING RATIO - *(SANS 3001-GR30:2010, SANS 3001-GR40:2010)

SANS GR30 MAX. DRY DENSITY	OMC %	8,0	8,8	8,5	9,5
	MDD (kg/m³)	1955	1976	1950	2060
	COMP MC %	8,5	8,6	8,2	9,0
SWELL % @	MOD NRB PRO	0,12 0,16 0,20	0,14 0,17 0,20	1,10 1,21 1,35	0,66 0,72 0,76
	100 %	7	33	21	44
C.B.R. SANS GR40	98 %	6	22	15	31
	97 %	5	18	12	25
	95 %	4	12	9	18
	93 %	4	8	6	12
	90 %	3	4	3	7

STABILISER IN LAB	N/A	N/A	N/A	N/A
TEST TYPE	MDD/CBR/IND	MDD/CBR/IND	MDD/CBR/IND	MDD/CBR/IND
SAMPLING METHOD	TMH5	TMH5	TMMH5	TMH5
WEATHER WHEN SAMPLED	Sunny	Sunny	Sunny	Sunny

Deviation from Test Method :

Remarks and Notes : (-) Symbol Denotes COLTO Worse Than G9

Opinions and interpretations are not included in our schedule of accreditation. (T0806)
The samples were subjected to analysis according to (SANS)(TMH5)(DOT)(ASTM)
The test results reported relate to the samples tested.
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Report compiled by : Junesh Roopiall

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Testing Laboratory
Accreditation No. T0806
Prog.ver 10.7 (2019/11/07)

Jay Sarjoopasad
Technical Signatory

Client: Nankhoo Consulting Engineers
Project: King Shake International Airport
Project No: RD7234-23

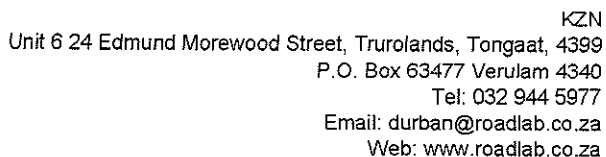
TP No. 06 Date: 2023/10/24
CH: 1+150
Carriageway: CENTRE

Photo	Symbol	Sample	Depth (m)	Description
		A	0.0-0.2	Moist, Dark Orangish Brown, Very Dense, Silty Clay Sand.
		B	0.02-0.63	Moist, Dark Brown, Very Dense, Silty Clayey Sand, Weathered Dolerite Hydrochloric Acid (-) Phenolphthalein (-) Note 2: Full Classification
		C	0.63-0.84	Very Moist, Dark Brownish Orange, Very Dense, Clayey Silty Sand Hydrochloric Acid (-) Phenolphthalein (-) Note 2: Full Classification
		D	0.84-1.0	Very Moist, Dark Orangish Brown, Very Dense, Silty Clayey Sand. Hydrochloric Acid (-) Phenolphthalein (-) Note 2: Full Classification

Note 1: RI=Road Indicator
N 2: Full Classification

Profiled By: Revash Jhinu
Excavation method: By Hand and Power tools

Coordinates 29.6077075-S
31.121786-E



Client:	Nankhoo Engineers	Position:	DCP.No 1 TP6
Project:	King Shaka International Airport	Start Depth:	0
		Operator:	Revash Jhinu
Location:	CH 1+150	Instrument Type:	0
Date Tested:	20/10/23	Date Processed:	31/10/23

[illegible]

Remarks : GPS - Coordinates (29°60,7075'S - 31°12,1786'E) - Top of Pit

Test marked * is not accredited.

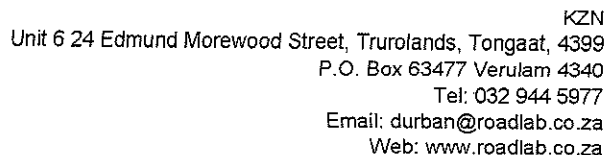
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The results reported relate only to the sample tested

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Mr. J. Sarjoopalsad
Technical Signatory



Client:	Nankhoo Engineers	Position:	DCP.No 2 TP6
Project:	King Shaka International Airport	Start Depth:	1000
		Operator:	Revash Jhinu
Location:	CH 1+150	Instrument Type:	0
Date Tested:	20/10/23	Date Processed:	31/10/23

[illegible]

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Mr. J. Sarjooparsad
Technical Signatory



DATE: 20/10/23



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