

Roads Provision Department

Pavement & Geo-Technical Engineering

Ref. No. : 2009/002

W.O. No. : 1136670

Asphalt Compaction Control

Contract No. :
 Source : MUCH ASPHALT Type"D"+ 10% R.A. + Rediset 2%
 Location : LEICESTER ROAD - PENDELBERRY to GRIMSBY ROAD
 From the start of Pendelberry Robots

Date Tested : 2009/06/03 Paved : 2009/06/02

Results to : **Manager : Eric Lathleiff**
1. Seelan Naidoo (OFP Room 205)
2. Herrick Naicker (DCAP)

Theoretical Maximum Density (Rice) (kg/m ³) :	2485	Specification Limit (Marshall) :	96.0
100% Marshall Density (kg/m ³) :	2340	Specification Limit (TMD) :	93.0

LEICESTER ROAD - NORTHBOUND - BOTH LANES

k_a : 0.5

From : Chainage 00m Gauge Mode : NORMAL MODE - 45mm Offset = 50kg
 To : Chainage 261m Time :
 Length = 261m Width = 7.5m

Test No.	Length (m)	Width (m)	Density (kg/m ³)	Compaction (% Marshal)	Compaction (% TMD)
1	17	1.4	2289	97.8	92.1
2	49.1	5.2	2272	97.1	91.4
3	88	1.6	2328	99.5	93.7
4	147.2	4.2	2358	100.8	94.9
5	152.7	1.1	2308	98.6	92.9
6	218.6	0.9	2395	102.4	96.4
7	247.1	4.8	2394	102.3	96.3
Average			2335	99.8	94.0
Sample Standard Deviation				2.10	1.98
Minimum Allowable Mean Compaction (%)				97.0	94.0
Compliance				Pass	Pass

LEICESTER ROAD - NORTHBOUND - BOTH LANES

Date Tested : 2009/06/04 Paved : 02/06/09

From : Chainage 260meters Gauge Depth : NORMAL MODE - 45mm Offset = 50kg
 To : Chainage 400meters Time : **Length = 140meters**
 Source : MUCH ASPHALT Type"D"+ 10% R.A. + Sasobit 1.5%

Test No.	Length (m)	Width (m)	Density (kg/m ³)	Compaction (% Marshal)	Compaction (% TMD)
1	263.8	2.5	2381	101.8	95.8
2	287.7	2.3	2315	98.9	93.2
3	319.8	6.5	2361	100.9	95.0
4	324.7	4	2343	100.1	94.3
5	341.8	2.1	2348	100.3	94.5
6	374.2	2.2	2319	99.1	93.3
7	383.1	3.8	2385	101.9	96.0
Average			2350	100.4	94.6
Sample Standard Deviation				1.18	1.11
Minimum Allowable Mean Compaction (%)				96.6	93.6
Compliance				Pass	Pass

MOUNTBATTEN DRIVE - BASE COURSE - FAST LANE

From : Paver Joint Gauge Depth : NORMAL MODE
 To : Paver Time : 10h00 - 12h30

Test No.	Length (m)	Width (m)	Density (kg/m ³)	Compaction (% Marshal)	Compaction (% TMD)
1				0.0	0.0
2				0.0	0.0
3				0.0	0.0
4				0.0	0.0
5				0.0	0.0
6				0.0	0.0
7				0.0	0.0
Average				0.0	0.0
Sample Standard Deviation				0.00	0.00
Minimum Allowable Mean Compaction (%)				96.0	93.0
Compliance				Fail	Fail

Remarks :

1. Test locations determined through stratified random sampling.
2. **Eric please note the second section should have been 400meters instead of which only 140meters was tested due to a misunderstanding of chainages given by National.**

Signed : C.D.WARD
 Materials Tester : C.D. Ward