

## WMA TRIALS - COEDMORE

MUCH ASPHALT (PTY) LTD					YEAR: 2009			
FINAL PRODUCT QUALITY CONTROL REPORT SHEET					BRANCH: Coedmore			
MIX TYPE: Type D - 13.2mm Wearing Course with 40/50 + 2.0% Rediset WMX					Contract : WMA Trials (Plant trials)			
SAMPLE NUMBER		Target	P2493	P2488	P2489			
DATE SAMPLED			08-May-09	06-May-09	06-May-09			
DATE TESTED			08-May-09	06-May-09	06-May-09			
Details			Plant Trial (5.0%)	Plant Trial (5.0%)	Plant Trial (5.0%)			
Temp		130	140	130				
GRADATION TEST		% PASS	% PASS	% PASS	% PASS	Basic Statistics		
SIEVE SIZES						Upper	Lower	Ave
	37.5	100	100	100	100	100	100	100
	26.5	100	100	100	100	100	100	100
	19.0	100	100	100	100	100	100	100
	13.2	99	99	99	97	100	94	98
	9.5	86	84	88	84	91	81	85
	6.7	76	78	83	78	81	71	80
	4.75	63	65	70	65	67	59	67
	2.36	41	45	47	44	45	37	45
	1.18	28	31	33	30	31	24	31
	0.600	19	21	22	20	23	15	21
	0.300	13	15	16	14	16	10	15
	0.150	10	10	11	10	12	8	10
	0.075	7.2	7.1	8.0	6.9	9.2	5.2	7.33
Compaction Temperature (°C)			125	125	125			
Moisture Content (%) - Oven dried			0.04	0.1	0.1			
BINDER CONTENT (%)		5.0	5.2	5.3	4.9	5.13		
MARSHALL DENSITY (g/ml)			2.348	2.359	2.345	2.351		
MAX THEORETICAL DENSITY (g/ml)			2.471	2.473	2.474	2.473		
VOIDS IN MIX (%)		5.2	5.0%	4.6%	5.2%	4.93%		
Voids-In-Mineral Aggregate (%)			15.6%	15.3%	15.5%	15.5%		
MARSHALL STABILITY (kN)			13	13.5	13.3	13.3		
MARSHALL FLOW (mm)			2.9	3.0	3.0	3.0		
Indirect Tensile Strength (kPa)			1021	1031	1040	1031		
Gyratory voids (%)								
Film Thickness (µm)		7 min	7.8	7.3	7.5	7.52		
Stability/Flow Ratio			4.5	4.5	4.4	4.5		
Filler/Bitumen Ratio			1.4	1.5	1.4	1.4		
Voids Filled With Bitumen (%)			68.1%	69.9%	66.3%	68%		

