

Doc ID:

FH-DP1-PM-ITP004D

**Rev:** 00

Principal's: Melbourne Airport (APAM)

Contract No: CP1002

Prepared By: Michael Natalizio

Project: MAPMP 2.0: DP1 – Minor Asphalt WorksReviewed By: Noriko WoodDate: 19/05/2022

Construction Process: Hot Mix Asphalt Production – Type H Shoulder MixApproved By: Joseph StellaDate: 19/05/2022

**Specifications:** 60692389-PS-01-AV-0001 - Revision 1 (27 Mar 2023)

Structure / Component: Asphalt Pavement

Lot No: Lot Details: Lot size/Quantity: Date:

Item	Task/Activity		Inspection	/Test			AP/IP/ TP/ SCP	Responsibility	Checked by:		
No.	Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
1.0	Preliminary Activit	ies									
1.1	Submission of Production Plan	Prior to commencing works	The production plan must demonstrate that the production capacity and the hot storage capacity of the mixing plant is sufficient to supply asphalt to complete the work undertaken within any work period on time.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.1	Verify	Aconex Corresponde nce	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
1.2	Checking of Weighting Devices and Certificates	Prior to commencing works	The Contractor must supply details of current certification of weighing equipment including belt weighers and weighbridges to the Contract Administrator.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.6	Verify	Aconex Corresponde nce	WP	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
1.3	Calibration of the mixing plant	Prior to commencing works	Calibrating all necessary devices and parameters at the mixing plant to achieve the "Job Mix".  Established plants must provide historical records of the asphalt production over the previous one (1) month to verify consistency.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.11	Verify	Historical records of asphalt production This ITP signed	WP	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
1.4	Submission and review of mix design	Prior to commencing works	Submission and review of a mix design report detailing the mix which meets the requirements of the specification.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.11.4	Verify	Aconex Corresponde nce	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant			



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2.0	Asphalt Production	n – Type H Should	der Mix								
2.1	Temperature	Every loaded truck or at intervals of 15 minutes if more than one truck is dispatched in 15 minutes.	≤175°C	Section 407.11(a), 407.15	Thermometer	Load inspection sheet / docket	TP	Plant Operator / Laboratory Technician			
2.2	Temperature	One test per 250 tonnes (or part thereof) if lot is >40 tonnes	≤175°C	Internal	Thermometer	Load inspection sheet / test report	TP	Laboratory Technician			
2.3	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating	Every loaded truck	>95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles	Section 407.11 (b)	Visual Check	Load inspection sheet	TP	Plant Operator			



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Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating	One test per 250 tonnes (or part thereof) if lot is >40 tonnes	>95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles	Internal	Visual Check	Load inspection sheet	ТР	Laboratory Technician			
Maximum density	On every production day	± 35 kg/m³ of its 6-point rolling average	Section 407.11(e), 407.15	AS2891.7.1	NATA- accredited test certificate	TP	Laboratory Technician			
Binder content	One test per 250 tonnes (or part thereof) if lot is >40 tonnes	±0.3% of mix design specification	Section 407.10, 407.15	AS2891.3.3 or AGPT/T234	NATA- accredited test certificate	TP	Laboratory Technician			
Full sieve analysis	One test per 250 tonnes (or part thereof) if lot is >40 tonnes	See <b>Table 1</b> Table 1 of this document.	Section 407.10, 407.15	AS2891.3.3 or AGPT/T234	NATA- accredited test certificate	TP	Laboratory Technician			
Moisture content	One test per 250 tonnes (or part thereof) if lot is >40 tonnes	≤0.5% moisture	Section 407.11 (b)	RC 211.01	NATA- accredited test certificate	TP	Laboratory Technician			
	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating  Maximum density  Binder content  Full sieve analysis	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating  Maximum density  Discription  One test per 250 tonnes (or part thereof) if lot is >40 tonnes  One test per 250 tonnes (or part thereof) if lot is >40 tonnes  One test per 250 tonnes (or part thereof) if lot is >40 tonnes  Full sieve analysis  Moisture content  One test per 250 tonnes (or part thereof) if lot is >40 tonnes  One test per 250 tonnes (or part thereof) if lot is >40 tonnes  One test per 250 tonnes (or part thereof) if lot is >40 tonnes	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating     One test per 250 tonnes (or part thereof) if lot is >40 tonnes     >95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles       Maximum density     On every production day     ± 35 kg/m³ of its 6-point rolling average       Binder content     One test per 250 tonnes (or part thereof) if lot is >40 tonnes     ±0.3% of mix design specification       Full sieve analysis     One test per 250 tonnes (or part thereof) if lot is >40 tonnes     See Table 1 Table 1 of this document.       Moisture content     One test per 250 tonnes (or part thereof) if lot is >40 tonnes     ≤0.5% moisture	Description         Frequency         Acceptance Criteria         Reference Documents           Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         >95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles         Internal           Maximum density         On every production day         ± 35 kg/m³ of its 6-point rolling average         Section 407.11(e), 407.15           Binder content         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         ±0.3% of mix design specification         Section 407.10, 407.15           Full sieve analysis         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         See Table 1 Table 1 of this document.         Section 407.10, 407.15           Moisture content         One test per 250 tonnes (or part thereof) if lot is >40         ≤0.5% moisture         Section 407.11 (b)	Description         Frequency         Acceptance Criteria         Reference Documents         Inspection / Test Method           Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         >95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles         Internal         Visual Check           Maximum density         On every production day         ± 35 kg/m³ of its 6-point rolling average         Section 407.11(e), 407.15         AS2891.7.1           Binder content         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         ±0.3% of mix design specification         Section 407.10, 407.15         AS2891.3.3 or AGPT/T234           Full sieve analysis         One test per 250 tonnes (or part thereof) if lot is >40 tonnes         See Table 1Table 1 of this document.         Section 407.10, 407.15         AS2891.3.3 or AGPT/T234           Moisture content         One test per 250 tonnes (or part thereof) if lot is >40         Section 407.11 (b)         RC 211.01	Description   Frequency   Acceptance Criteria   Reference   Documents   Inspection / Test Method   Record of conformity	Prequency   Acceptance Criteria   Reference   Documents   Record of Test Method   Record of Conformity   AP/IP/TP/SCP   AP/IP/TP/SCP	Prequency   Acceptance Criteria   Reference Documents   Inspection / Test Method   Record of Test Me	Project Engineer Accomments   Project Engineer Apply Superintendent Surveyor Foreman	Project Enginer   Project En



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3.1	Moisture content of RAP	One test per 500 tonnes of RAP	Not exceeding the maximum moisture content acceptable for the asphalt plant nominated in the RAP Management Plan – Fulton Hogan Infrastructure Services.  Any materials with moisture content greater than the nominated moisture content should be allowed to drain before being utilised.	Section 407.13(c) FH RAP Managemen t Plan Section 3.2	AS2891.10	NATA- accredited test certificate	TP	Laboratory Technician / RAP Yard Supervisor			
3.2	Binder content of RAP	One test per 500 tonnes of RAP	± 0.5 of target binder content  1 out of 10 consecutive results is allowed outside tolerance	Section 407.13(c), 407.11	AS2891.3.3	NATA- accredited test certificate	TP	Laboratory Technician / RAP Yard Supervisor			
3.3	Sieve analysis of RAP	One test per 500 tonnes of RAP	See Table 2  Table 2 of this document.	Section 407.13(c)	AS2891.3.3	NATA- accredited test certificate	TP	Laboratory Technician / RAP Yard Supervisor			
4.0	RAP Testing (1) - RAP Level 2 (as per Table 407.121 Section 407)										



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No.	Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		/ Superintendent Surveyor	AECOM	FH	Date
4.1	Binder viscosity	One test per 1000 tonnes lot of RAP used for Level 2 mixes as per Table 407.121	Viscosity of the blend of virgin and RAP binder shall fall within the range in the table below:    Specified   Binder Blend   Binder Viscosity   Range   (Pa.s @ 60°C)   C170   170 - 240   C320   320 - 500   C600   600 - 880	Section 407.13(e)	AGPT/T192 or AS 2341.2, AGPT/T193	NATA- accredited test certificate	TP	Laboratory Technician			

The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality \System Procedures and verifies lot compliance with specifications.

Print Name: Position: Signature: Date: / /

#### Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	IP	Inspection point	Formal Inspection to be done and recorded
HP*	Fulton Hogan Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	TP	Test Point	Product compliance test to be undertaken and recorded/reported
WP	Witness Point	An inspection which must be witnessed by the Superintendent	SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			



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#### Notes

(1): An approved RAP management plan addressing RAP stockpile management, RAP sampling and testing, RAP process control, RAP traceability, RAP binder blend viscosity (RAP Level 2) and asphalt plant capability shall be submitted to DoT at least 14 days prior to the asphalt works. No asphalt containing RAP shall be supplied until DoT approves the management plant.

### Table 1: Production tolerances for mix grading (Table 407.101 in DoT Section 407)

Sieve size AS (mm)	Tolerance on percentage passing (by mass)									
Sieve Size AS (IIIII)	Size 7 Size 10		Size 14	Size 20						
37.5	Nil	Nil	Nil	Nil						
26.5	Nil	Nil	Nil	Nil						
19.0	Nil	Nil	Nil	± 6						
13.2	Nil	Nil	± 6	± 6						
9.5	Nil	± 6	± 6	± 6						
6.70 - 4.75	± 6	± 6	± 6	± 6						
2.36 - 0.600	± 5	± 5	± 5	± 5						
0.300 - 0.150	±3	± 3	±3	± 3						
0.075	± 1.0	± 1.0	± 1.0	± 1.0						

<sup>1.</sup> If post compaction grading is checked by binder extraction and sieve analysis after placement, the positive tolerances shall be increased by one percentage point.

### Table 2: RAP grading tolerances (Table 407.131 in DoT Section 407)

Description	Tolerance (from target grading)	Allowable number of results outside of tolerance
Passing 26.5 mm sieve and larger	± 10	1 out of 5 consecutive results
Passing 4.75 mm to 19.0 mm sieve	± 8	1 out of 5 consecutive results
Passing 1.18 mm and 2.36 mm	± 6	1 out of 5 consecutive results
Passing 0.300 mm and 0.600 mm	± 5	1 out of 5 consecutive results
Passing 0.150 mm	± 3	1 out of 5 consecutive results
Passing 0.075 mm	± 2	1 out of 10 consecutive results