

Asphalt Plant - Daily Report of Quality Control

Date Page No. of

Fin. Project ID:	Material No.:	Sample No.:	Date Smpl.:
Sta. From:	Sta. To:	Reference Line: NA	Source: 05 Plant No.: Quantity:
Intended use:	Inspec ID (TIN):	Date Recd.:	Date Tested:
Tested by Code:	Status:	Tester ID (TIN):	Type of Mix: Mix Design No.:

See Asphalt Roadway - Daily Report(s) of Quality Control for Pay-Item Information

General Information

Temperature °F / °C		Quantity	This Material Tons	This Lot Tons	Rotational Viscosity for Asphalt Rubber Binder			
Established		Previous			Blend Type Check one MATL. #453B	Asphalt Rubber Grade		
Average		Todays				Site	Test Temp.	°F/°C
Maximum		Total			MATL. #452B Storage	Minimum Viscosity	AM	PM
Minimum		Waste					poises Pa.s.	poises Pa.s.
Average of 1st 5		Adj. Total						

Plant Volumetrics

Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	Volumetrics	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB
1" (25.0mm)					Gmm				
3/4" (19.0mm)					Avg. Bulk (Gmb)				
1/2" (12.5mm)					Hgt. @ N int.				
3/8" (9.5mm)					Hgt @ N des.				
#4 (4.75mm)					Gyrations @ N des.				
#8 (2.36mm)					% Gmm @ N int.				
#16 (1.18mm)					% Gmm @ N des.				
#30 (600 μm)					% Air Voids @ Nd				
#50 (300 μm)					% VMA @ Nd				
#100 (150 μm)					% VFA @ Nd				
#200 (75μm)					Dust / Asphalt				
AC %									

Qualified Technician Signature

Roadway Cores	Roadway Core 1			
	Roadway Core 2			
	Roadway Core 3			
	Roadway Core 4			
	Roadway Core 5			
	Average Gmb			
	% Gmm			

Remarks:

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Fin. Project ID: 3	Material No.: 4	Sample No.: 5	Date Smpl: 6
Sta. From: 7	Sta. To: 8	Reference Line: NA	Source: 05 Plant No.: 9 Quantity: 10
Intended use: 11	Inspec ID (TIN): 12	Date Recd: 13	Date Tested: 14
Tested by Code: 15	Status: 16	Tester ID (TIN): 17	Type of Mix: 18 Mix Design No.: 19

See Asphalt Roadway - Daily Report(s) of Quality Control for Pay-Item Information

General Information

Temperature °F / °C		Quantity	This Material Tons	This Lot Tons	Blend Type Check one	Rotational Viscosity for Asphalt Rubber Binder			
Established	20	Previous	25	30		MATL. #453B	Asphalt Rubber Grade		37
Average	21	Todays	26	31	Site 35		Test Temp. 38	°F/°C	°F/°C
Maximum	22	Total	27	32	MATL. #452B	Minimum Viscosity	39	AM	PM
Minimum	23	Waste	28	33			Storage 36	40	poises Pa.s.
Average of 1st 5	24	Adj. Total	29	34					

Plant Volumetrics

Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB 41	LOT/SUB	Volumetrics	Mix Design Targets	LOT/SUB	LOT/SUB 41	LOT/SUB
1" (25.0mm)	42		43		Gmm	42		44	
3/4" (19.0mm)			↓		Avg. Bulk (Gmb)			↓	
1/2" (12.5mm)					Hgt. @ N int.				
3/8" (9.5mm)					Hgt @ N des.				
#4 (4.75mm)					Gyrations				
#8 (2.36mm)					% Gmm @ N int.				
#16 (1.18mm)					% Gmm @ N des.				
#30 (600 μm)					% Air Voids @ Nd				
#50 (300 μm)					% VMA @ Nd				
#100 (150 μm)					% VFA @ Nd				
#200 (75μm)					Dust / Asphalt				
AC %									

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Qualified Technician Signature

Roadway Cores	Roadway Core 1		45	
	Roadway Core 2		↓	
	Roadway Core 3			
	Roadway Core 4			
	Roadway Core 5			
	Average Gmb			
	% Gmm			

Remarks: **47**

**INSTRUCTIONS FOR COMPLETION OF
ASPHALT PLANT DAILY REPORT OF QUALITY CONTROL**

No erasures accepted, strikeout mistakes only

CQR INFORMATION SECTION

- 1** **Date** - Indicate the date this report was generated.
- 2** **Page Number** - Indicate the page number of this report.
- 3** **Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 4** **Material No.** - A four-character code obtained from the JOB GUIDE SCHEDULE that identifies each material / test. Material numbers for extraction tests on various types of mixes are as follows:

FC - 123A	Type SP - 123A
B 12.5 - 123A	MISC. - 143A

- 5** **Sample No.** - Each report generated will have one sample number per day, per mix (e.g., P2001Q for a QC sample, P2001V for a Verification sample and P2001I for an Independent Verification / Assurance). A new sample number and report will also be required at the beginning of each LOT, per mix. For a project with two or more plants producing asphalt, a new lot must be established a new report must be written for mix produced at another plant.

NOTE: Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and use. Sample numbers should be kept sequentially despite changes in an approved mix design or pay-item. Once a sample number is used for a material number on a project that number cannot be reused. A suggested numbering sequence is as follows:

EXAMPLES	OF	SAMPLE	NUMBERS
Type of Mix			Correct Numbering Sequences
B 12.5			B2001, B2002, B2003, <-> B2999
FC-5			F5001, F5002, F5003, <-> F5999
FC-6			F6001, F6002, F6003, <-> F6999
FC-9.5			F1001, F1002, F1003, <-> F1999
FC-12.5			F2001, F2002, F2003, <-> F2999
SP-9.5			P1001, P1002, P1003, <-> P1999
SP-12.5			P2001, P2002, P2003, <-> P2999
SP-19.0			P3001, P3002, P3003, <-> P3999
MISCELLANEOUS			M0001, M0002, M0003, <-> M0999

- 6** **Date Sampled** - Date sample was taken, if no sample was taken, date material was produced.
- 7** **Station From** - Enter the station from which this report began, this information must be obtained from the roadway inspector each day. This information is used in Pavement Design and Evaluation.
- 8** **Station To** - Enter the station at which this report ended, this information must be obtained from the roadway inspector each day. This information is used in Pavement Design and Evaluation.
- 9** **Plant No.** - Identification number assigned to each approved asphalt plant producing asphalt for the Department. This number should be on the asphalt concrete delivery ticket and can be verified by the District Bituminous Engineer.
- 10** **Quantity** - This represents the TOTAL Lot quantity (excluding waste) and should be filled in ONLY when the Lot is completed. Leave this item blank if the Lot is NOT completed.
- 11** **Intended use** - Indicate if mix is for Base, Structure, Friction Course etc.,.
- 12** **Inspector ID (TIN)** - Indicate TIN # of the technician who sampled the mix (First nine digits of Florida ID# / Drivers license number).
- 13** **Date Received** - Date sample was taken by the testing laboratory.
- 14** **Date Tested** - Date sample was tested.
- 15** **Tested By Code** - A two digit code used to identify which resident construction office tested the sample (e.g. 2G = Gainesville Construction).

- 16 **Status** - Record appropriate code based on table below:

Status Codes	
Code	Description
P	Passed (LOT completed with full pay)
F	Failed
FA	Partial Payment per Specification
FB	Partial payment per Engineering Decision
FC	Corrective action taken
FF	No Payment
FG	Remove and Replace
FN	Full payment per Engineering Decision
FX	No further action
UN	Untested (LOT is <u>NOT</u> completed)

- 17 **Tester ID** - The identification number of the qualified asphalt plant inspector who tests the sample. (First nine digits of Florida ID# / Drivers license).

- 18 **Type of Mix** - Indicate Asphalt mix type, e.g., FC-6, SP 12.5, B-12.5.

- 19 **Mix Design No.** - Example: SP 97-0008, SP 02-1750A.

Pay-Item Info - For personnel entering Data into the departments database locate the pay-item from the Asphalt Roadway - Daily Report(s) of Quality Control.

TEMPERATURE BOX

(CIRCLE APPLICABLE UNITS)

- 20 **Established** - Mix temperature established from the approved Mix Design.

- 21 **Average** - Average mix temperature for the date the mix was sampled.

- 22 **Maximum** - Maximum mix temperature for the date the mix was sampled.

- 23 **Minimum** - Minimum mix temperature for the date the mix was sampled.

- 24 **Average of First Five Loads** - Record the average temperature of the first five truckloads here. (Record the temperature of the first five loads and at least one load out of every five loads thereafter on the asphalt delivery tickets).

THIS MATERIAL TONS

- 25 **Previous Quantity** - Accumulated quantity of mix produced before this report, for this material number, in tons.

- 26 **Today's Quantity** - Quantity of mix shipped to project that is represented by this report, for this material number, in tons.

- 27 **Total Quantity** - Add items 26 and 27.

- 28 **Waste** - Record quantity amounts given to you from the road inspector that were NOT placed on the project. (I.e. private, MOT, rejection of poor quality, other).

- 29 **Adjusted Total** - Total adjusted quantity tonnage of mix. Subtract Item 29 from Item 28.

THIS LOT TONS*

**optional, it is intended to assist in tracking the progress of the lot and aid in random sampling within the lot.*

- 30 **Previous Quantity / Lot** - Quantity of mix placed before this report for THIS LOT, in Tons.

- 31 **Today's Quantity / Lot** - Quantity of mix that is shipped to project in this LOT that represented by this report, in tons.

- 32 **Total Quantity / Lot** - Add items 31 and 32.

- 33 **Waste / Lot** - Record quantity amounts given to you from the road inspector that were not placed on the project (I.e. private, MOT, rejected mix, other).

- 34 **Adjusted Total / Lot** - Total adjusted quantity of mix for THIS LOT. Subtract item 34 from item 33.

ROTATIONAL VISCOSITY BOX (ASPHALT RUBBER ONLY)

(CIRCLE APPLICABLE UNITS)

- 35/36 **Blend Type** - Place a check mark in the box for the type blend you are sampling. Note: this information needs to be reported under a separate CQR sample and test result screen under material number 453B or 452B. (The COPY command can be used for most sample data in CQR)

- 37 **Asphalt Rubber Grade** - Record the applicable type of Asphalt Rubber Grade, e.g., ARB-5, ARB-12, ARB-20, etc.

- 38/40 **Test Results** - Record the temperature, time of day when test was made, and poises or pascal seconds reading for each test. Circle applicable units. Note: Record additional test results in the remarks section.

PLANT VOLUMETRICS SECTION

- 41 Lot / Sublot** - Record appropriate Lot number and Sublot number on all reports (even if no test is run). Number the Lots sequentially according to material number, even if there is no change in the mix design. NOTE: DO NOT record extraction results from previous reports.
- 42 Mix Design Targets** - Record data from the Job Mix Formula (JMF) on the approved Mix Design.
- 43 Extraction Results** - List extraction gradation and AC content results in appropriate blanks for each subplot. Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

VOLUMETRICS

- 44 Volumetric Data** - List volumetric data in appropriate blanks for each subplot. Results from previous sublots should not be recorded again.

ROADWAY CORES

- 45 Roadway Core Gmb Data** - Record individual specific gravity results (Gmb) from the corresponding roadway core, and the average of the five. Round to the nearest three decimal places (Example: 2.5867 rounds to 2.587). Calculate the %Gmm to the nearest 0.01 as follows: Average Gmb / Gmm * 100 and report to the nearest 0.1, (Example: 91.98% is reported as 92.0%).

MISCELLANEOUS

- 46 Qualified Technician Signature** - To be signed by the Qualified Asphalt Plant Inspector.
- 47 Remarks** - Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet, e.g., 'Lot 6 closed due to lane change', 'baghouse caught fire'
- Breakdown of waste tonnage (#28): I.e.,
- | | |
|--|------------------------|
| | 50.2 Ton to MOT detour |
| | + <u>25.8 Waste</u> |
| | 76.0 Total |

NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the QC technician at the plant no later than two (2) days after completion of the current days production.