

Florida Department of

TRANSPORTATION



Instructions for Computer Coding Aggregate Test Data

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Chapter 1 Sample Creation

This document provides instructions on entering and submitting aggregate test results data into the Department's Materials Acceptance and Certification (MAC) System database.

A MAC user must have approved security access. Instructions for obtaining an Internet Subscriber Account are found at http://www.fdot.gov/materials/mac/access/macisa.pdf

- A. Logging in to MAC
 - 1. Sign In.

A user goes to MAC at <u>https://mac.fdot.gov/</u> and clicks Log In. Click this Icon when it appears.



2. Email and Password

Enter your email and password when prompted.

Login for Email - Internet Subscriber						
@	Email Address * Password * Password					
	Login					
	Change Password Forgot Password					

- B. Sample Data Entry and Submittal
 - 1. The Sample Life Cycle

The Sample Life Cycle beings in MAC with Logging in a new sample. Click on "Manage Samples" in the upper right of the screen. Operations in MAC will involve a dynamic series of new screens that open after certain fields are entered.

					Field Help ? is	On Help
Reports	STRG/JGS	Facilities	Evaluations	Manage Samples	Contractor QC Plan	My Access
		Click				

2. Log in a New Sample

Click on "Create Sample Login" screen appears. This is the first step to enter your specific sample data.

	Materials Acc	eptance	and Certifi
Create Sample Login	Submit Multiple Samples to FDOT	My Samples	Search
No Sample Selected	Click		
No Sample has been	selected. Please select one from the M	ly Samples List or	the Search Samples List.

3. Sample Category

When the next screen opens, the Sample Category box will be on "Project", to the left of the drop-down arrow. Click the arrow (Step 1) and when the dropdown box opens, select "Program" (Step 2). For ease of illustration, both steps are shown in the diagram. Also, for convenience, the open dropdown box is re-drawn for this instruction document, and shown in the middle of the screen. It will actually appear in the same location as the Sample Category box.

Create Sample Login	
Sample Category Project	
Contract/Project Type Contract Num Drop Down Project Number/Desc	Pay Items Type Pay Item Number/Description
Material/Specification Type Spec Id or Name	Select Program
Program Project Research	Step 2

- C. Entry Fields on Login Screen
 - 1. "Material/Specification".

After selecting "Program" a new selection box appears for "Material/Specification". The options match the material Sections in the Standard Specifications for Road and Bridge Construction (Specifications) The options available will be:

- 901 Coarse Aggregate
- 902 Fine aggregate
- 911 Base
- 530 Riprap (Revetment Systems)
- 204 Graded Aggregate Base

Type in the number the specification. The full MAC name appears below and you must click it to enter the field in the box. The following examples shows the choice for 901, Coarse aggregate

Create Sample Login	
Sample Category Program Material/Specification	
901 ×	
901 - Coarse Aggregate	
Click	

Click the new prompt when it appears.



2. Select "Sample Level"

Click inside the next screen to get the dropdown box and select the "Sample Level"



The dropdown options in alphabetical order are:

- IA Independent Assurance created by FDOT; also used in referee process
- IV Independent Verification
- PC Process Control
- QC Quality Control
- QCA Quality Control for approval to get Production Facility or Product approved
- QR Quality Control for Producer's portion of split Sample
- RT not used
- VT FDOT Verification
- VR Verification for FDOT's portion of split Sample
- VTA Verification for FDOT to approve Production Facility or Product
- 3. Product Categories

A new dropdown box appears to select the "Category". The star to the right indicates that this is a mandatory field. Categories are the product codes. The product codes will match those available in the "Material/Specification" previously selected. Click to select a Category.

Create Sample Login		
 MAC Spec 902 - Fine Aggregate, Program [Aggregate Contr 	ol Program], v1.6	
Att Return to Material Selection Screen		
Sample Info		
5, Method of Acceptance Sample Level C Sampling And Testing QC	F01	*
Click to select F01	F03 F04 F05 F06	_
	F07 F08	
	Asphalt Screenings / F20 Asphalt Screenings / F21 Asphalt Screenings / F22	
	Asphalt Screenings / F23 Asphalt Screenings / F24 Asphalt Screenings / F24	
	Asphalt Screenings / F25 Asphalt Screenings / F26 Asphalt Screenings / F27	
	Nothing	

Category/Code	Fine Aggregate Description
F01	Silica Sand #1 (Concrete)
F02	Silica Sand #2 Concrete
F03	Screenings #1 (Concrete)
F04	Screenings #2 (Concrete)
F05	Masonry Sand
F06	Sand (Sand Cement Rip-Rap)
F07	Concrete Pipe Plant Sand
F08	Underdrain Filter
F09	Screenings Research
F10	Silica Sand For FC-4
F20	Screenings #1 (Asphalt)
F21	Screenings #2 (Asphalt)
F22	Screenings #3 (Asphalt)
F23	Screenings #4 (Asphalt)
F24	Screenings #5 (Asphalt)
F25	Screenings #6 (Asphalt)
F26	Screenings #7 (Asphalt)
F27	Screenings #8 (Asphalt)
F28	Screenings #9 (Asphalt)
F29	Screenings #10 (Asphalt)

Fine Aggregate Material Category and Code Description

Category/Code	Coarse Aggregate Description		
C01	ASTM* or FL Grade #1		
C02	ASTM or FL Grade #2		
C03	ASTM or FL Grade #24		
C04	ASTM or FL Grade #3		
C05	ASTM or FL Grade #357		
C06	ASTM or FL Grade #4		
C07	ASTM or FL Grade #467		
C08	ASTM or FL Grade #5		
C09	ASTM or FL Grade #56		
C10	ASTM or FL Grade #57		
C11	ASTM or FL Grade #6		
C12	ASTM or FL Grade #67		
C13	ASTM or FL Grade #68		
C14	ASTM or FL Grade #7		
C15	ASTM or FL Grade #78		
C16	ASTM or FL Grade #8		
C17	ASTM or FL Grade #89		
C18	ASTM or FL Grade #9		
C19	ASTM or FL Grade #10		

Coarse Aggregate Material Category and Code Description

Note: * = American Standard for Testing and Materials

Coarse Aggregate Material Category and Code Description

Category/Code	Coarse Aggregate Description		
C30	Bedding Stone		
C31	Concrete Pipe Stone #1		
C32	Bank and Shore Riprap		
C33	Ditch Bank lining		
C34	Gabion Basket Stone		
C35	Concrete Pipe Stone #2		
C36	Concrete Pipe Stone #3		
C40	S1A* (Asphalt)		
C41	S1A (Asphalt)		
C42	S1A (Asphalt)		
C43	S1A (Asphalt)		
C44	S1A (Asphalt)		
C45	S1A (Asphalt)		
C46	S1A (Asphalt)		
C47	S1A (Asphalt)		
C48	S1A (Asphalt)		
C49	S1A (Asphalt)		
C50	S1B (Asphalt)		
C51	S1B (Asphalt)		
C52	S1B (Asphalt)		
C53	S1B (Asphalt)		
C54	S1B (Asphalt)		
C55	S1B (Asphalt)		
C56	S1B (Asphalt)		
C57	S1B (Asphalt)		
C58	S1B (Asphalt)		
C59	S1B10 (Asphalt)		
CL10	Lightweight Concrete Aggregate #57		
CL12	Lightweight Concrete Aggregate #67		
CL17	Lightweight Concrete Aggregate #89		
CR06	#4 Recycled Concrete		
CR10	#57 Recycled Concrete		
C60	#4A AREMA** Ballast		
C61	#5 AREMA Ballast		
C62	AREMA Sub Ballast		

Note: * = S = Structural, A and B are sizes, where A is larger than B

** = American Railway Engineering and Maintenance-of-Way Association

Base Aggregate	Material	Category	and	Code	Description
----------------	----------	----------	-----	------	-------------

Category/Code	Base Aggregate Description
B01	Limerock
B02	Bank Run Shell
B03	Cemented Coquina
B04	Limerock Stabilized Base
B05	Shell Stabilized Base
B06	Limerock Stabilizer
B07	Shell Stabilizer
B08	Dredged Shell
B09	Soil Cement
B10	Graded Aggregate Base
B11	Shellrock
B12	Recycled Concrete Aggregate
B14	Calcarenite

4. Select Mine or Terminal

The screen expands with new fields to be selected. The green highlight has been added to this document and only the text appears on the screen. This will be explained further.

ate Sample Login				
IAC Spec 902 - Fine Aggregate, Program [Aggreg	ate Control Program], v1.	6		
← Return to Material Selection Screen				
Sample Info				
Method of Acceptance Sample L Sampling And Testing QC	evel Category F01	×	Aggregate Production Facility Type Production Facility Name	*
Product Please select a Production Facility t	to get a list of eligible Proc	ducts		
Sampled By Tech	Date Sample 1	laken 🛛		
Type Technician Name or TIN	*	*		
FDOT Sample Number				
Point Of Sampling				
Sample Type				

5. Aggregate Production Facility

Type in the Production Facility's code number here. MAC has a feature that is called the "Type Ahead Option". Once you have typed three characters, a list of all codes that start with these characters appear. You can click on the list to select a Facility as a short cut. This action populates the field. You can type the full five-figure alphanumeric code and the facility will appear below the box. Another option is to type in the company name. You <u>must</u> either <u>click</u> on the text below the box, or press the <u>Enter key</u> or the field will <u>not</u> get filled in. For example, if the text appears below the box and you click in another field the Production Facility field remains empty.

6. Product

A "Product" is the unique identifier that includes the Category, Production Facility and Process. If the Product is at a Redistribution Terminal, both the Mine and Terminal name are included in the unique Product identifier.

If a Production Facility has only <u>one Process</u>, then when the "Aggregate Production Facility" is selected MAC automatically fills in the "Product" field. If there are more than one Process, the Product field turns blue and a drop-down bar appears.

Method of Acceptance	Sample Level	Category	Agg
Sampling And Testing		C10	8
Product			

Click on the arrow to reveal the different Processes, place the pointer over the choice, and click to enter that Product.

7. Sampled by Tech

Enter the "Technician Identification Number (TIN)". You can also use the type ahead feature with the TIN, or the technician's first or last name to select from the dropdown list.

8. Date Sample Taken

This is the date the sample was collected, placed in a container and labeled. It is not a future date if the sample is not delivered to the lab on the same day. When the date sampled is the day that a sample is being logged in, press the Enter key to select "today's" date as a shortcut.

9. FDOT Sample Number

The "FDOT Sample number" is a six-digit numerical identifier in the format YYWW##.

- YY represents the last two digits of the year, for example 19 for 2019.
- WW represents the week number for the year. Weeks 1 to 9 are entered with a zero (0) in front so that that the week number always has two digits.
 - $\circ~$ Week one starts when January 1 falls on a Wednesday or earlier.
 - In a week when January 1 falls on a Thursday or later, that week becomes week 53.
- ## represents the number of samples taken on a unique product each week in the order they were taken. Samples 1 to 9 are entered with a zero (0) in front so that that the sample number always has two digits. For example, two samples taken on a Monday for a Code 10, Process 1, will be 01 and 02.
 - Sample numbers are <u>not unique</u>. The first samples at a Production Facility for C10, F21 and B01 will all be "01" (following the year and week)
 - Do not skip a sample number. The first samples for C10 and F21 should not be "01" and "02". In this case, sample number "01" was skipped for F21
 - Sample numbers should not be repeated in the same week. For example, Sample "11" comes after "10"

10. Point of Sampling



This is a drop-down box with the choices:

11. Sample Type

This field allows the user to further identify the purpose or location of the sample. A Production Facility can take a QC sample at the Point-of-Use Plant. However, the results are not part of the compliance package.

12. Testing Lab

This is the official lab number assigned to your Lab upon FDOT approval

13. Location

This an optional field. You may type anything you want. For example, "Sampled from west end of Stockpile #3".

14. Comment

This an optional field. You may type anything you want. For example, "FDOT Inspector was on site at time of sampling"

15. Document

This is an optional feature used to upload any document you want. For example, scanned written notes, electronic file or pictures.

16. Save, Save and Submit

These are two separate options. "**Save**" allows the user to complete the sample login, and then log in another sample if desired. Once all samples have been logged and Saved, it also allows the user to return to make changes to the <u>mandatory</u> Sample Information, and optional information. The Material Information cannot be changed. There is no need to change the Material Specification, because MAC would not allow the user to enter a Category that did not match the MAC Spec. Sample Level cannot be changed. Click the "Update Sample Info" link to the far right of the screen to perform this task.

- Save creates a unique Sample MAC ID, in this case, 18003599994, which is made up of 10 numeric characters. The first two characters are the last two digits of the year.
- The Sample Status is "Logged". Note that some MAC information can be found in more than one location, e.g. MAC ID and Sample Status. In the

sample's life-cycle, the Production Facility is still in control of the data, i.e., the owner of the sample data.

- Save creates a summary page of subsequent actions for the user. These actions will be discussed later.
- Because the "Save and Submit" option was <u>not</u> used, there is still a link to "Submit Sample for Testing". This is required to enter data for test results. Either "Save and Submit" or "Submit Sample for Testing", immediately sends the sample's log-in information to the lab to begin the Sample Test Cycle. This completes the Sample Login process.



 Any of the grey bars can be clicked, in any location to reveal the information that is currently hidden. Clicking the bar again, collapses the bar and hides the information from view.

		ate		plance	and
Create Sample Logi	in Submit N	/ultiple	Samples to FDOT	My Samples	Search
Sample 1800359994	[Logged]				
		Submit	Sample for Testing	Create New S	ample Login
Sample ID 1800359994	Sample Status Logged	Exclue No	de From Running Thirty		
Sample Initiated By John Shoucair	Sample Initiate 11/19/2018	ed Date 8	Last Updated By John Shoucair	Last Updated On 11/19/2018	
Material Informat	tion				
Sample Informat	ion				
Laboratory Inform	nation				
Location Informa	ition				
Sample Commen	nts [0]				
Documents [0]					
Associated Tests	5 [4]				

			Click bar anywhere to reveal informa	ation Update Sample Info
Company State Materials Office				_ /
lethod of Acceptance	Sample Level	Category	Aggregate Production Facility	Product
Sampling And Testing	QC	C10		901: C10 - #57 Stone - Process
Sampled By Tech Date Sar 11/19 EDOT Sample Number 184701	nple Taken /2018			
Point Of Sampling				

Chapter 2 Perform Tests Submitted

At this point the Material Information and Sample Information requirements are complete. The following steps are required to perform tests. These directions are for a single sample. A discussion of multiple samples will be presented later.

A. Laboratory Information

1. Sample Submitted

When the sample is submitted the Sample Status changes to "Submitted for Lab Testing"

Create Sample Log	jin Submit Multiple Samples to
Sample 180035999	4 [Submitted for Lab Testing]
Sample ID	Sample Status
1800359994	Submitted for Lab Testing

2. Laboratory Actions

The sample is now in the possession of the lab. Click on the "Laboratory Information" bar. Note that the Lab Status is "Waiting on Receipt". For Aggregates,

the only step needed is to click on the link "Acknowledge Sample Receipt"

_							
	Laboratory Information						
LE.							
	Lab	Reason for Routing	Status	Туре	Date Sample Received	Comment	
	DSM001 - State Materials Office	Initial Routing	Waiting on	Full			Acknowledge Sample Receipt
	DSM001 - State Materials Office	Initial Routing	Waiting on Receipt	Full			Acknowledge Sample Receipt
	DSM001 - State Materials Office	Initial Routing	Waiting on Receipt	Full			Acknowledge Sample Receipt
	DSM001 - State Materials Office	Initial Routing	Waiting on Receipt	Full			Acknowledge Sample Receipt

3. Date Received

A new screen opens and the "Date Received" is a required entry. The "Comment" is optional.

Acknowledge Sample Receipt		×
Date Received		
Comment		
		^
		\sim
	Save	

Click in the Date field. This is the date the sample is received in the Lab.

Dat	te Reco	eived		*			
C	Prev	/ N	lover	nber 2	2018	N	lext
	Su	Мо	Tu	We	Th	Fr	Sa
					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	

Either click a date on the calendar, or press the "Enter" key to select today's date.

4. Laboratory Receipt

After clicking "Save", the Laboratory status is "Received". The Sample Status is still "Submitted for Lab Testing". Note that if an error was made, it can be corrected by clicking on the link "Update Received Date"



B. Performing Tests

Optional

1. Associated Tests (the instructions will discuss the numbered links below) Each MAC Product has "Associated Tests" that are the normal lab tests. These are default tests and can be found by clicking the bottom bar of the screen.

Associated Tests [4]	Click to Expand

In the example below, four Lab tests for Coarse Aggregate are listed. The Test Status is "Ready for Testing". Note that the test result entry can be started by clicking the "Perform Test" link for one test at a time, or for all by clicking the link "Perform Multiple Tests".

For these instructions, this figure shows the left side of the screen and the next figure shows the right side of the screen. This helps to make the display more readable.

Associated Tests [4]				
	Lab or Field Lab	ID Tester	Test Disposition	Test Status
AASHTO T 27 Aggregate Grad	ation			
1 Initial Test	Lab			Ready for Tes
FM 1-T 011 Total Minus 200				
Initial Test	Lab			Ready for Tes
FM 1-T 085 Coarse Aggregate	Specific Gravity			
Initial Test	Lab			Ready for Tes
FM 1-T 096 LA Abrasion				
Initial Test				
initiai i est	Lab			Click to Collapse
Required Which test	Lab Rules?	2 Perform N	fultiple Tests	Click to Collapse
Required Which test	Lab Rules?	2 Perform M	fultiple Tests	Click to Collapse
Required Which test Optional	Lab Rules? Perform Test	2 Perform M 4 Mark Test Not Perfor	fultiple Tests 6 med Remov	Click to Collapse
Required Which test Optional Optional	Lab Rules? Perform Test Perform Test	Perform M A Mark Test Not Perfor	fultiple Tests 5 med Remov med Remov	Click to Collapse

Perform Test

Mark Test Not Performed

Remove Test

2. Selecting Tests

Note that there are several features with MAC links for entering data. test result entry can be started by clicking the "Perform Test" link for one test at a time, or:

Test result entry can be started for a single Test by clicking **1** "Perform Test".

Test result entry can be started for all Tests by clicking ⁽²⁾ "Perform Multiple Tests".

If a Test needs to be performed, but was not one of the default tests it can be added

by click ³ "Add Test". You can use the type-ahead feature and you <u>must</u> click on the Test name once you recognize it in the drop-down list. See the next figure. If the press the Enter key but do not click the test name, the field remains blank. Another option is to type the entire Test name and the click on the Test name. Another option is to type any <u>portion</u> of the Test name, in any order inside the name, and click on the correct Test once you recognize it in the drop-down list.

1	Test		
Se	lect Test to Add		
	AASHTO T 1	×	*
Ĩ	AASHTO T 100 Specific Gravity of	f Soils	
	AASHTO T 104 Sodium Soundnes	ss	
	AASHTO T 110 Moisture or Volatil HMA	le Distillates in	
	AASHTO T 113 Coal and Lignite		
	AASHTO T 176 Sand Equivalent		
	AASHTO T 19 Bulk Density of Age	regate	

Add	l Test			×
	Select Test to Add	×	*	
	AASHTO T 104 Sodium Soundness			

Add	Test		×
- Se	elect Test to Add Soun	×	*
	AASHTO T 104 Sodium Soundness		_

Note that MAC loads common default Aggregate Tests with an Optional description. This does not mean that a lab can ignore <u>required</u> Tests. However, if a L.A. Abrasion Test is not required, the user can submit the sample results for Aggregate Gradation, Total Minus 200, and Specific Gravity, without a need to remove the L.A. Abrasion Test. If there is a specific reason why the Test <u>cannot</u> be performed click

"Mark Test Not Performed" and document the circumstance.

Mark Test Not Performed

 Reason Test Not Performed

 Equipment Issues

 Te

 Insufficient Sample Size

 No Density Required

 No Technician Available to Perform Test

 Sample Condition

 Sample Lost

 Sample Not Received

If the user would like to remove a test, click the link ⁵ "Remove Test". No Reason is required. This feature can be used to clarify the list of needed tests for the Laboratory Technician.

3. Begin Test Entry

4

When the link "Perform Test" is clicked, a worksheet opens with all required entries for the test method. MAC has added features to simplify data entry, which will be discussed later. You can also click Perform Multiple Tests" which will open the worksheets for all test to be visible. A user with a Data Entry or Data Reviewer role is required. The following example is shown for FM 1-T 011

Perform Test		×
Test FM 1-T 011 Total Minus 200 Tester Testing Lab Turno Tochnician Name or TIN	Date Test Performed	
Is this combined FM 1-T 011 and AASHTO T 27 Test?		
Total Percent of Minus 200 (%) Test Notes + Save		

All fields should be entered as directed by the test method. The MAC screen allows an option to simplify data entry. Select Yes or No for "Is this combined FM 1-T 011 and AASHTO T 27 Test?" Select Yes if a single sample is used to run both tests. This will add fields to the screes for FM 1-T 011 and auto populate fields in AASHTO T 27 Aggregate Gradation. <u>Always enter the FM 1-T 011 test data first.</u>

4. Errors/Warnings

MAC flags some data entry as ERRORS or WARNINGS. For example, the minimum start mass for a C10 in FM 1-T 011 is 5,000 g. If you enter anything less MAC flags an ERROR in red type. In this case, more aggregate must be properly split out, and added to the test sample, or a new sample collected.

Is this combined FM 1-T 011 and AASHTO T 27 Test?	No V
Mass Before Wash (g)	2,300.0
	ERROR: Sample Mass is less than Minimum Required Sample Mass

If a typo is made, for example, entering a "Mass After Wash" that is larger than "Mass Before Wash", MAC flags a Warning

Mass Before Wash (g)	5,126.0	
Mass After Wash (g)	5,187.0	
	Warning: Mass After Wash cannot be greater than Mass Before Wash. Please update the Mass	
	Wash Value.	
Mass Loss After Wash (g)	-61.0	

In this case, Warning reminds you that the correct value can be re-entered.

5. Save

A test can be saved <u>at any point</u> by clicking the "Save" button. If all the required fields are not entered, "Save" creates a Test **Status** of "Testing in Progress". When all are completed, "Save" creates a Test **Disposition** on the "Associated Tests" screen of Pass or Fail. The Test Status becomes "Test Complete". <u>Note the difference between "Status" and "Disposition"</u>. "Disposition" implies that the testing is completed.

6. Test Disposition

As noted above, a Test Disposition can be Pass or Fail. The lab's Data reviewer should ensure that all tests were performed correctly. All tests, whether passing or failing must be submitted to FDOT.

7. Specification failure

Specification failures are programmed in the MAC Test and will flag when the data is entered.

Mass Loss After Wash (g)	116.0	
Mass in Pan (g)	2.0	
Total Percent of Minus 200 (%)	2.30	Does not meet target/limit [Total Percent of Minus 200 <= 1.75]

8. General Errors

MAC is programmed with other flags as previously noted. These flags appear when values entered for Masses required by Test Methods, etc. or typos resulting in negative values are computed. A Star next to a field means that field is mandatory.

9. Submit to FDOT

When "Submit to FDOT" is selected, the Production Facility is no longer in control of the data, i.e., the owner of the sample data is now the FDOT. The Sample Lifecycle is now Finalized.

Create Sample Login	Submit Multiple Samples to FDOT	My Samples	Se		
Sample 1800371278 [Su	bmitted for Lab Testing]				
		Submit to FDOT			
Submit to FDOT					
By submitting this sample to FDOT it will no longer be updatable. Please ensure all tests have been completed and all information has been updated. Submit for FDOT Verification					
Create Sample Log Sample 180037127	in Submit Multip 8 [Finalized]				

10. Technical Help after Submittal

If any error occurs or if there are any questions, email "SM-Aggregates" for help.