

## Regional M&T Proctor Samples

This document outlines the procedure for creating samples of aggregate and borrow material coming to labs for proctor/density/moisture testing.

Note: For **aggregate base material** use the appropriate "Type/Grade" **903.05**, material code or **903.15.124- Agg Cement Agg Base (Gravel)**, or **903.15.125- Agg Cement Agg Base (Chert)**. Below is an example of what should be captured for a sample of base material from a quarry:

Basic Sample Data		Addtl Sample Data	Contract	Other	Tests
Smpl ID: <input type="text" value="jj015631810111354"/>		Status: Pending Authorization			
Revised By: <input type="text"/>	Revising: <input type="text"/>	Sample Date: <input type="text" value="01/24/18"/>			
Link To: <input type="text"/>	Link From: <input type="text"/>	Log Date: <input type="text" value="01/24/18"/>			
Smpl Type: <input type="text" value="Information Only"/>		Acpt Meth: <input type="text" value="Information Only"/>			
Material: <input type="text" value="903.05.069"/>	<input type="text" value="Type A, Grade D (Base Stone)"/>				
Sampler: <input type="text" value="jj01563"/>	<input type="text" value="Evans, Bobby"/>				
P/S: <input type="text" value="Delta Contracting - Jackson Aggregate"/>		<input type="text" value="45700004"/>			
Type: <input type="text" value="Producer"/>	City: <input type="text" value="Humboldt"/>				
Prod Nm: <input type="text"/>					
Mnfctr: <input type="text" value="Delta Contracting - Jackson Aggregate"/>		<input type="text" value="45700004"/>			
Town: <input type="text"/>		Geog Area: <input type="text" value="Region 4 - Madison"/>			
Intd Use: <input type="text" value="intd use"/>					
Repr Qty: <input type="text" value=".000"/>	<input type="text" value="Ton"/>	Lab Control Number: <input type="text" value="CNjj015631810111354"/>			
Auth By: <input type="text"/>	Auth Date: <input type="text" value="00/00/00"/>	Lab Reference Number: <input type="text" value="18S001"/>			
Lock Type: <input type="text"/>	Locked By: <input type="text" value="jj01563"/>	Lock Date: <input type="text" value="1/24/2018 11:15:36"/>			
HQ: <input checked="" type="checkbox"/>					

Data entered into the Intd Use and Lab Reference Number fields (above) and Dist from Grade, Station, and Offset fields (below) will populate data on the proctor report. (Last page has example of report with this sample's data).

Basic Sample Data		Addtl Sample Data	Contract	Other	Tests
Smpl ID: <input type="text" value="jj015631810111354"/>		Buy American: <input type="checkbox"/> Spaces			
Reqst By: <input type="text"/>	Witnessed By: <input type="text"/>				
Smpl Size: <input type="text"/>	<input type="text" value="Spaces"/>				
Dist from Grade: <input type="text" value="111"/>		<input type="text" value="Foot/Feet"/>			
Station: <input type="text" value="T2+34"/>	Offset: <input type="text" value="offset"/>		Reference: <input type="text"/>		
Smpld From: <input type="text"/>					

Contract samples of the same material with the same text in the "Sampled From" field, will appear together on one page of the report. Example below:

Material: 203.02.002 - Borrow (Unclassified)	Contract ID: CNP922
Producer/Supplier:	Sampled From: Batson Farm, Crestview School Rd.

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Gradation - Total Percent Passing

Sample ID	jj01349162M143950	jj0134915BN145125	
Date Reported	3/1/2016	12/16/2015	

Basic Sample Data	Addl Sample Data	Contract	Other	Tests
Sample: <input type="text" value="jj015631810111354"/>				
Type	ID	Description		
Destination Lab	TDOT457000	DEST - TDOT Region 4		
Destination Lab	TDOT698000	DEST - TDOT Contractor Lab		

**NOTE:** If the person creating the sample plans to run the T27 gradation test at the “contractor” lab, and T89/90 & T99 tests in the Regional M&T main lab; they should add both destination labs to the sample. If tests T27, T88, or T88A will be performed in the M&T Lab, do not add the 2<sup>nd</sup> destination lab “Contractor Lab”.

Also, if this is a quarry sample and the material will be available for use on any contract; do not specify a specific contract. If you do, that contract will be listed on the proctor report. Users can generate the report by just selecting the material and P/S.

Assign Sample Tests

Sample ID:  Sample Type:  Material Code:

Assigning tests to the sample will lock the sample

Additional Available Tests		Tests to be Assigned				
Test Description	Lab Unit	Default Test	Test Rqd	Auto-Finalize	Test Runs	Test Description
T104 - Soundness of Aggr (Sodium Sulfate or Magnesium)	TDOT457001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T27 - Sieve Analysis of Fine and Coars
T11 - Materials Finer Than 75-µm Sieve in Min Aggr by Wt	TDOT698001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T255 - Total Evaporable Moisture of Ag
T11 - Materials Finer Than 75-µm Sieve in Min Aggr by Wt	TDOT457001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T89/90 - Determining Liquid Limit and P
T166 - Bulk, Spec Grav, Stblty and Flow (T166, T275, T331)	TDOT457001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T99 - Moisture-Density Relations of Soi
T166 - Bulk, Spec Grav, Stblty and Flow (T166, T275, T331)	TDOT698001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T255 - Total Evaporable Moisture of Aggregate by Drying	TDOT698001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T265 - Laboratory Determination of Moisture Content of So	TDOT457001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T27 - Sieve Analysis of Fine and Coarse Aggregates	TDOT457001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T27/30 - Sieve Analysis of Asphalt Mix	TDOT457001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T27/30 - Sieve Analysis of Asphalt Mix	TDOT698001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	
T85 - Specific Gravity and Absorption of Coarse Aggregate	TDOT457001	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	

Buttons: Add -> (highlighted), <- Remove

**NOTE:** When manually adding or removing tests, make sure you are selecting the correct lab unit to match the destination lab selected earlier.

For contract specific soil samples using material code 203.02.002 capture details indicated below in the sample record:

**Material:** Always use 203.02.002 for soil & codes listed above for base aggregate. The test results will determine what contract item material codes the material can be used for.

**Geog Area:** Select the Region and county the sample came from.

**Intd Use:** If it is a contract specific sample, list if it is for borrow, select borrow, or base material.

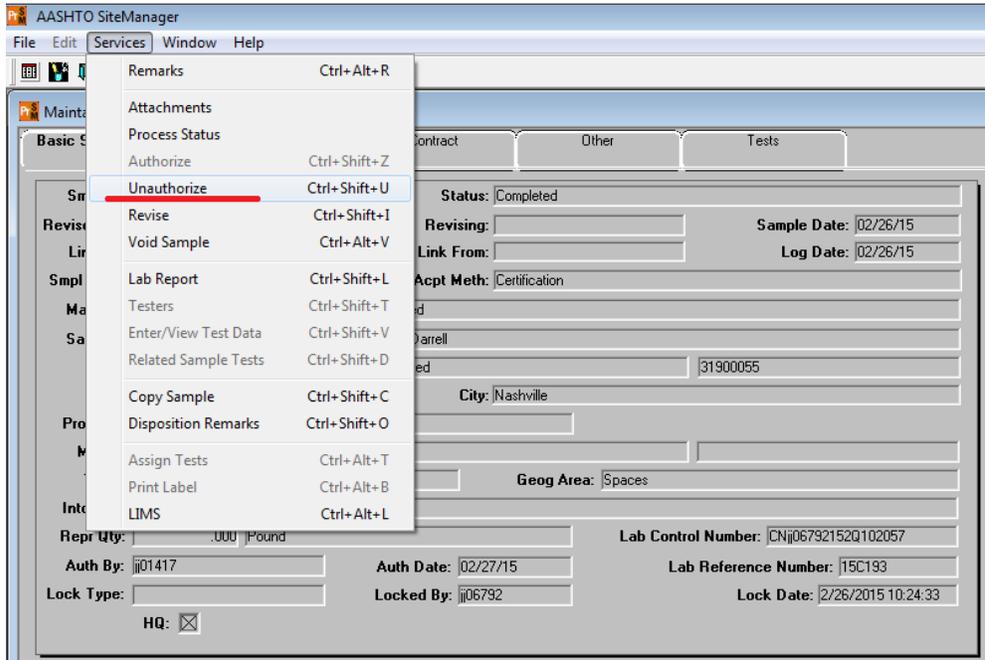
Enter enough data to tie down the location where the material was sampled from on the Addtl Sample Data tab.

Type	ID	Description
Destination Lab	TDOT233000	DEST - TDOT Region 2
Contract	CNA251	GRADE, DRAIN AND PAVING ON S.R. 32

**NOTE:** In order for the contract number to be available when running the proctor report, the contract must be entered on the “Other” tab.

**To add an additional contract to an existing sample follow the steps below:**

1. The user must first be logged in as a Lab Supervisor, Operations or M&T Office Staff, Operations or M&T Regional Support or Regional M&T Supervisor.
2. Open completed sample record in SiteManager.
3. Make note of the “Acceptance Method” (this field will be cleared when the sample is unauthorized)
4. From the services menu select “Unauthorize”

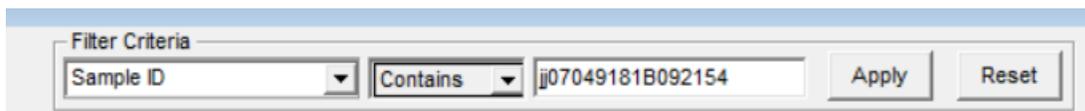


The sample now has a status of “Pending Authorization. An additional contract can now be added to the “Other” tab of the sample.



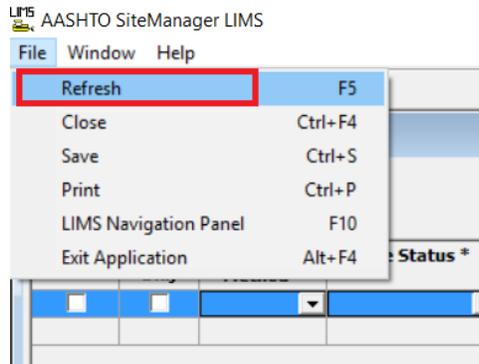
The next step will be to go to the “Review Samples” window of LIMS.

First set the filter to show just the sample you need to re-authorize using the criteria below:

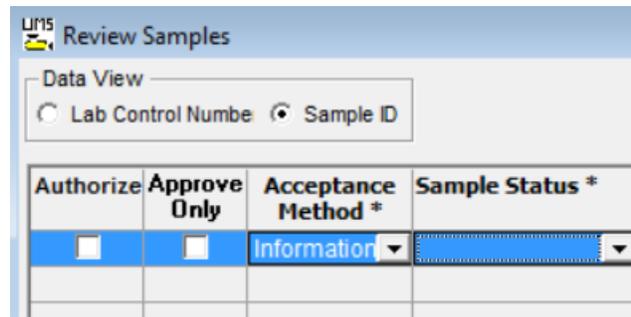


When you hit the “Apply” button, you should see the sample you are needing to work on.

NOTE: Sometimes you will then need to select “Refresh” from the “File” menu to get the checkbox and dropdowns to load:



Select Authorize, Acceptance Method (which was cleared in step 3 above) and the correct status.



5. Click save and the record is Authorized and this process is complete.

BOE rept RR019a- Contract Soil & Aggregate Proctor Report is available to all users needing to see proctor sample data. Example on next page

Print Date: 01/24/2018  
JJ01583STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
Contract Soil & Aggregate Proctor ReportParameters: Material Type: Type A Grade D Base  
Contract ID: All  
Producer/Supplier: Delta Contracting - Jackson AggregateMaterial: 903.05.069 - Type A, Grade D (Base Stone)  
Producer/Supplier: Delta Contracting - Jackson AggregateContract ID:  
Sampled From:

## Gradation - Total Percent Passing

Sample ID		jj01563181O111354
Date Reported		1/24/2018
Station/Offset		12+34 - offset
Distance From Grade		111
Intended Use	ft	intd use
2"	ft	0
1-1/2"	%	100.0
1"	%	93.0
3/4"	%	82.0
3/8"	%	65.0
#4	%	55.0
#10	%	0
#16	%	25.0
#40	%	0
#100	%	10.0
#200 (Silt and Clay)	%	0
Clay	%	0
Lab Serial Number		18S001

## Soil Constants

Lower Liquid Limit	%	0
Lower Plastic Limit	%	2
Plasticity Index	%	-2
Calculated Plasticity Index	%	-1
Type(Group)	%	type 1 gr 4

## Density Corrected for +4 Material

Proctor Density	lbs/ft <sup>3</sup>	123.4
Optimum Moisture	%	3.5
95% Density	%	119.9
Moisture Above Subgrade	%	2 to 6
Moisture Below Subgrade	%	