Laboratory Assessment Preparation List

General Assessment Guidance*: This document is intended to provide guidance for laboratories preparing for an AASHTO re:source On-Site Laboratory Assessment, specifically with regard to the preparation and availability of materials required for demonstration of the test method(s). Preparing for the assessment will improve the efficiency, productivity, and benefit of the assessment for the laboratory.*

This document does not address all of the apparatus and procedural requirements which may be evaluated during the assessment. Please consult the applicable AASHTO or ASTM standard for specific requirements. The laboratory may elect to demonstrate the AASHTO, ASTM, or both versions of the test method. The laboratory should be prepared to present required apparatus and to perform the test method in its entirety. Please contact us at (240) 436-4900 if your laboratory has additional questions with regard to preparing for the On-Site Assessment.

AASHTO	ASTM	Aggregate Assessment Preparation
R76	**C702**	Have a sample large enough for demonstration purposes.
R90	**D75**	A separate sample is not required. The assessor will evaluate sampling techniques used by the laboratory based on a discussion with appropriate personnel that regularly perform the test (such as a field technician).
T11	**C117**	Have a dry aggregate sample ready to be washed in accordance with the test method. Be prepared to discuss any sample preparation, demonstrate the washing procedure, and complete all calculations.
T19	**C29**	Have a dry aggregate sample ready to be tested. Be prepared to discuss any sample preparations steps and to demonstrate either the rodding or jigging procedure. Have volume determination records for the measure available for the assessor.
T21	**C40**	Have a dry sample ready to be tested, the required sodium hydroxide (NaOH) reagent, and the reference color standards available.
T27	**C136**	Have a coarse aggregate sample, a fine aggregate sample, or mixture of both, dried and ready to be tested. Be prepared to discuss the sample preparation and perform the sieve analysis of the prepared aggregate, and complete all calculations relating to the gradations. The assessor will check the sieving efficiency of all shakers for both coarse and fine aggregate, unless the laboratory only performs one or the other.
T37	**D546**	Have a mineral filler sample ready to be washed in accordance with the test method. Be prepared to discuss any sample preparation steps, demonstrate washing procedures, and complete all calculations.
T84	**C128**	Have a fine aggregate sample covered in water or at 6% moisture. Be prepared discuss any sample preparation up to the addition of water. Be prepared to demonstrate obtaining the saturated surface dry condition, complete the weighing procedures, and complete all calculations.
T85	**C127**	Have a coarse aggregate sample soaking in water. Be prepared discuss the sample preparation up to submersion in water. Be prepared to demonstrate obtaining the saturated surface dry condition, the weighing procedures, and complete all calculations.
T96	**C131**	Have a sample meeting the requirements of grading A, B, C, or D and ready for testing. Have available the data recorded during the preparation of the grading. Be prepared to demonstrate abrasion, washing, gradation analysis, and complete all calculations.
T100 (Mineral Filler)		Have a sample ready to demonstrate the procedure. Be prepared to provide appropriate calibration records and to perform the final calculations at the completion of testing. This specific designation is required if obtaining/maintaining accreditation for R35 (Superpave Volumetric Mix Design). Even if your lab performs T100 as part of Soils testing, your lab will need to sign up for T100 (Mineral Filler) as well.
T103		Have a coarse aggregate sample, a fine aggregate sample, a mixture of both, or ledge rock, washed and dried, ready to be tested. Freezing and thawing equipment should be at temperature as required and any solutions should be prepared and ready. Be prepared to demonstrate procedure A, B, or C and perform any calculations at the completion of testing. Have a report available for review.

AASHTO	ASTM	Aggregate Assessment Preparation (Continued)
T104	**C88**	Have both a coarse and fine sample graded and ready to be placed in the soundness solution and an additional sample that has been through one or more cycles. Be prepared to discuss any sample preparation up to grading. Be prepared to demonstrate a method of checking the specific gravity of the solution, one full cycle of testing, the final washing and drying procedures, the final sieving and gradation of the material, and complete all calculations.
T112	**C142**	Have a coarse aggregate sample, a fine aggregate sample, or a mixture of both in the soaking phase of the test. Have available the recorded mass of the sample soaking. Be prepared to demonstrate testing procedures and complete all calculations.
T113	**C123**	Have a coarse and fine aggregate sample prepared for testing. Adjust the heavy liquid to the proper specific gravity and be prepared to demonstrate the procedures on both coarse and fine aggregates and complete all calculations.
T176	**D2419**	Have a sample ready to demonstrate sample preparation, testing procedures, and calculations.
T210	**D3744**	Have a sample ready to demonstrate both methods A and B. Be prepared to demonstrate initial sample preparation, all testing procedures, and complete calculations after the test. Method C may be performed however, your lab would need to provide documentation indicating that Method C is requested by clients.
T255	**C566**	Have a sample containing moisture available for testing.
T304	**C1252**	Have a sample meeting the requirements of grading A, B, or C ready for testing. Be prepared to demonstrate sample preparation (after washing and drying where applicable), the uncompacted void procedure, and complete all calculations.
T327	**D6928**	Have a sample prepared at the appropriate weight according to Tables A, B, or C. Be prepared to demonstrate the test in its entirety and final calculations. Have available the grading information and related masses as indicated in Tables A, B, or C for the material being demonstrated. Be prepared to present calibration materials and the control charts as required for the reference aggregate. For more information on reference aggregate, please see the AASHTO Accreditation Policy and Guidance on Micro-Deval Reference Aggregate.
T330	**C837**	Have a dried sample previously prepared according to the standard and the reagents ready for demonstration. Be prepared to discuss the sample preparation steps up to obtaining the dry sample used for the demonstration and perform any calculations at the completion of the demonstration.
T335	**D5821**	Have a small sample containing example pieces that both pass and fail the requirements for demonstration purposes. Be prepared to discuss sample preparation and demonstrate the differences between fractured and non-fractured faces and complete all calculations at the end of testing.
	C535	Have a sample meeting the requirements of grading 1, 2, or 3 in the method prepared and ready for testing. Have available the data recorded during the preparation of the grading. Be prepared to demonstrate abrasion, washing, gradation analysis, and complete all calculations.
CRD-C 130-01		Scratch test – Have a coarse aggregate sample ready for testing.
	D4791	Have a small sample prepared which contains example pieces that both pass and fail the requirements for demonstration purposes. Be prepared to demonstrate the flat, elongated, and flat and elongated testing procedures, and complete all calculations at the end of testing.
	D7370	Have the appropriate amount of dry aggregate available for Method A (fine aggregate only) or Method B (coarse aggregate or a mixture of coarse and fine) to determine apparent bulk density and apparent density. Be prepared to perform any necessary calculations during or at the conclusion of testing. Be prepared to present calibration records for the equipment.
	D7428	Have a sample pre-washed in accordance with the test method. Be prepared to demonstrate sample preparation, the test in its entirety, and complete all necessary calculations. Be prepared to present calibration materials and the control charts as required, including those pertaining to the Standard Sutherland Micro-Deval Fine Reference Aggregate. If the MTO has changed the reference aggregate, the laboratory is required to show the documentation provided from the MTO and related control charts related to calibration using the MTO alternative. For more information, please see the AASHTO Accreditation Policy and Guidance on Micro-Deval Reference Aggregate.