

LABORATORY QUALIFICATION APPLICATION FORM

SAMPLING AND TESTING  
AND RELATED ACTIVITIES  
PERFORMED  
FOR WISDOT PROJECTS PLUS  
APPLICABLE REFERENCES

Please indicate those specific sampling and testing activities for which your laboratory is requesting qualification recognition and enclose the completed form with your application as indicated in the direction.

I. AGGREGATE

- A. Sampling ---- AASHTO T-2 as modified by WisDOT
- B. Moisture ----- T-255
- C. Permeability ---- WisDOT Test Method
- D. Fracture (coarse agg.) ---\*\*
- E. Sample Size Reducer ----- T-248
- F. Gradation of Aggregate ---- T-27
- G. Washed Aggregate Sample ---- T-11
- H. Flat and Elongated Particles (WisDOT Modified) ---- ASTM D4791
- I. Liquid Limit ----- T-89
- J. Plasticity Index ----- T-90
- K. Specific Gravity and Absorption of Fine Aggregate --- T-84
- L. Specific Gravity and Absorption of Coarse Aggregate --- T85

## II. AGGREGATE QUALITY TESTING

For a laboratory to be qualified to perform aggregate quality testing for the Department, they must be capable of performing the following test procedures.

- A. Fracture (WisDOT CMM 4-25-50)
- B. Liquid Limit (AASHTO T 89); using AASHTO T 146,  
Method A for prep of P-4
- C. Plasticity (AASHTO T 90); using AASHTO T 146,  
Method A for prep of P-4
- D. Coarse Aggregate Specific Gravity & Absorption (AASHTO T 85)
- E. Fine Aggregate Specific Gravity & Absorption (AASHTO T 84)

The laboratory must also meet at least one of the following requirements:

- The laboratory must be AASHTO Accredited in at least two of the three following test procedures:
  - a. LA Wear (AASHTO T 96); 100 & 500 revolutions
  - b. Sodium Sulfate Soundness (AASHTO T 104); R-4, 5 cycles
  - c. Freeze/Thaw Soundness (AASHTO T 103); R-4,  
16 cycles, Procedure B

Or;

- Participate in AMRL's Proficiency Sample Program for coarse aggregate, providing data for LA Wear (AASHTO T 96) and Sodium Sulfate Soundness (AASHTO T 104). A copy of AMRL's data report for the lab shall be submitted to the WisDOT Quality Management Laboratory for evaluation.

### III. ASPHALT MIX

- A. Mix Sampling For Asphaltic Mixtures--C&M and QMP Procedure Manuals
- B. Extractions --- WisDOT Test Method 1560
- C. Asphalt Mix Design ----- WisDOT Test Method 1559
- D. Bulk Specific Density ---- T-166
- E. Rice Specific Gravity ----- T-209
- F. Air Voids ----- T-269
- G. Gyratory Compaction ---- T-312

### IV. CONCRETE MIX

- A. Mix Sampling ----- T-141
- B. Compressive Strengths of Cylindrical Specimen ---- T-22
- C. Making and Curing Concrete Test Specimen in the field---- T23
- D. Making and Curing Concrete Test Specimen in the Laboratory---- R39
- E. Obtaining and Testing Drilled Cores and Sawed Beams of Concrete---- T24
- F. Air Meter calibration ----\*\*
- G. Air Content ----- T-152
- H. Aggregate Correction - WisDOT Modified(air) ----- T-152
- I. Slump ----- T-119
- J. Rapid Chloride Permeability Test ----- T-277
- K. Concrete Temperature ----- T-309

## V. SOILS

- A. Liquid Limit ---- T-89
- B. Plasticity Index ---- T-90
- C. Standard Proctor ----- T-99
- D. Sieve Analysis ----- T-88
- E. Field Moisture ----- T-93
- F. Dry Preparation of Disturbed Soil and Soil Aggregate Sampling of Test – T87
- G. Determining the Shrinkage Factor of Soils --- T-92
- H. Specific Gravity of Soils ---- T-100
- I. Modified Proctor ----- T-180
- J. Proctor Correction for Coarse Aggregate ----- T224
- K. Laboratory Determination of Moisture Content of Soils ---- T265
- L. Particle-size Analysis of Soils ---- ASTM D 422
- M. Amount of Material in Soils Finer Than the No. 200 Sieve --- ASTM D 1140

\*\*-- See WisDOT's "Standard Specification for Highway and Structure Construction" and "Construction & Materials Manual".