

SOURCE REVIEW AND PRODUCT COMPLIANCE TESTING FOR AGGREGATE

Source Review and Product Compliance testing of aggregate is separate from the Quality Control testing performed by the Contractor during aggregate production. These tests are used to evaluate the durability and soundness of the aggregate. In this section Source Review and Product Compliance are defined, the method of numbering sources is described and sampling frequency is outlined.

Source Number

ODOT Geo–Environmental Section assigns source identification numbers and monitors identified sources. For information see the following website:

www.oregon.gov/ODOT/GeoEnvironmental/Pages/Material-Source.aspx

Aggregate sources are identified by a three-part number. The first part indicates the county in which the source is located. The second part is the number of that source in the county. The third part is the ODOT region. For example: 22-001-2. The "22" is Linn County (22nd alphabetically), the "001" indicates that it is the first source identified in Linn County, and the "2" indicates that it is in Region 2.

SOURCE REVIEW

General

Source Review is the testing of unprocessed, uncrushed samples from an aggregate source for the purpose of evaluating the material in the source before it is processed. According to *Section 165.04* of the Standard Specifications a contractor may submit unprocessed aggregate from a maximum of two sources to the ODOT Central Laboratory for testing. This type of testing is optional and is only done at the Contractor's or supplier's request to assist in evaluating a source for possible use. The test results are for information only and cannot be used to meet Product Compliance test requirements.

Sampling

The Contractor or supplier's certified technician shall obtain five 50 lbs. samples of material. If possible, take each sample from a different area, or depth, of the source from which the Contractor or supplier intends to mine material. Samples shall come from areas that have enough raw materials to produce the quantities required by the project. The technician shall sample the material, properly bag and label it, see Section 4(C) "Laboratory Samples", fill out the Sample Data Sheet, form 734-4000; see Section 3, "Report Forms," for examples. Deliver the material to the Project Manager for review and submittal to the Central Materials Laboratory.

After aggregate production begins, the processed aggregate shall also be tested for product compliance.

PRODUCT COMPLIANCE

General

Once a Contractor or supplier establishes a crushing or screening operation the material produced is subject to testing according to the Project contract documents and Section 4(D) of the MFTP. The tests are used to determine compliance with soundness and durability specifications and can include Oregon degrade, abrasion, lightweight pieces, organics and plasticity index. Not all tests are performed on all aggregates. Refer to the specifications for the specific product.

Product Compliance testing used to determine compliance with the specifications must be performed by the ODOT Central Laboratory.

Sampling frequency is described below. Sample sizes are listed in Section 4(C) "Laboratory Samples". Product compliance testing is required for each aggregate product for each source used on a project.

Sampling

The Contractor or supplier's certified technician shall obtain two 50 lbs. samples of each aggregate product size for testing at the frequency listed below. The technician shall sample the material, properly bag and label it, see Section 4(C) "Laboratory Samples". Fill out the Sample Data Sheet form 734-4000; see Section 3, "Report Forms," for examples. Deliver the material to the Project Manager for review and submittal to the Central Materials Laboratory.

Sampling and Testing Frequency

AGGREGATE PRODUCTS - except Asphalt Aggregates: For aggregates which require product compliance testing, sample and submit for testing each separated size of aggregate produced at least once every 12 months. This includes but not limited to concrete aggregate, base aggregate, shoulder aggregate, and riprap aggregate.

ASPHALT AGGREGATE: For aggregate to be used in Asphalt Concrete Pavement, Emulsified Asphalt Concrete or Chip Seals, sample and submit each separated size of aggregate product to the PM for product compliance testing at the frequency shown in the Region tables located at the following website:

<https://www.oregon.gov/ODOT/Construction/Pages/Manual-of-Field-Test-Procedures.aspx>.

Sampling frequency varies from one sample per 5,000 Ton to one sample per 20,000 Ton each product produced.

Sources not listed in the tables shall be sampled and tested once per 5,000 Ton for each product produced. The ODOT Pavements Section will determine when the sampling frequency can be changed.