

PRODUCT COMPLIANCE TESTING FOR AC AGGREGATE

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 products. In this section, Product Compliance is defined, the sources numbering method is described, and sampling frequency is outlined.

A Contractor or supplier establishes a crushing 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 i.e. Oregon degrade, abrasion, lightweight pieces, organics and plasticity index, etc. Tests vary depending on the specifications for the specific aggregate product. The ODOT Central Materials Laboratory maintains a database of test results on samples from each source tested.

Product Compliance testing used to determine compliance with the specifications must be performed by the ODOT Central Materials Laboratory. Sampling frequency is described below. Product compliance testing is required for each aggregate product and product source used on a project.

Source Number

ODOT Geo-Environmental Section assigns source identification numbers and monitors identified sources. For information see 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 identifying number of that source in a county. The third part is the ODOT region at the time the source was established. 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.

Sampling

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 ODOT Central Lab for product compliance testing at the frequency shown in the Region tables below. Sampling frequency varies from one sample per 5,000 Ton to one sample per 20,000 Ton produced.

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 the sample, in accordance with Section 4(C) "Laboratory Samples" of the MFTP. Fill out form 734-4000, Sample Data Sheet, examples of this form may be seen in Section 3, "Report Forms" of the MFTP. Deliver the material and associated forms to the Project Manager for delivery to the Central Materials Laboratory.

Sources not listed in the tables shall be sampled and tested at the frequency of once per 5,000 Tons produced. When enough data has been collected to show that the source consistently meets specifications. The ODOT Pavement Section will determine if the sampling frequency can be changed.

AC aggregate products that are on the ODOT Approved Commercial Aggregate Product Program shall have a minimum sampling frequency of "annually" for ACP products. The stated frequency is meant for sampling AC aggregate products being produced and is not intended for materials that were produced, tested for compliance and stockpiled in a previous year.

A source's availability may change at any time. Other sources not listed in below tables may also be available.

REGION 1 AC AGGREGATE SOURCES TESTING FREQUENCIES

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ODOT REGION	SOURCE NUMBER	SOURCE NAME	TESTING FREQUENCY	TYPE OF SOURCE
1	OR-03-030-2	Canby Sand & Gravel	1-5,000 Ton	GRAVEL
1	OR-03-077-1	Plaster Quarry	1-10,000 Ton	QUARRY
1	OR-03-108-1	Canby Pit	1-5,000 Ton	GRAVEL
1	OR-05-004-1	Santosh	1-20,000 Ton	GRAVEL
1	OR-05-040-1	Reichold	1-20,000 Ton	GRAVEL
1	OR-26-102-1	Kalama River to Kelley Pt.	1-5,000 Ton	GRAVEL
1	OR-26-104-1	I-205 Br to Sandy River	1-5,000 Ton	GRAVEL
1	OR-34-080-1	Baker Rock	1-5,000 Ton	QUARRY
1	OR-34-089-2	Tonquin	1-5,000 Ton	QUARRY
1	OR-34-101-1	Hayden	1-10,000 Ton	QUARRY

REGION 2 AC AGGREGATE SOURCES TESTING FREQUENCIES

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ODOT REGION	SOURCE NUMBER	SOURCE NAME	TESTING FREQUENCY	TYPE OF SOURCE
2	OR-04-010-2	H.E. Johnson Quarry	1-10,000 Ton	QUARRY
2	OR-04-011-2	Elkhorn Quarry	1-5,000 Ton	QUARRY
2	OR-04-018-2	Young Falls Quarry	1-5,000 Ton	QUARRY
2	OR-04-028-2	Square Creek	1-20,000 Ton	QUARRY
2	OR-20-045-3	Eugene S & G	1-20,000 Ton	GRAVEL
2	OR-20-046-3	Delta S & G	1-20,000 Ton	GRAVEL
2	OR-20-048-3	Wildish S & G Plant 2	1-20,000 Ton	GRAVEL
2	OR-20-204-3	Oakridge Sand & Gravel	1-20,000 Ton	GRAVEL
2	OR 20-232-3	Egge V-Pit	1-5,000 Ton	GRAVEL
2	OR-21-002-2	Fischer Quarry	1-20,000 Ton	QUARRY
2	OR-22-001-2	Builders Supply	1-20,000 Ton	GRAVEL
2	OR-22-002-2	North Santiam S & G	1-20,000 Ton	GRAVEL
2	OR-22-006-2	Smith S & G	1- 20,000 Ton	GRAVEL
2	OR-24-023-2	Reed Pit	1-20,000 Ton	GRAVEL
2	OR-24-038-2	Windsor Rock Products	1-20,000 Ton	GRAVEL
2	OR-24-057-2	South Turner Pit	1-10,000 Ton	GRAVEL
2	OR-27-032-2	Walling S & G West Salem	1-20,000 Ton	GRAVEL
2	OR-29-009-2	Johnson Quarry	1-5,000 Ton	QUARRY
2	OR-29-040-2	Ogle Pit	1-5,000 Ton	QUARRY
2	OR-36-002-2	Youngblood Pit (Baker/Dayton)	1-20,000 Ton	GRAVEL

REGION 3 AC AGGREGATE SOURCES TESTING FREQUENCIES

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ODOT REGION	SOURCE NUMBER	SOURCE NAME	TESTING FREQUENCY	TYPE OF SOURCE
3	OR-08-070-3	Sullivan Quarry	1-10,000 Ton	QUARRY
3	OR-08-107-3	Knapp Gravel Deposit	1-5,000 Ton	GRAVEL
3	OR-08-108-3	Wahl Pit	1-5,000 Ton	GRAVEL
3	OR-08-116-3	CCRD Quarry	1-5,000 Ton	QUARRY
3	OR-10-001-3	Rattlesnake Quarry	1-5,000 Ton	QUARRY
3	OR-10-029-3	Round Prairie Bar	1-20,000 Ton	GRAVEL
3	OR-10-071-3	Umpqua Navigation	1-20,000 Ton	GRAVEL
3	OR-10-272-3	Hanna Nickel Stockpile	1-5,000 Ton	QUARRY
3	OR-10-283-3	Nickel Mountain Rock	1-5,000 Ton	QUARRY
3	OR-15-166-3	High Banks Pit	1-5,000 Ton	GRAVEL
3	OR-15-215-3	Kirtland	1-5,000 Ton	GRAVEL
3	OR-15-217-3	Advanced Aggregate	1-5,000 Ton	QUARRY
3	OR-15-218-3	Venable Pit	1-5,000 Ton	GRAVEL
3	OR-15-219-3	Boise Cascade Pit	1-5,000 Ton	QUARRY
3	OR-15-240-3	Newland Quarry	1-5,000 Ton	QUARRY
3	OR-17-074-3	Copeland Bar	1-5,000 Ton	GRAVEL
3	OR-17-102-3	Mahannah Pit	1-10,000 Ton	GRAVEL
3	OR-17-103-3	Boersma Bar	1-5,000 Ton	GRAVEL

REGION 4 AC AGGREGATE SOURCES TESTING FREQUENCIES

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ODOT REGION	SOURCE NUMBER	SOURCE NAME	TESTING FREQUENCY	TYPE OF SOURCE
4	OR-07-016-4	Sears Creek Quarry	1-5,000Ton	QUARRY
4	OR-07-030-4	Juniper Rock	1-10,000 Ton	QUARRY
4	OR-07-051-4	Lone Pine (Butler)	1-20,000 Ton	QUARRY
4	OR-07-058-4	High Desert Paving	1-20,000 Ton	QUARRY
4	OR-09-021-4	Finley Butte	1-10,000 Ton	QUARRY
4	OR-09-087-4	Cake Pit	1-20,000 Ton	QUARRY
4	OR-09-099-4	Gas Station Quarry	1-5,000 Ton	QUARRY
4	OR-11-034-4	Blaylock Canyon Quarry	1-5,000 Ton	QUARRY
4	OR-13-061-4	MP 86	1-5,000 Ton	QUARRY
4	OR-16-024-4	Madras Redi Mix	1-20,000 Ton	QUARRY
4	OR-16-032-4	Bissell Rock	1-10,000 Ton	QUARRY
4	OR-18-018-4	North Pit	1-20,000 Ton	QUARRY
4	OR-18-098-4	Flowers Quarry	1-20,000 Ton	QUARRY
4	OR-18-100-4	Black Rock	1-20,000 Ton	QUARRY
4	OR-18-105-4	Walker Pit	1-5,000 Ton	QUARRY
4	OR-18-108-4	Farmer S & G	1-10,000 Ton	GRAVEL
4	OR-18-110-4	Lyon Pit	1-10,000 Ton	GRAVEL
4	OR-18-123-4	3-Mile Pit	1-10,000 Ton	GRAVEL
4	OR-19-056-4	Leavitt	1-10,000 Ton	QUARRY
4	OR-19-098-4	Boomerang Ranch Pit	1-10,000 Ton	QUARRY
4	OR-33-001-4	Mosier Quarry	1-20,000 Ton	QUARRY
4	OR-33-077-4	Justensen	1-5,000 Ton	QUARRY
4	OR-33-079-4	Sun Rock (Munson)	1-5,000 Ton	QUARRY
4	OR-33-080-4	Dodge Quarry	1-5,000 Ton	QUARRY

REGION 5 AC AGGREGATE SOURCES TESTING FREQUENCIES

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ODOT REGION	SOURCE NUMBER	SOURCE NAME	TESTING FREQUENCY	TYPE OF SOURCE
5	OR-01-001-5	Pleasant Valley Quarry	1-20,000 Ton	QUARRY
	OR-01-051-5	Magpie Butte	1-10,000 Ton	QUARRY
	OR-01-055-5	Sackos Pit	1-10,000 Ton	QUARRY
5	OR-01-072-5	Harney Rock Pit	1-20,000 Ton	GRAVEL
	OR-12-041-5	Johns Quarry	1-5,000 Ton	QUARRY
	OR-12-045-5	Jolma Quarry	1-5,000 Ton	QUARRY
5	OR-12-061-5	King Ranch	1-5,000 Ton	QUARRY
5	OR-13-074-5	Burns Site(Harney Rock)	1-20,000 Ton	QUARRY
5	OR-13-059-5	Hotchiss Quarry	1-10,000 Ton	QUARRY
5	OR-13-009-5	Hebner Quarry	1-20,000 Ton	QUARRY
	OR-23-013-5	County Line (Kingsbury)	1-10,000 Ton	QUARRY
5	OR-23-038-5	Hwy 442 MP 74	1-5,000 Ton	QUARRY
5	OR-23-064-5	Sheaville	1-5,000 Ton	QUARRY
5	OR-23-097-5	Ontario Asphalt	1-20,000 Ton	GRAVEL
5	OR-23-134-5	Little Valley Ranch	1-20,000 Ton	GRAVEL
5	OR-25-019-5	Cason Canyon	1-10,000 Ton	QUARRY
5	OR-25-034-5	Coyote Springs	1-5,000 Ton	GRAVEL
5	OR-30-003-5	Diagonal Quarry	1-20,000 Ton	QUARRY
5	OR-30-015-5	Meacham Quarry	1-20,000 Ton	QUARRY
5	OR-30-066-5	Blue Mountain Asphalt	1-20,000 Ton	QUARRY
5	OR-30-068-5	Oscar Grubb	1-20,000 Ton	QUARRY
5	OR-30-090-5	Patawa Quarry	1-20,000 Ton	QUARRY
5	OR-30-092-5	Hatley Quarry	1-5,000 Ton	QUARRY
5	OR-30-093-5	County Line Pit	1-5,000 Ton	QUARRY
5	OR-30-102-5	Minthorn Quarry	1-20,000 Ton	QUARRY
5	OR-31-049-5	Fox Hill	1-10,000 Ton	QUARRY
5	OR-31-054-5	Miller	1-5,000 Ton	QUARRY
5	OR-31-063-5	R.D. Mac	1-20,000 Ton	GRAVEL
5	OR-31-064-5	Wilson Quarry	1-20,000 Ton	QUARRY
5	OR-32-016-5	N. Hwy ODOT/Makin/Enterprise North Quarry	1-5,000 Ton	QUARRY
5	OR-32-036-5	Jones Pit	1-5,000 Ton	GRAVEL

ACP Compliance Testing Frequency Protocol

Compliance testing occurs at frequencies of one per 5,000 tons, 10,000 tons, and 20,000 tons of production of each product produced from a given source of aggregate. These rates of sampling for compliance testing can change based on the history of compliance testing results of a source. Below is a guideline used by ODOT's Pavements Section. ODOT's Pavements Section may use other criteria when increasing or decreasing compliance sampling frequencies.

1 per 5,000 tons

Sources will be tested at this frequency due to the following conditions;

- Source has not been tested for ODOT projects.
- Source has no record of testing by ODOT for compliance in the past 5 years.
- Products using multiple blended sources
- Source has failing compliance results and has not satisfied the requirements for moving to a decreased sampling frequency

1 per 10,000 tons

Sources will be tested at this frequency due to the following conditions;

- All ACP products have passing compliance results for 5 consecutive samples taken at the one per 5,000 frequency.
- The samplings of all 5 consecutive samples taken at the one per 5,000 ton frequency were witnessed by ODOT personnel.

Any failing compliance result will require all ACP products from the effected source be moved to the frequency of 1 per 5,000 tons.

1 per 20,000 tons

Sources will be tested at this frequency due to the following conditions;

- All ACP products have passing compliance results for 5 consecutive samples taken at the one per 10,000 frequency.
- The samplings of all 5 consecutive samples taken at the one per 10,000 ton frequency were witnessed by ODOT personnel.

At this frequency (1 per 20,000 tons) a failing result will be backed up by a second failing result from the same product compliance sample. A backed up failing result will move all products to the frequency of 1 per 5,000 tons.

