

Administration and Inspection Activities for Aggregates - Miscellaneous

(As Specified in OPSS 1004, November 2026)

1004.01 SCOPE

This CAIS covers the construction administration and inspection requirements for aggregates for use as clear stone, granular sheeting, gabion stone, mortar sand, rip-rap, rock protection, truck arrester bed aggregate and winter sand as specified in OPSS 1004, November 2026.

1004.02 REFERENCES

This CAIS refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Material:

OPSS 1004 Aggregates - Miscellaneous

Construction Administration and Inspection Specifications (CAIS):

CAIS 100	MTO Contract Administration General Conditions (CAGC)
CAIS 102	Weighing of Materials
CAIS 1001	Aggregates - General
CAIS 1010	Aggregates - Base, Subbase, Select Subgrade and Backfill Material

MTO Forms:

PH-D-10	Aggregate Sample Data Sheet
PH-D-1WS	Gradation And Physical Computation Acceptance And Payment Adjustments Sheets – Winter Sand

1004.03 DEFINITIONS

For the purpose of this CAIS, the definitions shall be as specified in OPSS 1004.

1004.04 DESIGN AND SUBMISSION REQUIREMENTS - Not Used

1004.05 MATERIALS**1004.05.01 General**

Administrative Activities:

1	-	When applicable, review aggregate reappraisal by the Contractor and provide approval if the reappraisal proves the source to be satisfactory.	-
2	-	Check that MTO is consulted for acceptance or rejection of material based on field performance.	-

1004.05.04 Mortar Sand

Administrative Activities:

1	-	Determine if materials other than natural sand can be used in mortar sand. Consult with regional QA.	-
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1004.06 EQUIPMENT - Not Used**1004.07 PRODUCTION****1004.07.01 Aggregate Processing, Handling, and Stockpiling**

Inspection Activities:

1	-	Check if stockpiles are separated as specified	25%
2	-	Check whether aggregates contain foreign material, or are mixed with aggregates from other stockpiles. If contaminated or mixed, the aggregates shall not be used.	25%

1004.08 QUALITY ASSURANCE**1004.08.01 General**

Administrative Activities:

1	-	Determine if mortar sand needs to be sampled and tested.	-
2	-	Check if Gabion Stone, Rip-Rap and Rock Protection are from DSM 3.05.25 or CASL, QA testing for physical requirements in Table 7 of OPSS 1004 shall be waived.	-
3	-	For Gabion Stone, Rip-Rap and Rock Protection, check that regional QA is consulted for acceptance of the physical properties in Table 7 of OPSS 1004 based on prior data within 12 months of the material being used in an MTO contract and satisfactory field performance as specified.	-

1004.08.01.01 Gabion Stone, Rip-Rap and Rock Protection**1004.08.02 Sampling**

Inspection Activities:

1	M	Monitor sampling carried out by the Contractor. Check that QA sample shall be taken as a discrete sample and not combined or blended with any other sample. When material contains blended or reclaimed aggregates or both, QA sampling shall be performed on the final blended product.	100%
2	M	Check that the required QA samples are taken as specified and delivered to the appropriate laboratories.	100%
3	M	Check if the mass of each QA sample meets the specified requirements.	100%

Administrative Activities:

1	M	Determine the time and location of sampling.	-
2	M	Establish lots for sampling and testing as specified.	-
3	M	Seal each QA sample container or tag each QA bag at the time and place of sampling.	-

1004.08.03 Testing and Retention of Samples

Administrative Activities:

1	-	Ensure that the QA laboratory retain sealed samples for referee testing.	-
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1004.08.03.02 Winter Sand

Inspection Activities:

1	-	Inspect stockpile to determine the presence of oversize material, which may be confirmed with a 9.5 mm sieve.	25%
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1004.08.03.03 Gabion Stone, Rip-Rap and Rock Protection

Inspection Activities:

1	M	Carry out the QA testing at the Working Area for gradation requirements, with appropriate measuring tools and weigh machines (meeting CAIS 102) of a sufficient capacity, as specified.	100%
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Administrative Activities:

1	M	Check that QA testing be performed by a designated QA laboratory for the physical properties, if the material is not from DSM 3.05.25 or CASL, and there is no prior accepted data within 12 months as specified above. Otherwise, administer as per clause 1004.08.01.01 above.	-
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1004.08.04 Acceptance

Administrative Activities:

1	M	Check that LS-602 be performed for acceptance of winter sand, in addition to visual inspection of the stockpile for oversize material.	-
2	M	Review test results to verify compliance as specified.	-
3	M	Notify the Contractor within the specified time period if the material represented by the test result is not acceptable.	-

1004.08.05 Referee Testing

Inspection Activities:

1	M	Perform the necessary components of the referee testing process as specified in CAIS 100, MTO Contract Administration General Conditions (CAGC).	100%
2	M	Perform the referee testing for gradation requirements for Gabion Stone, Rip-Rap and Rock Protection at the Working Area, with appropriate measuring tools and weigh machines (meeting CAIS 102) of a sufficient capacity, as specified. Consider carrying out the referee testing directly after the QA testing.	100%

Administrative Activities:

1	M	Check that a written request to invoke referee testing is received as specified.	-
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1004.09 OWNER PURCHASE OF MATERIAL - Not Used

WARRANT: Always with OPSS 1004, Material Specification for Aggregates - Miscellaneous.