



Standard Test Procedures Manual

Section: SAMPLING

Subject: PULVERIZED QUICKLIME

1. SCOPE

1.1. Description of Test

This method describes the sampling of pulverized quicklime at points of delivery.

1.2. Application of Test

The samples will be used to determine whether or not the material meets the Specification for Manufactured Materials SMM 402-1 PULVERIZED QUICKLIME.

1.3. Method of Sampling

The samples should always be taken from the delivery truck, otherwise the pay adjustment enforcement clause for this material not meeting specification is null and void.

2. APPARATUS AND MATERIALS

2.1. Equipment

A lime sampler as shown in Figure 120-1.

Metal containers 4.5 litres in size.

Sample submission form as shown in Figure 120-2.

Each district should have a sampler, metal containers and sample submission forms but should none be available, contact Technical Standards and Policies Branch, Central Laboratory.

2.2. Sample Size

For each truck load of lime delivered to a site, two 4.5 litre samples should be taken.

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3. PROCEDURE

3.1. Sampling Procedure

The sampling procedure should consist of obtaining material so as to represent an average of all parts of a load and should not contain a disproportionate share of top or bottom layers.

Representative samples should be obtained using a sampler.

The sampler should be pushed into the material to be sampled a distance equal to the length of the tube (ie. approximately 600 mm).

After having reached the full extent of the push, the sampler should be rotated 360° before being withdrawn from the material. This is to help keep the sample from falling out of the sampler.

After having withdrawn the sampler from the material, the sample contents should be emptied into a pail by tapping the side of the sampling tube with a small metal object.

The above procedure should be repeated by going down the same hole created by the first push until the bottom of the load is reached.

If the hole created by the first push should not stay open, the sampler should be pushed in as before but before it is withdrawn, the handle of the sampler should be rotated in small circular motion so as to compact the material immediately adjacent to the sampling tube. This is to help keep the hole open.

The sampling procedure should be continued until a 18 litre sample is obtained.

3.2. Representative Sampling

After the sampling procedures is completed, the sample should be thoroughly mixed before being split or halved to comprise two 4.5 litre samples.

The two samples should be immediately sealed in airtight, moistureproof, 4.5 litre metal containers.

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3.3. Sample Labeling

The samples should be identified by filling out a submission form and taping it to the container. Blank sample submission forms are available on request from the Central Lab.

The filled out sample submission form should include the contract number, control section, sample number, name and location of supplier, name of carrier, carrier receipt number, quantity of load in kilograms, date and time truck loaded, date and time truck arrived on site, date sampled and to whom test results should be sent, on the containers.

3.4. Shipping and Testing

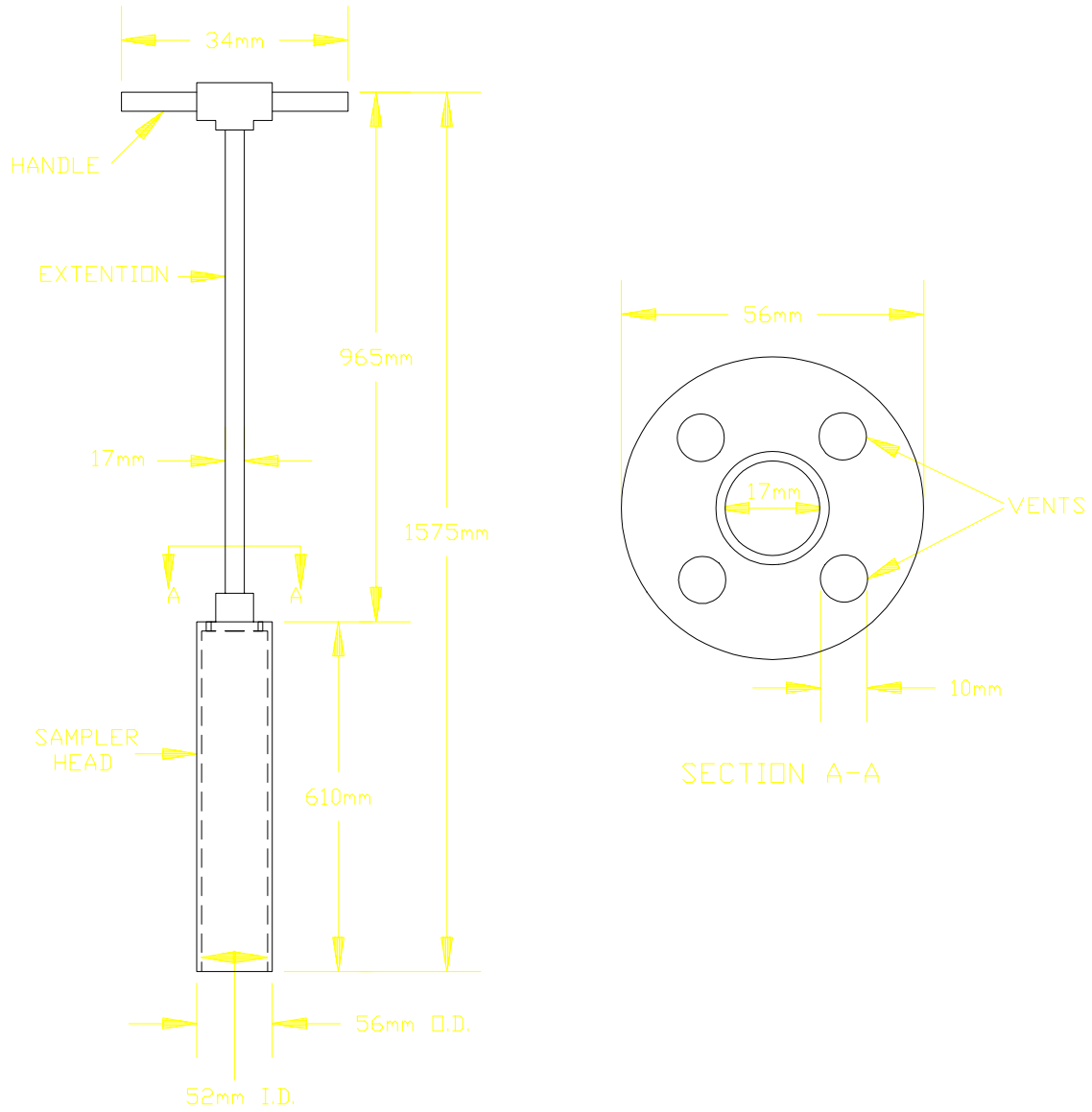
One sample should be delivered immediately for laboratory analysis while the second sample should be retained until such time as the material has been accepted or a referee test called or 90 days elapsed time, whichever is less.

The sample designated for analysis should be shipped by bus or designated courier to the Central Lab, 1610 Park Street, Regina, Sask., S4P 3V7.

4. ADDITIONAL INFORMATION

4.1. Precautions

Avoid contact with skin, eyes and clothing as pulverized quicklime is caustic and may cause severe burns.



LIME SAMPLER
FIGURE 120-1

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STP 120-1

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GOVERNMENT OF SASKATCHEWAN
DEPARTMENT OF HIGHWAYS & TRANSPORTATION
GEOTECHNICAL & MATERIALS BRANCH

PULVERIZED HIGH CALCIUM QUICKLIME

ADMITTANCE No. _____
DATE ADMITTED _____

CONTRACT No. _____ CONTROL SECTION _____

SUPPLIER _____ LOCATION _____
NAME

CARRIER _____
NAME

BILL OF LADING No. _____ QUANTITY _____

DATE LOADING _____ DATE DELIVERED _____

SAMPLED BY _____

SAMPLE SUBMISSION FORM
FIGURE 120-2

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STP 120-1

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APPROVAL SHEET

New Revision Date of Previous Document 89-06-27

Effective Date: - -

Description of Revision (Reason for Revision):

Format of test procedure updated. Department reorganization reflected.

Review/Implementation Process:

Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:

Nil

Follow Up/Training Required:

Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

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Quality Control Engineer Date

Approval Recommended by R.A. Widger 92-07-21
Senior Materials Engineer Date

Approval Recommended by A.R. Gerbrandt 92-07-23
Dir., Technical Standards & Policies Br. Date

Approved by D.G. Metz 92-07-25
Assistant Deputy Minister, Infrastructure Date

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