Requirements of a Carbonate Riprap Quality Control (QC) Plan

A MnDOT-approved QC Plan is required for riprap derived from carbonate quarries, if used for bridge protection or for quantities greater than 100 cubic yards. QC plan approval does not guarantee acceptance before or after delivery.

1. **Contact the MnDOT Geology Unit to begin the QC Plan approval process (651-366-5453 or see 'Contacts' tab on website).**

2. **Perform sampling and testing as specified by Geology Unit and provide information.**

   - Representative samples for testing will be acquired from a control unit, as defined in 3601.3.
   - Sample(s) will be prepared and tested per the MnDOT Laboratory Manual or other approved method.

3. **The Quality Control Plan will also require the following information: (see example form on website)**

a. Sampling Information
   i. Sampling date
   ii. Sample number(s)
   iii. Name of person(s) performing sampling
   iv. Sampling method

b. Testing Information
   i. Testing lab name
   ii. Testing date(s)
   iii. Lab tech name(s)
   iv. Testing methods
   v. Test results

c. Sampling and Testing schedule/frequency (discuss with Geology Unit)

d. Production Information
   i. Source crushing method
   ii. Source screening method

e. Other Source Information
   i. Source map showing sample locations
   ii. Photo(s) of riprap ledge
   iii. Photo(s) of riprap stockpile, control unit and samples
   iv. Chain of custody documentation between source and lab

4. **Quality Control Plan review process:**
   i. Submit QC plan test results and information to MnDOT Geology Unit.
   ii. MnDOT Geology Unit will assess test results and, if approved, provide signed form.

5. **Quality Control Plan post-approval:**
   i. Future sampling/testing will be performed on a schedule/frequency established by MnDOT Geology Unit.
   ii. If a process and/or material change occurs during production, then notify the MnDOT Geology Unit of the change immediately.