

# 2015 CDOT Laboratory Manual of Test Procedures

## Introduction

The purpose of the Laboratory Manual of Test Procedures (LMTP) is to provide an official guide to CDOT personnel, consultants, and contractors for the uniform testing on CDOT projects for tests that are not normally performed by project personnel. It is not the intent to publish a complete summary of the testing methods and procedures. **Referenced AASHTO or ASTM test procedures are available through CDOT's internal website as a Materials / Geotechnical Resource.** This resource is not available to non-CDOT personnel.

The manual is published in dual units using the Standard English units and the International System of Units (SI Modernized Metric).

The reproduction cycle for this manual will be approximately five years. **It is available as a hard copy and an electronic document available in its entirety on both the internal and external CDOT website listed below (see Note 1). Within this cycle revisions of an existing CP-L or the creation of a new CP-L will be posted on an annual basis within the first week of April if possible. The effective date of a revised CP-L and its associated Index will be on the page's header.** When a new production run is required and there have been changes to CP-Ls the manual will be designated as Revision A, etc. as necessary until another reproduction cycle is required. It is the LMTP owner's responsibility to ensure that this manual is current based on the web postings of all implemented changes.

We encourage efforts to develop better, more accurate, or faster methods of testing. Many of the Colorado Procedures for Laboratories are the result of suggestions from CDOT personnel, consultants, and the construction and paving industry. However, testing on a construction project must comply with the test procedures specified in the Contract.

Before new procedures can be utilized, the procedure must be reviewed and approved by the Materials Advisory Committee (MAC) and the FHWA. After review and approval of a new test procedure (CP-L) the procedure will be included in this manual and specified in future construction contracts. In addition, the procedure used must be the same as that specified in the project specifications. If this rule is not followed, the acceptance or rejection action cannot be supported and may result in legal rulings against the Division in cases of litigation.

If any questions arise concerning this Laboratory Manual of Test Procedures, telephone the Documentation Unit of the Central Laboratory at 303-398-6566 or submit either the *CP-L Comment Form* or the *Comments and/ Corrections Form* on the following pages.



Bill Schiebel  
CDOT Materials Engineer

- NOTE 1:** A centralized location for all CDOT Materials related documents and publications is at: <http://www.coloradodot.info/business/designsupport/materials-and-geotechnical/>
- NOTE 2:** **Materials Advisory Committee (MAC) information:** <http://internal.dot.state.co.us/MAC/>
- NOTE 3:** General correspondence (letters and envelopes), large packages, bulk mail samples of materials, and nuclear gauges should be addressed to or delivered to:  
Attn: (Individual's Name), CDOT, 4670 North Holly Street, Unit A, Denver, CO 80216-6408
- NOTE 4:** If you have any questions concerning this manual please contact:  
[Editor @ \(303\) 398-6566](mailto:Editor@3033986566).

## 2015 CDOT Laboratory Manual of Test Procedures Dedication

**LMTP Documents:** A special thank you is extended to the members and participants of the MAC Meetings and the associated task forces who are constantly striving to improve testing methodology and CDOT specifications so that the roads in Colorado are progressively built better and are safer for the motoring public.

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### Listed Revisions, Additions, and Deletions

Changes of significance within a particular CP-L will contain a "- 15", for example, at the end of the title to coincide with the fiscal year of the revision. Changes to specific text from the previous version will have a solid black side-bar in either the left or right applicable margin.

**Changes from the 2012 LMTP** (Only the CP-L number will be referenced, not the Sections &/or Subsections):

CP-L 2103-13  
CP-L 2104-13

CP-L 2211-15  
CP-L 2214-15  
CP-L 2215-15

CP-L 3101-14  
CP-L 3102-10 (Deleted on 6-01-2013)  
CP-L 3105-13  
CP-L 3106-13

CP-L 4101-15  
CP-L 4102-13

CP-L 4209-15

CP-L 5101-15  
CP-L 5109-15  
CP-L 5112-14  
CP-L 5115-13  
CP-L 5117-15  
CP-L 5120-15  
CP-L 5140-15  
CP-L 5150-15

CP-L 5303-15

Any errors that may still exist within this manual are solely the oversight of the Editor.

## 2015 Laboratory Manual of Test Procedures (LMTP) Colorado Procedure – Laboratory (CP-L) Comment Form

Mail or Fax to: Colorado Department of Transportation  
Materials & Geotechnical Branch  
Documentation Unit  
4670 North Holly Street, Unit A  
Denver, Colorado 80216-6408  
FAX: (303) 398-6504

Name \_\_\_\_\_ Phone No. (\_\_\_\_\_) \_\_\_\_\_ Date \_\_\_\_\_

Company or CDOT Office \_\_\_\_\_

**CP-L No.** \_\_\_\_\_ **Section No.** \_\_\_\_\_

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Thank you for your help in making the CDOT Laboratory Manual of Test Procedures a better publication by notifying us of errors or points of confusion that require clarity.

