



Summary of Revisions in the 2017 C.3 Technical Guidance Update

The revisions that were made to the C.3 Technical Guidance during the 2017 update are summarized below, listed according to the name of the applicable chapter, section, or appendix.

Cover Page

- The title page was revised to identify this as version 6 of the C.3 Technical Guidance

Errata

- The Errata identifies a change to interceptor tree criteria in Chapter 4 (April 2018)
- The Errata updates the weblink for biotreatment soil specifications-related documents in Appendix K (April 2018)
- The Errata updates the weblink for the Bay Area Hydrology Model (BAHM) in the Glossary and Chapters 3, 5, and 7 (January 2019)

Local Contacts

- Updated San Leandro info as requested
- Updated Dublin info as requested

Table of Contents

- Added Appendix N, Rainwater Harvesting and Use

Chapter 1, Introduction

- Links to documents on the Program's website were updated, due to the restructuring of the website

Chapter 2, Background/Regulatory Requirements

- A footnote was added to provide definitions for "change of grade" and "change of layout or configuration"

Chapter 3, Preparing Permit Application Submittals

- Corrected weblink for Bay Area Hydrology Model

Chapter 4, Site Design Measures

- Updated information on Silva Cells
- Updated interceptor tree criteria (April 2018 – see Errata immediately following the cover page)

Chapter 5, General Guidance for Treatment

- Changed the allowable time for standing water in treatment measures from "five days" to "four days," per California Department of Health's guidance

Chapter 6, Technical Guidance for Specific Treatment Measures

- Links to documents on the Program's website were updated, due to the restructuring of the website.
- Changed the allowable time for standing water in treatment measures from "five days" to "four days," per California Department of Health's guidance

Section 6.1, Bioretention Areas

- Provided schedule of pipe for underdrain
- Added statement requiring the use of virgin rock in underdrain trench and updated figures to reflect this change

Section 6.2, Flow-through Planter

- Same changes as for Bioretention Area

Section 6.3, Tree Well Filter

- Same changes as for Bioretention Area
- Added statement about the use of modular suspended pavement system products, such as Silva Cell
- Added statement about the possibility that some local agencies may allow the use of manufactured tree well filters in some non-Regulated Projects that are included in local Green Infrastructure Plans

Section 6.4, Infiltration Trench

- Added reference to ASTM standard on Test Methods for Infiltration Rate of Soils

Section 6.6, Pervious Paving

- Provided schedule of pipe for underdrain
- Included requirement to use clean aggregate material
- Describe alternatives to underdrain in slow-draining soils
- Added reference to ASTM standard on Test Methods for Infiltration Rate of Soils
- Added guidance to post signs alerting maintenance personnel to maintenance issues

Section 6.7, Grid Pavements

- Same changes as for Pervious Paving

Section 6.9, Rainwater Harvesting and Use

- Added a reference to the new Appendix N, Rainwater Harvesting and Use

Chapter 7 – Hydromodification Management

- Corrected weblink for Bay Area Hydrology Model

Chapter 8, O&M

- Updated Bioretention, Flow-through Planter, Tree Well Filter, Pervious Paving, and Grid Pavement maintenance guidance for consistency with changes to the maintenance plan templates in Appendix H
- Links to documents on the Program’s website were updated, due to the restructuring of the website
- Changed the allowable time for standing water in treatment measures from “five days” to “four days,” per California Department of Health’s guidance

References

- Added reference to the new Alameda County Hydrology and Hydraulics Manual

Appendix D – Mean Annual Precipitation Map

- Updated to include the Mean Annual Precipitation Map from the new Alameda County Hydrology and Hydraulics Manual

Appendix E, Applicability of Non-LID Treatment

- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix G, Mosquito Control Guidelines

- Updated guidance on standing water duration and added some items from the California Department of Public Health's Checklist for Stormwater Management Structures

Appendix H, O&M Document Templates

- Updated Bioretention Area Maintenance Plan Template, Flow-Through Planter Maintenance Plan Template, and Tree Well Filter Maintenance Plan Template to provide more guidance for how to correct deficiencies
- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix I, Hydromodification Susceptibility Map

- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix J, Special Projects

- Attached BASMAA's form for preparing LID feasibility/infeasibility discussion
- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix K, Soil Specifications

- Included the following documents as attachments:
 - o Biotreatment Soil Mix Specification Verification Checklist
 - o Biotreatment Soil Mix Supplier List
 - o Biotreatment Soil Mix Supplier Certification Statement
 - o Bioretention Soil Installation Guidance
- Made the following changes to the Biotreatment Soil Mix Supplier List:
 - o Added a new supplier to the list
 - o Corrected a reference to the previous version of the biotreatment soil mix, which has been superseded by the biotreatment soil mix approved by the Regional Water Board Executive Officer in April 2016
- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix L, Site Design Requirements for Small Projects

- Links to documents on the Program's website were updated, due to the restructuring of the website

Appendix N, Rainwater Harvesting and Use

- Added new appendix to assist project designers in locating the curves from BASMAA's 2011 LID Feasibility and Infeasibility Report, which are helpful in the hydraulic sizing of rainwater harvesting systems that are designed to meet C.3.d hydraulic sizing requirements