

Member Agencies:

Alameda

Albany

Berkeley

Dublin

Emeryville

Fremont

Hayward

Livermore

Newark

Oakland

Piedmont

Pleasanton

San Leandro

Union City

Unincorporated
Alameda County

Alameda County
Flood Control and
Water Conservation
District

Zone 7 of the
Alameda County Flood
Control and
Water Conservation
District



**Alameda Countywide
Clean Water Program**
A Consortium of Local Agencies

C.3 Stormwater Technical Guidance

*A handbook for developers,
builders and project applicants*

August 31, 2006

Version 1.0

Local Contacts

Contact information for each of ACCWP's member agencies is given below. Please contact the local agency with any questions regarding requirements specific to the local jurisdiction.

Alameda:	Public Works Department, 510.749.5840
Albany:	Community Development and Environmental Resources Department 1000 San Pablo Avenue, Albany, CA 94706. 510.528.5760
Berkeley:	510.981.7451
Dublin:	925.833.6632
Emeryville:	Civic Center, 1333 Park Ave, Emeryville, CA 94608 510.596.3728, www.ci.emeryville.ca.us/planning/stormwater.html
Fremont:	Community Development, 39550 Liberty Street, Fremont CA 94538 510.494.4570, www.fremont.gov
Hayward:	Engineering and Transportation Division, 510.583.4785
Livermore:	925.960.8100 (Inspection/reporting), 925.960-4500 (C.3 Technical Info) Permit Center, 1052 South Livermore, Ave. Livermore, CA 94550
Newark:	Michael Carmen or Soren Fajeau, City Hall – Public Works, 37101 Newark Boulevard, 1 st Floor, Newark CA 94560, 510-794-2320
Oakland:	Permit Center, 250 Frank H. Ogawa Plaza, 2 nd Floor, Oakland, CA 94612 510.238.3911, www.oaklandnet.com
Piedmont:	Public Works Counter, City Hall, 120 Vista Avenue, Piedmont, CA 94611; 510.420.3050; www.ci.piedmont.ca.us
Pleasanton:	Utility Engineer, 925.931.5508
San Leandro:	Engineering and Transportation Department, Civic Center- 835 East 14 th Street, San Leandro, CA 94577 Jagtar Dhaliwal, 510.577.3417, jdhaliwal@ci.san-leandro.ca.us OR Keith Cooke, 510.577.3439, kcooke@san-leandrol.ca.us
Union City:	York R. Gorzolla, 34009 Alvarado-Niles Blvd., Union City, CA 94587 510.675.5362

Unincorporated Alameda County: 510.670.5543

951 Turner Court, Hayward, CA 94545 OR

339 Elmhurst Street, 1st Floor, Permit Center, Hayward, CA 94544

Alameda County Flood Control and Water Conservation District: 510.670.5543

951 Turner Court, Hayward, CA 94545 OR

339 Elmhurst Street, 1st Floor, Permit Center, Hayward, CA 94544

Zone 7 Water Agency: 925.454.5036

Credits

ACCWP extends its appreciation to all those who contributed to this document, which was developed under the guidance of the C.3 Technical Guidance Work Group and New Development Subcommittee. We appreciate the comments, suggestions, and guidance provided by the participating work group and subcommittee members listed below.

C.3 Technical Guidance Work Group

Diamera Bach, Alameda County
 Jim Barse, City of Alameda
 Kaushik Bhatt, City of Pleasanton
 Karen Borrmann, Alameda County
 Steven Buckley, Alameda County
 Mary Lim, Zone 7 Water Agency
 Maritoni Maravilla, Alameda County
 Darin Ranelletti, City of Oakland
 Jim Scanlin, ACCWP
 Peter Schultze-Allen, City of Emeryville
 Marty Wayne, City of Fremont
 Shannan Young, City of Fremont

New Development Subcommittee

Steve Aguiar, City of Livermore
 Saied Aminian, City of Dublin
 Claudine Asbagh, City of Piedmont
 Diamera Bach, Alameda County
 Jim Barse, City of Alameda
 Kaushik Bhatt, City of Pleasanton
 Michael Carmen, City of Newark
 Robert Claire, City of Alameda
 Grant Cramond, City of Union City
 Amber Curl, City of Albany
 Jagtar Dhaliwal, City of San Leandro
 Nate French, City of Berkeley
 York Gorzolla, City of Union City
 Billy Gross, City of Albany
 Kevin Jackson, City of Piedmont
 Diana Keena, City of Emeryville
 James Lear, City of Hayward
 Mary Lim, Zone 7 Water Agency
 Pamela Lung, City of Livermore
 Darin Ranelletti, City of Oakland
 Jim Scanlin, ACCWP
 Peter Schultze-Allen, City of Emeryville
 Shannan Young, City of Fremont

ACCWP recognizes the firms that helped prepare this document. BKF Engineers prepared the technical guidance for specific stormwater controls in Chapters 4 and 6, as well as Appendix C (Example Scenarios). Design, Community and Environment prepared Appendix B (Planting Guidance) and contributed to Section 5.7 (Selecting and Maintaining Plantings). Four Dimensions Landscape Company conducted peer review of Appendix B. Stopwaste.org staff reviewed the Bay-Friendly Landscaping and Integrated Pest Management sections of Appendix B. EOA, Inc., as the program management consultant, coordinated and compiled the information and assisted with the overall preparation of the document.

ACCWP gratefully acknowledges the public agencies whose post-construction stormwater guidance documents served as inspiration and models for this document, including the Contra Costa Countywide Clean Water Program's C.3 Stormwater Guidebook, the Milpitas C.3 Stormwater Guidebook, the Santa Clara Valley Urban Runoff Pollution Prevention Program's C.3 Stormwater Handbook, the Santa Rosa Area SUSMP Guidelines, and Portland, Oregon's Stormwater Management Manual.

Table of Contents

	Page
Glossary	vi
Chapter 1 - Introduction/How to Use this Handbook	1
1.1 Purpose of this Handbook.....	1
1.2 What is the ACCWP?.....	2
1.3 How to Use this Handbook	2
Chapter 2 – Background/Regulatory Requirements.....	5
2.1 Stormwater Problems in Developed Areas.....	5
2.2 Post-Construction Stormwater Controls	6
2.3 Municipal Stormwater Permit Requirements	8
Chapter 3 – Preparing Permit Application Submittals	13
3.1 The Development Review Process.....	13
3.2 How to Prepare Planning Permit Submittals.....	15
3.3 How to Prepare Building Permit Submittals.....	27
3.4 Simple Instructions for Small Sites	29
Chapter 4 – Using Site Design Measures	31
4.1 Using Self-Treating Areas.....	32
4.2 Reducing the Size of Impervious Areas.....	34
4.3 On-Site Water Storage.....	35
4.4 Alternative Pervious Surfaces.....	36
4.5 Green Roofs Technical Guidance.....	36
4.6 Pervious Paving Technical Guidance	38
4.7 Turf Block and Permeable Joint Pavers Technical Guidance	41

