

APPENDIX A
City of Capitola
Tier 2 and Tier3 Stormwater Technical Guide
Stormwater Control Plan Template for Tier 2 and Tier 3 Projects

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Stormwater Control Plan

for

[Name of Project]

[date]

[This format is to be used in conjunction with the instructions, criteria, and minimum requirements in the City of Capitola's ***Stormwater Technical Guide for Tier 2 and Tier 3 Projects***.

The following page includes a Stormwater Control Plan Checklist, which will be used by the City to review your Stormwater Control Plan. Please complete this checklist and include it with your Plan.

Check the City's website for new information and updates to the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects* and this template.]

[Name of Owner]

[Owner's Representative and Contact Information]

prepared by:

[Preparer's Name]

[Preparer's Contact Information]

Tier 2 / Tier 3 Stormwater Control Plan Checklist

(To be completed by applicant and submitted with the Stormwater Control Plan)

Contents of Exhibit

- Existing natural hydrologic features (depressions, watercourses, relatively undisturbed areas) and significant natural resources.
- Proposed design features and surface treatments used to minimize imperviousness and reduce runoff.
- Existing and proposed site drainage network and connections to drainage off-site.
- Entire site divided into separate Drainage Management Areas (DMAs). Each DMA has a unique identifier and is characterized as self-retaining (zero-discharge), self-treating, or draining to a LID facility.
- Proposed locations and footprints of LID facilities.
- Potential pollutant source areas, including loading docks, food service areas, refuse areas, outdoor processes and storage, vehicle cleaning, repair or maintenance, fuel dispensing, equipment washing, etc. listed in Appendix D of the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects*.

Contents of Report

- Project information including project name; application number; location; parcel numbers; applicant contact information; land use information; site area; existing, new, and replaced impervious area, and applicable PCR requirements and exceptions.
- Narrative analysis or description of site features and conditions, and opportunities and constraints for stormwater control.
- Narrative description of site design characteristics that protect natural resources including endangered species habitat, protected vegetation, and archaeological resources, and preserve natural drainage features, minimize imperviousness, and disperse runoff from impervious areas.
- Tabulation of proposed pervious and impervious DMAs, showing self-treating areas, self-retaining areas, areas draining to self-retaining areas, and areas tributary to each LID facility.
- Proposed sizes, including supporting calculations, for each LID facility.
- Narrative description of each DMA and explanation of how runoff is routed from each impervious DMA to a self-retaining DMA or LID facility.
- Description of site activities and potential sources of pollutants.
- Table of pollutant sources identified from the list in Appendix D of the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects* and for each source, the source control measure(s) used to reduce pollutants to the maximum extent practicable.
- Description of signage for bioretention facilities.
- General maintenance requirements for bioretention facilities and site features.
- Means by which facility maintenance will be financed and implemented in perpetuity.
- Statement accepting responsibility for interim operation & maintenance of facilities.
- Stormwater Construction Checklist.
- Certification by a professional civil engineer, architect, or landscape architect.

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Attachments

Stormwater Control Plan Exhibit

Appendices

I. Project Data

Table 1. Project Data

Project Name/Number	
Application Submittal Date	[to be verified by City staff]
Project Location	[Street Address if available, or intersection and/or APN]
Project Phase No.	[If project is being constructed in phases, indicate the phase number. If not, enter "NA"]
Project Type and Description	[Example entries: "Detached single-family residence," "5-story office building," "Residential with 160 single-family homes," "Five 4-story buildings to contain 200 condominiums," "100-unit, 2-story shopping mall," "mixed use retail and residential development (apartments)", "Industrial warehouse."]
Tier Designation	[either Tier 2 or Tier 3]
Total Project Site Area (acres)	
Total New Impervious Surface Area	
Total Replaced Impervious Surface Area	
Total Pre-Project Impervious Surface Area	
Total Post-Project Impervious Surface Area	
Net Impervious Area	[If Tier 2. Equals New + Replaced – (Pre – Post)]
Watershed Management Zone(s)	
Design Storm Frequency and Depth	[If Tier 3]
Urban Sustainability Area	[If Tier 3]

II. Setting

II.A. Project Location and Description

[Include site location, division of parcels, planned land uses, zoning, setback and open space requirements, project phasing, number of residential units or square footage of office or retail, parking requirements, neighborhood character, project design objectives (for example LEED certification), other notable project characteristics. A vicinity map may also be useful.]

II.B. Existing Site Features and Conditions

[Include site size, shape, and topography. Hydrologic features, including any contiguous natural areas, wetlands, watercourses, seeps or springs. Existing land uses. Soil types and hydrologic soil groups, vegetative cover, and impervious areas, if any. Wells, landslides, slumps, or rock outcrops, if any. Existing drainage for site and nearby areas, including location of City storm drains.]

II.C. Opportunities and Constraints for Stormwater Control

[Examples of opportunities: Existing natural areas, low areas, oddly configured or otherwise unbuildable areas, easements and required landscape amenities including open space and buffers that might be used for bioretention facilities, and differences in elevation, which can provide needed hydraulic head.]

[Examples of constraints: impermeable soils or near-surface bedrock, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, density/high-intensity land use, heavy pedestrian or vehicular traffic, utility locations, safety concerns.]

III. Low Impact Development Design Strategies

III.A. Optimization of Site Layout

III.A.1. Limitation of development envelope

III.A.2. Preservation of natural drainage features

III.A.3. Setbacks from creeks, wetlands, and riparian habitats

III.A.4. Minimization of imperviousness

III.A.5. Use of drainage as a design element

III.B. Use of Permeable Pavements

III.C. Dispersal of Runoff to Pervious Areas

III.D. Stormwater Control Measures (SCMs)

IV. Documentation of Drainage Design

IV.A. Descriptions of each Drainage Management Area (DMA)

IV.A.1. Table of Drainage Management Areas

DMA Name	Surface Type	Area (square feet)

IV.A.2. Drainage Management Area Descriptions

DMA [name], totaling x,xxx square feet, drains [description of area]. DMA [name] drains to [Self-Retaining DMA name or SCM name]. [Describe notable or exceptional characteristics/conditions.]

DMA [name], totaling x,xxx square feet, drains [description of area]. DMA [name] drains to [Self-Retaining DMA name or SCM name]. [Describe notable or exceptional characteristics/conditions.]

DMA [name], totaling x,xxx square feet, drains [description of area]. DMA [name] drains to [Self-Retaining DMA name or SCM name]. [Describe notable or exceptional characteristics/conditions.]

DMA [name], totaling x,xxx square feet, drains [description of area]. DMA [name] drains to [Self-Retaining DMA name or SCM name]. [Describe notable or exceptional characteristics/conditions.]

IV.B. Tabulation and Sizing Calculations

IV.B.1. Information Summary for LID Facility Design

Total Project Area (Square Feet)	[should be consistent with Table 1]
Design Storm Depth	[at project site]
Applicable Requirements	Tier 2 or Tier 2/Tier 3

IV.B.2. Self-Treating Areas

[Extend table to list additional DMAs. Note: The following tables may be generated using the Project Clean Water SCM Sizing Calculator, available at <http://www.sbprojectcleanwater.org>.]

DMA Name	Area (square feet)

IV.B.3. Self-Retaining Areas

[Extend table to list additional DMAs. Include areas for which runoff is to be harvested and used.]

DMA Name	Area (square feet)

IV.B.4. Areas Draining to Self-Retaining Areas

[Extend table to list additional DMAs.]

DMA Name	Area (square feet)	Post-project surface type	Runoff factor	Product (Area x runoff factor)[A]	Receiving self-retaining DMA	Receiving self-retaining DMA Area (square feet) [B]	Ratio [A]/[B]

IV.B.5. Areas Draining to Bioretention Facilities (Tier 2 Projects)

[Copy entire table once for each SCM.]

DMA Name	DMA Area (square feet)	Post-project surface type	DMA Runoff factor	DMA Area × runoff factor	SCM Name		
					SCM Sizing factor	Minimum SCM Size	Proposed SCM Size
Total>					0.04		

V. Source Control Measures

V.A. Site activities and potential sources of pollutants

V.B. Source Control Table

[See the instructions on page 3-6 of the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects* and the checklist in Appendix D.]

Potential source of runoff pollutants	Permanent source control BMPs	Operational source control BMPs

V.C. Features, Materials, and Methods of Construction of Source Control BMPs

VI. Stormwater Facility Maintenance

VI.A. Ownership and Responsibility for Maintenance in Perpetuity

[Include (1) a commitment to execute any necessary agreements, and (2) a statement accepting responsibility for operation and maintenance of facilities until that responsibility is formally transferred.]

VI.B. Summary of Maintenance Requirements for Each Stormwater Facility

[See Section 5 of the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects*]

VII. Construction Checklist

[See the instructions on page 3-8 of the *Stormwater Technical Guide for Tier 2 and Tier 3 Projects*.]

Stormwater Control Plan Page #	BMP Description	See Plan Sheet #s

VIII. Certifications

The preliminary design of stormwater treatment facilities and other stormwater pollution control measures in this plan are in accordance with the current edition of the City of Capitola's *Stormwater Technical Guide for Tier 2 and Tier 3 Projects*.