

City of Santa Cruz

Performance Requirement No. 1 Implementation Report

Summary of Annual Implementation Statistics

The City began enforcing the new Post-Construction Requirements on March 6, 2014. In fiscal year 2017-18, there were a total of 65 residential and commercial projects with building permit applications either under review, approved, issued, or “finaled.” This year, there were a total of nineteen (19) commercial projects with building permit applications, with twelve (12) of these projects subject to the PCRs and five (5)* projects whose design permit was approved prior to the PCRs. These five (5) projects are included in the number for the Tier 4 category in the table below. Of the twelve (12) PCR regulated projects, two (2) were Tier 1, six (6) were Tier 2 and four (4) were Tier 4. This year, there were seven (7) sites subject to the PCRs that received certificates of occupancy (“finaled”). One (1) Tier 1 project, three (3) Tier 2 projects and one (1) Tier 4 project. Two (2)* of the finaled projects design permits were approved prior to the PCRs and are included in the Tier 4 category below.

The City requires LID site design on all residential development and remodeling projects, including projects below the Tier 1 threshold. This year, there were forty-six (46) residential building permit applications that triggered LID requirements review. Thirty-three (33) residential projects were below PCR trigger, three (3) residential projects triggered Tier 1 and six (6) projects triggered Tier 2. All the projects that triggered Tier 1 and Tier 2 requirements were multi-family residential development projects. This year, there were two (2) Tier 1 projects and two (2) Tier 2 projects subject to the PCRs that received certificates of occupancy (“finaled”).

Fiscal Year	Permit Type	Status	Number of applications with LID review	Below Tier 1, LID req.	Tier 1	Tier 2	Tier 3	Tier 4
2014-2015	BLDG Residential	Under review	6	4	2	0	0	0
		Issued	28	14	13	0	0	0
		Finaled	1	1	0	0	0	0
		Total	34	19	15	0	0	0
	BLDG Commercial	Under review	4	0	1	0	0	2
		Issued	6	0	3	3 ¹	0	0
		Finaled	1	0	1	0	0	0
		Total	11	0	5	3¹	0	2
2015-2016	BLDG Residential	Under review	1	0	1	0	0	0
		Issued	21	14	4	3	0	0
		Finaled	1	1	0	0	0	0
		Total	23	15	5	3	0	0
	BLDG Commercial	Under review	5	0	1	2	0	2
		Issued	3	2	0	1	0	0
		Finaled	1	0	1	0	0	0
		Total	9	2	2	3	0	2
2016-2017	BLDG Residential	Under review	5	2	3	0	0	0
		Issued (or approved)	24	22	2	0	0	0
		Finaled	1	1	0	0	0	0
		Total	30	25	5	0	0	0
		Under review	5	0	0	4*	0	1

	BLDG Commercial	Issued	1	0	0	0	0	1
		Finalized	2	0	0	2	0	0
		Total	8	0	0	6	0	2

Fiscal Year	Permit Type	Status	Number of applications with LID review	Below Tier 1, LID req.	Tier 1	Tier 2	Tier 3	Tier 4
2017-2018	BLDG Residential	Under review	1	1	0	0	0	0
		Issued (or approved)	26	17	3	6	0	0
		Finalized	19	15	2	2	0	0
		Total	46	33	5	8	0	0
	BLDG Commercial	Under review	3	0	0	3	0	0
		Issued	9	0	1	0	0	8*
		Finalized	7	0	1	3	0	3*
		Total	19	0	2	6	0	11

The following table shows the different types of LID BMPs being implemented on new development and remodel projects. The report indicates that projects implement downspout disconnection and many projects also implement design measures such as directing runoff from impervious surfaces to landscaping, utilizing porous pavement materials, and creating vegetated swales. Bioretention is implemented more frequently on commercial projects that have to meet additional PCR requirements. In addition to the table (below), (1) one project implemented a green roof LID feature and (1) one project implemented a rain barrel LID feature.

Fiscal Year	Total Number of Permits w LID review	LID Design or Structure Implemented						
		Disconnect downspouts	Impervious surface runoff to landscape	Permeable pavers /material	Bioretention	Detention Basin	Vegetated swale	Infiltration trench/pit
2014-2015	45	41	18	21	9	0	17	6
2015-2016	32	30	16	18	8	1	15	4
2016-2017	38	31	11	16	4	3	9	3
2017-2018	65	52	19	41	19	3	33	14

A sample LID checklist for residential projects and a sample checklist for commercial projects are attached.

Building Permit No: _____

Appendix A

Storm Water and Low Impact Development Assessment (LID) Checklist Single-Family Home Projects

SECTION 1. Project Information

Project Address: _____

APN#: _____

Project is a:

New development

Remodel

Proposed Development Area and Impervious Area:

Parcel Area: _____ acres

Existing impervious surface area (pavement and buildings): _____ sq ft

Amount of new impervious surface area that will be **created**: _____ sq ft

Amount of impervious surface area that will be **replaced**: _____ sq ft

Post-project impervious surface area: _____ sq ft

SECTION 2. Site planning and LID design measures

LID design measures shall be clearly marked on site plans

Check applicable box and provide short description of measure and location

Conserve natural areas, riparian areas and wetlands

Description: _____

Concentrate improvements on the least-sensitive portions of the site and minimize grading

Description: _____

Direct roof runoff into cisterns or rain barrels

Description: _____

Direct roof downspouts to landscaped areas or rain gardens

Description: _____

Use pervious pavement (pervious concrete or asphalt, turf block, crushed aggregate, etc.)

Description: _____

Disperse runoff from paved areas to adjacent pervious areas

Description: _____

APPENDIX A

Storm Water & LID Checklist

APPENDIX A STORM WATER AND LOW-IMPACT DEVELOPMENT BMP REQUIREMENT WORKSHEET

How to Use This Worksheet

The City's Storm Water BMP requirements are based on project type, proposed impervious area, and location within the watershed. This worksheet was developed to help permit applicants determine and meet storm water BMP requirements applicable to a proposed development or redevelopment

- 1 - Download this fillable form online at www.cityofsantacruz.com/LID
- 2 - Fill out the Worksheet to determine what stormwater BMP requirements apply to a proposed project.
- 3 - Attach Worksheet and additional documentation required as listed in the City Storm Water Best Management Practices for Private and Public Development Projects to plans for review by the Department of Public Works
- 4 - Please contact the Public Works Environmental Project Analyst at 420-5160 if you have any questions on completing the worksheet.

Project Address: _____ **Bldg Permit #:** _____

A - Project Type

Check project type that applies:

- Single Family Home Multi-family, Commercial, Industrial, Public facilities

Check development type that applies:

- New Development Redevelopment / Remodel

B - Proposed Development Area and Impervious Area:

Pre-project impervious surface area: _____ sq ft
Post-project impervious surface area: _____ sq ft
Amount of impervious surface area that will be **replaced**: _____ sq ft
Amount of new impervious surface area that will be **created**: _____ sq ft
Reduced Impervious Area Credit: _____ 0 sq ft

New and Replaced Impervious Area = _____ **0** sq ft

Net Impervious Area = _____ **0** sq ft

(Net Impervious Area = Impervious Area created + Impervious Area replaced - Reduced Impervious Area Credit)

C - Post-Construction BMP Tier requirement:

Check Project Type and Impervious Area (from calculations above) that applies.

BMP requirements are cumulative (e.g. a project subject to BMP Tier 3 is also subject to Tiers 1 and 2), permit review fees are not cumulative.

Projects requiring a Stormwater Control Plan will need to involve a civil engineer.

SINGLE-FAMILY HOMES	BMP TIER	Permit Review Fee	Stormwater Control Plan required?
<input type="checkbox"/> Single-family Home with Net Impervious Area < 15,000 sf , please consult Chapter 6A, BMPs for Single-Family Homes on Small Lots	N/A	\$0	No
<input type="checkbox"/> Net Impervious Area ≥ 15,000 sf ; New and replaced impervious area < 22,500 sf	3	\$330	Yes
<input type="checkbox"/> New and replaced impervious area ≥ 22,500 sf	4	\$550	Yes
MULTI-FAMILY, COMMERCIAL, INDUSTRIAL, PUBLIC FACILITIES	BMP TIER	Permit Review Fee	Stormwater Control Plan Required?
<input type="checkbox"/> New and Replaced Impervious Area ≥ 2,500 sf ; Net Impervious Area < 5,000 sf	1	\$0	No
<input type="checkbox"/> Net Impervious Area ≥ 5,000 sf ; New and Replaced Impervious Area < 15,000 sf	2	\$330	Yes
<input type="checkbox"/> New and Replaced Impervious Area ≥ 15,000 sf but < 22,500 sf	3	\$550	Yes
<input type="checkbox"/> New and replaced impervious area ≥ 22,500 sf	4	\$550	Yes

If the proposed project is only subject to BMP Tiers 1 or 2, skip to Step F.

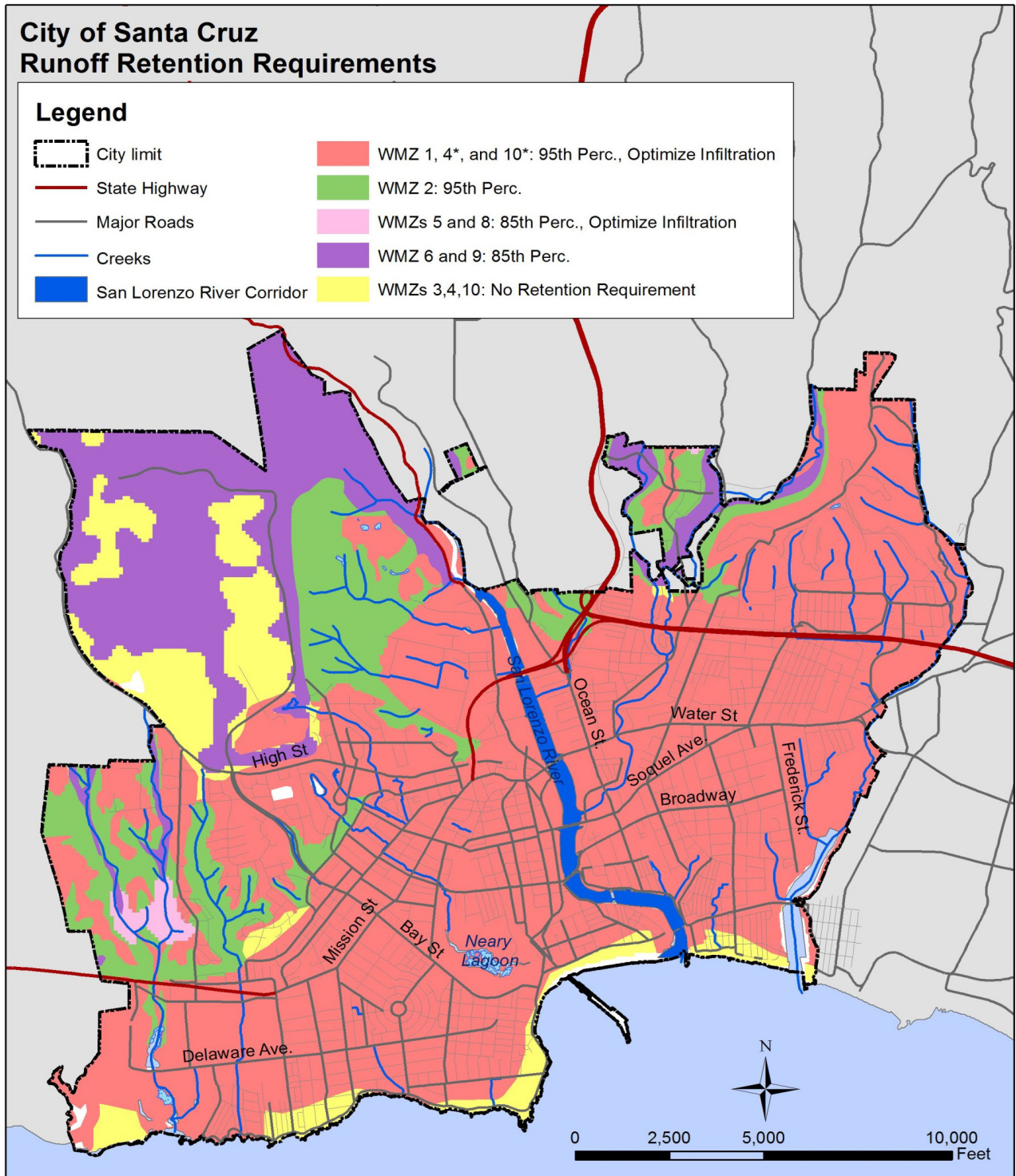
D - Watershed Management Zones - For projects subject to Tiers 3 Post-Construction BMP requirements only.

Watershed Management Zones are viewable online on the City of Santa Cruz GIS website at: <http://gis.cityofsantacruz.com/gis/index.html>

Watershed Management Zones and associated Tier 3 (Runoff Retention) Post-Construction BMP requirements

If Tier 3 BMP requirements are applicable to the project, check the watershed management zone area where the project is located.

- WMZ 1, and portions of 4, and 10 overlying groundwater basin
- WMZ 2
- WMZ 5 and 8
- WMZ 6 and 9
- WMZ 3, 4 and 10



E - Special Circumstances - For projects subject to Tiers 3 and 4 Post-Construction BMP requirements only.

Check if special circumstance applies to the project

- Highly Altered Channel and Intermediate Flow Control Facility
- Urban Sustainability Area

F - Additional Stormwater BMP Requirements for Multi-family, Commercial and Industrial projects

Check if additional BMP requirements apply to the project

a) State Construction Activities Storm Water General Permit

- Construction activity resulting in land disturbance of one acre or more, or part of a larger common plan of development

b) Additional Source Control BMP requirements for specific facilities

- | | |
|--|--|
| <input type="checkbox"/> Commercial or industrial facility | <input type="checkbox"/> Parking areas |
| <input type="checkbox"/> Material Storage Areas | <input type="checkbox"/> Pools, spas and other water features |
| <input type="checkbox"/> Vehicle fueling, maintenance and wash areas | <input type="checkbox"/> Trash Storage Areas |
| <input type="checkbox"/> Equipment and accessory wash areas | <input type="checkbox"/> Restaurants and food processing or manufacturing facilities |
| <input type="checkbox"/> Interior and parking garage floor drains | <input type="checkbox"/> Miscellaneous drain or wash water |

G - Complete if your project is only subject to Tier 1 Requirements - Site planning and LID design measures.

LID design measures shall be clearly marked on site plans

Check applicable boxes and provide short description of measure and location

- Conserve natural areas, riparian areas and wetlands
Description: _____
- Concentrate improvements on the least-sensitive portions of the site and minimize grading
Description: _____
- Direct roof runoff into cisterns or rain barrels
Description: _____
- Direct roof downspouts to landscaped areas or rain gardens
Description: _____
- Use pervious pavement (pervious concrete or asphalt, turf block, crushed aggregate, etc.)
Description: _____
- Disperse runoff from paved areas to adjacent pervious areas
Description: _____