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. This year, there were 15 sites subject to the PCRs that received certificates of occupancy. Twelve (12) sites were residential projects subject to Tier 1 of the PCRs, 2 sites were commercial projects subject to Tier 1 of the PCRs, and 1 site was a commercial project subject to Tier 2.

The City requires LID site design on all residential development and remodeling projects, including projects below the Tier 1 threshold. During the fiscal year 2015-16, there were a total of 32 building permit applications that triggered LID requirements review. Seventeen (17) of those projects were below PCR trigger and 7 projects triggered Tier 1.

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***	***3[1]***	***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***

The following table shows the different types of LID BMPs being implemented on new development and remodel projects. The report indicates that nearly all 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.

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
2014-15	45	41	18	21	9	0	17	6
2015-16	32	30	16	18	8	1	15	4

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

Building Permit No: 15-0027

Appendix A

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

SECTION 1. Project Information

Project Address: [redacted] APN#: [redacted]

Project is a:

☐ New development ■ Remodel

Proposed Development Area and Impervious Area:

Parcel Area: 5748 sf, 0.132 acres

Existing impervious surface area (pavement and buildings): 3966 sq ft

Amount of new impervious surface area that will be created: 451 sq ft

Amount of impervious surface area that will be replaced: 0 sq ft

Post-project impervious surface area: 4417 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: NA

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

Description: NO GRADING

☐ Direct roof runoff into cisterns or rain barrels

Description:

☒ Direct roof downspouts to landscaped areas or rain gardens

Description: DOWNSPOUTS TO ROCK FILLED SUMPS

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

Description: NO NEW PAVED AREAS

☐ Disperse runoff from paved areas to adjacent pervious areas

Description:

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/UD**

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: XXXXXXXXXXXXXXXXXXXX **Bldg Permit #:** XXXXX

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:	16593	sq ft
Post-project impervious surface area:	17460	sq ft
Amount of impervious surface area that will be **replaced**:	3764	sq ft
Amount of new impervious surface area that will be **created**:	867	sq ft
Reduced Impervious Area Credit:	0	sq ft
New and Replaced Impervious Area =	**4631**	**sq ft**
Net Impervious Area =	**4631**	**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?
☐ 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
☐ Net Impervious Area **≥ 15,000 sf**; New and replaced impervious area **< 22,500 sf**	3	$330	Yes
☐ 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?
☑ New and Replaced Impervious Area **≥ 2,500 sf**; Net Impervious Area **< 5,000 sf**	1	$0	No
☐ Net Impervious Area **≥ 5,000 sf**; New and Replaced Impervious Area **< 15,000 sf**	2	$330	Yes
☐ New and Replaced Impervious Area **≥ 15,000 sf but < 22,500 sf**	3	$550	Yes
☐ 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.

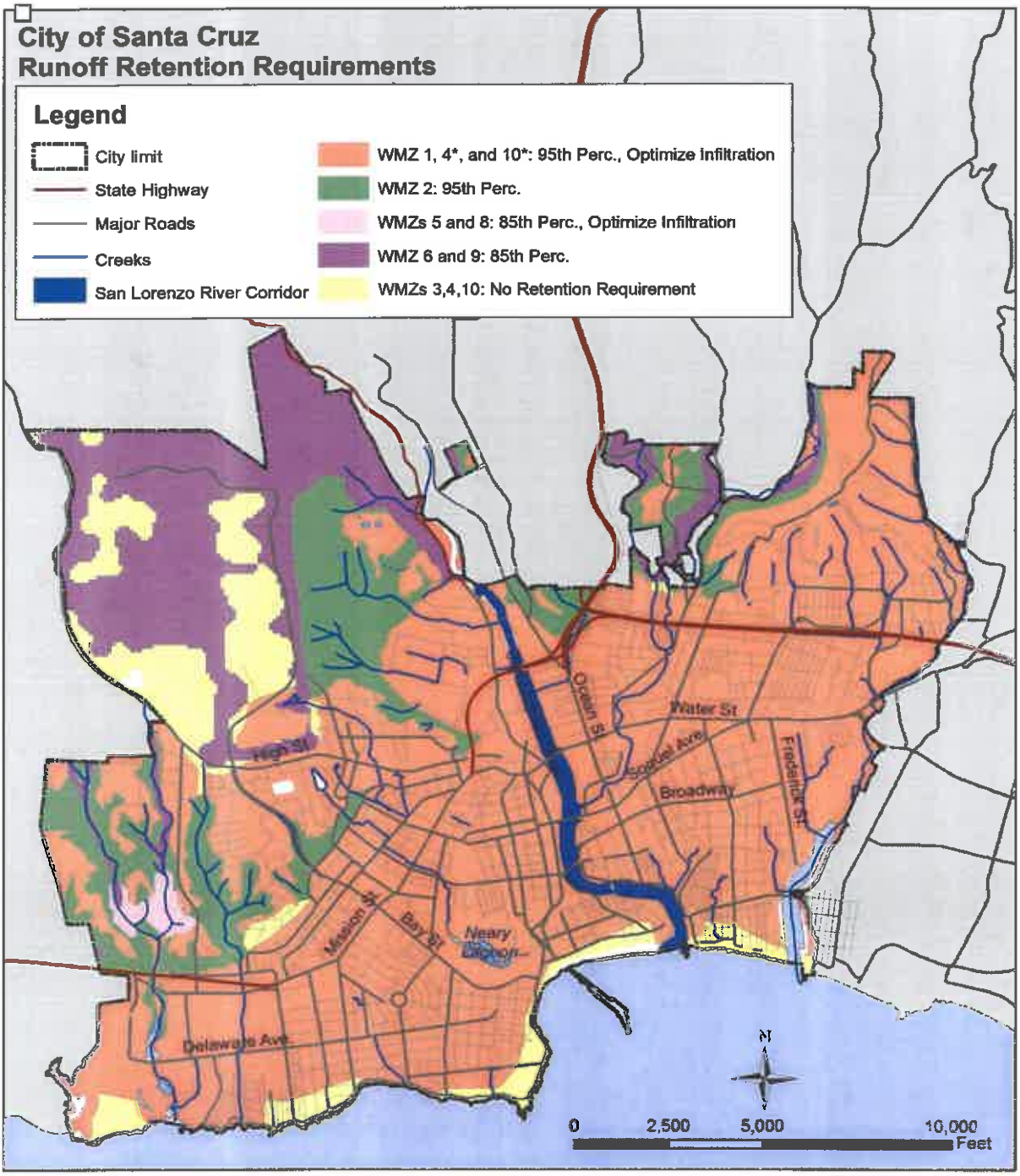
D - Watershed Management Zones - For projects subject to Tiers 3 Post-Construction BMP requirements only.

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

- ☑ Commercial or industrial facility
- ☐ Material Storage Areas
- ☐ Vehicle fueling, maintenance and wash areas
- ☐ Equipment and accessory wash areas
- ☐ Interior and parking garage floor drains
- ☑ Parking areas
- ☐ Pools, spas and other water features
- ☐ Trash Storage Areas
- ☐ Restaurants and food processing or manufacturing facilities
- ☐ 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: Most downspouts directed to landscape.
- ☐ Use pervious pavement (pervious concrete or asphalt, turf block, crushed aggregate, etc.)
  Description: _____
- ☐ Disperse runoff from paved areas to adjacent pervious areas
  Description: _____