

LID Checklist for Major SWMP

**5550 Dehesa Valley Road
El Cajon, California 92019**

APN 513-073-14

For

Sam Shorees

Prepared By

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LOW IMPACT DEVELOPMENT (LID)

Each numbered item below is a LID requirement of the WPO. Please check the box(s) under each number that best describes the Low Impact Development BMP(s) selected for this project.

Table 8

1. Conserve natural Areas, Soils, and Vegetation-County LID Handbook 2.2.1
 - Preserve well draining soils (Type A or B)
 - Preserve Significant Trees
 - Other. Description:
 - 1. Not feasible. State Reason:
2. Minimize Disturbance to Natural Drainages-County LID Handbook 2.2.2
 - Set-back development envelope from drainages
 - Restrict heavy construction equipment access to planned green/open space areas
 - Other. Description:
 - 2. Not feasible. State Reason:
3. Minimize and Disconnect Impervious Surfaces (see 5) -County LID Handbook 2.2.3
 - Clustered Lot Design
 - Items checked in 5?
 - Other. Description:
 - 3. Not feasible. State Reason:
4. Minimize Soil Compaction-County LID Handbook 2.2.4
 - Restrict heavy construction equipment access to planned green/open space areas
 - Re-till soils compacted by construction vehicles/equipment
 - Collect & re-use upper soil layers of development site containing organic materials
 - Other. Description:
 - 4. Not feasible. State Reason:
5. Drain Runoff from Impervious Surfaces to Pervious Areas-County LID Handbook 2.2.5

LID Street & Road Design

- Curb-cuts to landscaping
- Rural Swales
- Concave Median
- Cul-de-sac Landscaping Design
- Other. Description:

LID Parking Lot Design

- Permeable Pavements
- Curb-cuts to landscaping
- Other. Description:

LID Driveway, Sidewalk, Bike-path Design

- Permeable Pavements
- Pitch pavements toward landscaping
- Other. Description:

LID Building Design

- Cisterns & Rain Barrels
- Downspout to swale
- Vegetated Roofs
- Other. Description:

LID Landscaping Design

- Soil Amendments
- Reuse of Native Soils
- Smart Irrigation Systems
- Street Trees
- Other. Description:

- 5. Not feasible. State Reason:

ATTACHMENT D

LID AND TREATMENT BMP LOCATION MAP

(11 X 17)

(ATTACHED SEPARATELY)

ATTACHMENT F

OPERATION AND MAINTENANCE PROGRAM FOR TREATMENT BMPS

*(NOTE: INFORMATION REGARDING OPERATION AND MAINTENANCE CAN BE OBTAINED
FROM THE FOLLOWING WEB SITE:*

[HTTP://WWW.CO.SAN-DIEGO.CA.US/DPW/WATERSHEDS/LAND_DEV/SUSMP.HTML.](http://www.co.san-diego.ca.us/dpw/watersheds/land_dev/susmp.html)

BIOFILTER

ROUTINE ACTIONS	MAINTENANCE INDICATOR	FIELD MEASUREMENT	MEASUREMENT FREQUENCY	MAINTENANCE ACTIVITY	COST
Preventive Maintenance and Routine Inspections					
Height of vegetation	Average vegetation height exceeds inches, emergence of trees, or woody vegetation	Visual inspection of vegetation throughout strip/swale	Once during wet season, once during dry season.(depending on growth)	Cut vegetation to an average height of 6 inches	\$ 539.98
Assess adequate vegetative cover	Less than 90 percent coverage in strip invert/swale or less than 70 percent on swale side slope	Visual inspection of strip/swale. Prepare a site schematic to record location and distribution of barren or browning spots to be restored. File the schematic for assessment of persistent problems.	Assess quantity needed in May each year late wet season and late dry season.	Reseed/revegetate barren spots by Nov. Scarify area to be restored, to a depth of 2inches. Restore side slope coverage with one-ton truck & hydroseed mixture. If after 2 applications (2 seasons) of reseeding/revegetating and growth is unsuccessful both times, an erosion blanket or equivalent protection will be installed over eroding areas.	\$ 547.19
Inspect for debris accumulation	Debris or litter present	Visual observation	During routine trashing, per Districts schedule.	Remove litter, and debris.	\$ 0.00
Inspect for accumulated sediment	Sediment at or near vegetation height, channeling of flow, inhibited flow due to change in slope.	Visual observation	Annually	Remove sediment. If flow is channeled, determine cause and take corrective action. If sediment becomes deep enough to change the flow gradient, remove sediment at or near sediment during dry vegetation height, season, characterize and properly dispose of sediment, and revegetate. Notify engineer to determine if regrading is necessary. If necessary, regrade to design specification and revegetate swale/strip. If regrading is necessary, the process should start in May. Revegetate strip/swale in Nov. Target completion prior to	\$ 1133.49

BIOFILTER

ROUTINE ACTIONS	MAINTENANCE INDICATOR	FIELD MEASUREMENT	MEASUREMENT FREQUENCY	MAINTENANCE ACTIVITY	COST
				wet season.	
Inspect for burrows	Burrows, holes, mounds	Visual observation	Annually and after vegetation trimming.	Where burrows cause seepage, erosion and leakage, backfill firmly.	\$ 0.00
General Maintenance Inspection					
General Maintenance Inspection	Inlet structures, outlet structures, side slopes or other features damaged, significant erosion, emergence of trees, woody vegetation fence damage, etc.	Visual observation	Semi-Annually, late wet season and late dry season.	Corrective action prior to wet season. Consult engineer if an immediate solution is not evident.	\$ 751.76

Total Cost: \$ 2972.42

Total cost is \$2972.42; however this is a first category BMP and needs no funding.

ATTACHMENT G

FISCAL RESOURCES

The following is a discussion from the SUSMP Manual to describe how each of the BMPs will be maintained via “Mechanism to Assure Maintenance” and “Funding”:

FIRST CATEGORY:

The County should have only minimal concern for ongoing maintenance. The proposed BMPs inherently "take care of themselves", or property owners can naturally be expected to do so as an incident of taking care of their property

Typical BMPs:

- Biofilters (Grass swale, Grass strip, vegetated buffer)
- Infiltration BMP (basin, trench)

Mechanisms to Assure Maintenance:

1. Stormwater Ordinance Requirement: The WPO requires this ongoing maintenance. In the event that the mechanisms below prove ineffective, or in addition to enforcing those mechanisms, civil action, criminal action or administrative citation could also be pursued for violations of the ordinance.

2. Public Nuisance Abatement: Under the WPO failure to maintain a BMP would constitute a public nuisance, which may be abated under the Uniform Public Nuisance Abatement Procedure. This provides an enforcement mechanism additional to the above, and would allow costs of maintenance to be billed to the owner, a lien placed on the property, and the tax collection process to be used.

3. Notice to Purchasers. Section 67.813(e) of the WPO requires developers to provide clear written notification to persons acquiring land upon which a BMP is located, or others assuming a BMP maintenance obligation, of the maintenance duty.

4. Conditions in Ongoing Land Use Permits: For those applications (listed in WPO Section 67.803(c)) upon whose approval ongoing conditions may be imposed, a condition will be added which requires the owner of the land upon which the stormwater facility is located to maintain that facility in accordance with the requirements specified in the SMP. Failure to perform maintenance may then be addressed as a violation of the permit, under the ordinance governing that permit process.

5. Subdivision Public Report: Tentative Map and Tentative Parcel Map approvals will be conditioned to require that, prior to approval of a Final or Parcel Map, the subdivider shall provide evidence to the Director of Public Works, that the subdivider has requested the California Department of Real Estate to include in the public report to be issued for the sales of lots within the subdivision, a notification regarding the maintenance requirement. (The requirement for this condition would not be applicable to subdivisions which are exempt from regulation under the Subdivided Lands Act, or for which no public report will be

issued.)

Funding:

None Required.

ATTACHMENT H

CERTIFICATION SHEET

This LID Checklist for Stormwater Management Plan has been prepared under the direction of the following Registered Civil Engineer. The Registered Civil Engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Date

