LID Worksheet & Implementation Tracking Form

Cities of
Carmel-by-the-Sea
Del Rey Oaks
Marina
Monterey
Pacific Grove
Sand City
Seaside

County of Monterey
Pebble Beach Company
Unified School Districts of
Carmel
Monterey
Pacific Grove

Low Impact Development (LID) is a development approach that minimizes or eliminates pollutants in storm water through preserving or simulating natural processes and mitigates most impacts from changes in hydro-logic characteristics, such as flow patterns, surface retention, and recharge rates. It also helps protect natural hydrologic watershed functions within the built environment, and includes the use of decentralized structural and non-structural storm water practices and measures to meet storm water regulatory and resource protection goals. An LID approach to development allows for the consideration and use of features to capture, retain, infiltrate, evaporate, and evapotranspire storm water on a site, as well as protect existing natural drainages, hydrologic processes, and vegetated areas as feasible. Implementing such measures typically reduces off-site flows to local drainage systems that may otherwise contribute to downstream impacts to receiving water bodies.

In order to facilitate the design review and permitting process, a completed copy of this Tracking Form shall be submitted with applicable discretionary project applications, plans, and documentation. Tier 1 and Tier 2 projects are required to employ and document appropriate LID site planning and source control measures using this Tracking Form. Tier 1 and Tier 2 projects may also require runoff volume reduction and treatment control measures (See "Monterey Regional Interim LID Guidelines" handout for Tier 1 and Tier 2 project definitions and "Design Guidelines for Low Impact Development: Site Planning, Source Control, Runoff Volume Reduction, and Treatment Control Practices" for additional requirements). LID practices shall be documented using this Tracking Form and illustrated and described on the project site plans and in the project details.

Project Information

Property Address _____

APN _____

WDID# (if applicable) _____

Applicant's Name _____ Telephone _____

Mailing Address _____

_____

Owner's Name _____ Telephone _____

Mailing Address _____

_____

Project Type: ☐ Residential: Single Family   ☐ Residential: Multi-Family   ☐ Residential: Other

☐ Industrial   ☐ Commercial   ☐ Other _____

Receiving Water Body: _____
(First natural water body to receive the project's storm water flow.)

Discretionary Application Submittal Date: _____

Impervious Area Summaries			
	Existing Site Impervious Area (Pre-Project)	**Proposed Site Impervious Area (Post-Project)**	**Replaced[1] Site Impervious Area (Post-Project)**
Drainage Area 1	ft^2 or acres	ft^2 or acres	ft^2 or acres
Drainage Area 2			
Drainage Area 3			
Drainage Area 4			
Drainage Area 5			
Totals			

[1] This area is a subset of the "proposed" site impervious area.

Runoff Volume[2] Analysis			
	Pre-Project Runoff Volume	**Post-Project Runoff Volume, <u>Without LID Measures</u>**	**Post-Project Runoff Volume – <u>With LID Measures</u>**
Drainage Area 1	ft^3 or ac·ft	ft^3 or ac·ft	ft^3 or ac·ft
Drainage Area 2			
Drainage Area 3			
Drainage Area 4			
Drainage Area 5			
Composite (Total)			

[2] For runoff volume calculations, utilize the "Design Guidelines for Low Impact Development: Site Planning, Source Control, Runoff Volume Reduction, and Treatment Control Practices" and the Post-Construction Water Balance Performance Standard Spreadsheet (Excel spreadsheet), Attachment 2.1 of the State Construction General Permit found at:
http://www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

Attach copies of the pre-project and post-project runoff volume calculations for municipality review.

For each LID practice or measure listed in this worksheet, please indicate whether it has or has not been utilized or incorporated into the project design. In the "Comments" column, include the reason why the item was or was not utilized.

LID Practice or Measure	Practice/Measure Proposed?			Comments – Briefly state why the practice or measure was included or was rejected for your project. If the item is not applicable to your project, select "N/A" and explain.
	Y	N	N/A	
Site Planning Practices				
Preserve Existing Vegetation				
Preserve natural drainage features	☐	☐	☐	
Preserve open space and natural soils	☐	☐	☐	
Establish buffers and setbacks to natural areas	☐	☐	☐	
Cluster proposed development to retain undisturbed areas	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	
Reduce Site Imperviousness				
Minimize impervious surfaces – sidewalks, driveways, parking lots - as feasible	☐	☐	☐	
Use alternative surfacing materials - porous pavement, porous concrete, permeable pavers and turf, etc.	☐	☐	☐	
Pervious surfaces for overflow parking	☐	☐	☐	
Reduce building footprint or increase building height instead of footprint (within Zoning code)	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	
Other Site Planning Practices				
Consider storm water use in landscape and irrigation design	☐	☐	☐	
Utilize native and drought-tolerant plants	☐	☐	☐	
Incorporate landscaped buffers	☐	☐	☐	
Use pest-resistant native landscaping	☐	☐	☐	
Properly design irrigation systems to avoid overspray	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	
Source Control Practices				
Perform regular site maintenance (i.e., trash pick-up, sweeping, inspections)	☐	☐	☐	
Properly design – cover and contain - trash/recycling areas, and berm and drain to sewer	☐	☐	☐	
Properly design outdoor material storage areas (cover and contain)	☐	☐	☐	

LID Practice or Measure	Practice/Measure Proposed?			Comments – Briefly state why the practice or measure was included or was rejected for your project. If the item is not applicable to your project, select "N/A" and explain.
	Y	**N**	**N/A**	
Source Control Practices, Continued				
Other:	☐	☐	☐	
	☐	☐	☐	
Disconnect Impervious Areas				
Direct parking area/sidewalk/driveway runoff into landscaped areas	☐	☐	☐	
Re-direct roof downspouts to vegetated areas, or use veg. flow-through devices	☐	☐	☐	
Capture downspout runoff with cistern or rain barrel for landscape use	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	
Runoff Reduction Measures				
Bio-Retention Practices				
Rain garden or vegetated depression	☐	☐	☐	
Bioswale, vegetated	☐	☐	☐	
Filter strip, vegetated	☐	☐	☐	
Rock-lined swale	☐	☐	☐	
Extended detention basin	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	
Infiltration Practices				
Infiltration and/or retention basin	☐	☐	☐	
Infiltration planter	☐	☐	☐	
Infiltration trench	☐	☐	☐	
Dry well	☐	☐	☐	
Soil amendments to retain water	☐	☐	☐	
Downspout disconnection to vegetated area	☐	☐	☐	
Pervious surface use – porous concrete, porous asphalt, or permeable pavers	☐	☐	☐	
Rainwater harvesting (barrel or cistern) for capture and landscape use	☐	☐	☐	
Vegetated roof	☐	☐	☐	
Other:	☐	☐	☐	
	☐	☐	☐	