Proposed Stormwater Ordinance Amendment

Public Works Commission
November 10, 2022
Regulatory Background

• Federal Clean Water Act (CWA)
• National Pollutant Discharge Elimination System (NPDES) Permits
• Regional Municipal Separate Storm Sewer System (MS4) Permits
• 2021 MS4 Permit
Proposed Amendment Sections

1. Prohibited Discharges: Add certain common city activities and requirements
2. Requirements for Existing Properties
3. Lowering the LID Criterion on Development Projects
Prohibited Discharges
Requirements for Existing Properties

- Daily a.m. food delivery
- Used Cooking Oil
- Oyster shells

[Image of existing property with waste management issues]

[Image of modern waste management solution]

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Low Impact Development (LID)

- Design approach to managing stormwater runoff as part of green infrastructure.

<table>
<thead>
<tr>
<th>Development Project</th>
<th>Size of Impervious Surface Area</th>
<th>LID Required</th>
<th>Permit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Family Residential (SFR)</td>
<td>5,000 SF</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Non SFR (i.e. Commercial, MFR)</td>
<td>5,000 SF</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>SFR or Non-SFR</td>
<td>&lt;5,000 SF</td>
<td>YES, Small-scale BMP</td>
<td>NO</td>
</tr>
</tbody>
</table>
Stormwater Requirements

**Pervious Surface**
Majority of rain flows through soil into groundwater, not into sewer.

**Impervious Surface**
Majority of rain flows off pavement into sewer, along with dirt and debris.
Impervious Surfaces
• Development projects that **Create and/or Replace** impervious surface above permit thresholds are required to implement specific Low Impact Development (LID) practices.
Regulatory LID Threshold

LID Threshold:
Development (SFR or non-SFR) projects that create and/or replace ≥ 5,000 SF of impervious surface on any existing site ≥ 10,000 SF of impervious surface

Does LID apply to this project?

Existing building footprint (impervious surface)

New building footprint (impervious surface)

YES
LID Standard: 50% Rule

• For projects subject to LID standard, either some or all of the project must be included in the LID mitigation:
  – If the alteration (created and/or replaced) is ≥ 50% of the existing impervious surface: **Mitigate the Entire Impervious Surface Area**
  – If the alteration (created and/or replaced) is < 50% of the existing impervious surface altered: **Mitigate Only the New Area**
> 50% Treat All

Existing impervious surface area footprint (impervious surface)

New impervious surface area footprint (impervious surface)

Existing Impervious Surface Altered by replacing 7,000SF

For illustration purposes only:

7,000/10,000 = 70%
70% > 50%
= Treat entire project
\[ \geq 50\% \text{ Treat All} \]

Existing impervious surface area footprint (impervious surface)

New impervious surface area footprint (impervious surface)

For illustration purposes only:

\[
\frac{7,000}{10,000} = 70\%
\]

70\% > 50\%

= Treat entire project = 17,000 SF
LID Standard: < 50%

Existing Impervious Surface Altered 4,000 SF

Existing building footprint (impervious surface)

4,000/10,000 = 40%

40% < 50%

= Treat new area only = 6,000 SF

For illustration purposes only:
• Non-LID development projects (<5,000 SF created or replaced impervious surface area)
• Projects must implement at least two simple site design BMPs
LID BMPs

1. Porous Pavement/Permeable Hardscape
   - 1 - permeable pavers
   - 2 - grass pavers
   - 3 - pervious concrete
   - 4 - porous asphalt

2. Roof Downspout Routing

3. Rain Barrels/Cisterns

4. Rain Garden/Landscaping
LID Design BMPs

Minimize Impervious Surfaces / Disconnect Impervious Surfaces
Count of Los Angeles Department of Public Works

Low Impact Development

Standards Manual
February 2014
Next Steps

- Staff seeks feedback on the proposed amendments, especially the LID proposals.
- If the Commission approves the proposed amendments, a draft ordinance will be presented in first quarter of 2023.
Impervious Surface

**Pervious Surface**
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**Impervious Surface**
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