

Sonoma Valley Stormwater Management and Groundwater Recharge Scoping Study Potential Project Types



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Project Types Considered

- Meets both core objectives
 - Flood hazard reduction
 - Groundwater recharge
- Sources
 - Stakeholders
 - Published documents
 - Project team



Potential Project Types or Measures



Flood Management

- Decrease flood flows
- Increase conveyance
- Modify susceptibility to flooding



Groundwater Recharge

- Enhance groundwater recharge



Low Impact Development

- Mimic natural site hydrology

Measures That Decrease Flood Flows

- In-line detention basins
- In-line retention basins
- Off-line detention basins
- Off-line retention basins
- High-flow diversions
- Floodplain attenuation



Measures That Increase Conveyance

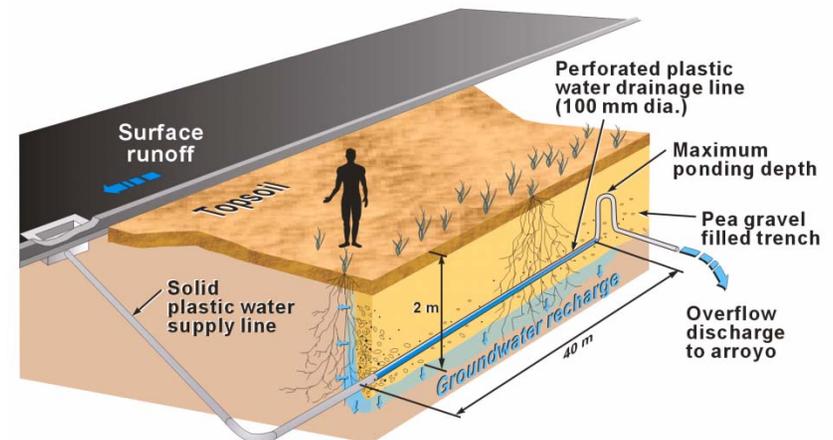
- Urban drainage infrastructure improvements
- Flow constriction improvement
- Channel clearing
- Levees and floodwalls

Measures That Modify Susceptibility to Flooding

- Floodproofing
- Relocation/land use changes

Measures to Enhance Groundwater Recharge

- Off-line retention basins
- Above-ground or underground storage tank
- Infiltration galleries
- Self-cleaning infiltration trenches
- Vadose wells



Low Impact Development (LID)

- Measures to Mimic Natural Site Hydrology
 - Infiltration-based approaches
 - Detention-based approaches

