



Santa Clara Valley
Urban Runoff
Pollution Prevention Program



C.3. Workshop, June 17, 2009

Site Design for Protecting Water Quality – 2009 Award Winning Projects

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Current New Development and Redevelopment Requirements

- **Projects that create/replace > 10,000 sq.ft. impervious surface required to include:**
 - **Site design measures**
 - **Pollutant source controls**
 - **Stormwater treatment measures**
 - **Flow control measures (certain projects > 1 acre impervious area)**
- **Proper site design can help reduce or avoid other types of mitigations**

Site Design Concepts

- **Define Development Envelope**
 - Minimize land disturbance
 - Protect native vegetation
 - Preserve open space
- **Minimize Impervious Area**
 - Reduce building footprint
 - Use pervious paving
- **Use Drainage as Design Element**
 - Reduce speed of, detain, infiltrate runoff in landscaping



Site Design Guidebook





Site Design Awards Program

- Recognizes public agency and private development leaders who are solving site design challenges, protecting water quality and meeting permit requirements.
- Awards given to completed projects with site design measures that:
 - Reduce runoff rates and volumes
 - Provide stormwater treatment
 - Serve as a visual amenity
 - Serve as a model for similar projects

Past Site Design Award Winners



**Permeable
Pavers, Mayfield
Playing Fields,
Palo Alto**



**Natural Detention Area,
Willow Glen Reflections,
San Jose**

**Landscaped
Detention Area,
Alum Rock Library,
San Jose**



Past Site Design Award Winners



**Pervious Paving,
Starbucks/Taco del Mar,
Palo Alto**

**Vegetated Bioswale,
Tully Library, San Jose**



**Pervious Concrete
Parking Lot,
Congregation Sinai,
San Jose**

Past Site Design Award Winners



**Vegetated Swale and
Detention Area Behind
Entrance Sign,
Modern Ice, San Jose**



**Parking Lot Converted to Rock
Garden (Stormwater Detention
Area), IDEAs, San Jose**



**Vegetated Swale
Integrated into Park
Landscaping,
Modern Ice, San Jose**



2009 Award Winners

- Private Project, Large Residential –
Casa Feliz Studios, San Jose
- Private Project, Small Residential –
Rosenberg Residence, Palo Alto
- Public Project –
Roosevelt Community Center, San Jose
- Honorable Mention –
**Hampton Park Phase I Townhomes,
San Jose (HMH Engineers)**

Casa Feliz Studios

525 South 9th St., San Jose

- Developed by First Community Housing
- 4-story building with 60 units of affordable housing
- Tight 0.34-acre infill site near downtown San Jose
- Green living roof (5,375 sq.ft.) with drought-tolerant native plants



Rosenberg Residence

1425 Stanford Ave., Palo Alto

- Resident voluntarily installed 14,000-gallon underground cistern
- System harvests storm runoff from building roof and portion of yard for reuse as landscape irrigation water
- Use of native, drought-tolerant plants
- Permeable materials for site pathways



Roosevelt Community Center

901 E. Santa Clara St., San Jose

- Public facility adjacent to Coyote Creek in Roosevelt Park
- Stormwater treatment features that are functional, artistic, and educational
- Site incorporates vegetated and cobbled swales, landscaped detention/infiltration areas, pervious asphalt
- Example of project meeting stormwater and LEED requirements



Hampton Park – Phase I

1097 Rock Ave., San Jose

- 98-unit townhouse complex on 4.8 acres
- All stormwater treatment is landscape-based
- Runoff from roof and drive aisles conveyed toward center open space area
- Additional runoff drains to landscaping and raised planters
- Grass paving used for emergency access area





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Acknowledgements

- **2009 Awards Selection Committee:**
 - Trish Mulvey, CLEAN South Bay
 - Kristy McCumby-Hyland, City of Sunnyvale
 - Genevieve Fire, consultant
 - Christina Hovland & Jill Bicknell, SCVURPPP
- **2009 Awards Applicants**