City of San Diego

Memorial Park Infiltration Pit Project

San Diego IRWMP Prop 50 Grant Program
December 5, 2012

Municipal Permit Requirements

Municipal Storm Water Permit Requires BMP’s
(Effective March 24, 2008)

City initiated a Tiered and Phased Approach to BMP implementation:

- Tier 1 – Education & Behavior Change
  - Radio Announcements & Targeted Street Sweeping

- Tier 2 – Source Control & Runoff Reduction BMP
  - Infiltration basins

- Tier 3 – Large Structural Treatment & Control BMP
  - Large Treatment & Control BMP
Chollas Creek Watershed

- TMDL for Dissolved Metals, Pesticides & Bacteria
- Highly urbanized
  - Residential
  - Roads, freeways
  - Industrial
  - Commercial
- Numerous pollutant sources

Dalbergia & Thor Project

Green Mall Porous Paving & Infiltration

- Cancelled due to infeasibility
- Numerous locations reviewed
- SDCWA suggested substitution in same watershed
Memorial Park Concept

- Infiltrates urban runoff from impervious areas
- Design reduces runoff volume during storms

Memorial Park Budget

- Construction (Match) $276,338
- Monitoring (Reimbursable) $249,796
- Other Non-Grant Costs: $388,771
- Total: $914,904
Memorial Schedule

- Concept Design began 2007
- Full Design Completed 10/2009
- Construction Began 07/2010
- Construction Completed 11/2010
- Monitoring Began 11/2010
- Report Completed 06/2012

Construction

- Inflow pipe from parking lot
- HSU

Inflow pipe from parking lot
Construction

Infiltration Pot with Geotextile liner

Construction

HSU

Infiltration Vault Modules
Memorial Park Findings

- Effectiveness Monitoring Useful
  - Runoff reduction, but not as much as expected
  - Site condition variability may impact wider use
- Lessons learned
  - Site Conditions Critical
  - Consider Maintenance in Design
Questions?