GreenPlan Bay Area

Kick Off Meeting
9/19/13, 2-4pm
Elihu Harris Building, Oakland, CA
Agenda

• Welcomes     2pm
• Introduction of Project     2:15
• Roles for Cities     2:25
• Discussion / Q & A     2:35
• Overview of GreenPlan-It     3:00
• Initial Thoughts on Data / Discussion     3:20
• Next Steps     3:45
Welcome 2-2:15

Jennifer Krebs

- Greetings from SFEP
- Go around room
- Sign-in sheet (needed for State Board)
Introduction of Project

- Project Team: SFEP, SFEI, Dan Cloak, Jennifer Walker
- Web Page: http://www.sfestuary.org/greenplanning
- Basecamp
- Project Schedule
- Project Outcomes
- Purpose of Meeting

Jennifer Krebs
Jesse Mills
Roles for Municipalities 2:25 – 2:35

• TAC Members
• “Master Planning” Agency
• Interested Party

Jennifer Krebs
Discussion / Q&A  2:35 – 3:00

• Municipalities current efforts that dovetail with Green Infrastructure Master Planning?
• How do you think the Plans can benefit your municipality?
• How do you think an alternative compliance program can benefit your municipality?
• Questions?
Overview of Green Plan-It

Lester McKee       SFEI       3:00-3:20

In a given watershed...

• What quantitative water quality and hydrological improvements can be made with Low Impact Development?

• What is the optimal plan?

• With LID, can we improve upon the cost/benefit of grey infrastructure alone?
GreenPlan-it toolbox

GIS Siting Tool

Critical Areas Tool

Optimization Tool - Maximize benefit, Minimize cost

Improvement vs. Cost

Feasible & Effective

Master Plan

Grey Infrastructure

Target
Use local + regional GIS layers to identify feasible sites

- Infrastructure
- Private vs. public land
- Redevelopment plans
- Capital improvement plans
• Simulate watershed processes

• Identify critical sources areas
  • Flow
  • Contaminants

• Overlay area-specific considerations
  • Areas of known flooding
GIS Siting Tool  

Critical Areas Tool

Feasible & Effective

• Combination = Initial for optimization
  • e.g., 1000 possible locations

• Field verification
Optimization Tool
- Maximize benefit
- Minimize cost

Master Plan
Feasible & Effective
e.g. Peak flow reduction

Target
Optimization Tool
- Maximize benefit
- Minimize cost

Master Plan
Feasible & Effective
e.g. Peak flow reduction

Target
Grey Infrastructure
- Multiple simulations
- Quantify potential effectiveness
- Balance benefit and cost
- LID + Grey Infrastructure

Optimization Tool
- Maximize benefit
- Minimize cost

Master Plan

Feasible & Effective

e.g. Peak flow reduction vs. cost

Target

LID (+ Grey)

Grey Infrastructure
- Multiple simulations
- Quantify potential effectiveness
- Balance benefit and cost
- LID + Grey Infrastructure

**Optimization Tool**
- Maximize benefit
- Minimize cost

**Master Plan**
Feasible & Effective

**Optimization Tool**
e.g. Peak flow reduction

**Master Plan**
GIS Siting Tool

Critical Areas Tool

GreenPlan-it toolbox

Optimization Tool
- Maximize benefit
- Minimize cost

Improvement vs. Cost

Master Plan

Feasible & Effective

Grey Infrastructure

LID (+ Grey)
Discussion Questions

• What output would be most useful?

• How could this project/toolkit best integrate with near-term and longer-term planning processes?
Local Data Needed for Toolkit

- **Topography** – ~1ft vertical resolution (LiDAR)
- **Land cover** - ownership, parcels, roads
- **Hydrology** - storm drainage network, depth to groundwater, flow
- **Water Quality Monitoring**
- **Imagery** – current (2010 or later) high resolution (<1 ft) aerial photography
- **Catchment Delineations** - <HUC12
- **Additional data** - any other partner-specific data themes or locations to be included in analysis of LID implementation, e.g., red curbs, right of ways, public parks, etc.
- **Meteorology** – precipitation, temperature
- **Diversion** - any water uses that divert water from the stream/watershed (locations and amounts)
- **Existing LID information** - Location, type, remove efficiency, design capacity, any post-implementation monitoring data
- **Existing Stormwater Models**
- **Local cost information on various types of LID** - capital, operation and maintenance
Questions on Data  3:20-3:45
Kristen Cayce

Input:
• What local data sets do cities have?
• Who might we contact to acquire data?

Output:
• What type of format of outputs that works best for cities? (map, list....)
Next Steps 3:45 – 3:55

Jennifer Krebs

• Memo to Munis re data availability, interest in X role in project, reflections on this meeting (regarding project goals, etc.) – 9/25/13 – SFEP
• Due date for response to memo – 10/15/13 - Municipalities
• Selection of munis for various roles - 11/1/13 - SFEP
• Memo to selected munis on data collection next steps (11/1/13), and follow up communications as needed on how to collect data (data due 12/13)