

# TASK 5: URBAN RUNOFF TREATMENT RETROFITS

## EL CERRITO GREEN STREETS PROJECT

 <p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Rain Garden Cells</li> <li><span style="border: 1px solid orange; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Maintenance / Monitoring Access</li> <li><span style="border: 1px solid yellow; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Overflow</li> <li><span style="border: 1px solid green; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Overflow, Connected to Storm Drain</li> <li><span style="border-bottom: 1px solid black; display: inline-block; width: 20px; margin-right: 5px;"></span> Existing Storm Drain Pipe</li> <li><span style="border-bottom: 1px dashed black; display: inline-block; width: 20px; margin-right: 5px;"></span> Underdrain</li> <li><span style="color: blue;">→</span> Flow Direction</li> </ul> <p><b>Notes:</b>      *Full extent of El Cerrito storm drain system not shown. Approximate location of existing storm drain in vicinity of project area only.</p> <p style="text-align: center;">0    75    150 Feet</p>	<p><b>BMP Type:</b> Bioretention</p> <p><b>Location:</b> Eureka Rain Gardens at 10200 San Pablo Avenue and Madison Rain Gardens at 11048 San Pablo Avenue.</p> <p><b>Drainage Area:</b> Eureka: 1.7 acres Madison: 0.4 acres</p> <p><b>Construction Completed:</b> July 2010</p> <p><b>Total Design and Construction Cost:</b> \$392,000</p>	
<p><b>Description:</b></p> <p><b>Number of Cells:</b></p> <p><b>Media Type &amp; Depth:</b></p> <p><b>Sizing:</b></p> <p><b>Ponding Depth:</b></p>	<p>Bioretention cells with curb cuts.</p> <p>Eureka: 12 Madison: 7</p> <p>18-inch depth. Sandy loam filter media</p> <p>Undersized due to site constraints. Eureka: treats 38% of drainage area. Madison: 70% of drainage area.</p> <p>11 inches</p>	 <p style="text-align: center;"><b>SECTION A-A</b>  <b>BIORETENTION AREA AT RAIN GARDEN</b></p> <p style="text-align: center;">NTS    © 2009 BAI</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. ALL PERFORATED PIPE SHALL HAVE A MINIMUM OF THREE 3/4" DIA. HOLES EVENLY SPACED ALONG THE CIRCUMFERENCE OF THE PIPE AND NOT LESS THAN THREE HOLES PER LINEAL FOOT OF PIPE.</li> <li>2. PLANTINGS MAY INCLUDE TREES, MINIMUM INFILTRATION RATE 57-HR.</li> <li>3. RAIN GARDEN SOIL TYPE TO CONFORM WITH LANDSCAPE PLANS AND SPECIFICATIONS.</li> <li>4. CONTRACTOR TO PROTECT IN PLACE EXISTING UNDERGROUND UTILITIES AND POTHOLE TO VERIFY LOCATIONS.</li> <li>5. SOURCE: MODIFIED FROM CENTER FOR WATERSHED PROTECTION, 2005.</li> </ol>
	<p><b>Monitoring Locations:</b> One cell on NW corner of San Pablo and Eureka.</p> <p><b>Monitored Dates:</b> 2/26/14, 3/31/14, 12/2/14</p> <p><b>Influent Sampling:</b> Gutter before the first curb cut.</p> <p><b>Effluent Sampling:</b> Outfall pipe that discharges flow from underdrain into drop inlets.</p>	