

## **Attachment 6 Monitoring, Assessment, and Performance Measures**

The City of Calimesa's proposed Project will construct the basin and Calimesa Creek conveyance facilities from 5<sup>th</sup> Street to the Interstate 10 Freeway, including approximately 1,730 linear feet of conveyance facilities. The conveyance system will be designed to convey 100-year storm water volume of 1,065 cubic feet per second from a 890 acre tributary area and to provide 100-year flood protection for approximately 62 acres where flooding has occurred during even moderate flood events. Additionally, the proposed Project will construct a basin to further reduce peak flows through flood storage volume, naturally treat urban runoff and storm water flows, and recharge greater quantities of storm water. The proposed Project includes monitoring, assessment, and performance measures to document and track how the Project will effectively contribute to meeting the program goals and objectives.

Performance measures that will be used to quantify and verify project performance are shown in the following table:

**Francis Street Storm Drain and Ely Basin Flood Control and Aquifer Recharge Project  
Performance Measures Table**

<b>Project Goals</b>	<b>Desired Outcomes</b>	<b>Output Indicators</b>	<b>Outcome Indicators</b>	<b>Measurement Tools and Methods</b>	<b>Targets (Implementation by 2014)</b>
Attenuation of storm flows (flood control) and improve flood protection	Reduce/eliminate flooding to the civic center, public safety facilities, local businesses and residential properties	Observation of flooding mitigation	Successful implementation of the project and reduced flooding	City maintenance costs and photographic documentation.	Safely convey storm flows for up to 100-year storm events
Capture and recharge of storm flows through groundwater recharge	Increase groundwater supplies	Basin storage capacity and groundwater monitoring well elevation change versus basin water levels	Storage volume and groundwater elevation records from Yucaipa Valley Water District	Installation of water level meters around basin and data collection from existing groundwater monitoring wells	Construct basin to provide 19 acre-feet of storage; capture/recharge 200 acre-feet per year
Improve groundwater quality through natural recharge	Reduction of urban runoff pollutants and groundwater degradation	Observation of improved groundwater quality through monitoring program	Storm water quality monitoring program	Installation of lysimeters around basin and water quality data collection	Detectable improvement in groundwater quality