

Attachment 6 Monitoring, Assessment, and Performance Measures

The project includes construction of the Francis Street Storm Drain along Francis Street from Campus Avenue to the West Cucamonga Creek, approximately 8,500 feet of reinforced concrete pipe with diameters ranging from 18" to 132". The drainage system is designed to capture and convey 100-year storm water volumes from a 956 acre tributary area and to provide 100-year flood protection for approximately 277 acres where flooding has occurred during storm events. Additionally, the proposed project will expand the existing Ely Basins to further reduce peak flows by flood storage, naturally treat (filtration) 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**

Project Goals	Desired Outcomes	Output Indicators	Outcome Indicators	Measurement Tools and Methods	Targets (Implementation by 2014)
Attenuation of storm flows (flood control) and improve flood protection	Reduce/eliminate flooding of streets, local businesses and residential properties	Observation of flooding mitigation	Successful implementation of the project and reduced flooding	Reduced City Maintenance Costs and Photographic documentation.	Capture and convey storm flows for up to 100-year storm events
Capture and recharge of storm flows through groundwater recharge	Reduce groundwater overdraft and increase groundwater supply	Increase in basin capacity and groundwater monitoring well elevation change versus basin water levels	Groundwater elevation records resulting in increased available potable water supply	Increased water level monitoring near the basins and data collection from existing groundwater monitoring wells	Excavate existing basins deeper to provide 310 acre-feet of additional storage; capture/recharge 772 acre-feet per year
Improve groundwater quality through natural filtration recharge	Reduction of urban runoff pollutants and groundwater degradation	Observation of improved groundwater quality through water supply water quality testing	Storm water quality monitoring program	Installation of lysimeters around basin and water quality data collection	Detectable improvement in groundwater quality