

ATTACHMENT 6

Monitoring, Assessment, and Performance Measures

Presented in the table below is the planned monitoring, assessment and performance measures that will demonstrate the Proposal will meet its intended goals, achieve measurable outcomes and provide value to the State of California.

Monitoring, Assessment, and Performance Measures				
Proposal: <u>Dixon Regional Watershed Plan</u>				
Project: <u>Dixon Main Drain / V-Drain Enlargement Project</u>				
Project Goals	Desired Outcomes	Targets	Performance Indicators	Measurement Tools and Methods
Provide Adequate Flood Protection, Practice Integrated Flood Management and Resolve Water Related Conflicts	Reduce localized flooding in project area.	Provide capacity for runoff directly tributary to the project in the 10-year and 100-year storms.	Runoff from the 10-and 100-year storms will be contain within the channel banks of the project prior to the Eastside Drain Project construction.	Hydrologic and hydraulic modeling results for the project along with visual monitoring of flooding during storm events.
	Construct an outfall for a regional watershed including both urban and rural lands.	Provide an outfall with capacity in the 10-year storm for the Eastside Drainage Project.	Runoff from the 10- year storm will be contain within the channel banks of the project after to the Eastside Drain Project is constructed.	Hydrologic and hydraulic modeling results for the Eastside Drainage Project along with visual monitoring of flooding during storm events.
Restore Native Vegetation, restore ecosystems, expand environmental stewardship	Create wetlands by enlarging channel section and creating floodplain bench.	Create 5 acres of wetlands.	Low flow channels with perennially flowing water and floodplain benches and channel side slopes that remain saturated long enough during each wet season to promote sustainable growth of hydrophytic vegetation.	As-Built Report prepared and submitted to the Corps, RWQCB and the California Department of Fish and Game. Detailed annual monitoring reports for five years containing hydrology data, plant community sampling data and summaries and photographic documentation. Photos, taken from the same location each year will allow a visual analysis of the year to year changes that occur in the channels and the created floodplains benches.

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	Restore native vegetation by planting upland areas	Establish native vegetation 50 acres of upland habitat	Seed approximately 50 acres of uplands with a variety of native perennial grasses. Monitor and maintain for two years. Within two years, there will be at least 50% visual coverage by native grasses of the area seeded.	Upland area monitoring will include photo point establishment and photo monitoring annually to document plant survival and growth, quarterly surveying of planted vegetation to determine survival and semi-annual (spring and fall) surveys to determine need for weed control.
Address Pollution Sources, improve water quality, reduce instream erosion, protect surface water quality	Reduce erosion and improve water quality by fencing channel from livestock	Protect 24 acres of land currently accessible to grazing cattle with exclusionary fencing.	Construct 8,600 feet of permanent fence along the western project boundary to prevent cattle from accessing the channel	Construction management and inspections of the project documented with as constructed drawings.
	Reduce erosion by reducing channel water velocity through enlarging and planting channel section.	Decrease water velocity in large storm events.	Water velocity decreases with channels flowing at capacity through constructing a larger channel section with 4:1 slope banks and high water flood bench and planting channel bench and banks above the bench.	Construction management and inspections of the project documenting channel construction and planting. Inspections of channel during vegetation and wetlands monitoring.