

**Handout - 5b -
Meeting 6 - July 9, Woodland
Proposed Plan Objectives (July 2, 2012)**

Item	Plan Objectives	Qualitative Measurement	Quantitative Measurement	Addresses Plan Goal(s):	Thoughts and Questions to Consider	Priority
Education and Awareness Focus						
1	Provide educational curricula for all K-12 classrooms within the region designed to increase awareness of watershed and resource stewardship and how individual stewardship relates to community health and well-being by December 31, 2022.		Availability of curricula suitable to each grade and student population within the region.	2, 3, and 11	How do determine suitability and effectiveness?	Medium
Habitat Focus						
2	Restore 15 acres of native vegetation along riparian corridors, canals and ditches throughout the region annually to provide stream shading, habitat enhancement and increased biological diversity through 2035.		Acres restored along corridors, canals and ditches; improvement in shading, survey of biological diversity (birds, fish)	5 and 8	What are the other parameters besides acreage? (e.g., width, species, topography, etc.)	High
3	Restore access to and improve spawning habitat for imperiled fish by 25% within the region by December 31, 2035.		Number of miles of suitable spawning habitat that is accessible to target species.		Need to define suitability and accessibility parameters. Can we set a meaningful intermediate objective?	High

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Invasives Focus						
4	Prevent colonization of any regional water body by Quagga mussels or Zebra mussels and eliminate or prevent the spread of New Zealand mud snails from Putah Creek during the planning period.		Presence (or absence) of target invasive species.	5, 8, 9, and 12		High
5	Reduce geographic extent of invasive plant species (e.g., arundo, tamarisk, etc.) in riparian and wetland areas in region by [X]% by December 31, 2035.		Percentage change in acreage of invasive plant species within riparian and wetland areas within region between now and 2030	5, 8, and 10	Suggestions made between 25% and 80%.	High
6	Prevent the spread of aquatic and terrestrial exotic weeds within the Cache and Putah Creek watersheds during the planning period.		Identified sites [geographic extent] of exotic weeds within the region.	8 and 10	Is the extent of exotic weeds currently known?	High
Infrastructure Focus						
7	Sustain and modernize existing water supply, water quality, and flood management infrastructure throughout the planning period.	Reliability of service; operational efficiency; customer satisfaction.		6, 9, 10, and 12		High
Reasonable Use Focus						
8	Increase adoption of locally cost effective water conservation measures by municipal and industrial users by [X]% by December 31, 2035.		Number of conservation measures employed; per-capita water use for M&I customers.	7, 9, and 12	Suggest choosing either adoption of technology measure or per-capita water use measure.	Medium
9	Increase adoption of locally cost effective agricultural best management practices (BMP's) throughout the planning period.	Number of training workshops held.		2, 4, 6, 7, 8, 9, and 12	Is data available re: current use of BMP's?	High
Recreation Focus						

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10	Increase water-related recreational opportunities within the region by 25% by December 31, 2035.			5 and 12	How to measure? Access, amenities, visitor-days, revenue, biking / hiking trails, etc.	Medium
Risk Management Focus						
11	Provide adequate flood protection for all developed areas within the region by December 31, 2050.		Subject to definition of adequate.	4, 10, and 12	How to define adequate? (Expected annual damages, loss of life, frequency and extent of flooding, etc.) Can we set an intermediate objective?	High
12	Manage upland fuel loading to within [desired range] in the Cache and Putah Creek watersheds in high fire risk areas to reduce the likelihood of catastrophic wildfire by December 31, 2035.		Fuel load calculated; ##### acres prescribed for treatment, ##### acres treated and re-treated/maintained	1, 5, 6, 7, 8, 10, and 12	What is the measure of fuel load? Is there a desired range? Is this an objective that can be reached before 2030 and then maintained through planning period?	High
Understand Watershed Function Focus						
13	Understand the potential water supply and water quality impacts from endangered species related pumping restrictions or related large-scale State and Federal projects in the Delta by December 31, 2020.	Scientific information and studies available that characterize potential impacts to region.		3	Difficult to predict future pumping restrictions; Potential State and Federal projects in early planning stages now.	Medium
14	Monitor conditions and improve understanding to support sustainable use of groundwater basins within the Region as an important part of the Region's water supply throughout the planning period.	Information to understand and predict status of aquifer function over the long-term; Understand opportunities to improve regional water supply portfolio through conjunctive management.		2, 3, 6, 9, and 12		High

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15	Maintain and enhance monitoring network and information sharing to support management of watersheds and natural resources within the region throughout the planning period.	Availability of important information; ease of access across agency boundaries.		2, 3, 6, 9, 10, 11, and 12		High
Water Quality Focus						
16	Address pollutant sources in order to remove [X%] of impaired water bodies within the region from the "303(d) list" by December 31, 2035.		Relevant water quality constituent levels; number of water bodies within the region classified as impaired.	4, 5, 6, and 8	Can we set a meaningful objective (or sub objective) to be completed sooner?	High
17	Reduce methyl mercury concentrations in regional fish stocks by 20% by December 31, 2035.		Methyl mercury concentrations in sport fish consumed by people	1,3, 4, 5, and 8	Is information about methyl mercury concentrations in fish tissue currently available?	High
18	Reduce cyanobacteria growth in Clear Lake by controlling nutrient loading to meet TMDL standard - currently a reduction of chlorophyll A concentration in the Lake's open water to < 73 ug/l by December 31, 2030.		Cyanobacteria concentrations?; chlorophyll A concentrations	4, 5, 6, and 12	Can we set a concentration threshold for cyanobacteria concentration directly?	Medium
19	Eliminate accidental spillage/discharges of wastewater to receiving waters by December 31, 2020.		Number of spills reported per year; gallons of wastewater spilled.	4, 5, 6, 8, and 12	Do we want to get to 0 spills per year? Or, is there some other threshold that is more appropriate?	Medium

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20	Reduce public health risks by reducing contaminants of concern in drinking water sources throughout the planning period.		Improvements in source water quality; cost savings for meeting quality standards for drinking water at point of delivery; reductions in concentration of constituents of concern in drinking water at point of delivery.	3,6,and 9		High
21	Meet all drinking water, wastewater discharge, and runoff standards within the region by December 31, 2020.		Compliance with all relevant quality standards.	4 and 6	<p>Are there any standards not being met consistently now?</p> <p>Would it be more appropriate to say throughout the planning period instead of by December 31, 2020?</p>	High

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Water Supply Focus						
22	Provide 100% reliability of municipal and industrial (M&I) water supplies of appropriate quality within the region throughout the planning period.		Number of days M&I water rations are in place anywhere within the region during the planning period. (Target = 0 days)	1, 6, 9 and 12	This can include a variety of approaches such as increased supplies, conjunctive management, water transfers, long-term demand management, etc.	High
23	Improve water supply reliability to agricultural users within the region by [X%] by December 31, 2035.		Number of acres of irrigated land fallowed each year due to lack of water supply.	1, 6, 9, and 12	Need to select a percentage. Can we track number of acres of irrigated land fallowed due to lack of water supply? This approach does not consider questions of economic viability.	High