

DELTA STEWARDSHIP COUNCIL
DELTA PLAN PERFORMANCE MEASURES

Public Workshop: November 9, 2015

Chapter 6 - Performance Measures
Draft Refinement Recommendations

Delta Plan Performance Measures – Draft Staff Recommendations

Chapter 6 - Goal: Improve Water Quality to Protect Human Health and the Environment

Strategies:

1. Require Delta-Specific Water Quality Protection
2. Protect Beneficial Uses By Managing Salinity
3. Improve Drinking Water Quality
4. Improve Environmental Water Quality

Ref. #	Type	Policy or Rec.	Short Title	Current Delta Plan Wording	Recommended Revised Wording or Classification (in bold)
Strategy 1: Require Delta-Specific Water Quality Protection					
6.22	Outcome	WQ-R1	Meet control plan objectives	Water quality in the Delta meets objectives established in the applicable water quality control plan.	Water quality in the Delta meets both Bay-Delta and Central Valley Basin Plan objectives. Metric: Regional Water Boards are meeting their proposed TMDL schedule.
6.26	Outcome	WQ-R3 WQ-R8	Lessen harmful algal blooms	HABs will lessen in severity and spatial coverage in the Delta over the next decade.	HABs will lessen in their intensity and spatial coverage in the Delta over the next decade, contingent on the development of a comprehensive monitoring program. Metrics: <ul style="list-style-type: none"> • Aerial distribution of microcystis harmful algal blooms (HABs), by acres. • Abundance of microcystis harmful algal blooms (HABs).
6.27	Outcome	WQ-R3 WQ-R8	Lessen nuisance non-native plants	The spatial distribution and productivity of nuisance nonnative aquatic plants will decline over the next decade.	The spatial distribution and coverage of nuisance nonnative aquatic plants will decline over the next decade. Metric: Acreage of invasive aquatic plants (e.g. water hyacinth and others as data becomes available).

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Strategy 2: Protect Beneficial Uses By Managing Salinity					
6.19	Outcome		Salinity Management/ Salinity Trends	N/A: New measure	<p>Monitor salinity in the Delta, utilizing extensive existing electrical conductivity and X2 measurement data.</p> <p>Metrics:</p> <ul style="list-style-type: none"> • Daily electrical conductivity meets State Water Resources Control Board standards. • Daily X2 (location 'X' and 2 parts per thousand salinity contour, one meter off the bottom of the estuary, measured in kilometers upstream from the Golden Gate Bridge.)
Strategy 3: Improve Drinking Water Quality					
6.23	Output	WQ-R5	Construct No-Bay Aqueduct AIP	DWR begins constructing the North Bay Aqueduct Alternate Intake Project as soon as possible after the environmental impact report is completed.	<p>Administrative Performance Measure:</p> <p>DWR begins constructing the North Bay Aqueduct Alternate Intake Project as soon as possible after the environmental impact report is completed.</p>
6.28	Output	WQ-R6	Protect groundwater beneficial uses	N/A: New measure	<p>Protect groundwater beneficial uses. Groundwater meets drinking water quality standards in the Delta for levels of nitrate 10ppm NO3-N and arsenic 10ppb As.</p> <p>Metrics:</p> <ul style="list-style-type: none"> • Number of groundwater wells that exceed arsenic and nitrate drinking water limits. • Percentage of population with access to clean drinking water in the Delta.
Strategy 4: Improve Environmental Water Quality					
6.18	Outcome	WQ-R8 WQ-R11 WQ-R12	Meet dissolved oxygen standards	Progress toward consistently meeting applicable DO standards in the Delta by 2020.	<p>Progress toward consistently meeting applicable DO standards in the Delta by 2020 (i.e. Stockton Deep Water Ship Channel, Suisun Marsh, Old and Middle River, and Sacramento Deep Water Ship Channel).</p> <p>Metric: Progress in maintaining or exceeding the minimum DO standards of 5mg/L.</p>
6.20	Output	WQ-R9	Implement Delta Regional Monitoring Program (RMP)	A Delta regional water quality monitoring program is implemented within the first 5 years of the Delta Plan.	<p>Administrative Performance Measure:</p> <p>A Delta regional monitoring program is implemented within the first 5 years of the Delta Plan.</p>

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6.21	Output	WQ-R8	Concentration of pesticides	TMDLs for critical pesticides (i.e., diazinon, chlorpyrifos, and pyrethroids) in the waters and sediments of the Delta are met by 2020.	TMDLs for critical pesticides (i.e., diazinon and chlorpyrifos) in the waters and sediments of the Delta are met by 2020. Metric: Progress in adopting and meeting TMDLs.
6.24	Output	WQ-R8	Reduce inorganic nutrients	Progress toward reducing concentrations of inorganic nutrients (ammonium, nitrate, and phosphate) in Delta waters over the next decade.	Progress toward reducing loads of inorganic nutrients (ammonium, nitrate, and phosphate) in Delta waters over the next decade. Metric: Loads of ammonium, nitrate, and phosphate at key Delta water quality monitoring locations.
6.25	Outcome	WQ-R8	Reduce measureable toxicity	Trends in measurable toxicity from pesticides and other pollutants in Delta water will be downward over the next decade.	Trends in measurable toxicity from pesticides and other pollutants (i.e. herbicides, fungicides and selenium) in Delta water will be downward over the next decade. Metric: Bioindicator toxicity testing using fish and invertebrates.
6.26	Outcome	WQ-R3 WQ-R8	Lessen harmful algal blooms	HABs will lessen in severity and spatial coverage in the Delta over the next decade.	HABs will lessen in their intensity and spatial coverage in the Delta over the next decade, contingent on the development of a comprehensive monitoring program. Metrics: <ul style="list-style-type: none"> • Aerial distribution of microcystis harmful algal blooms (HABs), by acres. • Abundance of microcystis harmful algal blooms (HABs).
6.27	Outcome	WQ-R3 WQ-R8	Lessen nuisance non-native plants	The spatial distribution and productivity of nuisance nonnative aquatic plants will decline over the next decade.	The spatial distribution and coverage of nuisance nonnative aquatic plants will decline over the next decade. Metric: Acreage of invasive aquatic plants (i.e. water hyacinth and others as data becomes available).