

APPENDIX F

Storm Water Resource Plan Criteria and Metrics Checklist

Prepared for:
San Diego Regional Storm Water Copermittee
County of San Diego Department of Public

San Diego Regional Storm Water Resource Plan Checklist Steps 1-3

Section 1. Project Eligibility – Step 1

Complete the following Step 1 Checklist questions to determine project eligibility prior to completing Step 2 and Step 3.

- | | Yes
(Y) | No
(N) | Not Applicable
(n/a) | |
|-----|--------------------------|--------------------------|--------------------------|---|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the project an implementation project? |
| 1a. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If project includes planning activities (CEQA, permitting and design) does the percentage of planning funds being requested of the total project costs meet the grant application requirements (see applicable grant application requirements)? |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the project include stormwater or dry weather runoff water quality improvement (water quality) and/or capture and beneficial use (water supply) as a key element and main benefit? |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the project meet at least 2 or more Main Benefits and as many as feasible Additional Benefits (listed below)? Check all benefits that apply |
| 3a. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Water Quality Benefit– while contributing to compliance with applicable permit and/or Total Maximum Daily Loads requirements.</p> <p><i>Main Benefit:</i> increased filtration and/or treatment of runoff; <i>Additional Benefits:</i> nonpoint source control, re-establish natural water drainage and treatment</p> |
| 3b. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Water Supply Benefit – through groundwater management and/or runoff capture and use.</p> <p><i>Main Benefits:</i> <u>direct water supply and conjunctive use</u> through stormwater and runoff capture and groundwater infiltration to an aquifer that is a source of water supply; dry weather flow diversion to wastewater treatment plant or recycled water treatment plant to augment water supply; capture and delivery to water treatment for irrigation, <i>Additional Benefits:</i> or <u>indirect use</u> through capture and infiltration to groundwater that is not designated as a groundwater aquifer used for water supply and/or water conservation.</p> |

3c. **Flood Management Benefit**

Main Benefit: decrease flood risk by reducing runoff rate and/or volume.

3d. **Environmental Benefit**

Main Benefit: habitat restoration or enhancement, including wetland enhancement/creation and/or riparian enhancement, instream flow improvements and/or increased urban green space; *Additional Benefits:* reduced energy use, reduced greenhouse gas emissions, or providing a carbon sink; reestablishment of the natural hydrograph; and water temperature improvements to improve habitat.

3e. **Community Benefit**

Main Benefits: Employment opportunities and/or public education provided.
Additional Benefits: enhanced and/or created recreational and public use areas and/or; community involvement.

4. Does the project sponsor have an available funding source for its operations and maintenance?

5. Does the project meet the minimum eligibility requirements per the specific grant application under Proposition 1 (see grant-specific application guidelines and requirements)?

If you answered no to questions #1, 2, 3, 4, or 5 the project is not eligible. If all responses are yes, proceed to Steps 2 and 3.

Section 2. Project Metrics and Watershed Prioritization Steps 2 and 3

For the following sections, only respond to questions in the corresponding benefit areas identified in question #2.

Scores shown are awarded with a “yes” answer or, where applicable, provision of the requested data or information. A “no” answer results in no points awarded.

Section 2.1 Water Quality Benefit

Section 2.1.1 Project Metrics – Step 2 (20 Possible Points)

	Y	N	n/a		Scoring
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project increase filtration and/or treatment of runoff (Main Benefit)?	4

If you answered no to #1, skip to the Section 2.2.

2. Does the project address one or more of the constituents covered under a Total Maximum Daily Load (TMDL) and/or listed as a priority water quality condition in the WQIP? 4

See Section 5 for further details.

3. Have estimates of expected pollutant load reductions been calculated? (Points awarded only if quantities provided below.) 2

If you answered yes to #3, enter the estimated load reduction for each constituent as either a concentration-based or mass-based value. Report pollutant load reductions in **lbs./year** or **MPN/yr.** for each high priority and priority water quality conditions or constituents identified in the applicable WQIP. For projects designed to meet the minimum pollutant removal requirements under the MS4 Permit using the 85th percentile design storm event, the metric for load reduction can be reported as **lbs/design storm event** or **MPN/design storm event.** (see worksheet in Appendix G):

4. Does the project reduce stormwater runoff volume through increased infiltration, filtration and evapotranspiration in order to restore natural hydrology? 4

If you answered no to #4, skip to #6

5. Have estimates of the reduction of stormwater runoff through infiltration, filtration, and evapotranspiration been calculated? (Points awarded only if quantities provided below.) 2

If you answered yes to #5, enter the estimated change to overland flow, groundwater recharge and infiltration, interflow, and/or evapotranspiration here. Report storm water runoff volume reductions in **gallons/year.** (see worksheet in Appendix G):

6. Does the project restore natural stream and riparian corridor function by a) restoring natural coarse fraction sediment delivery or, b) restoring natural hydrology through increased subsurface residence time in subsurface soils? 2

If you answered no to #6, skip to Section 2.1.2.

7. Have estimates of the (a) changes to coarse sediment delivery or (b) increased subsurface soil residence time been calculated? (Points awarded only if quantities provided below.) 2

If you answered yes to #7a and #7b, enter the estimated change here. Report changes to subsurface flow residence time as the **percent increase in lag time between rainfall and peak stormwater outflow from a BMP during the 85th percentile rainfall event.** (see worksheet in Appendix G):

Subtotal Score _____

Section 2.1.2 Watershed Prioritization – Step 3 (20 Possible Points)

	Y	N	n/a		
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the project been identified and assessed as a strategy associated with high priority water quality conditions in the most current, applicable WQIP that has been listed as a key strategy to meet a defined interim and/or final water quality goal?	
				See Section 5 for further details. Provide location of Project and reference to applicable WQIP section that specifically references the strategy associated with achieving an interim and/or final highest priority water quality condition in the most current WQIP.	10
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the project located in a high priority drainage area of the watershed based on priority water quality assessment and high pollutant-loading potential? Provide location of project on high priority water quality drainage areas associated with achieving defined interim and/or final highest priority water quality conditions in the most current WQIP. (Maps provided in Appendix G.)	10
Subtotal Score					_____

Section 2.2 Water Supply Benefit

Section 2.2.1 Project Metrics – Step 2 (20 Possible Points) (Bonus Points available under this Benefit)

	Y	N	n/a		Scoring
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project capture storm water and/or dry weather runoff for direct uses (Main Benefit)?	5
If you answered no to #10, skip to #17					
The following direct use options under #11, #13 and #15 each provide a total of 20 points including #10. Bonus points are available if the project provides for more than one direct-use option.					
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project collect, store, and divert stormwater and/or dry weather flows to a wastewater or water treatment facility for potable or recycled use (Main Benefit)?	10
If you answered no to #11, skip to #13.					
12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the applicant have a written agreement with the appropriate agency to divert stormwater and/or dry weather runoff to a facility and have flows been estimated? (Points awarded only if quantities provided below.)	5

If you answered yes to #12, enter the volume diverted in acre-feet per year (AF/yr) here and attach the agreements (see worksheet in Appendix G):

13. Does the project collect, store, and divert stormwater and/or dry weather flows to be used as irrigation on-site, at a park, for habitat restoration, and/or for a natural treatment system (**Main Benefit**) and/or reduce the use of potable water for irrigation through quantifiable water conservation measures? 10

If you answered no to #13, skip to #15

14. Has the volume of storm water and/or dry weather runoff that will be collected, stored, and used beneficially and/or the amount of potable water conserved from reduced irrigation use been calculated? (Points awarded only if quantities provided below.) 5

See Section 5 for additional information.

If you answered yes to #14, enter the volume here. Report storm water and/or dry weather flow runoff volume diverted, stored and then used beneficially and/or conserved in **AF/yr** (see worksheet in Appendix G):

15. Does the project infiltrate storm water and/or dry weather runoff to a groundwater aquifer that is a source of local water (**Main Benefit**)? 10

If you answered no to #15, skip to #17

16. Has the volume of storm water and/or dry weather runoff that will be infiltrated to a direct-use basin been calculated? (Points awarded only if quantities provided below.) 5

If you answered yes to #16, enter the volume here in **AF/yr** (see worksheet in Appendix G):

17. Does the project capture storm water and/or dry weather runoff for indirect use (infiltration to groundwater not used as water source)? 5

If you answered no to #17, skip to Section 2.2.2.

18. Has the volume of storm water or dry weather runoff captured, stored and then infiltrated to a non-direct-use basin been calculated? (Points awarded only if quantities provided below.) 5

If you answered yes to #18, enter the infiltration volume here in **AF/yr** (see worksheet in Appendix G):

Subtotal Score _____

2.2.2 Watershed Prioritization– Step 3 (20 Possible Points)

	Y	N	n/a		Scoring
19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the project been identified and assessed as a water supply/conservation project opportunity on a watershed basis in Section 5 or in a watershed-based plan, and prioritized based on the quantification of the benefits achieved in AF/yr?	20

Subtotal Score _____

Section 2.3 Flood Management Benefit

Section 2.3.1 Project Metrics – Step 2 (20 Possible Points)

	Y	N	n/a		Scoring
20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project decrease flood risk by reducing runoff rate and/or volume (Main Benefit)?	5

If you answered no to #20, skip to Section 2.4.

21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the reduction of peak flows and duration of peak flows been determined for the project?	5
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If you answered yes to #21, enter the percent reduction of peak flows and duration here (see worksheet in Appendix G):

22.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the volume of storm water runoff that will be infiltrated as part of the project been calculated? (Points awarded only if quantities provided below.)	5
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If you answered yes to #22, enter the volume here. Report storm water runoff volume reductions in **gallons/year** (see worksheet in Appendix G):

23.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the volume of storm water runoff that will be reduced as part of the project been calculated? (Points awarded only if quantities provided below.)	5
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If you answered yes to #23, enter the maximum stored volume here. Report storm water runoff volume reductions in **gallons/year** (see worksheet in Appendix G):

Subtotal Score _____

Section 2.3.2 Watershed Prioritization – Step 3 (20 Possible Points)

	Y	N	n/a		
24.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the project been identified and assessed as a priority project to reduce flood risk in a watershed flood management plan, a master plan, or another watershed-based plan?	20 – high priority 10 – listed and ranked

See Section 5 for further details.

If yes, provide plan reference and location of project with regard to flood risk management priority.

Section 2.4 Environmental Benefit

Section 2.4.1 Project Metrics – Step 2 (20 Possible Points)

Y	N	n/a		Scoring	
25.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project create or enhance wetland and/or riparian habitat (<i>Main Benefit</i>)?	4
If you answered no to #25, skip to #27.					
26.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the area of habitat created or protected been calculated for the project?	1
If you answered yes to #26, enter the area here:					
27.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project reestablish the natural hydrograph (e.g. delay the timing of the peak flow or reduce the volume of the peak flow) (<i>Main Benefit</i>)?	3
If you answered no to #27, skip to #30.					
28.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the change in timing of the peak flow been calculated? (Points awarded only if quantities provided below.)	1
If you answered yes to #28, enter the change in time here. Report reductions in percent of peak flow and peak flow duration for design storm event and 10 year storm event (if different than design storm). (see worksheet in Appendix G):					
29.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the reduction in flow been calculated? (Points awarded only if quantities provided below.)	1
If you answered yes to #29, enter the reduction in flow here. Report reductions in percent of peak flow and peak flow duration for design storm event and 10 year storm event (if different than design storm). (see worksheet in Appendix G):					
30.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project improve water temperatures for the benefit of habitats?	1
If you answered no to #30, skip to #31.					
31.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the change in water temperature been calculated? (Points awarded only if quantities provided below.)	1
If you answered yes to #31, enter the change in temperature here:					
32.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project reduce energy use, reduce GHG emissions, or increase carbon sinks?	2
If you answered no to #32, skip to #34.					

33. Has the reduction in energy use or GHG emissions or the increase in carbon sinks been calculated? (Points awarded only if quantities provided below.) 1

If you answered yes to #33, enter the value for each change here (see worksheet in Appendix G):

34. Does the project increase urban green space (*Main Benefit*)? 4

If you answered no to #34, skip to Section 2.4.2.

35. Has the area of urban green space been calculated for the project? (Points awarded only if quantities provided below.) 1

If you answered yes to #35, enter the area here:

Subtotal Score _____

2.4.2 Watershed Prioritization – Step 3 (20 Possible Points)

	Y	N	n/a		Scoring
36.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the project been identified and assessed in a regional or watershed habitat conservation, restoration, watershed management, urban greening and/or other watershed-based plan? (See Appendix G for further details)	20 – high priority 10 – listed and ranked

If yes, provide plan reference and location of project with regard to habitat restoration and enhancement priorities

Subtotal Score _____

Section 2.5 Community Benefit

Section 2.5.1 Project Metrics – Step 2 (20 Possible Points)

	Y	N	n/a		Scoring
37.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the project enhance and/or create recreational and public use areas (<i>Main Benefit</i>)?	4

If you answered no to #37, skip to #39.

38. Has the area of created recreational and public use areas been calculated? (Points awarded only if quantities provided below.) 2

If you answered yes to #38, enter the area here:

39. Does the project include community involvement? 3

If you answered no to #39, skip to #41.

40. Has the number of community members involved in the project been calculated? 1
 (Points awarded only if quantities provided below.)

If you answered yes to #40, enter the number of community members here:

41. Does the project provide employment opportunities (*Main Benefit*)? 4

If you answered no to #41, skip to #43.

42. Has the number of jobs created by the project been calculated? 2

If you answered yes to #42, enter the number of jobs here:

43. Does the project provide public education opportunities (*Main Benefit*)? 3

If your answer is no, skip to Section 2.5.2.

44. Have surveys been conducted or planned to obtain data on awareness of community actions that will help meet project goals (e.g. water conservation, water quality, etc.)? 1

Subtotal Score _____

2.5.2 Watershed Prioritization – Step 3 (20 Possible Points)

	Y	N	n/a		Scoring
45.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the project been identified and assessed as a priority project in a community, recreational, education, development, active transportation, job opportunity plan and/or the County’s 5-Year Operational Plan and/or another watershed-based plan? (See Appendix G for further details)	10 – high priority 5 – listed and ranked
46.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the project located in a disadvantaged community? (See Appendix G for further details.)	10

If yes, provide reference to the plan and specific identification of the project in a priority assessment

Subtotal Score _____

**TOTAL
SCORE** _____