

Minimum Submittal Requirements
For
Hydromodification Management Studies
Using Continuous Simulation Modeling Software
Other than San Diego BMP Sizing Calculator

October 7, 2011

General Note: The report should be a stand-alone report.

Preliminary Design	
	Project description
	Vicinity map
	Hydromodification management description
	Identify the software, including version and release date that was used to perform the continuous simulation modeling.
	Maintenance entity for proposed hydromodification management BMPs. Reference project's SWMP in the text.
	A geotechnical assessment must be prepared by an appropriately licensed professional if infiltration is proposed. The assessment shall be appropriate to the level of design. For preliminary design, the following geotechnical input for Hydromodification Management Studies shall be included: <ul style="list-style-type: none"> • Description of site soils • Discussion of the feasibility of infiltration at the site • Recommendation of areas where on-site infiltration may be feasible, considering expected depth to groundwater, potential for lateral migration, and proximity of existing or proposed slopes, structures, roadways, wells, or other sensitive features • Preliminary infiltration rates for areas where on-site infiltration may be feasible
	Description of how the drainage analysis meets the requirements of the Final Hydromodification Management Plan (HMP), dated March 2011, available at: www.projectcleanwater.org/html/wg_susmp.html .
	Pre-project and post-project HMP exhibits at a legible scale, shall include drainage area delineated with area annotated and point of compliance (POC) locations. The post-project HMP exhibit shall include proposed hydromodification management BMP locations. Topography shall be included on these exhibits.
	Tabular summary of pre-project and post-project condition drainage subbasin areas and pervious/impervious land parameters along with supporting backup exhibits (e.g., soil, land use, and slope) overlaid with overall HMP and DMA boundaries.
	Geomorphic assessment is required if low flow threshold of $0.3Q_2$ or $0.5Q_2$ is proposed.
	Description and a tabular summary of proposed hydromodification management BMPs
	Drawdown calculations for proposed hydromodification management BMPs and a discussion within the report. A vector control plan shall be included if any of the proposed hydromodification management BMPs drawdown time exceeds 96 hours.
	CD or DVD containing rainfall data*, continuous simulation model executable input files and output, and external processing files when applicable (e.g., external flow frequency calculations)
	*rainfall data can be downloaded from: www.projectcleanwater.org/html/wg_susmp.html .

Final Design	
	Project description
	Vicinity map
	Hydromodification management description
	Identify the software, including version and release date that was used to perform the continuous simulation modeling.
	Maintenance entity for proposed hydromodification management BMPs. Reference project's SWMP in the text.
	<p>A geotechnical assessment must be prepared by an appropriately licensed professional if infiltration is proposed. The assessment shall be appropriate to the level of design. For final design, the following geotechnical input for Hydromodification Management Studies shall be included in addition to all requirements for preliminary design:</p> <p>When infiltration is proposed as part of proposed hydromodification management BMPs, provide:</p> <ul style="list-style-type: none"> • Depth to groundwater at each location where infiltration is proposed • Design infiltration rates and justification of the rates for each location where infiltration is proposed <p>When infiltration is not proposed, provide:</p> <ul style="list-style-type: none"> • Explanation of site conditions that preclude infiltration • Recommendations for subdrains and/or liners and/or other design elements to be incorporated in the design of the proposed hydromodification management BMPs
	Description of how the drainage analysis meets the requirements of the Final Hydromodification Management Plan (HMP), dated March 2011, available at: www.projectcleanwater.org/html/wg_susmp.html .
	Pre-project and post-project HMP exhibits at a legible scale, shall include drainage area delineated with area annotated and point of compliance (POC) locations. The post-project HMP exhibit shall include proposed hydromodification management BMP locations. Topography shall be included on these exhibits.
	Tabular summary of pre-project and post-project condition drainage subbasin areas and pervious/impervious land parameters along with supporting backup exhibits (e.g., soil, land use, and slope) overlaid with overall HMP and DMA boundaries.
	Geomorphic assessment is required if low flow threshold of $0.3Q_2$ or $0.5Q_2$ is proposed.
	Description and a tabular summary of proposed hydromodification management BMPs
	Drawdown calculations for proposed hydromodification management BMPs and a discussion within the report. A vector control plan (approved by San Diego County Vector Control Program) shall be included if any of the proposed hydromodification management BMPs drawdown time exceeds 96 hours.
	<p>CD or DVD containing rainfall data*, continuous simulation model executable input files and output, and external processing files when applicable (e.g., external flow frequency calculations)</p> <p>*rainfall data can be downloaded from: www.projectcleanwater.org/html/wg_susmp.html.</p>
	Final design submittals to include construction drawings, design details, all pertinent dimensions/elevations and calculations to demonstrate that the configuration of the final proposed hydromodification management BMPs are the same or equivalent to those modeled (e.g., volume, orifice sizing, etc.).