

2 -1	Drainage Study	Provide revised Drainage Study. The SWQMP Report Attachment 6 refers to CEQA Drainage Study for the project. Please provide		
2 -2	Drainage Study	Submit Preliminary Drainage Study. San Diego County Hydrology Manual: http://www.sandiegocounty.gov/content/sdc/dpw/flood/hydrologymanual.html San Diego County Hydraulic Design Manual: http://www.sandiegocounty.gov/content/dam/sdc/dpw/FLOOD_CONTROL/floodcontrolpdf/hydraulic_design_manual_2014.pdf		
2 -3	Drainage Study	For Preliminary Drainage study format, please visit a San Diego County Hydrology Manual, Section 1.6, page 1-21 http://www.sandiegocounty.gov/content/sdc/dpw/flood/hydrologymanual.html In addition to the guideline, the study shall include the following but not limited to:		
2 -4	Drainage Study	Provide DECLARATION OF RESPONSIBLE CHARGE – See San Diego County Hydrology Manual, Figure 1-9. DRC needs to be signed and stamped by the engineer or record.		
2 -5	Drainage Study	The final CEQA Drainage report shall be signed, stamped and dated by the responsible Registered Civil Engineer.		
2 -6	Drainage Study	In the narrative of the report please provide a summary table of: pre- and post- development C, Tc, I, A, V100, Q100 without mitigation and Q100 with mitigation for each area (or point) where drainage discharges from the project. Peak runoff rates (cfs), velocities (fps) and identification of all erosive velocities (at all points of discharge) calculations for pre-development and post-development. The comparisons should be made about the same discharge points for each drainage basin affecting the site and adjacent properties.		
2 -7	Drainage Study	Summary/Conclusion: Please discuss whether or not the proposed project would substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?		
2 -8	Drainage Study	Discuss whether or not the proposed project would substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? Provide reasons and mitigations proposed.		
2 -9	Drainage Study	Discuss whether or not the proposed project would create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems? Provide reasons and mitigations proposed.		
2 -10	Drainage Study	Discuss whether or not the proposed project would place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map, including County Floodplain Maps? Provide reasons and mitigations proposed.		
2 -11	Drainage Study	Discuss whether or not the proposed project would place structures within a 100-year flood hazard area which would impede or redirect flood flows?		

2 -12	Drainage Study	Provide existing and proposed Hydrology Maps for each phase. The maps shall show existing and proposed culverts, discharge point with A & Q, flow path direction for each drainage basin. Show lines of inundation of the 100-year flood for a drainage basins over 25 acres. A minimum map size is 11"x17".		
2 -13	Drainage Study	Provide Hydrologic Soil Group Map.		
2 -14	Drainage Study	Provide Rainfall Isopluvials for 100 Year Rainfall Event - 6 Hours and 24 Hours Maps.		
2 -15	Drainage Study	Provide Intensity-Duration Design Chart-Figure 3-1.		
2 -16	Drainage Study	Provide runoff coefficients for urban areas-Table 3-1.		
2 -17	Drainage Study	Provide Rationa Formula for Overland Time of Flow Nomograph Figure 3-3		
2 -18	Drainage Study	Provide Nomograph for Determination of Tc Figure 3-4		
2 -19	Drainage Study	Provide Computation of Effective Slope for Natural Watersheds Figure 3-5		