

Weighted E Method										
Basin	Area (sf)	Area (acres)	Treatment A				Treatment B			
			% I (acres)	% I (acres)	% I (acres)	% I (acres)	% I (acres)	% I (acres)	% I (acres)	% I (acres)
existing	15400.00	0.354	80%	0.2832	20%	0.071	0%	0	0%	0.000
ALLOWED	15400.00	0.354	0%	0	10%	0.035	40%	0.14141	50%	0.177
PROPOSED	15400.00	0.354	0%	0	23%	0.081	38%	0.13434	39%	0.138
COMPARISON										
total										

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm-zone 1

Ea= 0.44
Eb= 0.67
Ec= 0.99
Ed= 1.97

Qa= 1.29
Qb= 2.03
Qc= 2.87
Qd= 4.37

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY INCREASE IN FLOW	170	1398

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. This site is located within basin 204 and 207. The site drain to the adjacent lot per the master drainage plan. We are ponding the increase in flow generated by the development of this site, allowing upland flow to pass thru. This plan has a shallow water harvest pond per the new city drainage req. This plan is in conformance to the masterplan



