

Llangybi (SE) WwTW

discharge

river

pollutant

mean upstream river flow

the 95-percentile low flow

mean discharge flow

standard deviation

mean u/s river quality (241 - 759)

standard deviation (319 - 669)

number of samples

mean discharge quality (637 - 1363)

standard deviation (455 - 945)

number of samples

the 95-percentile (1602 - 4609)

the 99-percentile (2273 - 8724)

the 99.5-percentile (2575 - 11055)

correlation: river and discharge flow

downstream target

mean

calculate required discharge quality

calculate impact of input discharge quality

MASS BALANCE: Monte Carlo

Calculations: 08 May 2025 at 09:04

mean d/s river quality	1000	(578 - 1422)
standard deviation	815	(529 - 1100)
number of samples	12	

required discharge mean	2489690	(1595562 - 338381)
standard deviation	1724693	(1119873 - 232951)
number of samples	12	
the 95-percentile	5773951	(4022543 - 113871)
the 99-percentile	8957730	(5804313 - 215335)
the 99.5-percentile	10219010	(6322164 - 269596)

correlation: river flow and quality

correlation: discharge flow and quality