

Talybont On Usk WwTW (Permit Number: AD0001701)

Iron

Tony Warn ... (Version 6.0) ... 14/10/20

discharge Talybont on Usk

river

pollutant Iron

mean upstream river flow 1648

the 95-percentile low flow 246

mean discharge flow 1.29

standard deviation 0.42

mean u/s river quality 500 (241 - 759)

standard deviation 500 (319 - 669)

number of samples 12

mean discharge quality 1000 (637 - 1363)

standard deviation 700 (455 - 945)

number of samples 12

the 95-percentile 2315 (1602 - 4609)

the 99-percentile 3560 (2273 - 8724)

the 99.5-percentile 4167 (2575 - 11055)

downstream target 1000.0

mean M

☒ calculate required discharge quality

☐ calculate impact of input discharge quality

mean d/s river quality 1000 (586 - 1414)

standard deviation 799 (519 - 1080)

number of samples 12

required discharge mean 327934 (210163 - 445706)

standard deviation 227171 (147506 - 306836)

number of samples 12

the 95-percentile 760527 (529837 - 1499884)

the 99-percentile 1179884 (764527 - 2836322)

the 99.5-percentile 1346017 (832738 - 3551045)

correlation: river and discharge flow 0.6000

correlation: river flow and quality 0.0000

correlation: discharge flow and quality 0.0000

INT

NPD

MASS BA

Calculations:

send

Excel

Aluminium

Tony Warn ... (Version 6.0) ... 14/10/20

discharge Talybont on Usk

river pH >6, any hardness

pollutant Aluminium (MAC)

mean upstream river flow 1648

the 95-percentile low flow 246

mean discharge flow 1.29

standard deviation 0.42

mean u/s river quality 180 (86.7 - 273)

standard deviation 180 (115 - 241)

number of samples 12

the 95-percentile 488 (296 - 1228)

mean discharge quality 432 (275 - 589)

standard deviation 302 (196 - 408)

number of samples 12

the 95-percentile 999 (692 - 1988)

the 99-percentile 1536 (981 - 3761)

the 99.5-percentile 1798 (1111 - 4764)

downstream target 1000.0

corresponding percentile 95

☒ calculate required discharge quality

☐ calculate impact of input discharge quality

mean d/s river quality 397 (229 - 566)

standard deviation 325 (211 - 439)

number of samples 12

the 95-percentile 1000 (660 - 2181)

required discharge mean 142595 (91451 - 193740)

standard deviation 98654 (64058 - 133250)

number of samples 12

the 95-percentile 330467 (230313 - 651272)

the 99-percentile 512442 (332189 - 1230742)

the 99.5-percentile 584512 (361798 - 1540492)

correlation: river and discharge flow 0.6000

correlation: river flow and quality 0.0000

correlation: discharge flow and quality 0.0000

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Calculations:

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