RPSG – WHITE BOARD DISCUSSION 19TH MARCH 2015

CONCENTRATIONS (rather than tonnes per annum) except for micro-organisms Concentrations in mg/L = gm/m³ = approximately = parts per million (ppm)

Option as per shortlist for water discharge ⊏> Contaminants ↓	Current WWTP Treated Waster Discharges	1 UV+ Alum dosing for phosphorus removal plus flow balancing. BASE	2A BASE CASE + Disk Filter	2B BASE CASE + Sand Filter	2C BASE CASE + Membrane Filter	3A BASE CASE + De- Nitrification Filters	3B Carbon Bed & Filters
Suspended Bardenpho Solids MBR (SS = TSS) Combine	23 1 16	CASE 12	10	5	0	Approx. 5	6-10?
Total Bardenpho Nitrogen MBR (TN) Combine	6.2 2.8 <u>∼</u> 5.0	4.0?	4.8	4.6	4.4	2.4	3.7
Total Bardenpho Phosphorous MBR (TP) Combine	3.3 2.0 2.9	0.72	0.37	0.23	0.18	0.18	0.2
Microrganisms E Coli Combine (MPN/100ml sample) Most Probably Number Faecal Coliforms	4300	Say 80 To 800 Dependant on UV Dose etc Say 100-1000 <u>Mott M</u>	⇒ ditto →	-> ditto ⊥	May not need UV but virus question	_> ditto	⇒ ditto
Combined treated wastewa of 2/3 Bardenpho and 1/3 N	decide ed on eiving ironment	Information – ex Mott Macdonald Report Dec 2014 NB – always some variation in Biological Treatment Performance					