



	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S3		
Sampling date	19.06.2019		
Location ID	Birtley WWTP		
Sample description	Upstream of River Team		
Sample Source	Surface water		
Label	SW		
Latitude	54.9028		
Longitude	-1.59422		
Sea Level (mAOD)			
Depth below ground (m)			
pH	8.27		
Temp (degC)			
Salinity (ppm)	393		
TDS (mg/l)	570		
Conductivity (uS)	814		
Alkalinity (mg/L CaCO3)	120		
Faecal Coliforms (count/100ml)	6200	0	Y
Aluminium (mg/l)	0.019	0.2	N

Ammonium (mg/l)	0.500	<i>Not of health concerns at levels found in drinking water</i>	N
Antimony (mg/l)	0.003	0.02	N
Arsenic (mg/l)	0.000	0.01	N
Barium (mg/l)	0.061	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	70.503	100-300	N
Chloride (mg/l)	94.856	250	N
Chromium (mg/l)	0.000	0.05	N
Copper (mg/l)	0.003	2	N
Fluoride (mg/l)	0.471	1.5	N
Iron (mg/l)	0.045	2	N
Lead (mg/l)	0.000	0.01	N
Magnesium (mg/l)	19.778	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.093	0.4	N
Nickel (mg/l)	0.004	0.07	N
Nitrate (mg/l) (HACH)	23.107	50	N
Nitrate.1 (mg/l) (Ion Chrom)	25.883	50	N
Nitrite (mg/l) (HACH)	0.374	3	N
Nitrite.1 (mg/l) (Ion Chrom)	1.083	3	N
Phosphate (mg/l)	0.699	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	10.035	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)		<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	69.341	200	N
Strontium (mg/l)	0.253	4	N

Sulphate (mg/l)	28.401	500	N
Zinc (mg/l)	0.028	<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)	32.760		
TIC (mg/l)	25.850		
UV abs 200 (cm-1)	2.861		
UV abs 210 (cm-1)	2.744		
UV abs 220 (cm-1)	1.443		
UV abs 230 (cm-1)	0.478		
UV abs 254 (cm-1)	0.148		
UV abs 260 (cm-1)	0.130		
UV abs 280 (cm-1)	0.099		
UV abs 300 (cm-1)	0.072		
Total Coliforms (total count)	14100		
Putative Pathogens - Human E.coli (total count)			
Putative Pathogens - Total E.coli (total count)			
Putative Pathogens - Total Coliform (total count)			
Total Bacteria (total count)			
Enterococci (count/100ml)	1400		
Contaminants	High faecal coliform count;		
Health Effects	Faecal contamination can lead to vomiting and diarrhoea. Pathogens such as E coli, hepatitis and salmonella can cause severe health effects ;		

Treatments	Faecal treatment - Heat water to a rolling boil and then allow to cool naturally, chemical disinfection, coagulation, distillation, reverse osmosis, slow sand filtration or solar disinfection;		
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