

	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S2		
Sampling date	19.06.2019		
Location ID	Birtley WWTP		
Sample description	Upstream of Rowletch Burn		
Sample Source	Surface water		
Label	SW		
Latitude	54.89195		
Longitude	-1.58414		
Sea Level (mAOD)			
Depth below ground (m)			
рН	7.72		
Temp (degC)			
Salinity (ppm)	276		
TDS (mg/l)	394		
Conductivity (uS)	570		
Alkalinity (mg/L CaCO3)	118		
Faecal Coliforms (count/100ml)	23700	0	Υ
Aluminium (mg/l)	0.018	0.2	N

Ammonium (mg/l)	0.789	Not of health concerns at levels found in drinking water	N
Antimony (mg/l)	0.016	0.02	N
Arsenic (mg/l)	0.000	0.01	N
Barium (mg/l)	0.044	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	52.027	100-300	N
Chloride (mg/l)	68.712	250	N
Chromium (mg/l)	0.000	0.05	N
Copper (mg/l)	0.006	2	N
Fluoride (mg/l)	0.264	1.5	N
Iron (mg/l)	0.052	2	N
Lead (mg/l)	0.000	0.01	N
Magnesium (mg/l)	10.988	Not of health concerns at levels found in drinking water	N
Manganese (mg/l)	0.000	0.4	N
Nickel (mg/l)	0.002	0.07	N
Nitrate (mg/l) (HACH)	7.392	50	N
Nitrate.1 (mg/l) (Ion Chrom)	7.670	50	N
Nitrite (mg/l) (HACH)	0.361	3	N
Nitrite.1 (mg/l) (lon Chrom)	0.912	3	N
Phosphate (mg/l)	0.787	Not of health concerns at levels found in drinking water	N
Potassium (mg/l)	6.204	Not of health concerns at levels found in drinking water	N
Silicon (mg/l)		Not of health concerns at levels found in drinking water	N
Sodium (mg/l)	44.369	200	N
Strontium (mg/l)	0.198	4	N

Sulphate (mg/l)	20.625	500	N
Zinc (mg/l)	0.084	Not of health concerns at levels found in drinking water	N
TOC (mg/l)	47.630		
TIC (mg/l)	21.700		
UV abs 200 (cm-1)	1.513		
UV abs 210 (cm-1)	1.149		
UV abs 220 (cm-1)	0.660		
UV abs 230 (cm-1)	0.348		
UV abs 254 (cm-1)	0.194		
UV abs 260 (cm-1)	0.169		
UV abs 280 (cm-1)	0.123		
UV abs 300 (cm-1)	0.085		
Total Coliforms (total count)	47200		
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)	7800		
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;		

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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