



	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S2_2019		
Sampling date	14.03.2019		
Location ID	Birtley WWTP		
Sample description	Minewater		
Sample Source	Groundwater (Mine)		
Label	GW		
Latitude	54.90472		
Longitude	-1.6021		
Sea Level (mAOD)			
Depth below ground (m)	0		
pH	6.91		
Temp (degC)	13.6		
Salinity (ppm)	1720		
TDS (mg/l)	2300		
Conductivity (uS)	3290		
Alkalinity (mg/L CaCO3)	595		
Faecal Coliforms (count/100ml)	0	0	N
Aluminium (mg/l)	0.005	0.2	N

Ammonium (mg/l)	0.018	<i>Not of health concerns at levels found in drinking water</i>	N
Antimony (mg/l)	0.005	0.02	N
Arsenic (mg/l)	0.005	0.01	N
Barium (mg/l)	0.005	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	21.622	100-300	N
Chloride (mg/l)	370.955	250	Y
Chromium (mg/l)	0.001	0.05	N
Copper (mg/l)	0.001	2	N
Fluoride (mg/l)	0.241	1.5	N
Iron (mg/l)	0.542	2	N
Lead (mg/l)	0.001	0.01	N
Magnesium (mg/l)	8.368	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.141	0.4	N
Nickel (mg/l)	0.002	0.07	N
Nitrate (mg/l) (HACH)	1.000	50	N
Nitrate.1 (mg/l) (Ion Chrom)		50	N
Nitrite (mg/l) (HACH)	0.050	3	N
Nitrite.1 (mg/l) (Ion Chrom)		3	N
Phosphate (mg/l)	1.453	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	2.378	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)	0.595	<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	35.209	200	N
Strontium (mg/l)	0.308	4	N

Sulphate (mg/l)	0.001	500	N
Zinc (mg/l)	0.003	<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)	12.385		
TIC (mg/l)	72.595		
UV abs 200 (cm-1)	0.698		
UV abs 210 (cm-1)	0.174		
UV abs 220 (cm-1)	0.109		
UV abs 230 (cm-1)	0.098		
UV abs 254 (cm-1)	0.092		
UV abs 260 (cm-1)	0.091		
UV abs 280 (cm-1)	0.088		
UV abs 300 (cm-1)	0.086		
Total Coliforms (total count)	0		
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)			
Contaminants	High chloride level;		
Health Effects	High Chloride levels may cause taste to be affected;		

Treatments	Chloride can be reduced using reverse osmosis, distillation or ion exchange;		
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