	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S28_2018		
Sampling date	06.05.2018		
Location ID	Cockle Park Farm		
Sample description	K - Borehole, 35m from H and 150m deep		
Sample Source	Borehole - Groundwater		
Label	BH		
Latitude	55.212		
Longitude	-1.6852755		
Sea Level (mAOD)	90.56		
Depth below ground (m)	75		
pH			
Temp (degC)			
Salinity (ppm)			
TDS (mg/l)			
Conductivity (uS)			
Alkalinity (mg/L CaCO3)			
Faecal Coliforms (count/100ml)	22.5	*0*	Y
Aluminium (mg/l)	0.010	*0.2*	N
Ammonium (mg/l)	0.228	*Not of health concerns at levels found in drinking water*	N
Antimony (mg/l)	0.005	*0.02*	N
Arsenic (mg/l)	0.005	*0.01*	N
Barium (mg/l)	0.102	*1.3*	N
Bromide (mg/l)		*6*	N
Cadmium (mg/l)	0.000	*0.003*	N
Calcium (mg/l)	18.258	*100-300*	N
Chloride (mg/l)	25.450	*250*	N
Chromium (mg/l)	0.001	*0.05*	N
Copper (mg/l)	0.002	*2*	N
Fluoride (mg/l)	0.645	*1.5*	N

Iron (mg/l)	0.021	*2*	N
Lead (mg/l)	0.005	*0.01*	N
Magnesium (mg/l)	5.915	*Not of health concerns at levels found in drinking water*	N
Manganese (mg/l)	0.617	*0.4*	Y
Nickel (mg/l)	0.002	*0.07*	N
Nitrate (mg/l) *(HACH)*	25.233	*50*	N
Nitrate.1 (mg/l) *(Ion Chrom)*	27.035	*50*	N
Nitrite (mg/l) *(HACH)*	0.148	*3*	N
Nitrite.1 (mg/l) *(Ion Chrom)*	0.147	*3*	N
Phosphate (mg/l)	0.769	*Not of health concerns at levels found in drinking water*	N
Potassium (mg/l)	4.389	*Not of health concerns at levels found in drinking water*	N
Silicon (mg/l)	4.458	*Not of health concerns at levels found in drinking water*	N
Sodium (mg/l)	99.480	*200*	N
Strontium (mg/l)	0.162	*4*	N
Sulphate (mg/l)	17.996	*500*	N
Zinc (mg/l)	0.009	*Not of health concerns at levels found in drinking water*	N
TOC (mg/l)			
TIC (mg/l)			
UV abs 200 (cm-1)	2.990		
UV abs 210 (cm-1)	2.895		
UV abs 220 (cm-1)	1.443		
UV abs 230 (cm-1)	0.337		
UV abs 254 (cm-1)	0.012		
UV abs 260 (cm-1)	0.011		
UV abs 280 (cm-1)	0.009		
UV abs 300 (cm-1)	0.007		
Total Coliforms (total count)	73.5		

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 faecal coliform count; High manganese level;		
Health Effects	Faecal contamination can lead to vomiting and diarrhoea. Pathogens such as E coli, hepatitis and salmonella can cause severe health effects ; High manganese levels may cause taste to be affected;		
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; Manganese levels can be reduced using aeration or ion exchange;		