

	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S27_2018		
Sampling date	06.05.2018		
Location ID	Cockle Park Farm		
Sample description	I - Borehole, 15m from H and 150m deep		
Sample Source	Borehole - Groundwater		
Label	BH		
Latitude	55.211895		
Longitude	-1.6855571		
Sea Level (mAOD)	91.45		
Depth below ground (m)	151		
pH			
Temp (degC)			
Salinity (ppm)			
TDS (mg/l)			
Conductivity (uS)			
Alkalinity (mg/L CaCO3)			
Faecal Coliforms (count/100ml)	0	0	N
Aluminium (mg/l)	0.010	0.2	N
Ammonium (mg/l)	0.298	<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)	0.126	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	1.100	100-300	N
Chloride (mg/l)	16.808	250	N
Chromium (mg/l)	0.001	0.05	N
Copper (mg/l)	0.001	2	N
Fluoride (mg/l)	1.607	1.5	Y

Iron (mg/l)	0.018	2	N
Lead (mg/l)	0.005	0.01	N
Magnesium (mg/l)	0.339	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.007	0.4	N
Nickel (mg/l)	0.001	0.07	N
Nitrate (mg/l) (HACH)	1.000	50	N
Nitrate.1 (mg/l) (Ion Chrom)	2.069	50	N
Nitrite (mg/l) (HACH)	0.064	3	N
Nitrite.1 (mg/l) (Ion Chrom)	0.054	3	N
Phosphate (mg/l)	1.038	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	2.138	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)	3.601	<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	209.064	200	Y
Strontium (mg/l)	0.024	4	N
Sulphate (mg/l)	1.425	500	N
Zinc (mg/l)	0.002	<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)			
TIC (mg/l)			
UV abs 200 (cm-1)	0.310		
UV abs 210 (cm-1)	0.078		
UV abs 220 (cm-1)	0.029		
UV abs 230 (cm-1)	0.010		
UV abs 254 (cm-1)	0.005		
UV abs 260 (cm-1)	0.005		
UV abs 280 (cm-1)	0.003		
UV abs 300 (cm-1)	0.002		
Total Coliforms (total count)	0		

Putative Pathogens - Human E.coli (total count)			
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Putative Pathogens - Total Coliform (total count)			
Total Bacteria (total count)			
Enterococci (count/100ml)			
Contaminants	High fluoride level; High sodium level;		
Health Effects	High fluoride levels can lead to dental and skeletal fluorosis; High Sodium levels may cause taste to be affected;		
Treatments	Fluoride can be reduced using granular activated carbon; Sodium can be reduced through distillation, ion exchange and reverse osmosis;		