**ENVIRONMENTAL IMPACT ASSESSMENT**

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| **Title** | Legionella |
| **Aspect** | Chilled water in the water systems can generate the legionella virus if not properly treated and monitored. Legionella bacteria develop in water maintained at a high enough temperature to encourage growth with the right conditions for spreading the virus. |
| **Environmental Impact** | Risk of distributing airborne Legionella bacteria to the site and neighbourhood. This can lead to death by legionnaire’s disease, a type of pneumonia.If not properly regulated the cooling towers can culture and distribute the legionella bacteria by water droplets. |
| **Controls Measures** | A programme of microbiological testing and chemical dosing is in place as part of the sites Legionellosis prevention system. This is managed by the site maintenance and engineering team. |
| **Relevant Legislation** | See Register of Relevant Legislation |
| **Significance** | **Frequency****(F)** | **Severity****(S)** | **Impact****(I)** |
| **Normal** | **1** | **1** | **1** |
| **Abnormal** | **1** | **10** | **10** |
| **Emergency** | **1** | **10** | **10** |
| **Frequency (F)** Unlikely (annual) = 1Common (monthly) = 2Frequent (daily/weekly) = 3 | **Severity (S)**Minimal Environmental Impact = 1Low Environmental Impact = 2Moderate Environmental Impact = 3High Environmental Impact = 6Severe Environmental Impact = 10 |
| Environmental Impact (I) = Frequency of Occurrence (F) X Severity (S) |
| Comments / Actions / Further InvestigationsThe Technical and Engineering Managers and the Engineering Department hold safety policies and procedures. Legionella risk assessments are completed for the site on a two yearly basis. |