

pH Control with Effmag 60 is Cleaner, less hazardous, more efficient and is Significantly Cheaper

Clients:

- Sita UK
- Biffa Waste Services
- Barr Environmental Services
- And others



The above picture shows an Efftech pilot plant. This Plant has just completed a successful pH Control trial at Bryn Pica Landfill Site in South Wales. The pilot plant has clearly demonstrated the technical and financial benefits of using Effmag 60.

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Or through the website or email links,

pH Control using Effmag 60:

Effmag has been developed as the environmentally friendly answer to the problems of neutralising acid and controlling pH in wastewater and landfill leachate. Based on Magnesium Hydroxide and formulated as a concentrated suspension, Effmag is a safe, easy to regulate alternative to the more traditional hazardous products such as caustic soda.

Magnesium is also known to have beneficial effects on anaerobic bacteria. In anaerobic conditions the pH level is a key factor in the growth of bacteria. The pH levels must remain between 6.5 and 7.5 for optimum methane formation as most bacteria cannot tolerate a pH level above 9.5 or below 4.0. For this reason Effmag can be introduced into anaerobic digesters in order to neutralise excess acid.

Effmag - Key Features

- Neutralises acidity
- Provide Alkalinity to biological processes such as ammonia nitrification
- Precipitates heavy metals
- Promote good settling characteristics in solids removal
- Cause settled sludges to be thicker and more easily dewatered
- Reduced sludge mass and volume
- No plant scaling
- Controlled, two-step reaction

Effmag - Key Advantages

- Two to six times more concentrated than its liquid competitors
- When dosed gently it reacts with the wastes and provides a high degree of buffering without pH over swing
- Unused Effmag remains in the sludge in biological processes awaiting the requirement for alkali so there is no wastage
- Effmag may be used to control phosphates
- Effmag may be dosed without sophisticated pH control system
- Dosing equipment is simple as the suspension is fully dispersed and does not settle out in pipelines

Efftech Support Services

- Laboratory based effluent investigation, including a report and recommendation
- On-site testing
- Mobile pilot plant available for larger sites