

Site Evaluation Guide

Is the Magnum Spill Buster the Right Choice for Your Site?

-An Evaluation Guide

Of course, we think that our systems are the best at what they do of all the available groundwater remediation technologies out there. Even so, we realize that no one technology is going to always be the best solution for every kind of site condition. Here's what we use to evaluate whether or not we can wholeheartedly recommend the Magnum Spill Buster for a particular application:

1. What is your well diameter?

The Magnum cannot be installed in a well smaller than 2 inches in diameter. If you will need to use water depression, the minimum well diameter required is 4 inches.

2. How deep is the maximum depth to water? The depth to product?

The longest down-well probe we make is 150'. If the product to be removed is an LNAPL- floating on top of the water table – the Magnum is not the right product for wells where the maximum depth to water is greater than 150'. For a DNAPL product- one that is heavier than water- the determining factor is the maximum depth to product: if that is greater than 150' the Magnum would not be recommended.

3. What is it that you need to pump (type of product)?

The Magnum is recommended for most hydrocarbons. If your product contains high levels of the more highly reactive hydrocarbons, such as toluene, we can adapt the materials that will have direct contact with the product to account for that.

Note: The pump used in the Magnum system contains aluminum parts that are potentially reactive with halogenated hydrocarbons.

4. What is the viscosity of the product you need to pump?

We always recommend that a sample be tested directly from the well to determine viscosity – we are glad to send you a drip cup test kit to do this. In general, if your product is more than 12 centipoises in viscosity, we would recommend our new High Viscosity Spill Buster. Depending on your site conditions, there may be times when we have questions about the effective operation of the Magnum with viscosities technically within its range. Some of the conditions that might bear a closer look are things

like a high paraffin content in your product, and shallow depth-to-product in cold weather locations. Where we otherwise have every reason to believe that the Magnum best matches your needs, we will offer you some options for testing a Magnum on your site to ensure it will perform as promised.

5. What are the options for a power source?

The Magnum requires 115 or 230 VAC, 100 watts max, as input power to the control panel. Alternatively, the system can run on 24 VDC with deep discharge batteries. In remote locations we can configure a solar power system to run the Magnum. With these choices, making a power source available to the Magnum is not typically a challenge, but the particulars of each option will impact the cost of your project. We'll evaluate that with you to determine the most economical set-up for your site.