

Parameters for Assessment of Contaminated Landscapes and Waters

We at RainGrow first examine existing data to map and characterize the hydrocarbon plume. Soil samples are then analyzed for a variety of parameters. Potentially restricting factors on the growth and activity of hydrocarbon-consuming microorganisms are identified. We then act to negate, sequester, or eliminate those restrictions. Parameters of interest in this process include:

- Levels and types of hydrocarbons present
- PH
- Hydraulic conductivity
- Moisture content of vadose zone
- Depth to saturated zone
- Porosity and limiting layers
- Levels of nutrient elements
- Types and levels of heavy metals
- Oxidation/Reduction status
- All sources of carbon for microorganisms
- Presence of alternate electron acceptors
- Presence of hydrocarbon degrading organisms