

# Application Brief

- SUBMITTED BY:** Gerald Helms, Eclipse Combustion, Inc. - Chattanooga, TN
- APPLICATION:** Soil Reclamation System. To burn contaminants out of the soil (mainly hydrocarbons) and re-claim for future use or landfill.
- EQUIPMENT INSTALLED:** Direct Fired Vortometric Burners from 12V to 22V. Primary and secondary combustion systems required for each application. On various jobs IRI valve trains are supplied. All controls and flame safeguards were supplied by customer.
- TYPE OF FUEL USED:** Natural Gas. Naptha.
- REQUIREMENTS:** Lowest O<sub>2</sub> possible. Good combustion with short flame length. 600 - 750 °F in primary. 1600 - 1800 ° F in secondary system.
- CHALLENGES:** There were no problems with the burners or valve trains. Some initial pulsation occurred due to unsteady air flows through the system. The customer has since solved these problems.



