

# BIOGENESIS ENTERPRISES, INC.

## PROJECT SNAPSHOT:

**Description:**  
Soil and sediment washing machines

**Engineer:**  
Grunau Metals and BioGenesis Enterprises, Inc.

**Owner:**  
BioGenesis Enterprises, Inc.

**Completed:**  
August 2003



*Grunau Metals helped a manufacturer of industrial cleaning and remediation equipment perfect a soil and sediment washing technique.*

## BRINGING A PROJECT TO LIFE – BIOGENESIS ENTERPRISES, INC.

### PROJECT OVERVIEW

Grunau Metals assisted the industrial cleaning and remediation manufacturer in perfecting a soil and dredged harbor sediment washing technique that removes organic and inorganic contaminants, such as Polynuclear Aromatic Hydrocarbons, Polychlorinated Biphenyls, herbicides, pesticides and heavy metals, from soil and harbor sediment.

### SITUATION

BioGenesis Enterprises, a company that manufactures and provides products and services for industrial cleaning and remediation, had a relatively new soil and sediment washing technique that it was trying to perfect. In 1992, the company's scientists contacted Grunau Metals to build prototypes of the machines from drawings that were developed by an outside engineering firm. The machinery wasn't as successful as BioGenesis had hoped, so in 1999, they again contacted Grunau Metals. This time, they wanted the metals team to build a second generation of the equipment, but with significant improvements. Using the original drawings and equipment, and hand sketches for reference, a Grunau Metals engineer completed new drawings and specifications from which the metals team fabricated new machines. Developing the detailed drawings necessary to fabricate the machinery was especially challenging because the soil and sediment washing technique was a new technology so there were no existing examples or specifications to work from.



*Grunau Metals was instrumental in engineering and fabricating the soil and sediment washing machinery.*

## RESULTS

Communication between the metals team and the client was vital. During the design phase, Grunau Metals continually redeveloped the drawings based on weekly meetings with the client. They succeeded in helping the company create highly efficient and functional machines to do portable, on-site soil and sediment remediation. This machinery has been successfully operated on projects throughout the world and the United States, including in Japan, Italy and New Jersey.

Grunau Metals has developed a unique long-term relationship with BioGenesis that is built on trust and respect. BioGenesis continues to conduct ongoing testing with the soil and sediment washing machines. Grunau Metals incorporates improvements found with each new generation of the equipment, resulting in significant advances in performance and efficiency. Grunau Metals' willingness to work closely with the client and without a clearly defined plan has allowed them to meet the client's objectives by delivering a one-of-a-kind product.



*The equipment that Grunau Metals helped BioGenesis design and build has been used in the United States, Japan and Italy.*

### FROM THE CLIENT'S PERSPECTIVE:

"We chose Grunau Metals because they're not a typical subcontractor. Instead, they are partners in our projects, helping us overcome the challenges and celebrating the successes. That's the kind of cooperation and dedication we need."

*Masood Amiran – BioGenesis Enterprises, Inc.*