MINE TAILINGS DREDGING

Mine tailings are the natural byproduct of raw materials mining. As rocks and minerals are crushed and washed the effluent water carries the dust particles to settling ponds where the material is collected and eventually removed and hauled away for a secondary process or stored for long periods of time. In many cases these byproducts commonly referred to as “fines” or “tailings” have high value (ex. Gold tailings or coal fines) and can be mined again with a hydraulic dredging system and pumped to a dewatering or separation plant for reprocessing.

The Versi-Dredge can be used for clearing tailings ponds and direct feeding dewatering plants with the SolidsMaster cutterhead which can produce a continuous solids feed of 20-25% depending on the material. In addition, the WeedMaster cutterhead can be used to remove cattails and other vegetation which commonly build up on the edges of these ponds.

Case Studies

- IMS DM-55 Dredger Solves Silt Problem at Xacbal Dam
- 7012 HP Versi-Dredge® Launched on Project at Imperial Dam Funded by US Stimulus
South Africa: A Model 7012 HP Versi-Dredge cleans gold tailings from an active mine in South Africa.

Liberia: A Model 7012 HP Versi-Dredge mines gold and diamonds in Liberia.

Sierra Leone: A Model 7012 HP Versi-Dredge cleans tailings from a sludge pond at Sierra Rutiles facility in Sierra Leone.

Ireland: A Model 7012 HP Versi-Dredge cleans out a tailings pond in Ireland.
India: A Model 5012 LP Versi-Dredge cleans out a sump at a lignite mine in East India.