Use Foundry bag-house dust as carbon source to reduce iron oxide in red mud.

Objectives:
- Literature review of past work on red mud & bag-house dust utilization
- Complete elemental, mineralogical & particle size analysis.
- Solid state reduction experiments for feasibility – magnetic separation
- Smelting reduction feasibility – metal-slag separation
- Non-magnetic/Slag analysis for Phase II value recovery
- Current methods attempted for dissolution for ICP analysis
- Lithium Borate
  - Dissolve with 20% Nitric Acid
- Sodium Peroxide
  - Dissolve with 25% HCl
- Current methods attempted for dissolution for ICP analysis
- Lithium Borate
  - Dissolve with 20% Nitric Acid
  - Some precipitates to be filtered using Millipore