

Welcome

Reuse of Solid Mining Waste



Got Mine Waste? Want to find something to do with it?

ITRC has a new guidance, Reuse of Solid Mining Waste, designed to help you determine if there is an appropriate use for solid mining waste. Solid mining waste represents a significant quantity of waste material in the United States and around the world. These materials have a range of physical and chemical properties that make them both potentially valuable and potentially hazardous to human health and the environment.

The ITRC Reuse of Solid Mining Waste training and guidance document is geared towards state regulators and environmental consultants, mining and manufacturing stakeholders, community and tribal stakeholders, and other who have in interest in the potential reuse of solid mining waste.

The guidance includes:

- Introduction to mining wastes
- Considerations for reusing mining waste: waste characterization, economic and market considerations, life cycle and risk assessment, regulatory considerations, & stakeholder considerations
- Potential applications for the reuse of solid mining waste: examples of construction, environmental, and industrial reuses
- Review of technologies used in mineral beneficiation and processing

Additionally, the guidance includes several case studies illustrating a range of current mining waste reuse scenarios.

Check out ITRC's Reuse of Solid Mining Waste guidance!

1. Introduction

- Overview
- Solid Mining Waste
 - Purpose
 - Guidance Organization



2. Mining and Mining Waste

- Statue and Future of the Global Mining Industry
- Common Mined Materials
- Common Types of Mining Waste
- Mining Waste Hazard Reduction
- Potential Radioactivity in Mining Waste



3. Solid Mining Waste Reuse Considerations

- Waste Considerations
 - Economic and Market Considerations
 - Life-Cycle Analysis and Risk Assessment
 - Regulatory Considerations
 - Stakeholder Considerations
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4. Potential Applications for Reuse of Solid Mining Waste

- Construction Uses
- Environmental Uses
- Industrial Uses

5. Technology Review

- Evaluation Criteria
 - Mineral Beneficiation Technologies
 - Mineral Processing Technologies
 - Other Considerations

6. Project Summaries and Case Studies

- Project Summaries
- Case Studies

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