

ERIONITE SAMPLING

Essential Guidelines for Civil Engineering Personnel



CLASS I CARCINOGEN

Higher toxicity than asbestos - WHO Classification

REQUIRED SAMPLING PROTECTION



RESPIRATORY

Approved respiratory protection



GLOVES

Chemical resistant gloves



EYE PROTECTION

Safety glasses and eye wash



SANITATION

Clean or replace PPE after exposure

SAMPLING PLAN REQUIREMENTS

- Design with 2D GPS coordinates using topographic maps
- Select samples of similar color, type, and properties
- Consider depth and spread of deposits (layered formations)
- Base design on risk of locating erionites
- Account for toxicity and likelihood of exposure
- Include disposal and future recycling considerations
- Plan for work safety prior to and during operations

SAMPLING LIFECYCLE MANAGEMENT



PLANNING
Plan plan GPS coordinates



SAMPLING
Sampling with appropriate protection



RECONSING
Document location GPS



NOTIFICATION
Inform stakeholders of results



DISPOSAL
Plan safe disposal per sampling



RAISE AWARENESS

Alert to potential erionite exposure during dusting activities



MINIMIZE EXPOSURE

Eliminate, reduce, and minimize erionite exposure



WORKER SAFETY

Perform work in a manner safe for all workers



PUBLIC PROTECTION

Minimize harm to exposed public and environment

SAMPLING EXPOSURE CONTEXTS

- Survey and geotechnical work
- Cutfill operations for roading projects
- Tunnelling and underground work
- Quarrying and mining activities
- Spoil sampling during transport/logistics
- Material disposal and storage operations
- Any activity where erionite becomes airborne

PCBU SAMPLING RESPONSIBILITIES

PCBUs must manage erionite exposure risks during sampling for:

Workers • Neighbours • Contractors • Public

Health issues may not become evident for several years after exposure

KEY SAMPLING MESSAGES

- **Plan thoroughly.** Design sampling plans with 2D GPS coordinates and topographic mapping.
- **Mitigate exposure.** Use proper PPE and follow safety protocols during sampling activities.
- **Document everything.** Maintain detailed records of locations, depths, and toxicity findings.
- **Notify appropriately.** Inform Project Owner, WorkSafe, and vicinity persons if erionite is found.

SAMPLING OBJECTIVES



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Where to Go for Further Information

► University of Auckland

► WorkSafe Guidelines

► Mitigate Information

✓ EIQ Documentation

Your safety and the safety of your workers is paramount | <https://erionite.blog.auckland.ac.nz/>