

PETROTOMICS SITE  
RADIOLOGICAL SURVEY  
AND  
CLEANUP PLAN

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## 1. RADIOLOGICAL SURVEYS

Radiological surveys using a portable gamma-radiation measurement instrument capable of reading in the micro-R range will be used to survey all areas outside the mill area and tailings pond. The instrument used will be a digital readout utilizing a NaI detector.

A grid pattern of 30 meter centers will be used initially to check for contaminated areas resulting from windblown tailings or ore. The grid pattern will be followed until background levels or mining activities are encountered. Background for the mill site area has been determined to be 25-30 micro-R per hour.

Areas where elevated readings are noted will be sampled for radium 226 content to determine if radium levels are elevated. A correlation between radium content and gamma measurement will be established to expedite cleanup operations.

## 2. CLEANUP

Areas identified as having significant contamination either through gamma measurement or physical soil sampling will be cleaned up using the following procedure:

- A. Contaminated areas will be flagged for cleanup.
- B. The soil will be removed using scrapers by making thin cuts to remove surface contamination.
- C. Areas will be resurveyed to determine compliance.
- D. Contaminated material will be placed in the NRC disposal area.

## 3. AREA OF INVESTIGATION

The NRC disposal area is outlined in Figure 1. Areas outside the disposal area that were contaminated as a result of milling activities will be cleaned up using the procedure outlined in Section 2.

There are some areas which have elevated readings which are the result of mining activities namely the 4-2 Pit area and the Phase 9 Pit area. The 4-2 Pit area will be taken care of during normal reclamation of this area under the DEQ reclamation plan for Mining Permit 342. The Phase 9 Pit area is a special case in that it is a grandfathered pre-law pit and falls under the Abandoned Mine Lands program. It is assumed that the AML program will take care of any contamination in these areas. We will remove and dispose of any contaminated material up to these areas.

4. TIMING

Contamination cleanup will be initiated as soon as possible. The area downwind from the tailings will not be cleaned up until tailings reclamation is begun.

The low grade ore stockpile area south of the county road is not scheduled for complete removal until January 1, 1986. It is proposed that this area and the area east of the ore pad up to the AML lands be cleaned up in the summer of 1986.

Cleanup of remaining areas which do not risk recontamination will commence upon completion of mill demolition.

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