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Date: 10/17/05 1:23PM
Subject: FW: Monitoring Well 111 Criteria-DRAFT0.doc

From: Lavera, Ron
Sent: Monday, October 17, 2005 1:22 PM
To: Leach, Don; Jones, T. R.; Axelson, William L; Quinn, Dennis; Mayer, Don; Peters, James
Subject: Monitoring Well 111 Criteria-DRAFT0.doc

Monitoring Well 111 (MW-111) IP-2 Transformer Yard sample analysis parameter selection criteria.

The water sample from Monitoring Well 111 (MW-111) located in the IP-2 Transformer Yard was analyzed for Tritium, Gross Beta and Gamma Spectroscopy. These parameters were selected for several reasons:

1. Tritium is highly mobile in water/soil combinations, there is little or no interaction of the tritium with soil or water, and thus provides a sensitive indicator of plume extent.
2. Gross beta is a good indicator of total non gamma emitting (such as Sr-90) radionuclide concentration
3. Gamma Spectroscopy is a good indicator of gamma fission product and corrosion product presence.
4. These analytical methods were within the capability of the JAF Environmental Laboratory at the required LLD values.

Following the positive identification of Tritium in MW-111 water, an aliquot from the initial sample volume is being prepared for shipment to an off site vendor for additional analysis for Sr-89/90 and Ni-63. Sr-89/90 was selected based on mobility in soil and identification in FSB dirt samples. Ni-63 was selected based on identification in an FSB Crack water sample.

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