

From: Ted Adams [tgadams01@aol.com]  
Sent: Tuesday, July 24, 2012 1:42 AM  
To: Mike Dimitriou; David Melancon; David Jones; Jim Mueller; Ron Dollar;  
Duane Bollig; Kent Stovall  
Cc: 'Ted Adams'  
Subject: Bass Lake Inspection, Survey and Sampling

Gentlemen,

A quick summary of the trip to Bass Lake:

1. Arrived at the treatment facility around 12:30 pm on Tuesday July 24 and met with Shawn Roope.
2. Performed a general inspection of the treatment building
  - Housekeeping was good
  - System was clean with no leaks or rusting structures/components
  - WRT Emergency Procedure posting (9/30/08) was incorrect and in need of replacement ( Was for Radium instead of Uranium System). Will send correct procedure to Shawn
  - Radioactive Material Labels were not on the Vessels. Placed labels on both vessels. No posting of the larger rad material signage. Will send a posting to Shawn
  - Sock waste container was not present in the well house. It had been moved to a nearby maintenance storage shed due the fact that the container was too large to fit in the well house
  - The container was full of used socks. Exposure rate readings of the outside of the container were indistinguishable from background
  - Dosimetry badges were up and installed in the correct locations. Control badge stored at Shawn's office
  - Notice to Employees posting was up and appeared current (5/09)
3. Performed sampling of the raw, intermediate, and treated water
4. Performed survey of the building interior and exterior and vessels
  - Background is 17 uR/hr outside approximately 20 feet away from the treatment building on stone area
  - Outside (all readings taken approximately 2 feet from building) -Front of building = 18 uR/hr, right side of building opposite Vessel 2= 18- uR/hr, right side opposite Vessel 1- 20-22 uR/hr, back of building = 22-24 uR/hr. Left side of the building closest to Vessel 1 = 90 uR/hr, left side closest to Vessel 2 = 60 uR/hr. (orientation of the vessels is Vessel 2 is in the front of the building and Vessel 1 is in the back of the building)
  - Vessel 1 readings on contact- near bottom = 480 uR/hr, midpoint =460 uR/hr, near top = 370 uR/hr
  - Vessel 2 readings on contact- near bottom 90 uR/hr, midpoint = 130 uR/hr, near top = 150 uR/hr

## 5. Miscellaneous

- Shawn shared with me that the a couple of weeks ago the CA DOH had requested a sample of the raw water be analyzed for Radium. Shawn took the sample and sent in to a lab for analysis. Unfortunately the lab only analyzed the sample for Ra-226. Shawn believes that the combined radium will exceed the 5 pCi/L MCL. The sample is being analyzed for both Ra 226 and 228 and results are pending. Shawn said that he would send the results to us when he gets them from the lab.

- Samples and instruments sent back to WRT via ground Fed X.

I will be preparing the survey/inspection documentation and sending it to Kent for incorporation into the Central files and the P drive.

Take care

Ted