

South River Science Team Human Exposure Pathways Evaluation

Activities Update
January 21, 2009

Human Exposure Evaluation

The key objectives:

- **better identify potential exposure,**
- **define potential risks and uncertainties,**
- **communicate information to the public.**

Human Exposure Evaluation

Exposure scenarios to be evaluated

- Fish Consumption
- Recreational Use of River
- Contact with soils on the floodplain
- Potential Drinking Water exposures
- Potential dietary exposures
 - Domestic consumption, e.g., Garden crops, Beef, Poultry
 - Hunting consumption, e.g., waterfowl, small game

Communicating to public on these issues

Human Exposure Activities

- Fact Sheet (s)
 - Lay document summary of “what we know, what we don’t know and what we are doing about it”
 - Expert Panel paper used as basis
 - Mock layouts in review
 - Propose Fact Sheet 1: General Introduction
 - Propose Fact Sheet 2: Exposure Summary
 - Other Fact Sheets as warranted

Human Exposure Evaluation

Floodplain soils

- Potential exposure via:
 - √ direct contact
 - √ ingestion of garden crops
 - √ ambient air
- Next steps – communicating results
 - General conclusions included in fact sheet,
 - Developing letters to landowners,
 - Possible meeting via CAP or other means

Human Exposure Evaluation

Potential dietary exposures

- Domestic consumption, e.g., (Garden crops study completed), Beef, Poultry
- Hunting consumption, e.g., waterfowl, small game
 - Literature review of tissue levels in progress
 - Waterfowl samples being analyzed, final results should be available shortly
 - Evaluate options for additional sampling

Human Exposure Evaluation

Other Potential Exposure

- Exploring a health survey at local clinics
 - √ Local physicians (explicitly made aware of issue) have not reported any signs/symptoms
 - √ Local health clinics have been provided literature (in both Spanish and English)
 - Health survey being designed to address effectiveness of consumption advisories

Human Exposure Evaluation

Communication

- Disseminate information to the public
- Opportunities:
 - Fish advisory signs/information kiosks
 - Information to local health clinics
 - Information to local physicians
 - Fact Sheets
 - Communications to landowners
 - Meetings with local officials
 - Community advisory panel