

100 Area and 300 Area River Corridor Baseline Risk Assessment

RISK ASSESSMENT: TECHNICAL APPROACH

November 15, 2006

River Corridor Closure Contractor

and

Neptune and Company, Inc.

Workshop Topics

- Data analysis methods
 - Background sources and tests
 - Representative concentrations, including handling of non-detects

BACKGROUND

Background Topics

- Data sources
- Statistical testing

Data Sources

- See Table 1-1
 - Number rows from 1 to 17
 - Categories include
 - Background
 - Non-waste site
 - Reference

Initial Comments on Data Sources

- Row number 10 (BHI-00032)
 - Could be categorized as “reference”
- Row number 13 (RHO-RE-ST-45P)
 - Contains data from 1972, 1981, 1982
 - Exclude as other data are from 1984 and later?
- Add row number 18 (DOE/RL-2004-42, DOE/RL-2005-30)
 - Central Plateau Phase I/II reference site data

Statistical Testing

- All detected analytes are retained for the evaluation as COPCs and COPECs
- Statistical testing provides information for determining what levels of COPCs/COPECs are likely associated with waste sites

Statistical Testing (cont.)

- Logic for selecting methods is provided in Figure 1-1
- Initial comment
 - Also include comparison to 90th percentile of background, non-waste site, and reference

REPRESENTATIVE CONCENTRATIONS

Representative Concentrations

- Objective is to provide COPC/COPEC concentration data for exposure assessment
- Proposed approach is based on EPA guidance and MTCASat procedures

Representative Concentrations (cont.)

- See Figure 2-1 for decision logic

SCHEDULE FOR NEXT WORKSHOPS

Next Workshops

- December 14, 2006
 - Afternoon teleconference to discuss any outstanding questions on methodology
- January 17, 2007
 - Data, analysis tools, and methodology available via GiSdT web interface