Types of Surveys

- Radiation (dose rate)
- Direct (Instrument identifies fixed contamination)
- Wipe (removable contamination)
MARSSSIM Related Surveys

Multi-Agency Radiation Survey and Site Investigation Manual (MARSSSIM) (NUREG-1575, Revision 1)

- Initial/Screening
- Characterization
- Remediation and resurvey
- Final status survey
Equipment, Tools, Components

Contamination release surveys to determine status

- Release, reuse
- Decontamination
- Disposal
Initial Screening Surveys

Also called a scoping survey, its purpose is to augment the historical site assessment and give additional information on areas that may have been impacted by contamination.

- Identification of use areas, levels/activities used, nonuse
- Preliminary radiation survey
- Preliminary sampling and analysis
- Screening data analysis and evaluation
Characterization Surveys

- Radiation surveys
- Direct instrument survey for fixed contamination
- Sampling: wipes, soil, water, vegetation, sludge, etc.
- Analyses by approved means
- Data compilation and evaluation
Final Status Surveys

All analysis and data show the following:

- Contamination levels are at or below agreed-upon limits, or DCGLs, for unrestricted release, conditional release, or alternate release levels.
- Characterization survey locations below the agreed-upon release limits, or DCGL’s, if approved by the regulator.
Verification

Washington State:

- Reviews decommissioning plan, work plan, to ensure completeness, and meet regulatory requirements
- Reviews final status survey decommissioning report and data for completeness and following the DP, release limits
- Normally performs their own on-site verification survey to corroborate final status survey

Note: Not all agreement states or NRC performs an on-site verification survey.