



6.5 References

40 CFR 9. U.S. Environmental Protection Agency. "OMB Approval Under the Paperwork Reduction Act." *Code of Federal Regulations*.

40 CFR 141. U.S. Environmental Protection Agency. "National Primary Drinking Water Regulations; Radio-nuclides; Proposed Rule." *Code of Federal Regulations*.

40 CFR 142. U.S. Environmental Protection Agency. "National Primary Drinking Water Regulations Implementation." *Code of Federal Regulations*.

40 CFR 265. U.S. Environmental Protection Agency. "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities." *Code of Federal Regulations*.

40 CFR 300. U.S. Environmental Protection Agency. "National Oil and Hazardous Substances Pollution Contingency Plan." *Code of Federal Regulations*.

American Society for Testing and Materials (ASTM). 1986. Annual Book of ASTM Standards. Philadelphia, Pennsylvania.

Atomic Energy Act. 1954. Chapter 1073, 68 Stat. 919, 42 USC 2011 et seq.

BHI-01311, Rev. 0. 1999. *Hydrogeologic Conceptual Model for the Carbon Tetrachloride and Uranium/Technetium Plumes in the 200 West Area: 1994 Through 1999 Update*. L. C. Swanson, V. J. Rohay, and J. M. Faurote, Bechtel Hanford, Inc., Richland, Washington.

BNWL-90. 1965. *Evaluation of Radiological Conditions in the Vicinity of Hanford for 1964*. R. H. Wilson (ed.), Pacific Northwest Laboratory, Richland, Washington.

BNWL-1970. 1976. *Environmental Monitoring Report on Radiological Status of the Ground Water Beneath the Hanford Site, January-December 1974*. J. R. Raymond, D. A. Myers, J. J. Fix, V. L. McGhan, and P. M. Schrotke, Pacific Northwest Laboratory, Richland, Washington.

Comprehensive Environmental Response, Compensation, and Liability Act. 1980. Public Law 96-150, as amended, 94 Stat. 2767, 42 USC 9601 et seq.

DOE/EIS-0119F. 1992. *Decommissioning of Eight Surplus Production Reactors at the Hanford Site, Richland, Washington, Final Environmental Impact Statement*. U.S. Department of Energy, Washington, D.C.

DOE Order 435.1. "Radioactive Waste Management."

DOE Order 5400.1. "General Environmental Protection Program."

DOE Order 5400.5. "Radiation Protection of the Public and the Environment."

DOE/RL-89-12, Rev. 2. 1995. *Hanford Site Ground-Water Protection Management Plan*. D. B. Barnett, J. S. Schmid, S. S. Lowe, W. L. Allen, N. A. Ballantyne, C. H. Dohrer, M. J. Hartman, F. N. Hodges, D. G. Horton, V. G. Johnson, K. J. Lueck, D. J. Ortiz, A. J. Knepp, B. H. Ford, S. P. Hope, D. K. Tyler, R. D. Hildebrand, D. E. Olson, R. E. Peterson, G. L. Kasza, D. A. Myers, S. P. Luttrell, P. D. Thorne, and K. R. Moser. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-91-50, Rev. 3. 2000. *Environmental Monitoring Plan United States Department of Energy Richland Operations Office*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-39. 1998. *100-NR-1 Treatment, Storage, and Disposal Units Corrective Measure Study/Closure Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-61, Rev. 0. 1997. *Hanford Site Background: Part 3, Groundwater Background*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-102. 1998. *Proposed Plan for Interim Remedial Actions at the 100-NR-1 Source Sites Operable Unit and the 100-NR-2 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-98-48, Draft C. 1998. *Groundwater/Vadose Zone Integration Project Specification*. Prepared by Bechtel Hanford, Inc. for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-98-56. 1999. *Groundwater/Vadose Zone Integration Project, Project Management Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2000-11, Rev. 1. 2000. *Recommendations for Selection of a Site-Wide Groundwater Flow and Transport Model*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2002-01. 2002. *Calendar Year 2001 Annual Summary Report for the 100-HR-3, 100-KR-4, and 100-NR-2 Operable Units and Pump-and-Treat Operations*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RW-0164 (2 vols). 1988. *Consultation Draft, Site Characterization Plan, Reference Repository Location, Hanford Site, Washington*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

EMF-1865, Addendum 27. 2002. *Quarterly Ground-water Monitoring Summary - Fourth Quarter 2001*. Framatome ANP, Inc., Richland, Washington.

EPA. 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, Third Edition*. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, D.C.

EPA 822-R-96-001. 1996. *Drinking Water Regulations and Health Advisories*. U.S. Environmental Protection Agency, Office of Water, Washington, D.C.

EPA 822-Z-99-001. 1999. *National Recommended Water Quality Criteria—Correction*. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. Available URL: <http://www.epa.gov/ost/pc/revcom.pdf>

Gee, G. W., M. J. Fayer, M. L. Rockhold, and M. D. Campbell. 1992. "Variations in Recharge at the Hanford Site." *Northwest Science* 66(4):237.

Gupta, S. K. 1997. *Draft User's Manual, CFEST-96 Flow and Solute Transport, Constant/Variable Density, Computationally Efficient, and Low Disk PC/Unix Version*. Environmental System Technologies, Irvine, California.

Newcomb, R. C., J. R. Strand, and F. J. Frank. 1972. *Geology and Ground-Water Characteristics of the Hanford Reservation of the U.S. Atomic Energy Commission, Washington*. Geological Survey Professional Paper 717, U.S. Geological Survey, Washington, D.C.

Peterson, R. E., and M. P. Connelly. 1992. "Characterization of a Chromium Plume in Groundwater Along the Columbia River Shoreline, Hanford Site, Washington." Presented at 1992 Fall Meeting, American

Geophysical Union, San Francisco, California, December 7-11, 1992. *EOS Transactions, American Geophysical Union* 73:43; also WHC-SA-1674-VA, Westinghouse Hanford Company, Richland, Washington.

PNL-5041. 1984. *Ground-Water Surveillance at the Hanford Site for CY 1993*. L. S. Prater, J. T. Rieger, C. S. Cline, E. J. Jensen, T. L. Liikala, K. R. Oster, and P. A. Eddy, Pacific Northwest Laboratory, Richland, Washington.

PNL-6456. 1988. *Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford*. R. D. Stenner, K. H. Cramer, K. A. Higley, S. J. Jette, D. A. Lamar, T. J. McLaughlin, D. R. Sherwood, and N. C. Van Houten, Pacific Northwest Laboratory, Richland, Washington.

PNL-6825. 1989. *Hanford Site Environmental Report for Calendar Year 1988*. R. E. Jaquish and R. W. Bryce, Pacific Northwest Laboratory, Richland, Washington.

PNL-6886. 1989. *Hanford Site Ground-Water Monitoring for January Through June 1988*. J. C. Evans, R. W. Bryce, and D. R. Sherwood, Pacific Northwest Laboratory, Richland, Washington.

PNL-7120. 1989. *Hanford Site Ground-Water Monitoring for July Through December 1988*. J. C. Evans, R. W. Bryce, D. R. Sherwood, M. L. Kemner, and D. R. Newcomer, Pacific Northwest Laboratory, Richland, Washington.

PNL-7144. 1990. *An Initial Inverse Calibration of the Ground-Water Flow Model for the Hanford Unconfined Aquifer*. E. A. Jacobson and M. D. Freshley, Pacific Northwest Laboratory, Richland, Washington.

PNL-8073. 1992. *Hanford Site Ground-Water Monitoring for 1990*. J. C. Evans, R. W. Bryce, and D. J. Bates, Pacific Northwest Laboratory, Richland, Washington.

PNL-8337. 1992. *Summary and Evaluation of Available Hydraulic Property Data for the Hanford Site Unconfined Aquifer System*. P. D. Thorne and D. R. Newcomer, Pacific Northwest Laboratory, Richland, Washington.

PNL-10285. 1995. *Estimated Recharge Rates at the Hanford Site*. M. J. Fayer and T. B. Walters, Pacific Northwest Laboratory, Richland, Washington.

PNL-10817. 1995. *Hydrochemistry and Hydrogeologic Conditions Within the Hanford Site Upper Basalt Confined Aquifer System*. F. A. Spane, Jr. and W. D. Webber, Pacific Northwest Laboratory, Richland, Washington.

PNNL-11141. 1996. *Hanford Site Ground-Water Monitoring for 1995*. P. E. Dresel, J. T. Rieger, W. D. Webber,

- P. D. Thorne, B. M. Gillespie, S. P. Luttrell, S. K. Wurstner, and T. L. Liikala, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11800. 1998. *Composite Analysis for Low-Level Waste Disposal in the 200 Area Plateau of the Hanford Site*. C. T. Kincaid, M. P. Bergeron, C. R. Cole, M. D. Freshley, N. Hassig, V. G. Johnson, D. I. Kaplan, R. J. Serne, G. P. Steile, D. L. Strenge, P. D. Thorne, L. W. Vail, G. A. Whyatt, and S. K. Wurstner, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11800, Addendum 1. 2001. *Addendum to Composite Analysis for Low-Level Waste Disposal in the 200 Area Plateau of the Hanford Site*. M. P. Bergeron, E. J. Freeman, and S. K. Wurstner, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11809. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Areas T and TX-TY at the Hanford Site*. F. N. Hodges, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11810. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Areas S-SX at the Hanford Site*. V. G. Johnson and C. J. Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11826. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Areas B-BX-BY at the Hanford Site*. S. M. Narbutovskih, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11989, Rev. 2. 2000. *Integrated Monitoring Plan for the Hanford Groundwater Monitoring Project*. M. J. Hartman, P. E. Dresel, J. W. Lindberg, D. R. Newcomer, and E. C. Thornton, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12023. 1998. *Groundwater Monitoring for the 100-K Area Fuel-Storage Basins: July 1996 through April 1998*. V. G. Johnson, C. J. Chou, M. J. Hartman, and W. D. Webber, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12261. 2000. *Revised Hydrogeology for the Suprabasalt Upper Aquifer System, 200 East Area, Hanford Site, Washington*. B. A. Williams, B. N. Bjornstad, R. Schalla, and W. D. Webber, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13080. 2000. *Hanford Site Groundwater: Settings, Sources, and Methods*. M. J. Hartman (ed.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13116. 2000. *Hanford Site Groundwater Monitoring for Fiscal Year 1999*. M. J. Hartman, L. F. Morasch, and W. D. Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13228. 2000. *Evaluation of Elevated Tritium Levels in Groundwater Downgradient from the 618-11 Burial Ground Phase I Investigations*. P. E. Dresel, B. A. Williams, J. C. Evans, R. M. Smith, C. J. Thompson, and L. C. Hulstrom, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13404. 2001. *Hanford Site Groundwater Monitoring for Fiscal Year 2000*. M. J. Hartman, L. F. Morasch, and W. D. Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13441. 2000. *RCRA Groundwater Quality Assessment Report for Waste Management Area S-SX (November 1997 through April 2000)*. V. G. Johnson and C. J. Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13447. 2001. *Hanford Site-Wide Model Calibration Using Inverse Methodology*. C. R. Cole, M. P. Bergeron, S. K. Wurstner, P. D. Thorne, S. Orr, and M. I. McKinley, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13560. 2001. *Assessment of Carbon Tetrachloride Groundwater Transport in Support of the Hanford Carbon Tetrachloride Innovative Technology Demonstration Program*. M. J. Truex, C. J. Murray, C. R. Cole, R. J. Cameron, M. D. Johnson, R. S. Skeen, and C. D. Johnson, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13623. 2001. *Transient Inverse Calibration of Site-Wide Groundwater Model to Hanford Operational Impacts from 1943 to 1996 – Alternative Conceptual Model Considering Interaction with Uppermost Basalt Confined Aquifer*. V. R. Vermeul, C. R. Cole, M. P. Bergeron, P. D. Thorne, and S. K. Wurstner, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13641. 2001. *Uncertainty Analysis Framework – Hanford Site-Wide Groundwater Flow and Transport Model*. C. R. Cole, M. P. Bergeron, C. J. Murphy, P. D. Thorne, S. K. Wurstner, and P. Rogers, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13788. 2002. *Hanford Site Groundwater Monitoring for Fiscal Year 2001*. M. J. Hartman, L. F. Morasch, and W. D. Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.

Resource Conservation and Recovery Act. 1976. Public Law 94-580, as amended, 90 Stat. 2795, 42 USC 6901 et seq.

RHO-BWI-ST-5. 1979. *Hydrologic Studies Within the Columbia Plateau, Washington: An Integration of Current Knowledge*. R. E. Gephart, R. C. Arnett, R. G. Baca, L. S. Leonhart, F. A. Spane, Jr., D. A. Palumbo, and S. R. Strait, Rockwell Hanford Operations, Richland, Washington.

RHO-RE-ST-12 P. 1984. *An Assessment of Aquifer Intercommunication in the B Pond - Gable Mountain Pond Area of the Hanford Site*. M. J. Graham, G. V. Last, and K. R. Fecht, Rockwell Hanford Operations, Richland, Washington.

RHO-ST-42. 1981. *Hydrology of the Separations Area*. M. J. Graham, M. D. Hall, S. R. Strait, and W. R. Brown, Rockwell Hanford Operations, Richland, Washington.

Soldat, J. K. 1976. "Radiation Doses from Iodine-129 in the Environment." *Health Physics* 30:61-70.

WAC 173-216. "State Waste Discharge Program." Washington Administrative Code, Olympia, Washington.

WAC 173-303. "Dangerous Waste Regulations." Washington Administrative Code, Olympia, Washington.

WAC 173-304. "Minimal Functional Standards for Solid Waste Handling." Washington Administrative Code, Olympia, Washington.

WHC-EP-0595. 1993. *Westinghouse Hanford Company Operational Groundwater Status Report, 1990-1992*. V. G. Johnson, Westinghouse Hanford Company, Richland, Washington.

WHC-MR-0388. 1992. *Past Practices Technical Characterization Study - 300 Area - Hanford Site*. M. S. Gerber, Westinghouse Hanford Company, Richland, Washington.

WHC-MR-0391. 1992. *Field Trip Guide to the Hanford Site*. S. P. Reidel, K. A. Lindsey, and K. R. Fecht, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-RPT-004. 1993. *Summary of 100-B/C Reactor Operations and Resultant Wastes, Hanford Site*. M. S. Gerber, Westinghouse Hanford Company, Richland, Washington.