

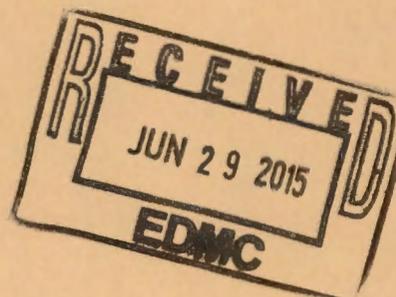
Waste Control Plan for the 200-DV-1 Operable Unit

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788



P.O. Box 1600
Richland, Washington 99352



1230091

Waste Control Plan for the 200-DV-1 Operable Unit

Date Published
June 2015

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

ch2m.
P.O. Box 1600
Richland, Washington 99352

APPROVED

By Ashley R Jenkins at 2:57 pm, Jun 16, 2015

Release Approval

Date

Approved for Public Release;
Further Dissemination Unlimited

TRADEMARK DISCLAIMER

Reference herein to any specific commercial product, process, or service by tradename, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

This report has been reproduced from the best available copy.

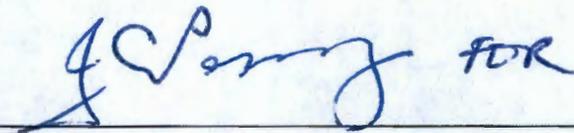
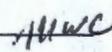
Printed in the United States of America

Signature Sheet

Title DOE/RL-2012-20, *Waste Control Plan for the 200-DV-1 Operable Unit*

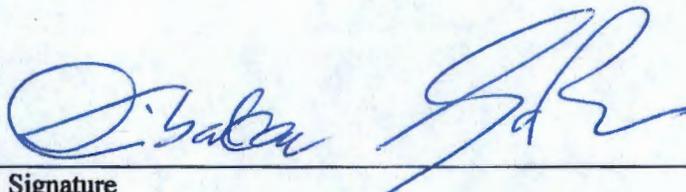
R. J. Corey

U.S. Department of Energy, Richland Operations Office

 FOR  6-9-15
Signature Date

D. Goswami

Washington State Department of Ecology

 6/2/15
Signature Date

This page intentionally left blank.

Contents

1	Purpose.....	1
1.1	Waste Generation Activity	1
1.2	Projected Waste Streams	2
2	General Waste Management Requirements	2
2.1	Waste Generation and Designation	2
2.2	Waste Packaging and Labeling	2
2.3	Waste Storage and Transportation.....	3
2.4	Waste Disposal.....	5
2.5	Records.....	6
2.6	200-DV-1 Operable Unit Wells.....	6
3	Stream-Specific Waste Management Requirements.....	7
3.1	Drill Cuttings.....	7
3.2	Purgewater.....	7
3.3	Decontamination Fluids	7
3.4	Perched Water	7
3.5	Sample Screening and Analysis Liquids	8
3.6	Equipment and Construction Materials	8
3.7	Nondangerous/No-Radiation-Added Solid Waste.....	8
3.8	Unplanned Release	8
3.9	Miscellaneous Solid Waste and Well Decommissioning Waste	9
4	References	9

Appendix

A	200-DV-1 Operable Unit Well List	A-i
----------	---	------------

Figures

Figure 1.	200-DV-1 Operable Unit Waste Sites in the T Complex Area.....	4
Figure 2.	200-DV-1 Operable Unit Waste Sites in the S Complex Area.....	5
Figure 3.	200-DV-1 Operable Unit Waste Sites in the B Complex Area.....	6

This page intentionally left blank.

Terms

CERCLA	<i>Comprehensive Environmental Response, Compensation, and Liability Act of 1980</i>
CWC	Central Waste Complex
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERDF	Environmental Restoration Disposal Facility
IDW	investigation-derived waste
MSU	modular storage unit
MSW	miscellaneous solid waste
OU	operable unit
P&T	pump and treat
S&GRP	Soil and Groundwater Remediation Project
WMA	waste management area

This page intentionally left blank.

1 Purpose

This waste control plan establishes the requirements for management and disposal of investigation derived waste (IDW) generated at waste sites in the 200-DV-1 Operable Unit (OU). This is a remedial investigation conducted by the U.S. Department of Energy (DOE) under authority of the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA) and 40 CFR 300, "National Oil and Hazardous Substances Pollution Contingency Plan," and approved by the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology in accordance with the Tri-Party Agreement (Ecology et al., 1989, *Hanford Federal Facility Agreement and Consent Order*). This remedial investigation constitutes a CERCLA removal action conducted onsite and in accordance with CERCLA Sections 104, "Response Authorities," and 121, "Cleanup Standards," and, therefore, is not subject to permitting or procedural requirements of other environmental laws; however, it is required to meet the substantive standards of such laws that have been identified through the applicable or relevant and appropriate requirements process. Waste generated in this activity is onsite CERCLA waste and, therefore, can be disposed of at the Environmental Restoration Disposal Facility (ERDF). IDW will be generated at this OU in accordance with characterization activities specified in DOE/RL-2011-104, *Characterization Sampling and Analysis Plan for the 200-DV-1 Operable Unit*; SGW-58569, *Supplemental Sampling Instruction for Field Investigation of the B Complex Area in the 200-DV-1 Operable Unit*; and a sampling and analysis plan to be developed for shallow soil sampling. IDW will be managed in accordance with this document and DOE/RL-2011-41, *Hanford Site Strategy for Management of Investigation Derived Waste*. Characterization activities completed for DOE/RL-2011-104 and SGW-58569 support implementation of DOE/RL-2011-102, *Remedial Investigation/Feasibility Study and RCRA Facility Investigation/Corrective Measures Study Work Plan for the 200-DV-1 Operable Unit*.

The 200-DV-1 OU is comprised of 43 waste sites and a zone of perched water that are located in three geographic areas proximal to the following single-shell tank waste management areas (WMAs):

- T Complex Area (near WMA T-TX-TY)
- S Complex Area (near WMA S-SX)
- B Complex Area (near WMA B-BX-BY)

Waste sites in the 200-DV-1 OU received either (1) process wastes including scavenged waste from the Uranium Recovery Project and the ferrocyanide processes at the 221/224-U Plant, (2) tank waste from the first- and second-cycle decontamination processes associated with the bismuth-phosphate process at B-Plant and T-Plant, or (3) fission product-rich wastes generated during the fuel-rod enrichment cycle that were released when the fuel elements were decladded or dissolved in corrosive solutions (sodium hydroxide or nitric acid). Most wastes were low-salt neutral/basic and usually contained higher levels of fission products and lower levels of transuranic and organic wastes than other process wastes at the Hanford Site. Generally speaking, contaminants of potential concern applicable to all waste sites include fission products, uranium, transuranic isotopes, metals, and anions. Additionally, selected organic constituents of potential concern for the BY Cribs and the 216-B-42, 216-T-18, 216-T-19, 216-S-9, 216-S-13, and 216-S-21 Waste Sites (kerosene and tributyl phosphate); 216-S-13 Waste Site (hexone and polychlorinated biphenyls); and 216-T-19 Waste Site (numerous volatile organics and polychlorinated biphenyls) were identified in DOE/RL-2011-104.

1.1 Waste Generation Activity

Numerous activities are planned for further characterization of contamination in the 200-DV-1 OU waste sites. The scope of characterization work identified in DOE/RL-2011-104 and SGW-58569 that is likely

to generate waste includes, but is not limited to, boreholes drilled to groundwater for sampling, direct-push boreholes pushed to refusal for sampling, and direct-push boreholes pushed to refusal for geophysical logging. Shallow soil sampling in the 0 to 4.6 m (0 to 15 ft) below ground surface interval will be collected using a mounted auger or similar project-designated method.

1.2 Projected Waste Streams

One or all of the following waste streams are anticipated and may fall into any combination of categories (radioactive, mixed, hazardous, dangerous, suspect radioactive, suspect dangerous, suspect mixed, and nonregulated):

- Miscellaneous solid waste (MSW) (e.g., rubber, glass, paper, personal protective equipment, cloth, plastic, and metal)
- Drill cuttings, soils, and slurries
- Equipment, construction, and decommissioning materials (e.g., well casing, drill string, drive barrel, construction equipment and materials, sampling equipment, decommissioning materials, and wooden pallets)
- Nondangerous/no-radiation-added (nonradioactive) solid waste (e.g., paper, wood, construction debris, metal, plastic, and glass)
- Unplanned release and associated cleanup material
- Decontamination fluids
- Purgewater generated during groundwater well installation, development, testing, monitoring, maintenance decanting of soils and slurries, and decommissioning
- Perched water encountered during drilling
- Liquids generated during screening analysis
- Treatability test waste

2 General Waste Management Requirements

All 200-DV-1 OU IDW will be managed in accordance with this waste control plan and in accordance with DOE/RL-2011-41. Every effort will be made to minimize waste generation.

2.1 Waste Generation and Designation

Waste generated from drilling, groundwater monitoring, well maintenance, well decommissioning, and geophysical logging activities will be managed near the point of generation or at designated waste container storage areas. Waste will be designated in accordance with WAC 173-303, "Dangerous Waste Regulations," using process knowledge, historical analytical data, and analyses of samples obtained pursuant to DOE/RL-2011-104 and SGW-58569. Historical data from the 200-DV-1 OU may be used, as appropriate, for waste designation.

2.2 Waste Packaging and Labeling

Waste packaging and labeling will be performed in accordance with a waste planning checklist or as directed by the Waste Management Representative.

Waste packaging and labeling during storage and transportation will comply with DOE/RL-2011-41, Chapter 7, "Container Management." Accordingly, the substantive container management requirements are established in 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities," Subpart I, "Use and Management of Containers"; WAC 173-303-630, "Use and Management of Containers"; and WAC 173-303-160, "Containers." All containers of IDW will be managed in accordance with the applicable substantive federal and/or state requirements including labels that define the known major risk(s), dangerous waste codes, and if awaiting analysis, wording that states "waste pending analysis" with the date of initial sampling.

U.S. Department of Transportation (DOT) requirements will also apply, as appropriate. For onsite waste shipments, non-DOT packaging may be used if the container will provide an equivalent degree of safety, and approval documents are in place. Materials requiring collection will be placed in containers appropriate for the material and the receiving facility. DOT-approved drums may be used for some materials (e.g., drill cuttings); however, packaging/containment for large or irregular waste or large volume waste (e.g., drill casing and excavated soil) may require containers other than drums. Packaging/containment may include, but is not limited to, plastic wrap, 1.2 by 1.2 by 2.4 m (4 by 4 by 8 ft) boxes, and ERDF roll-on/roll-off containers. Drill cuttings that are not required to be sampled for waste disposition may be placed in ERDF roll-on/roll-off containers.

Waste generated from well monitoring, maintenance, decommissioning, and geophysical logging may be bagged or placed in 208 L (55 gal) containers near the point of generation. Bags will be marked with the details of generation to identify the activity associated with the waste, taped, and labeled with the well identification number (at the well head) and the date the waste was generated. The bagged material may be transported in a protective manner (i.e., material is contained), while proceeding between boreholes in the OU, and will be placed in a container at the nearest waste container storage area identified in Figures 1, 2, or 3. Waste containers will be labeled and marked appropriately to match the waste designation established for each waste stream. Containers will be sealed and shipped to the identified disposal facility or storage area.

2.3 Waste Storage and Transportation

IDW may be stored temporarily at the point of generation (e.g., waste site or well site) or transferred to an approved waste container storage area until being transported to ERDF, or another approved facility, for disposal. Segregation and staging of waste containers/packages will be performed in accordance with the waste planning checklist or as directed by the Waste Management Representative. The amount of waste stored at a waste container storage area should be kept to a minimum. Full containers should be prepared for disposal as quickly as economically feasible. Designated dangerous waste will be stored in accordance with substantive requirements of WAC 173-303-630. Dangerous waste and "waste pending analysis" containers will be inspected weekly. Nondangerous waste storage areas will be inspected monthly or at the frequency directed by the Waste Management Representative. The three waste container storage locations for the 200-DV-1 OU are provided in Figures 1, 2, and 3.

Liquid waste (e.g., purgewater and decontamination fluids) will be collected, and contained at the well head if necessary, until transport to the purgewater modular storage units (MSUs) or an appropriate pump and treat (P&T) facility.

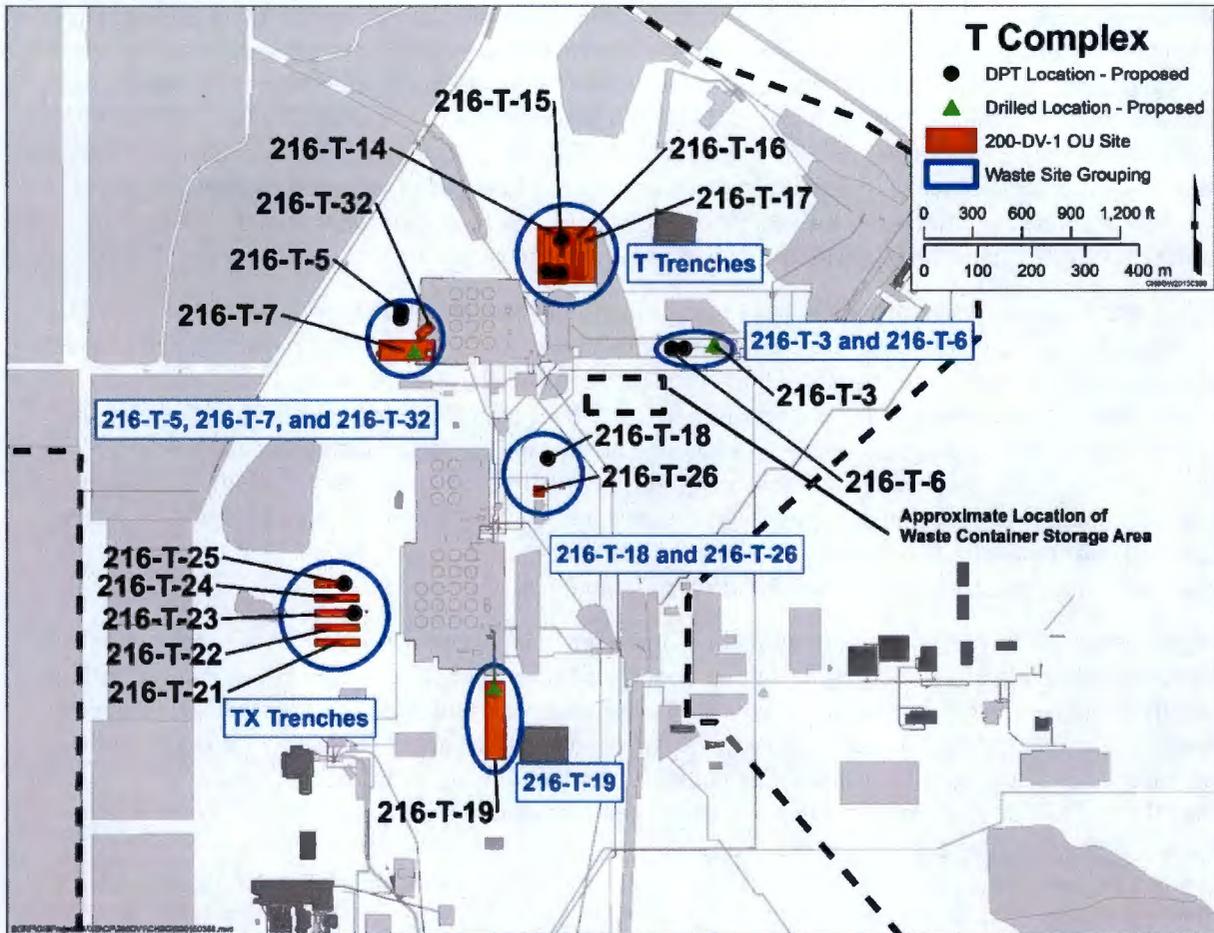


Figure 1. 200-DV-1 Operable Unit Waste Sites in the T Complex Area

If sampling is required, it is anticipated that IDW will be stored at a waste container storage area or near the point of generation until analytical results are received, excess characterization samples are returned, and proper waste shipping documents are completed. If return of excess characterization samples from the analytical laboratory is delayed, the majority of waste containers may be shipped for disposal, provided that a sufficient number of containers are available at the waste container storage area for receiving the excess sample volume.

Radioactive waste will be managed separately from nonradioactive waste. Containers bearing nonradioactive, nondangerous waste will be sealed, labeled, and stored at the appropriate waste container storage area.

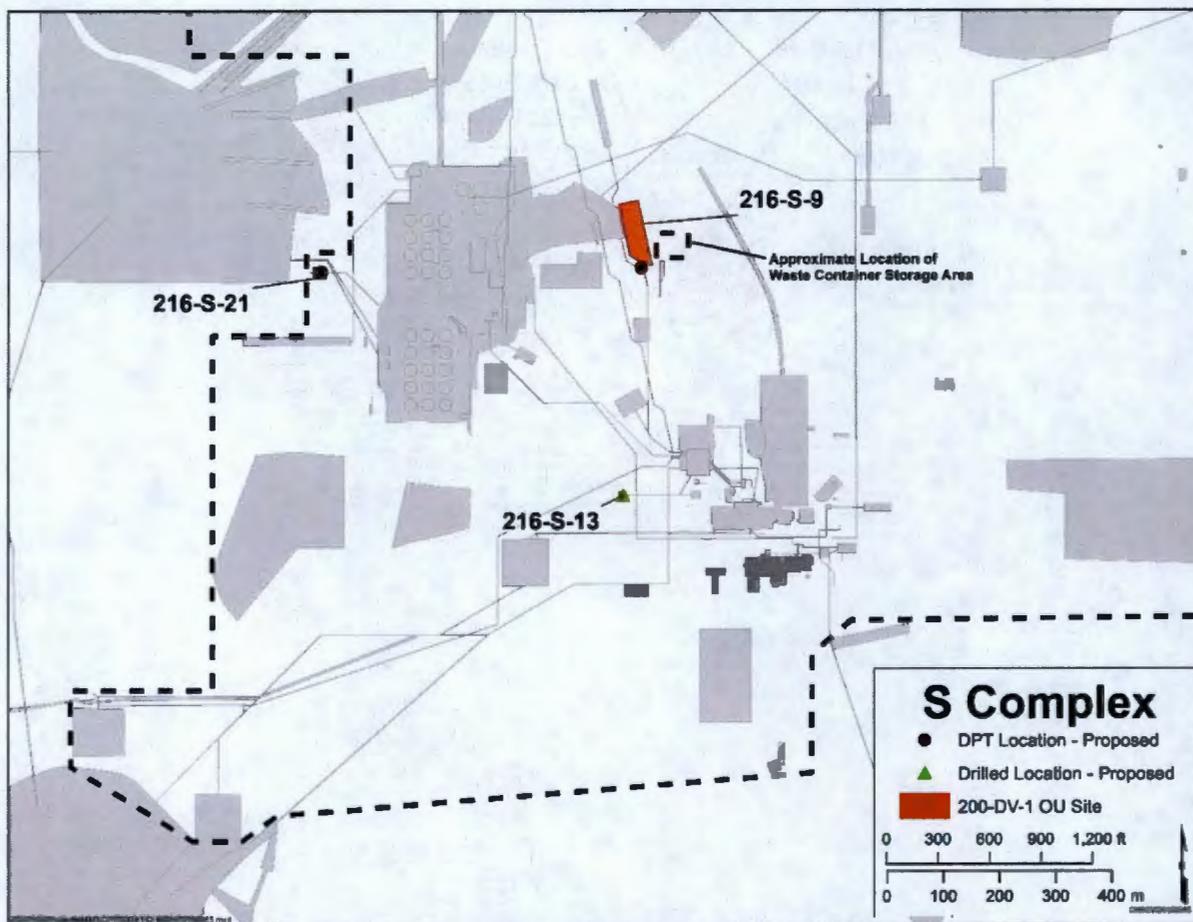


Figure 2. 200-DV-1 Operable Unit Waste Sites in the S Complex Area

2.4 Waste Disposal

IDW generated at the 200-DV-1 OU may be disposed at ERDF if the wastes meet the ERDF waste acceptance criteria defined in WCH-191, *Environmental Restoration Disposal Facility Waste Acceptance Criteria*, and 0000X-DC-W0001, *Supplemental Waste Acceptance Criteria for the Environmental Restoration Disposal Facility*, as revised. If transuranic waste is encountered, or if waste does not meet ERDF waste acceptance criteria, waste may be stored at the Central Waste Complex (CWC) or sent to an offsite disposal facility, as authorized to accept CERCLA response action wastes by the specific regional office of the EPA which has jurisdiction over the receiving disposal facility. EPA shall approve any treatment necessary, as presented in 40 CFR 268.48, "Land Disposal Restrictions," "Universal Treatment Standards," to meet the disposal facility's waste acceptance criteria. In accordance with 40 CFR 300.440, "Procedures for Planning and Implementing Off-Site Response Actions," an offsite determination is required prior to shipment of waste to CWC or to an offsite facility for treatment/disposal. Wastes that do not meet radiological release criteria will also be transported to ERDF for disposal. Wastes meeting radiological release criteria and that are nondangerous and nonradioactive may be disposed at an appropriate Subtitle D disposal facility in accordance with the criteria established for the respective facility.

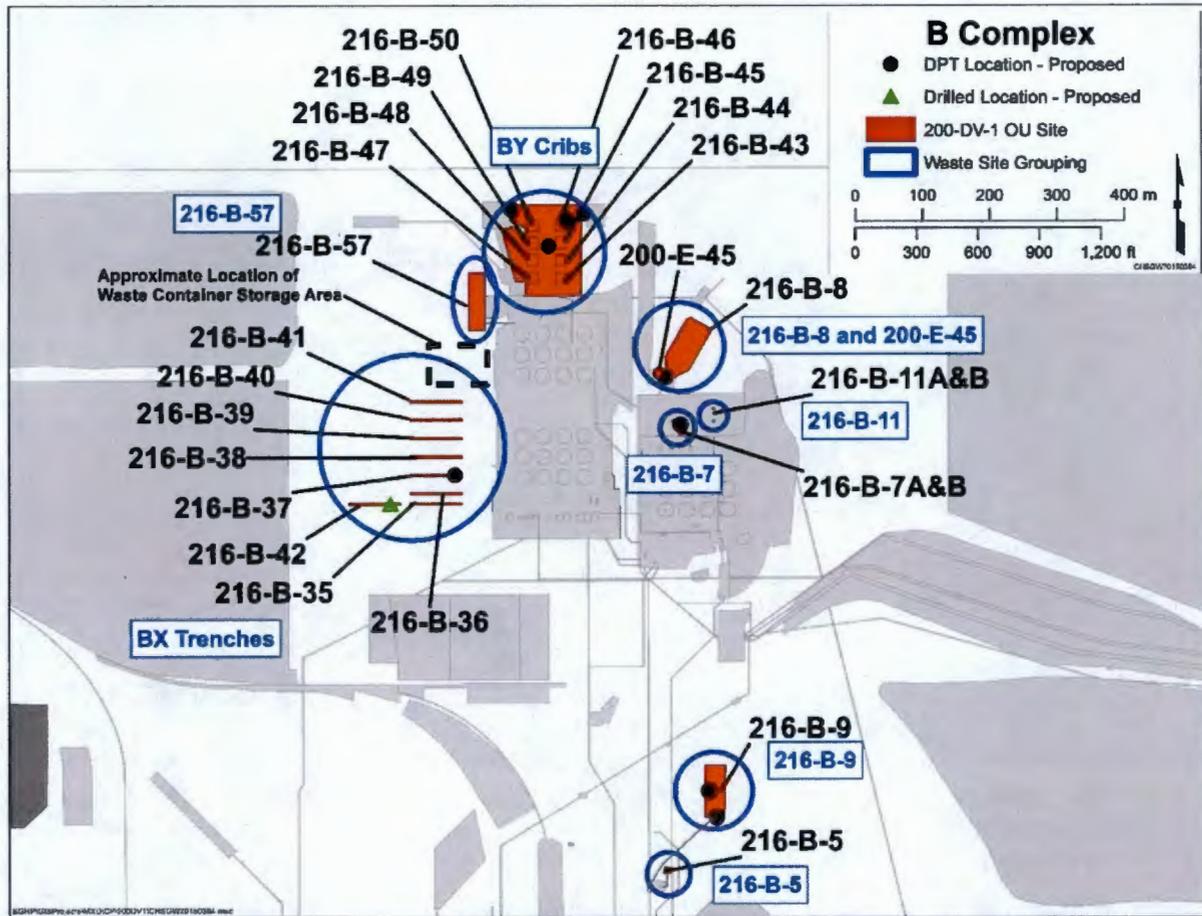


Figure 3. 200-DV-1 Operable Unit Waste Sites in the B Complex Area

Soil IDW containing hazardous and radiological constituents at levels below dangerous waste designation limits, below the soil cleanup standards of the most recent Table 740-1 of WAC 173-340-900, "Model Toxics Control Act—Cleanup," "Tables," and that have been released from a radiological perspective, may be returned to the ground at or near the point of excavation.

Miscellaneous material that does not require disposal in ERDF will be disposed in an appropriate solid waste disposal facility.

If IDW must be stored for longer than 6 months after designation, concurrence from the lead regulatory agency will be obtained on storage, treatment, and disposal options of the waste along with the disposition schedule.

2.5 Records

Completed waste inventory documentation will be used to initiate waste tracking in the Solid Waste Information Tracking System. All records will be managed in accordance with applicable records management processes.

2.6 200-DV-1 Operable Unit Wells

A list of wells and boreholes associated with 200-DV-1 OU waste sites is provided in Appendix A.

3 Stream-Specific Waste Management Requirements

This chapter describes the waste management requirements for the IDW streams anticipated for the 200-DV-1 OU.

3.1 Drill Cuttings

Drill cuttings may be treated as radioactive, mixed, hazardous, dangerous, suspect radioactive, suspect dangerous, suspect mixed, suspect hazardous, or nonregulated, based on process knowledge and field screening results.

Nonregulated drill cuttings will be collected in stockpiles on plastic sheeting near the point of generation. Radioactive, mixed, hazardous, dangerous, suspect radioactive, suspect dangerous, or suspect mixed drill cuttings shall be properly containerized/packaged to mitigate the spread of contaminants to the environment. Containers and packages will be properly marked and labeled. The containers will be separated from other materials as appropriate. The containers of drill cuttings will be dispositioned using process knowledge and/or analytical results associated with the contaminated media contacted.

IDW soil that does not designate as dangerous waste in accordance with WAC 173-303, is below WAC 173-340-740, "Unrestricted Land Use Soil Cleanup Standards," Method B cleanup standards, and has been determined to be low risk for radiological contamination and field surveyed to verify that no detectable radioactivity is above background, may be returned to the ground at or near the point of generation. If any saturated drill cuttings are generated at boreholes drilled to groundwater, they will be dewatered, and free liquids remaining in the container will be mitigated to one percent or less by volume through decanting, evaporation, and/or adding sorbent material prior to disposal, as necessary.

3.2 Purgewater

All purgewater will be managed in compliance with DOE/RL-2009-80, *Investigation Derived Waste Purgewater Management Work Plan*. Purgewater will be collected and contained at the well head, if necessary, until transport to the purgewater MSUs or an appropriate P&T facility.

3.3 Decontamination Fluids

Decontamination fluids (water and/or nondangerous cleaning solutions) generated from cleaning equipment and tools in the OU will be contained, transported, and discharged at the MSUs in accordance with DOE/RL-2009-80 or at an appropriate P&T facility. If necessary, decontamination fluids can be containerized and stored at the designated site-specific waste container storage area or near the point of generation (e.g., drilling accumulated waste) until transported to MSUs or an appropriate P&T facility. Small volumes of decontamination fluids may be stabilized to eliminate free liquids, and then disposed to ERDF, provided the waste acceptance criteria can be met.

Additional chemical decontamination of sample equipment may be conducted at the Soil and Groundwater Remediation Project (S&GRP) sampling equipment cleaning facility because decontamination and containment systems already are established at this location.

3.4 Perched Water

If encountered, perched water will be disposed of at the 200 West P&T. In accordance with Section 5.2.3 of DOE/RL-2014-34, *Action Memorandum for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction*, the 200-DV-1 OU perched water pumping/pore water extraction removal action well sites in the B Complex Area and the 200 West P&T are considered to be a single site for response

purposes. Perched water encountered at the T Complex Area and S Complex Area will be sent to the 200 West P&T, consistent with disposal of purgewater generated at the 200-ZP-1 OU and the 200-UP-1 OU.

3.5 Sample Screening and Analysis Liquids

Liquid waste generated during sample screening and analysis may be managed as purgewater or sent to an appropriate P&T facility. Some liquids may be neutralized or stabilized to meet disposal facility waste acceptance criteria.

3.6 Equipment and Construction Materials

Equipment and construction materials in contact with suspect dangerous and suspect mixed waste will be decontaminated with a three-bucket wash or a high-temperature and high-pressure wash (82°C and >7,000 kPa [180°F and >1,000 lbf/in²]) within a wash basin capable of retaining rinsate, or it will be treated as MSW. All water used for decontamination activities shall be potable (i.e., Hanford Site potable water or City of Richland water). Rinsate shall be managed as purgewater, as described in Section 3.2. All sampling equipment shall be cleaned and decontaminated for chemical contamination after radiological release by a Radiological Control Technician. If contamination is determined to be fixed for any equipment or materials, the Radiological Control Technician and Task Manager will make the decision to remove the contamination using more aggressive methods or to dispose the equipment. As necessary, equipment and construction materials shall be containerized or packaged to prevent the potential spread of contamination. The equipment and construction materials may be stored either at the designated site-specific waste container storage area or near the point of generation.

3.7 Nondangerous/No-Radiation-Added Solid Waste

All nondangerous/no-radiation-added (nonradioactive) solid waste that is radiologically released may be disposed to an offsite solid waste landfill. This waste will not have contacted any suspect dangerous or mixed waste and will be free of any liquids. Items in this category include but are not limited to paper, wood, construction debris, metals, plastic, food waste, and glass. If necessary, nondangerous/no-radiation-added solid waste can be containerized, segregated, and stored at the designated site-specific waste container storage area or near the point of generation.

3.8 Unplanned Release

The initial response to emergency and nonemergency events and conditions shall follow the direction provided in the individual work location Health and Safety Plan. This includes the immediate notification of the 200-DV-1 OU Environmental Compliance Officer (372-2426 or 521-8633) and S&GRP Shift Office (373-7207 primary or 373-7209 secondary). Reporting requirements will be met, as required by DOE O 232.2 Admin Chg 1, *Occurrence Reporting and Processing of Operations Information*. The CH2M HILL Plateau Remediation Company spill reporting single point of contact will be advised immediately of the spill and will determine if additional reporting is necessary. Once the initial assessment is completed, and appropriate measures have been taken to curtail and contain the spill or release, containerized waste will be properly marked, labeled, and segregated from other materials based on process knowledge, field screening results, and location. Wastes associated with spill cleanup will be managed in accordance with Chapter 2 of this waste control plan.

3.9 Miscellaneous Solid Waste and Well Decommissioning Waste

MSW including but not limited to rubber, glass, paper, personal protective equipment, cloth, plastic, and metal will be generated periodically during drilling, geophysical logging, sampling, well decommissioning, and other activities. MSW that has contacted suspect dangerous or suspect mixed waste will be managed as such. Field screening may be used to segregate radioactive investigation-derived MSW from no-radiation-added (nonradioactive) investigative-derived MSW. The MSW may be placed in a plastic bag, taped closed, and marked to identify the activity associated with the waste. Container(s) will be managed in accordance with Chapter 2 of this waste control plan. Containers of MSW will be dispositioned using process knowledge and/or analytical results obtained from the soil or groundwater contacted.

Process knowledge and representative analytical data will be used to profile the well decommissioning wastes. Some waste associated with decommissioning may be considered environmentally controlled material or nondangerous/no-radiation-added (nonradioactive) solid waste based on process knowledge or representative analytical (or both) or field data. Decommissioning waste shall be containerized, marked, segregated, staged, and dispositioned in accordance with Chapter 2 of this waste control plan.

4 References

0000X-DC-W0001, 2010, *Supplemental Waste Acceptance Criteria for the Environmental Restoration Disposal Facility*, Rev. 12, Washington Closure Hanford, Richland, Washington.

40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities," Subpart I, "Use and Management of Containers," *Code of Federal Regulations*. Available at: <http://www.gpo.gov/fdsys/pkg/CFR-2010-title40-vol25/xml/CFR-2010-title40-vol25-part264.xml>.

40 CFR 268.48, "Land Disposal Restrictions," "Universal Treatment Standards," *Code of Federal Regulations*. Available at: <http://www.gpo.gov/fdsys/pkg/CFR-2010-title40-vol26/xml/CFR-2010-title40-vol26-sec268-48.xml>.

40 CFR 300, "National Oil and Hazardous Substances Pollution Contingency Plan," *Code of Federal Regulations*. Available at: <http://www.gpo.gov/fdsys/pkg/CFR-2010-title40-vol27/xml/CFR-2010-title40-vol27-part300.xml>.

300.440, "Procedures for Planning and Implementing Off-Site Response Actions."

Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 USC 9601, et seq., Pub. L. 107-377, December 31, 2002. Available at: <http://epw.senate.gov/cercla.pdf>.

Section 104, "Response Authorities."

Section 121, "Cleanup Standards."

DOE O 232.2 Admin Chg 1, 2014, *Occurrence Reporting and Processing of Operations Information*, U.S. Department of Energy, Richland, Washington. Available at: <https://www.directives.doe.gov/directives-documents/200-series/0232.2-BOrder-admchg1>.

DOE/RL-2009-80, 2009, *Investigation Derived Waste Purgewater Management Work Plan*, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/docDetail?accession=0094946>.

- DOE/RL-2011-41, 2011, *Hanford Site Strategy for Management of Investigation Derived Waste*, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington. Available at <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0093937>.
- DOE/RL-2011-102, 2015, *Remedial Investigation/Feasibility Study and RCRA Facility Investigation/Corrective Measures Study Work Plan for the 200-DV-1 Operable Unit*, Draft A, U.S. Department of Energy, Richland Operations Office, Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0081657H>.
- DOE/RL-2011-104, 2012, *Characterization Sampling and Analysis Plan for the 200-DV-1 Operable Unit*, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=1202020261>.
- DOE/RL-2014-34, 2014, *Action Memorandum for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction*, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0082284H>.
- Ecology, EPA, and DOE, 1989, *Hanford Federal Facility Agreement and Consent Order*, 2 vols., as amended, Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Olympia, Washington. Available at: <http://www.hanford.gov/?page=81>.
- SGW-58569, 2015, *Supplemental Sampling Instruction for Field Investigation of the B Complex Area in the 200-DV-1 Operable Unit*, Rev. 0, CH2M HILL Plateau Remediation Company, Richland, Washington.
- WAC 173-303, "Dangerous Waste Regulations," *Washington Administrative Code*, as amended. Available at: <http://apps.leg.wa.gov/wac/default.aspx?cite=173-303>.
- 173-303-160, "Containers."
- 173-303-630, "Use and Management of Containers."
- WAC 173-340-740, "Model Toxics Control Act—Cleanup," *Washington Administrative Code*, Olympia, Washington. Available at: <http://apps.leg.wa.gov/WAC/default.aspx?cite=173-340>.
- 173-340-740, "Unrestricted Land Use Cleanup Standards."
- 173-340-900, "Tables."
- WCH-191, 2010, *Environmental Restoration Disposal Facility Waste Acceptance Criteria*, Rev. 2, Washington Closure Hanford, Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0084183>.

Appendix A

200-DV-1 Operable Unit Well List

This page intentionally left blank.

Table A-1 lists the wells and boreholes associated with the 200-DV-1 Operable Unit waste sites.

Table A-1. 200-DV-1 Operable Unit Well List

Hanford Well Name	Hanford Well Identification Number
299-E28-29	C3542
299-E33-58	A6866
299-E33-59	A6867
299-E33-60	A6868
299-E33-75	A6883
299-E33-67	A6875
299-E33-68	A6876
299-E33-89	A6897
299-W11-79	A7321
299-W10-189	A7268
299-W10-190	A7269
299-W10-191	A7270
299-W10-59	A7149
299-W10-60	A7150
299-W10-61	A7151
299-W10-62	A7152
299-W10-63	A7153
299-W10-66	A7156
299-W10-67	A7157
299-W10-68	A7158
299-W10-69	A7159
299-W10-70	A7160
299-W10-71	A7161
299-W10-72	A7162
299-W10-73	A7163
299-W10-74	A7164
299-W10-75	A7165
299-W10-76	A7166
299-W10-77	A7167
299-W10-78	A7168
299-W10-79	A7169
299-W10-80	A7170

Table A-1. 200-DV-1 Operable Unit Well List

Hanford Well Name	Hanford Well Identification Number
299-W10-81	A7171
299-W10-56	A7146
299-W10-57	A7147
299-W10-58	A7148
299-W10-64	A7154
299-W10-65	A7155
299-W10-75	A7165
299-W10-76	A7166
C3874	C3874
299-W11-70	A7312
N/A*	C8705
N/A*	C8706
N/A*	C8707
N/A*	C8708
N/A*	C8709
N/A*	C8710
N/A*	C8711
N/A*	C9487
N/A*	C9488
N/A*	C9489
N/A*	C9490
N/A*	C9491
N/A*	C9492
N/A*	C9493
N/A*	C9494
N/A*	C9495
N/A*	C9496
N/A*	C9497
N/A*	C9498
N/A*	C9499
N/A*	C9501
N/A*	C9502
N/A*	C9503

Table A-1. 200-DV-1 Operable Unit Well List

Hanford Well Name	Hanford Well Identification Number
N/A*	C9504
N/A*	C9505
N/A*	C9506
N/A*	C9507
N/A*	C9508
N/A*	C9509
N/A*	C9510
N/A*	C9511
N/A*	C9512
N/A*	C9513
N/A*	C9514

* to be drilled

N/A = not applicable

This page intentionally left blank.