

4.0 Well Installation, Maintenance, and Decommissioning

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This section describes new well installation, maintenance, and decommissioning activities conducted on the Hanford Site during fiscal year (FY) 2007. In addition, FY 2007 characterization borehole installations (sites where casing was removed and decommissioned after drilling) are summarized.

Approximately 8,836 unique well identification numbers are in use at the Hanford Site. All wells, characterization boreholes, aquifer tubes, soil tubes, piezometers, and other subsurface excavations are required to receive a unique Hanford well identification number. All wells are also required to have a state well identification number that is tracked by the Washington Department of Ecology (Ecology). Figure 4.0-1 presents the categorization of unique well identification numbers from the Hanford Well Information System (HWIS) and their approximate geographic designation. Figure 4.0-2 identifies the geographic designations for the Hanford Site.

During FY 2007, a total of 3,085 unique well identification numbers were documented as 'in use' (this number includes 2,310 wells, 129 piezometers within host wells, 354 aquifer tubes, and 292 soil tubes). A total of 57 new monitoring wells were installed during FY 2007. A total of 91 wells were physically decommissioned during FY 2007 and a total of 623 temporary boreholes and subsurface installations were administratively decommissioned by records management.

During review of candidate wells for decommissioning, a records review is conducted to clearly identify the wells location and its attributes by performing (a) a thorough review of the entries for these candidate wells in the Hanford Environmental Information System (HEIS) and HWIS, and (b) a review of records from other contractors. This data is used to define and locate the wells to be decommissioned in the field. The candidate wells that are not found in the field after a reasonable search using field inspections, global positioning system technology, and subsurface magnetometry are considered decommissioned without previous record and are subsequently administratively decommissioned to remove them from the in-use status. A very limited number of new wells are also located during the course of field activities. These wells are added to the Hanford well inventory and assigned a unique well identification number and appropriate status.

Each year the Groundwater Remediation Project reviews the need for new monitoring wells. In FY 2007, 57 new wells were installed.

Based on groundwater monitoring requirements, DOE, EPA, and Ecology agree on new wells needed and prioritize the requirements of RCRA, CERCLA, and AEA. During FY 2007, 57 new wells were installed on the Hanford Site:

- Fourteen for CERCLA monitoring (fulfilling Tri-Party Agreement Milestone M-24-57 commitments).***
- Forty-three to support groundwater contaminant studies, treatability testing, and ongoing or new groundwater investigations.***

4.1 Well Installation

The Soil and Groundwater Remediation Project, working with the U.S. Department of Energy (DOE) and appropriate regulators, defines the need for new wells at the Hanford Site. Each year, the groundwater project identifies new wells to meet the requirements of the *Resource Conservation and Recovery Act* (RCRA) detection and assessment groundwater monitoring requirements; characterization and monitoring for the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA); and long-term monitoring of regional groundwater plumes under DOE Orders based on the *Atomic Energy Act* (AEA). These efforts include ongoing RCRA assessment of groundwater contamination, replacement of monitoring wells that go dry because of the declining regional water table, replacement of wells that need to be decommissioned, improvement of spatial coverage for the detection monitoring networks or for plume monitoring, and characterization of subsurface contamination.

The revised Tri-Party Agreement milestone includes a prioritized list and schedule for installation of 60 wells over 4 years.

New RCRA, CERCLA, and AEA well proposals are reviewed, prioritized, and approved annually as defined under the Tri-Party Agreement (Ecology et al. 1989) Milestone M-24. All new wells are constructed or decommissioned in accordance with the provisions of WAC173-160. Well needs are integrated and documented through development of the SGRP budget, discussion with regulators, and monitoring needs. Ecology, U.S. Environmental Protection Agency (EPA), and DOE (the Tri-Parties) annually negotiate an integrated well drilling list that coordinates and prioritizes the requirements of RCRA, CERCLA, and AEA under Tri-Party Agreement Milestone M-24-57.

During FY 2007, a total of 57 new wells were installed at the Hanford Site (Table 4.0-1). These wells were constructed to support activities funded under either M-24 or other project-specific activities. The approximate locations of the new wells are shown on Figure 4.0-3. Detailed maps presenting the location of new wells are shown in the corresponding operable unit sections of this report. Of these 57 wells, the Tri-Party Agreement Milestone M-24-57 approved the installation of 14 wells supporting the FY 2007 and FY 2008 milestones. No wells to support RCRA activities were installed in FY 2007.

The 14 wells supporting the M-24 milestone included three new wells in the 100-D Area within the 100-HR-3 Operable Unit and three wells in the 100-K Area within the 100-KR-4 Operable Unit. Five new wells were constructed in the 200 West Area, four of which were located in the 200-ZP-1 Operable Unit and one in the 200-UP-1 Operable Unit. Three new wells were constructed in the 200-BP-5 Operable Unit; one of these wells is in the 200 East Area and two of them in the 600 Area.

In FY 2006, the United States Congress authorized funding for the Hanford Site to analyze contaminant migration to the Columbia River and to introduce new technology approaches to solve contamination migration issues. These funds are administered through the DOE Office of Environmental Management (specifically through the EM-22 program). After a peer review and selection process, projects were developed to investigate the source and treatment of hexavalent chromium and uranium in the groundwater. The treatment of hexavalent chromium is being evaluated by the injection of a microbial substrate (biostimulation) or the surface treatment of groundwater via an electrocoagulation resin. The treatment of uranium is being evaluated via the injection of polyphosphate. Thirty-five wells were identified for construction to meet

the objectives of the EM-22 program and would be administered under the control of either Pacific Northwest National Laboratory or Fluor Hanford, Inc.

Of the 35 wells identified, 20 wells were constructed in the 100-D Area within the 100-HR-3 Operable Unit. Of these 20 wells, 7 were constructed as chromium source investigation wells. (Note: three of these seven wells were counted toward the M-24 milestone total). The remaining 13 of 20 wells were constructed as chromium treatment wells, 12 of which were installed to evaluate biostimulation and one to support testing of an electrocoagulation system (Table 4.0-1).

The remaining 15 of 35 wells were constructed in the 300-FF-5 Operable Unit, in the 300 Area, to evaluate the treatment of uranium in the groundwater by injecting polyphosphate.

In conclusion, of the 57 new wells drilled, 11 additional wells were also installed in FY 2007 to support activities beyond the scope of the M-24 milestone and wells supporting DOE Environmental Management EM-22. These included:

- Two wells installed at 100-B/C Area for Washington Closure Hanford to evaluate the presence and extent of hexavalent chromium in the 100-BC-5 Operable Unit.
- Six wells installed to evaluate the vertical and horizontal extent of hexavalent chromium in the 600 Area of the “horn” for the 100-HR-3 Operable Unit as part of a 2-year, 21 well project.
- One well at 100-K Area as an injection well for the 100-KR-4 Operable Unit pump-and-treat.
- One well in the 200 East Area for the 200-PO-1 Operable Unit.
- One well in the 300 Area to evaluate the vertical extent of trichloroethene in the 300-FF-5 Operable Unit.

Water well reports for all newly constructed wells, as required in WAC 173-160, are submitted to Ecology and added to the Ecology well log database. Detailed information about the wells, including the geologic and geophysical descriptions, a listing of characterization activities (i.e., sediment and groundwater sampling, aquifer testing, geophysical logging) and construction records for the new wells are electronically stored in the Integrated Data Management System (IDMS) database. Selected drilling and well construction information (drill depth, screen interval, etc.) are also entered into the HWIS, which is contained within the HEIS database.

Twenty-seven new aquifer sampling tubes were installed along the Columbia River shore during FY 2007. The aquifer tubes are not included in the total count of 57 wells drilled but are tracked in the HWIS database for administrative purposes. Nine of the new aquifer tubes were installed in the 100-N Area shoreline (N Springs) to support either science and technology work or the apatite-barrier treatability test. Eighteen new aquifer sampling tubes were also installed in the “horn” area of the 100-HR-3 Operable Unit to evaluate the extent of hexavalent chromium along the river. The new monitoring points are similar to aquifer tubes monitored elsewhere on the Hanford Site shoreline and range in depth from 0.8 to 5.3 meters.

During FY 2007, a number of temporary characterization boreholes were installed around the Hanford Site to support various projects. Characterization borings are the same as an environmental investigation well (WAC 173-160-410) and are a subclass of resource protection wells. The temporary boreholes are

*Twenty-seven new
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tubes were installed
along the
Columbia River.*

Well maintenance activities include casing repairs, repairing and replacing sampling pumps, pump and equipment retrieval, and tubing replacement.

installed for subsurface characterization of radiological constituents, volatile organics (e.g., carbon tetrachloride), or hydrogeologic property determination (e.g., moisture, grain size distribution). While typically installed to characterize the vadose zone, borings can be drilled to groundwater to obtain a one-time sample and then decommissioned. During FY 2007, 109 temporary boreholes (such as cone penetrometer, direct-push technology boreholes, auger, and/or drilled boreholes) were installed. Four borings were drilled to groundwater to collect water samples. Table 4.0-2 provides a summary of the number, program, and general location of these temporary boreholes. The drilling and decommissioning of these temporary characterization boreholes are not included in the count of either new wells or in the decommissioning statistics (physical or administrative). All of the temporary boreholes were decommissioned after data acquisition was completed. Chapter 3 of this report provides more details about vadose characterization studies conducted during FY 2007.

4.2 Well Maintenance

During FY 2007, non-routine maintenance was completed on 186 wells (219 total maintenance events). A summary of non-routine maintenance activities by regulatory program is presented in Table 4.0-3. Non-routine maintenance tasks, which include both surface and sub-surface aspects, are varied and depend on the specific problem encountered at a well. Surface tasks include conducting field inspections, well labeling, maintenance and replacement of locking well caps, casing repairs, diagnosis and repair of surface electrical wiring, and pump-discharge fitting. Subsurface tasks typically include repairing and replacing sampling pumps, performing camera surveys, pump and equipment retrieval, and tubing replacement.

In the past, the distinction between routine and non-routine maintenance activities was based on a set group of activities and a 5-year cleaning cycle. Currently, any well requiring maintenance to preserve sampling efficiency is repaired under the non-routine maintenance program. This means that if a project scientist determines that a well is losing sampling efficiency, those tasks typically conducted under routine maintenance (identified above) can be conducted under the non-routine tasks. Therefore, while not following a 5-year maintenance schedule, wells are still being maintained as needed to meet specific project and schedule requirements.

4.3 Well Decommissioning

A well becomes a candidate for decommissioning if: (1) its use has been permanently discontinued (i.e., it has gone dry); (2) its condition is so poor that its continued use is impractical; (3) it is in the path of intended remediation, excavation, and construction activities; or (4) it poses an environmental, safety, or public health hazard (e.g., casing corrosion). At this time, decommissioning is generally driven by the long-range environmental restoration schedule (DOE/RL-96-105), available funding, and provisions of WAC 173-160. In addition, the list of candidate wells for decommissioning includes wells identified in HWIS that have no further use. However, all candidate wells must be reviewed and approved for decommissioning by the contractors, DOE, Ecology, EPA, and other potential well users (such as Pacific Northwest National Laboratory) prior to actual decommissioning.

During FY 2007, a total of 91 vadose zone and monitoring well installations were physically decommissioned (Table 4.0-4 and Figure 4.0-4). The 91 wells were identified for decommissioning based on: (1) discontinued use; (2) inadequate construction; (3) location inside or within 15.2 meters of a waste site; and/or (4) posing a potential environmental, safety, or public health hazard due to their location inside the waste sites and would possibly serve as a conduit to transport chemical and radiological hazards deeper into the vadose zone or groundwater.

Decommissioning typically involves backfilling a well with impermeable material to prevent vertical movement of water and/or contaminants. For WAC-compliant wells, decommissioning typically is performed by placing sand across the screen interval and filling the casing with an impermeable material (e.g., bentonite or cement grout). For older, non-compliant wells, the casing(s) is perforated and pressure grouted to create an external seal or the casing is removed. A brass survey marker identifying the well is typically set in grout at the surface and over the well location. Decommissioning activities result in the permanent removal of a well, borehole, or piezometer from service and from the Hanford Site active well inventory. Decommissioning is performed in accordance with WAC 173-160, applicable well variances, and conditions defined in the Hanford Facility RCRA Permit (Ecology 1994a, Condition II.F.2). Characterization boreholes are not included in the decommissioning statistics listed in Table 4.0-4.

A total of 623 temporary boreholes and subsurface installations were administratively decommissioned by the well management program. DOE follows the requirements of WAC 173-160-460 with regard to well decommissioning. A completed water well report form is required to be transmitted (by the driller) to Ecology when a well is decommissioned. This report provides the details of the well's construction and the steps taken to decommission (plug) the well. When the records available are insufficient to meet the specific requirements of the well decommissioning process, or there is no record of the transmittal, the wells are administratively decommissioned, i.e., all available information is provided to Ecology to demonstrate that the well was never drilled or was drilled and subsequently plugged. Since many hundreds of wells were planned but not drilled, or drilled but subsequently plugged, between the Hanford Site inception in 1943 and 1986, these wells are candidates for administrative decommissioning. In addition, records of some wells that were planned and not drilled, or drilled and plugged after 1986, apparently were inadvertently not transmitted to Ecology as required.

Wells are filled with grout if they are in poor condition, interfere with surface construction activities, or are no longer used.

Table 4.0-1. Well Installations, FY 2007

Count	Well ID	Well Name	GW AOI(a)	Construction Date	Well Project	Funding Source	Area
Wells Supporting M-24 Milestone							
1	C5390	199-D5-97	100-HR-3-D	22-Feb-07	100-D Chromium Source Investigation	EM-22 FHI	100D
2	C5391	199-D5-98	100-HR-3-D	02-Apr-07	100-D Chromium Source Investigation	EM-22 FHI	100D
3	C5392	199-D5-99	100-HR-3-D	26-Feb-07	100-D Chromium Source Investigation	EM-22 FHI	100D
4	C5303	199-K-141	100-KR-4	03-Jan-07	100-KR-4 Operable Unit	SGRP	100K
5	C5304	199-K-142	100-KR-4	19-Jan-07	100-KR-4 Operable Unit	SGRP	100K
6	C5305	199-K-143	100-KR-4	20-Dec-06	100-KR-4 Operable Unit	SGRP	100K
7	C5195	299-E33-50	200-BP-5	29-Mar-07	200-BP-5 Operable Unit	SGRP	200E
8	C5855	299-W10-33	200-ZP-1	28-Sep-07	200-ZP-1 Operable Unit	SGRP	200W
9	C5243	299-W11-48	200-ZP-1	02-Jul-07	200-ZP-1 Operable Unit	SGRP	200W
10	C5407	299-W11-87	200-ZP-1	06-Apr-07	200-ZP-1 Operable Unit	SGRP	200W
11	C5102	299-W14-71	200-UP-1	22-Dec-06	200-ZP-1 Operable Unit	SGRP	200W
12	C5103	299-W14-72	200-ZP-1	16-Nov-06	200-ZP-1 Operable Unit	SGRP	200W
13	C5196	699-48-50B	200-BP-5	05-Dec-06	200-BP-5 Operable Unit	SGRP	600
14	C5197	699-50-56	200-BP-5	15-Dec-06	200-BP-5 Operable Unit	SGRP	600
Wells Supporting Environmental Management EM-22							
1	C5394	199-D2-11	100-HR-3-D	07-Mar-07	100-D Chromium Source Investigation	EM-22 FHI	100D
2	C5398	199-D5-102	100-HR-3-D	02-Apr-07	100-D Chromium Source Investigation	EM-22 FHI	100D
3	C5399	199-D5-103	100-HR-3-D	02-Apr-07	100-D Chromium Source Investigation	EM-22 FHI	100D
4	C5400	199-D5-104	100-HR-3-D	02-Apr-07	100-D Chromium Source Investigation	EM-22 FHI	100D
5	C5511	199-D5-106	100-HR-3-D	27-Mar-07	100-HR-3 Treatability Test	EM-22 FHI Electro Coagulation	100D

Table 4.0-1. (contd)

Count	Well ID	Well Name	GW AOI(a)	Construction Date	Well Project	Funding Source	Area
6	C5577	199-D5-107	100-HR-3-D	18-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
7	C5578	199-D5-108	100-HR-3-D	08-Jun-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
8	C5579	199-D5-109	100-HR-3-D	16-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
9	C5580	199-D5-110	100-HR-3-D	29-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
10	C5581	199-D5-111	100-HR-3-D	14-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
11	C5582	199-D5-112	100-HR-3-D	31-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
12	C5583	199-D5-113	100-HR-3-D	25-May-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
13	C5584	199-D5-114	100-HR-3-D	12-Jun-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
14	C5585	199-D5-115	100-HR-3-D	10-Jul-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
15	C5586	199-D5-116	100-HR-3-D	29-Jun-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
16	C5587	199-D5-117	100-HR-3-D	18-Jun-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
17	C5588	199-D5-118	100-HR-3-D	26-Jun-07	100-D Biostimulation Treatability Test	EM-22 PNNL	100D
18	C5351	399-1-24	300-FF-5	16-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
19	C5352	399-1-25	300-FF-5	17-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
20	C5353	399-1-26	300-FF-5	21-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
21	C5354	399-1-27	300-FF-5	29-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
22	C5355	399-1-28	300-FF-5	30-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
23	C5356	399-1-29	300-FF-5	01-Dec-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
24	C5357	399-1-30	300-FF-5	28-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
25	C5358	399-1-31	300-FF-5	20-Nov-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300

Table 4.0-1. (contd)

Count	Well ID	Well Name	GW AOI(a)	Construction Date	Well Project	Funding Source	Area
26	C5359	399-1-32	300-FF-5	04-Dec-06	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
27	C5626	399-1-33	300-FF-5	01-Jun-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
28	C5627	399-1-34	300-FF-5	01-Jun-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
29	C5628	399-1-35	300-FF-5	25-May-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
30	C5629	399-1-36	300-FF-5	10-May-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
31	C5630	399-1-37	300-FF-5	01-Jun-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
32	C5631	399-1-38	300-FF-5	01-Jun-07	300-FF-5 Polyphosphate Treatability Test	EM-22 PNNL	300
Wells Non Tri-Party Agreement							
1	C5671	199-B8-7	100-BC-5	15-Aug-07	100-BC-5 Operable Unit/WCH Site Characterization	SGRP	100B
2	C5672	199-B8-8	100-BC-5	14-Aug-07	100-BC-5 Operable Unit/WCH Site Characterization	SGRP	100B
3	C5484	199-K-158	100-KR-4	22-Jan-07	100-KW Pump-and-Treat Injection	SGRP	100K
4	C5301	299-E24-23	200-PO-1	16-Apr-07	200-PO-1 Operable Unit	SGRP	200E
5	C5575	399-3-21	300-FF-5	15-May-07	300-FF-5 Trichloroethene (TCE characterization)	SGRP	300
6	C5665	699-94-41	100-HR-3-H	04-Sep-07	100-HR-3 Operable Unit Horn Investigation	SGRP	100H
7	C5661	699-94-43	100-HR-3-H	28-Sep-07	100-HR-3 Operable Unit Horn Investigation	SGRP	600
8	C5660	699-95-45	100-HR-3-H	18-Sep-07	100-HR-3 Operable Unit Horn Investigation	SGRP	600
9	C5667	699-95-48	100-HR-3-D	21-Sep-07	100-HR-3 Operable Unit Horn Investigation	SGRP	600
10	C5657	699-97-41	100-HR-3-H	29-Aug-07	100-HR-3 Operable Unit Horn Investigation	SGRP	100H
11	C5662	699-97-48B	100-HR-3-D	27-Sep-07	100-HR-3 Operable Unit Horn Investigation	SGRP	600
57	Total Wells Installed in FY07						
(a) = Groundwater area of interest. SGRP = Soil and Groundwater Remediation Project.							

Table 4.0-2. Characterization Boreholes, Soil-Gas Probes, and Push Technology Installation, FY 2007

Well ID and Name	Program	General Location and/or Purpose
C5163	DOE-ORP Tank Farm Vadose	B Tank Farm
C5164	DOE-ORP Tank Farm Vadose	B Tank Farm
C5167	DOE-ORP Tank Farm Vadose	B Tank Farm
C5168	DOE-ORP Tank Farm Vadose	B Tank Farm
C5169	DOE-ORP Tank Farm Vadose	B Tank Farm
C5170	DOE-ORP Tank Farm Vadose	B Tank Farm
C5173	DOE-ORP Tank Farm Vadose	B Tank Farm
C5175	DOE-ORP Tank Farm Vadose	B Tank Farm
C5208	Vista DPT Work	Cold Test site in 200W, Z-9 trench, Z-1A tile field, Z-18 crib
C5210	Vista DPT Work	Cold Test site in 200W, Z-9 trench, Z-1A tile field, Z-18 crib
C5302	RI/FS Activity	Push probe at the 200-E-trench
C5336	Vista DPT Work	Work around 216-Z-9 and 216-Z-1A cribs
C5337	Vista DPT Work	Work around 216-Z-9 and 216-Z-1A cribs
C5338	Vista DPT Work	Work around 216-Z-9 and 216-Z-1A cribs
C5339	Vista DPT Work	Work around 216-Z-9 and 216-Z-1A cribs
C5374	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell Tank T-101.
C5375	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell Tank T-101.
C5377	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell Tank T-101.
C5378	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5379	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5380	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5382	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5383	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5384	DOE-ORP Tank Farm Vadose	Push probes at 241-T Tank Farm near single-shell tank T-101.
C5387	300-Area Plutonium Investigation	Characterization Borings at 618-2 Burial Grounds, 300 Area.
C5388	300-Area Plutonium Investigation	Characterization Borings at 618-2 Burial Grounds, 300 Area.
C5389	300-Area Plutonium Investigation	Characterization Borings at 618-2 Burial Grounds, 300 Area.
C5516	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5517	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5518	RI/FS Activity	BC Controlled Area Geoprobe and Logging.

Table 4.0-2. (contd)

Well ID and Name	Program	General Location and/or Purpose
C5519	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5520	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5521	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5522	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5523	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5524	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5525	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5526	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5527	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5528	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5529	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5530	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5531	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5532	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5533	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5534	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5535	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5536	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5537	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5538	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5539	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5540	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5541	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5542	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5543	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5544	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5545	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5546	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5547	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5548	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5549	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5550	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5551	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5552	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5553	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5554	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5555	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5556	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5557	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5558	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5559	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5560	RI/FS Activity	BC Controlled Area Geoprobe and Logging.

Table 4.0-2. (contd)

Well ID and Name	Program	General Location and/or Purpose
C5561	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5562	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5563	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5564	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5565	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5566	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5567	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5568	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5569	RI/FS Activity	BC Controlled Area Geoprobe and Logging.
C5613	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5614	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5615	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5616	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5617	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5618	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5619	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5620	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5621	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5622	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5623	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5624	RI/FS Activity	BC Controlled Area auger drilling and sampling.
C5670	RI/FS Activity	100-BC Area, 3 characterization borings for WCH.
C5689	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
C5690	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
C5691	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
C5692	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
C5693	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
C5694	DOE-ORP Tank Farm Vadose	T Tank Farm characterization and instrumentation borings.
DPT - Direct push technology. DOE-ORP = U.S. Department of Energy, Office of River Protection. RI/FS = Remedial investigation/feasibility study.		

Table 4.0-3. Well Maintenance Summary, FY 2007

Well Number	Well ID	Task Number	Program	Well Number	Well ID	Task Number	Program
299-W19-34B	A9513	WMO-NR-2007-1-001	CERCLA	699-67-86	A5313	WMO-NR-2007-2-019	CERCLA
299-E17-12	A4730	WMO-NR-2007-1-005	CERCLA	699-34-42	A5136	WMO-NR-2007-2-020	CERCLA
299-E17-13	A4731	WMO-NR-2007-1-006	CERCLA	699-20-20	A5080	WMO-NR-2007-2-021	CERCLA
299-E17-26	C4648	WMO-NR-2007-1-021	RCRA	699-29-4	A8490	WMO-NR-2007-2-022	CERCLA
299-E25-41	A4790	WMO-NR-2007-1-022	RCRA	699-26-15A	A5100	WMO-NR-2007-2-023	CERCLA
699-35-78A	A5141	WMO-NR-2007-1-023	CERCLA	699-S8-19	A5408	WMO-NR-2007-2-024	CERCLA
699-56-53	A5265	WMO-NR-2007-1-024	AEA	299-W22-48	B8812	WMO-NR-2007-2-025	RCRA
699-56-53	A5265	WMO-NR-2007-1-024	AEA	299-E27-13	A4811	WMO-NR-2007-2-027	CERCLA
199-K-35	A4661	WMO-NR-2007-1-025	CERCLA	299-E27-13	A4811	WMO-NR-2007-2-027	CERCLA
199-K-35	A4661	WMO-NR-2007-1-025	CERCLA	699-S3-25	A5373	WMO-NR-2007-2-028	CERCLA
699-71-30	A5320	WMO-NR-2007-1-026	CERCLA	299-W15-30	B2410	WMO-NR-2007-2-029	CERCLA
699-67-51	A5312	WMO-NR-2007-1-027	CERCLA	699-19-43	A5075	WMO-NR-2007-2-030	CERCLA
699-72-73	A5323	WMO-NR-2007-1-028	CERCLA	699-8-25	A5334	WMO-NR-2007-2-031	CERCLA
699-48-71	A5214	WMO-NR-2007-1-029	CERCLA	699-28-40	A5110	WMO-NR-2007-2-032	CERCLA
299-E33-15	A4842	WMO-NR-2007-1-030	RCRA	699-14-38	A5068	WMO-NR-2007-2-033	CERCLA
199-N-146	C5052	WMO-NR-2007-1-031	CERCLA	199-B2-12	A4550	WMO-NR-2007-2-034	CERCLA
699-53-47B	A5240	WMO-NR-2007-1-032	CERCLA	699-20-E5A	A8428	WMO-NR-2007-2-035	CERCLA
199-H3-2A	A4611	WMO-NR-2007-1-033	CERCLA	699-34-41B	A5135	WMO-NR-2007-2-036	CERCLA
699-60-32	A5279	WMO-NR-2007-1-034	CERCLA	699-40-65	C4235	WMO-NR-2007-2-039	CERCLA
699-54-48	A5252	WMO-NR-2007-1-035	CERCLA	699-48-77A	A8772	WMO-NR-2007-2-040	CERCLA
199-D4-31	B8982	WMO-NR-2007-1-036	CERCLA	699-12-4D	A8252	WMO-NR-2007-2-041	CERCLA
199-D2-8	C3040	WMO-NR-2007-1-037	CERCLA	699-S31-1	A5378	WMO-NR-2007-2-042	OTHER
299-E28-18	A4821	WMO-NR-2007-1-038	CERCLA	699-13-1E	C3798	WMO-NR-2007-2-043	CERCLA
299-E28-21	A6797	WMO-NR-2007-1-040	CERCLA	699-61-62	A5285	WMO-NR-2007-2-044	CERCLA
399-1-7	A5040	WMO-NR-2007-1-041	CERCLA	699-65-50	A5300	WMO-NR-2007-2-045	CERCLA
299-W10-28	C3400	WMO-NR-2007-1-042	RCRA	699-10-54A	A5063	WMO-NR-2007-2-046	CERCLA
199-D5-13	A4570	WMO-NR-2007-1-044	CERCLA	299-E33-16	A6855	WMO-NR-2007-2-047	RCRA
199-D5-13	A4570	WMO-NR-2007-1-044	CERCLA	299-W11-41	C3119	WMO-NR-2007-2-048	RCRA
199-D5-41	B8751	WMO-NR-2007-1-045	CERCLA	299-W10-23	B8545	WMO-NR-2007-2-049	RCRA
399-1-23	C5000	WMO-NR-2007-1-046	CERCLA	699-33-56	A5133	WMO-NR-2007-2-050	CERCLA
299-W18-23	A4935	WMO-NR-2007-1-047	CERCLA	699-35-66A	A5139	WMO-NR-2007-2-051	CERCLA
299-W18-23	A4935	WMO-NR-2007-1-047	CERCLA	699-35-9	A5142	WMO-NR-2007-2-052	CERCLA
299-W18-23	A4935	WMO-NR-2007-1-047	CERCLA	699-36-67	B2733	WMO-NR-2007-2-053	CERCLA
299-W18-31	A4943	WMO-NR-2007-1-048	RCRA	699-37-43	A5146	WMO-NR-2007-2-054	CERCLA
699-62-31	A5287	WMO-NR-2007-1-049	CERCLA	699-37-68	B2732	WMO-NR-2007-2-055	CERCLA
299-W11-47	C4990	WMO-NR-2007-1-050	CERCLA	699-37-E4	A8588	WMO-NR-2007-2-056	CERCLA
699-63-25A	A5289	WMO-NR-2007-1-051	CERCLA	699-38-15	A8594	WMO-NR-2007-2-057	CERCLA
299-W19-34B	A9513	WMO-NR-2007-1-052	CERCLA	699-39-39	A5150	WMO-NR-2007-2-058	CERCLA
299-E28-18	A4821	WMO-NR-2007-1-053	CERCLA	699-49-57B	A5220	WMO-NR-2007-2-059	CERCLA
299-E28-21	A6797	WMO-NR-2007-1-054	CERCLA	699-53-55A	A5244	WMO-NR-2007-2-060	CERCLA
199-D5-37	B8745	WMO-NR-2007-1-055	CERCLA	299-E28-13	A6791	WMO-NR-2007-2-061	CERCLA
299-W11-43	C4694	WMO-NR-2007-1-056	CERCLA	699-61-62	A5285	WMO-NR-2007-2-065	CERCLA
299-W22-86	C4971	WMO-NR-2007-1-057	CERCLA	299-W19-41	B8551	WMO-NR-2007-2-066	RCRA
299-E25-40	A4789	WMO-NR-2007-1-058	RCRA	699-S31-E10D	A5382	WMO-NR-2007-2-067	RCRA
299-W22-48	B8812	WMO-NR-2007-2-001	RCRA	699-53-55C	A5246	WMO-NR-2007-2-068	CERCLA
299-W23-20	C3112	WMO-NR-2007-2-002	RCRA	699-55-57	A5259	WMO-NR-2007-2-069	CERCLA
699-40-1	A5152	WMO-NR-2007-2-005	CERCLA	699-S29-E16A	A5429	WMO-NR-2007-2-070	OTHER
699-42-12A	A5163	WMO-NR-2007-2-006	CERCLA	699-S31-E10A	A5379	WMO-NR-2007-2-071	OTHER
299-E28-28	A4824	WMO-NR-2007-2-008	RCRA	699-S31-E11	A9220	WMO-NR-2007-2-072	RCRA
299-W18-33	A5450	WMO-NR-2007-2-009	CERCLA	699-S32-E13A	A5385	WMO-NR-2007-2-073	OTHER
299-W22-85	C3399	WMO-NR-2007-2-010	RCRA	699-S37-E14	A5394	WMO-NR-2007-2-074	OTHER
299-W22-82	C3124	WMO-NR-2007-2-011	RCRA	699-S40-E13A	A9238	WMO-NR-2007-2-075	OTHER
199-K-131	C4561	WMO-NR-2007-2-014	CERCLA	699-S40-E14	A5398	WMO-NR-2007-2-076	OTHER
699-66-58	A5309	WMO-NR-2007-2-015	CERCLA	699-S41-E12	A5400	WMO-NR-2007-2-077	OTHER
699-40-33A	A5153	WMO-NR-2007-2-016	CERCLA	299-E17-26	C4648	WMO-NR-2007-2-078	RCRA

Table 4.0-3. (contd)

Well Number	Well ID	Task Number	Program	Well Number	Well ID	Task Number	Program
699-48-7A	A5213	WMO-NR-2007-2-017	CERCLA	699-20-E12O	A9613	WMO-NR-2007-2-079	CERCLA
699-71-77	A5322	WMO-NR-2007-2-018	CERCLA	199-D5-13	A4570	WMO-NR-2007-2-080	CERCLA
199-D5-41	B8751	WMO-NR-2007-2-081	CERCLA	699-S22-E9A	A5422	WMO-NR-2007-3-047	CERCLA
199-D4-86	C3318	WMO-NR-2007-2-082	CERCLA	699-S22-E9C	A5424	WMO-NR-2007-3-048	CERCLA
699-51-75	A5232	WMO-NR-2007-2-083	OTHER	699-S27-E9A	A5425	WMO-NR-2007-3-049	CERCLA
299-W15-47	C4184	WMO-NR-2007-2-084	CERCLA	699-S27-E9B	A5426	WMO-NR-2007-3-050	CERCLA
299-E24-8	A4758	WMO-NR-2007-2-086	OTHER	699-S27-E9C	A5427	WMO-NR-2007-3-051	CERCLA
299-E25-37	A4785	WMO-NR-2007-2-088	OTHER	699-S29-E16B	A5430	WMO-NR-2007-3-052	CERCLA
299-E25-43	A4792	WMO-NR-2007-2-089	OTHER	699-S29-E16C	A5431	WMO-NR-2007-3-053	CERCLA
299-E25-44	A5448	WMO-NR-2007-2-090	OTHER	699-S41-E13A	A5401	WMO-NR-2007-3-054	CERCLA
299-E25-47	A4794	WMO-NR-2007-2-091	OTHER	699-S41-E13A	A5401	WMO-NR-2007-3-054	CERCLA
299-E34-5	A4880	WMO-NR-2007-2-092	OTHER	699-S6-E14A	A5405	WMO-NR-2007-3-055	CERCLA
699-19-88	A5077	WMO-NR-2007-2-093	OTHER	299-W19-105	C4968	WMO-NR-2007-3-056	CERCLA
699-21-6	A8438	WMO-NR-2007-2-094	OTHER	699-45-42	A5195	WMO-NR-2007-3-057	CERCLA
699-33-42	A5132	WMO-NR-2007-2-095	OTHER	699-43-3	A8677	WMO-NR-2007-3-058	CERCLA
699-S38-E11	A5395	WMO-NR-2007-2-096	OTHER	699-43-41E	A5174	WMO-NR-2007-3-059	CERCLA
699-S38-E12B	A5397	WMO-NR-2007-2-097	OTHER	699-53-47A	A5239	WMO-NR-2007-3-061	CERCLA
199-D2-8	C3040	WMO-NR-2007-2-098	CERCLA	699-53-48A	A5241	WMO-NR-2007-3-062	CERCLA
299-E27-14	A4812	WMO-NR-2007-2-099	CERCLA	199-D5-41	B8751	WMO-NR-2007-3-063	CERCLA
199-D5-43	B8753	WMO-NR-2007-2-100	CERCLA	199-D2-8	C3040	WMO-NR-2007-3-073	CERCLA
199-D5-38	B8747	WMO-NR-2007-2-101	CERCLA	699-9-E2	A5349	WMO-NR-2007-3-074	CERCLA
299-W23-15	A4984	WMO-NR-2007-2-102	CERCLA	699-47-5	A8744	WMO-NR-2007-3-077	CERCLA
299-E27-13	A4811	WMO-NR-2007-2-103	RCRA	699-54-34	A5248	WMO-NR-2007-4-000	CERCLA
299-E25-40	A4789	WMO-NR-2007-3-001	RCRA	699-36-61A	A5144	WMO-NR-2007-4-001	CERCLA
699-53-55C	A5246	WMO-NR-2007-3-002	CERCLA	299-E25-19	A4765	WMO-NR-2007-4-004	CERCLA
199-D2-11	C5394	WMO-NR-2007-3-003	CERCLA	299-E33-18	A4844	WMO-NR-2007-4-007	CERCLA
199-D5-97	C5390	WMO-NR-2007-3-004	CERCLA	299-E28-2	A6785	WMO-NR-2007-4-008	CERCLA
199-D5-98	C5391	WMO-NR-2007-3-005	CERCLA	299-E33-41	A4867	WMO-NR-2007-4-009	CERCLA
199-D5-99	C5392	WMO-NR-2007-3-006	CERCLA	299-E33-41	A4867	WMO-NR-2007-4-009	CERCLA
199-D5-102	C5398	WMO-NR-2007-3-007	CERCLA	699-2-3	A5078	WMO-NR-2007-4-012	CERCLA
199-D5-103	C5399	WMO-NR-2007-3-008	CERCLA	199-K-131	C4561	WMO-NR-2007-4-014	CERCLA
199-D5-104	C5400	WMO-NR-2007-3-009	CERCLA	199-K-109A	A9828	WMO-NR-2007-4-015	CERCLA
299-W15-36	B2752	WMO-NR-2007-3-010	CERCLA	299-E17-22	C3826	WMO-NR-2007-4-017	CERCLA
199-D2-11	C5394	WMO-NR-2007-3-018	CERCLA	299-E33-1A	A4838	WMO-NR-2007-4-018	CERCLA
199-D2-8	C3040	WMO-NR-2007-3-019	CERCLA	199-D5-33	C4186	WMO-NR-2007-4-019	CERCLA
299-E33-339	C3392	WMO-NR-2007-3-021	RCRA	299-W10-28	C3400	WMO-NR-2007-4-020	CERCLA
699-24-34A	A5090	WMO-NR-2007-3-022	RCRA	299-E33-1A	A4838	WMO-NR-2007-4-021	CERCLA
199-D5-92	C4583	WMO-NR-2007-3-023	CERCLA	299-E33-14	A4841	WMO-NR-2007-4-022	CERCLA
299-E24-8	A4758	WMO-NR-2007-3-024	CERCLA	299-E33-14	A4841	WMO-NR-2007-4-022	CERCLA
199-N-146	C5052	WMO-NR-2007-3-025	CERCLA	299-W11-45	C4948	WMO-NR-2007-4-024	CERCLA
699-33-42	A5132	WMO-NR-2007-3-028	CERCLA	299-W11-46	C4950	WMO-NR-2007-4-025	CERCLA
199-D5-104	C5400	WMO-NR-2007-3-030	CERCLA	199-K-109A	A9828	WMO-NR-2007-4-027	CERCLA
199-D5-97	C5390	WMO-NR-2007-3-031	CERCLA	299-W11-87	C5407	WMO-NR-2007-4-028	CERCLA
299-E23-1	A4747	WMO-NR-2007-3-032	CERCLA	299-W15-2	A5466	WMO-NR-2007-4-030	CERCLA
299-E28-13	A6791	WMO-NR-2007-3-033	CERCLA	299-W22-26	A4968	WMO-NR-2007-4-031	CERCLA
299-E25-42	A4791	WMO-NR-2007-3-034	CERCLA	299-W18-31	A4943	WMO-NR-2007-4-033	CERCLA
299-E28-2	A6785	WMO-NR-2007-3-035	CERCLA	299-W8-1	A5016	WMO-NR-2007-4-034	CERCLA
299-E28-21	A6797	WMO-NR-2007-3-036	CERCLA	699-32-62	A5128	WMO-NR-2007-4-035	CERCLA

Table 4.0-3. (contd)

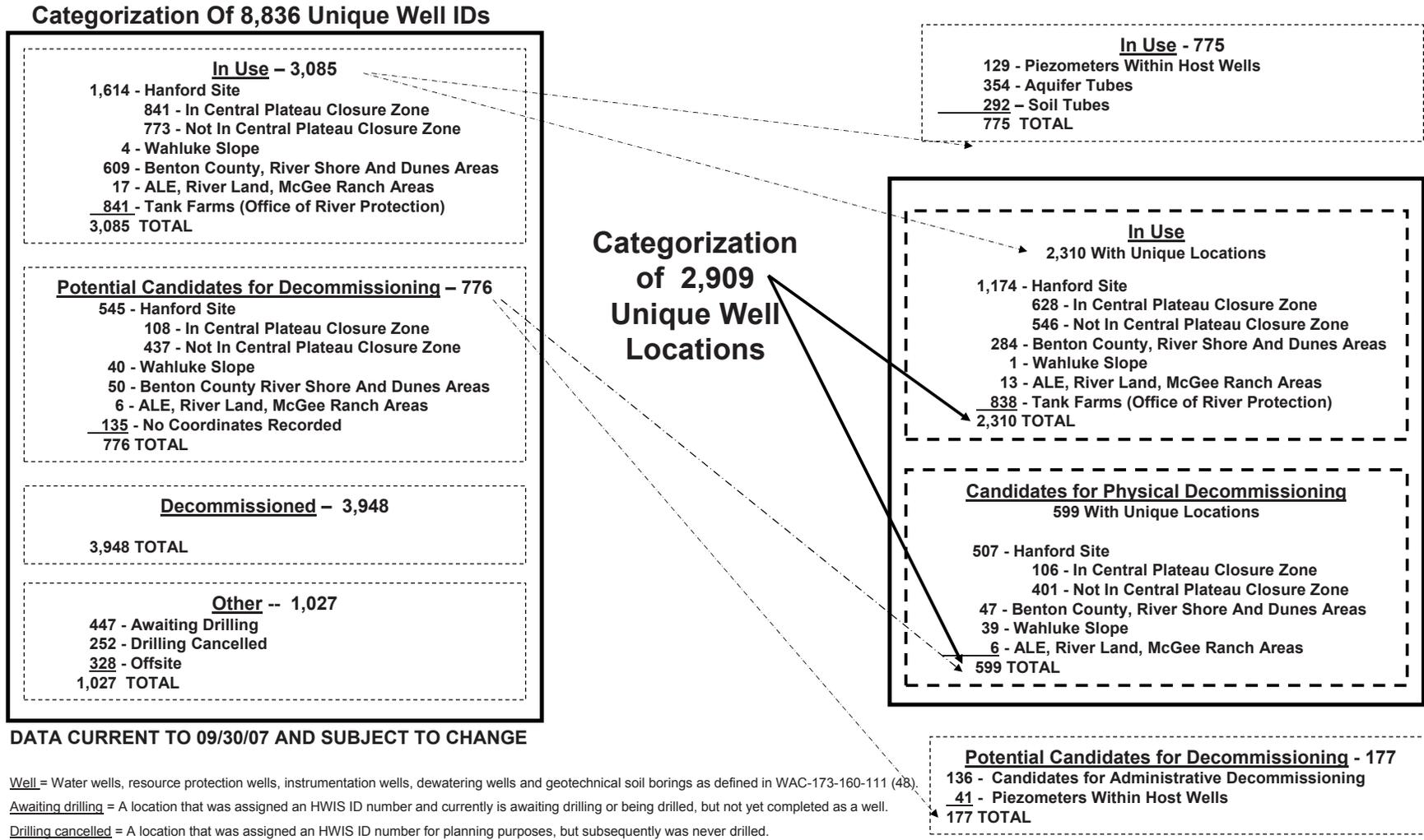
Well Number	Well ID	Task Number	Program	Well Number	Well ID	Task Number	Program
299-E28-23	A6799	WMO-NR-2007-3-037	CERCLA	699-35-70	A5140	WMO-NR-2007-4-036	CERCLA
299-E28-24	A6800	WMO-NR-2007-3-038	CERCLA	299-W22-26	A4968	WMO-NR-2007-4-037	CERCLA
299-E28-25	A6801	WMO-NR-2007-3-039	CERCLA	299-W22-26	A4968	WMO-NR-2007-4-037	CERCLA
299-E33-12	A4839	WMO-NR-2007-3-040	CERCLA	199-N-3	A4679	WMO-NR-2007-4-038	CERCLA
299-E28-6	A4826	WMO-NR-2007-3-041	CERCLA	299-E33-1A	A4838	WMO-NR-2007-4-039	CERCLA
399-5-2	A8091	WMO-NR-2007-3-042	CERCLA	199-D5-32	C4185	WMO-NR-2008-1-000	CERCLA
699-49-13E	A5215	WMO-NR-2007-3-043	CERCLA	699-50-74	C4697	WMO-NR-2008-1-001	CERCLA
699-52-19	A5233	WMO-NR-2007-3-044	CERCLA	199-D5-34	C4187	WMO-NR-2008-1-004	CERCLA
699-52-19	A5233	WMO-NR-2007-3-044	CERCLA				
699-52-46A	A5234	WMO-NR-2007-3-045	CERCLA				
699-54-34	A5248	WMO-NR-2007-3-046	CERCLA				

AEA = Atomic Energy Act.
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act.
RCRA = Resource Conservation and Recovery Act.

Table 4.0-4. Vadose Zone and Groundwater Wells Decommissioned, FY 2007

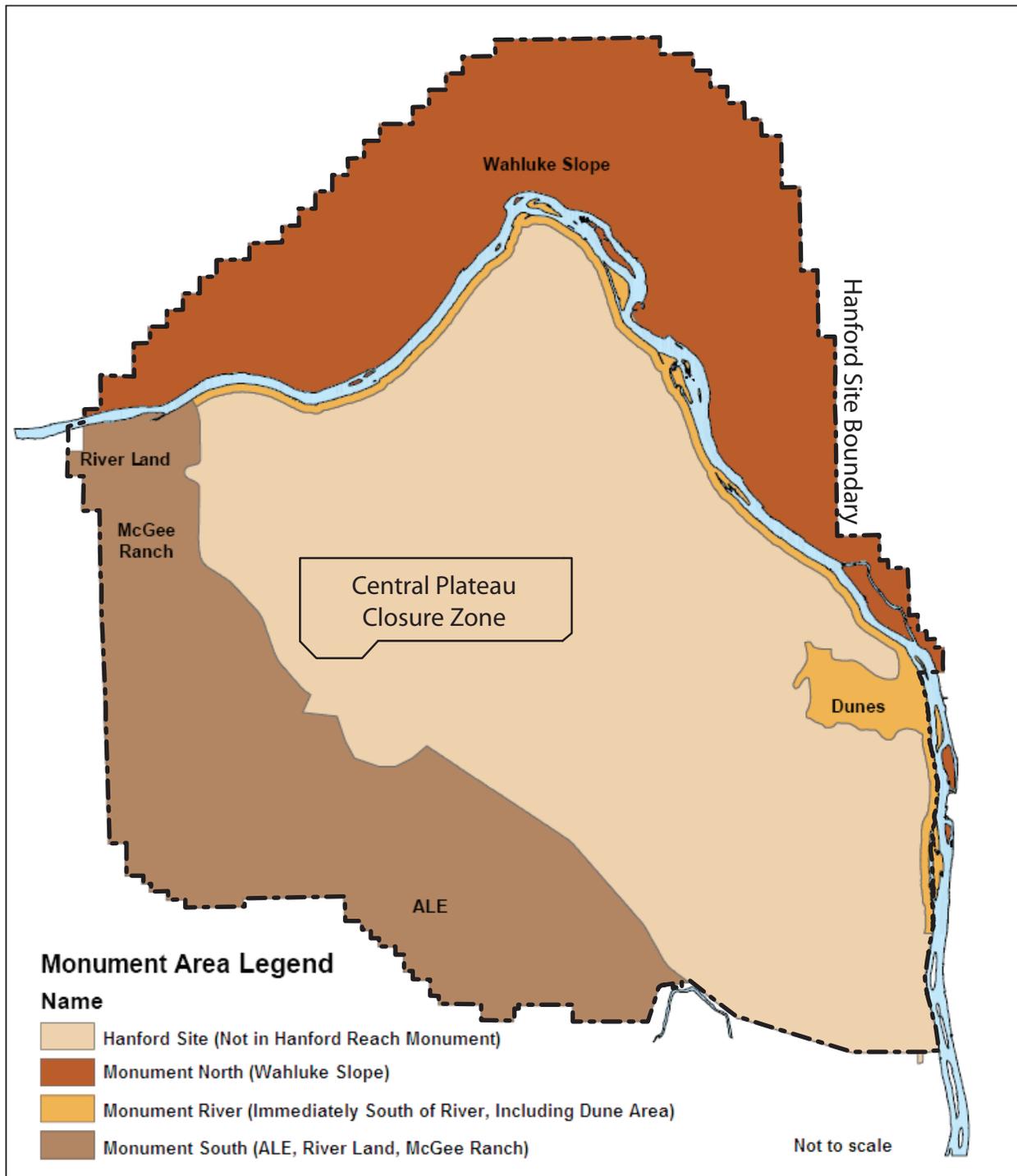
Count	Well ID	Well Name	Area	GW AOI(a)	Well Type	Count	Well ID	Well Name	Area	GW AOI(a)	Well Type
1	A5873	299-E13-58	200E	200-PO-1	Vadose	47	A7551	299-W18-68	200W	200-ZP-1	Vadose
2	A5874	299-E13-59	200E	200-PO-1	Vadose	48	A7553	299-W18-70	200W	200-ZP-1	Vadose
3	A5875	299-E13-60	200E	200-PO-1	Vadose	49	A7554	299-W18-71	200W	200-ZP-1	Vadose
4	A5876	299-E13-61	200E	200-PO-1	Vadose	50	A7555	299-W18-72	200W	200-ZP-1	Vadose
5	A4748	299-E23-2	200E	200-PO-1	Groundwater	51	A7556	299-W18-73	200W	200-ZP-1	Vadose
6	A9457	299-E23-2O	200E	200-PO-1	Groundwater	52	A7557	299-W18-74	200W	200-ZP-1	Vadose
7	A9458	299-E23-2P	200E	200-PO-1	Groundwater	53	A7559	299-W18-76	200W	200-ZP-1	Vadose
8	A9459	299-E23-2Q	200E	200-PO-1	Groundwater	54	A7560	299-W18-77	200W	200-ZP-1	Vadose
9	A5967	299-E24-112	200E	200-PO-1	Vadose	55	A7561	299-W18-78	200W	200-ZP-1	Vadose
10	A5930	299-E24-75	200E	200-PO-1	Vadose	56	A7562	299-W18-79	200W	200-ZP-1	Vadose
11	A6594	299-E25-184	200E	200-PO-1	Vadose	57	A7563	299-W18-80	200W	200-ZP-1	Vadose
12	A6596	299-E25-190	200E	200-PO-1	Vadose	58	A7564	299-W18-81	200W	200-ZP-1	Vadose
13	A6597	299-E25-191	200E	200-PO-1	Vadose	59	A7566	299-W18-83	200W	200-ZP-1	Vadose
14	A6599	299-E25-193	200E	200-PO-1	Vadose	60	A7567	299-W18-84	200W	200-UP-1	Vadose
15	A6041	299-E25-52	200E	200-PO-1	Vadose	61	A7868	299-W22-61	200W	200-UP-1	Vadose
16	A6658	299-E26-65	200E	200-PO-1	Vadose	62	A7870	299-W22-63	200W	200-UP-1	Vadose
17	A6660	299-E26-67	200E	200-PO-1	Vadose	63	A7899	299-W23-63	200W	200-UP-1	Vadose
18	A6663	299-E26-70	200E	200-PO-1	Vadose	64	A8057	299-W26-1	200W	200-UP-1	Vadose
19	A6753	299-E27-133	200E	200-BP-5	Vadose	65	A8059	299-W26-4	200W	200-UP-1	Vadose
20	A6814	299-E28-63	200E	200-BP-5	Vadose	66	A8060	299-W26-5	200W	200-UP-1	Vadose
21	A6841	299-E28-90	200E	200-BP-5	Vadose	67	A8061	299-W26-51	200W	200-UP-1	Vadose
22	A7083	299-E33-287	200E	200-BP-5	Vadose	68	A8739	699-46-79	200W	200-ZP-1	Vadose
23	A7084	299-E33-288	200E	200-BP-5	Vadose	69	B2469	B2469	200E	200-BP-5	Vadose
24	A7085	299-E33-289	200E	200-BP-5	Vadose	70	B2470	B2470	200E	200-BP-5	Vadose
25	A7086	299-E33-290	200E	200-BP-5	Vadose	71	C3334	C3334	600	200-BP-5	Vadose
26	A6887	299-E33-79	200E	200-BP-5	Vadose	72	C3335	C3335	600	200-BP-5	Vadose
27	A6889	299-E33-81	200E	200-BP-5	Vadose	73	C3448	C3448	600	200-BP-5	Vadose
28	A6890	299-E33-82	200E	200-BP-5	Vadose	74	C3449	C3449	600	200-BP-5	Vadose
29	C4896	299-W11-44	200W	200-ZP-1	Vadose	75	C3450	C3450	600	200-BP-5	Vadose
30	A7324	299-W11-82	200W	200-ZP-1	Vadose	76	C3451	C3451	600	200-BP-5	Vadose
31	A7336	299-W14-52	200W	200-ZP-1	Vadose	77	C3452	C3452	600	200-BP-5	Vadose
32	A7338	299-W14-54	200W	200-ZP-1	Vadose	78	C3538	C3538	600	200-BP-5	Vadose
33	A7339	299-W14-55	200W	200-ZP-1	Vadose	79	C3770	C3770	600	200-BP-5	Vadose
34	A7346	299-W14-62	200W	200-ZP-1	Vadose	80	C3771	C3771	600	200-BP-5	Vadose
35	A7502	299-W15-204	200W	200-ZP-1	Vadose	81	C3772	C3772	600	200-BP-5	Vadose
36	A7638	299-W18-155	200W	200-ZP-1	Vadose	82	C3773	C3773	600	200-BP-5	Vadose
37	A7639	299-W18-156	200W	200-ZP-1	Vadose	83	C3774	C3774	600	200-BP-5	Vadose
38	A7652	299-W18-170	200W	200-ZP-1	Vadose	84	C3775	C3775	600	200-BP-5	Vadose
39	A7655	299-W18-173	200W	200-ZP-1	Vadose	85	C3776	C3776	600	200-BP-5	Vadose
40	A7660	299-W18-178	200W	200-UP-1	Vadose	86	C3777	C3777	600	200-BP-5	Vadose
41	A7662	299-W18-180	200W	200-ZP-1	Vadose	87	C3778	C3778	600	200-BP-5	Vadose
42	A7664	299-W18-182	200W	200-ZP-1	Vadose	88	C3779	C3779	600	200-BP-5	Vadose
43	A7665	299-W18-183	200W	200-ZP-1	Vadose	89	C3780	C3780	600	200-BP-5	Vadose
44	A7666	299-W18-184	200W	200-ZP-1	Vadose	90	C3781	C3781	600	200-BP-5	Vadose
45	A7667	299-W18-185	200W	200-ZP-1	Vadose	91	C3782	C3782	600	200-BP-5	Vadose
46	A7550	299-W18-67	200W	200-ZP-1	Vadose						

(a) Groundwater area of interest.



gwf07501

Figure 4.0-1. Categorization of Unique Well Identification Numbers



wdw07121

Figure 4.0-2. Hanford Site and Surrounding Area Depicting Various Geographic Regions, Richland, Washington

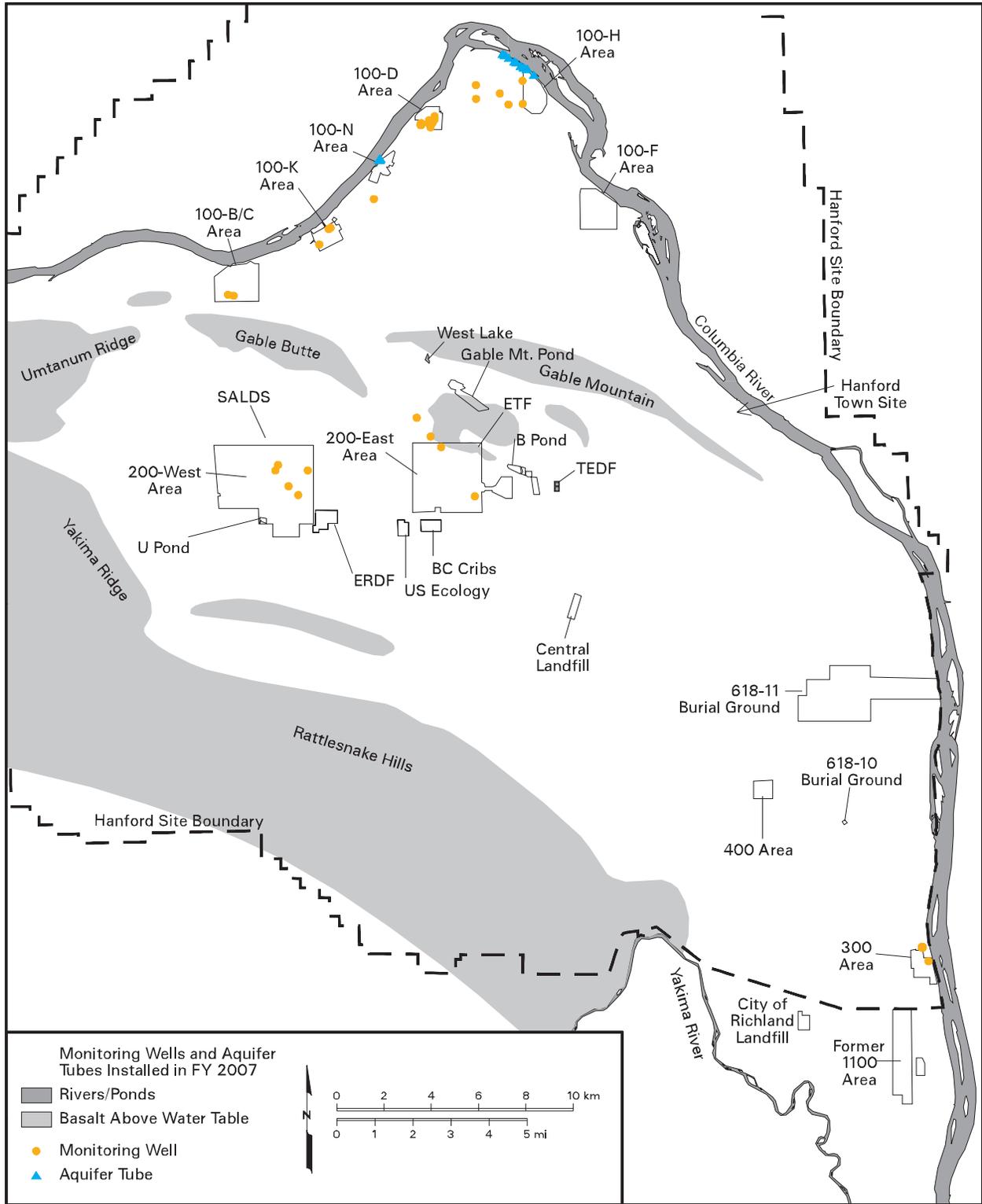
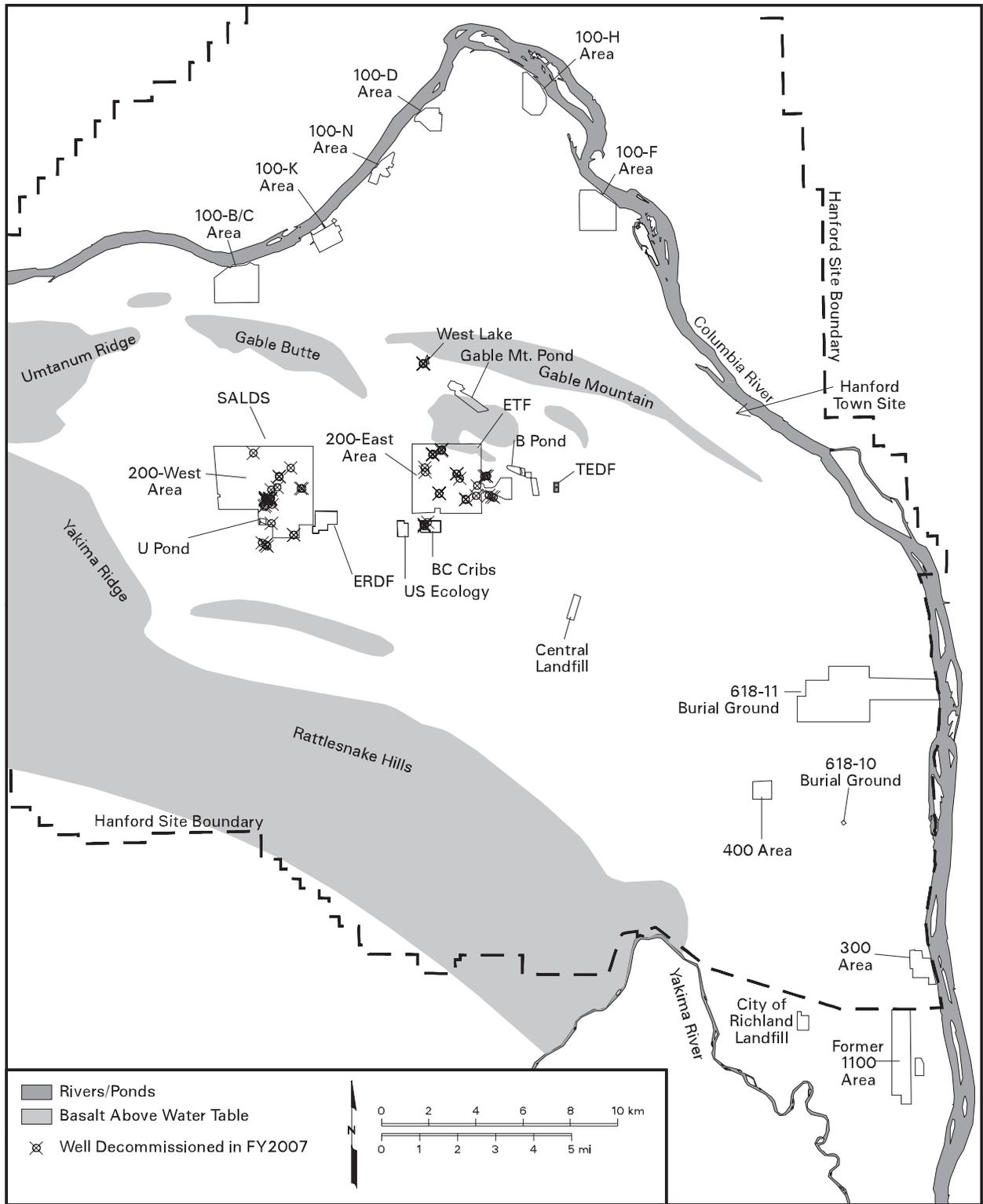


Figure 4.0-3. Groundwater Monitoring Wells and Aquifer Tubes Installed, FY 2007



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Figure 4.0-4. Vadose Zone and Groundwater Wells Physically Decommissioned, FY 2007