Appendix A

Supporting Information for CERCLA Groundwater Operable Units

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Supporting Information for CERCLA Groundwater Operable Units

M. J. Hartman

Under the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA), the groundwater and vadose zone beneath contaminated portions of the Hanford Site are divided into 11groundwater operable units. Figure 1.0-1 in Section 1.0 of the main text shows the locations of these units and related groundwater interest areas on the Hanford Site. The interest areas are defined informally to aid in planning, scheduling, and data interpretation.

Tables A.1 through A.17 list the constituents, monitoring wells, and the frequency of sampling for each operable units required by sampling and analysis plans or other documentation. The tables also indicate whether the wells were sampled as scheduled during fiscal year 2007.

In many cases, wells are sampled for additional constituents not strictly required by the plans. Those constituents are not listed in the tables of this appendix, but data files accompanying this report include all required and supplemental data.

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Table A.1. Monitoring Wells and Constituents for 100-BC-5 Operable Unit (adapted from DOE/RL-2003-38 and TPA-CN-182)

Well	Alkalinity	Alpha	Anions	Beta	Hexavalent Chromium	Metals	Strontium-90	Tritium	Technetium-99	Sampled as Scheduled in FY 2007
199-B2-12	BO	BO	BO	BO		BO	BO	BO		Yes
199-B2-13	A	BE	A	BE		A	BE	BE		Yes
199-B3-1	A		A		A	A	A	A		Yes
199-B3-46	BO		BO		A	BO	A	A		Yes
199-B3-47	A	A	A	A	A	A	A	A		Yes
199-B4-1	BE	BE	BE	BE	BE	BE	BE	BE		Not scheduled
199-B4-4		BE		BE			BE	BE		Not scheduled
199-B4-5										Water level only
199-B4-6										Water level only
199-B4-7	BO	BO	BO	BO		BO	BO	BO		Yes
199-B4-8	A	BE	A	BE		A	BE	BE		Yes
199-B5-1	A	A	A	A	A	A	BE	A		Yes
199-B5-2		BO		BO	A		BO	A		Yes
199-B8-6	BO	BO	BO	BO		BO	BO	A		Yes
199-B8-7	1	1	1	1	1	1		1		New well - sampled once[(a)]
199-B8-8	1	1	1	1	1	1		1		New well - sampled once[(a)]
199-B9-2		BE		BE			BE	BE		Not scheduled
199-B9-3	BO	BO	BO	BO		BO	BO	BO		Yes
699-63-90	BE	BE	BE	BE		BE		BE		Not scheduled
699-65-72	BE		BE			BE		BE		Not scheduled
699-65-83								BE		Not scheduled
699-66-103								BE		Not scheduled
699-67-86								BO		Yes
699-68-105	BO		BO			BO		BO		Yes
699-71-77	BO		BO			BO		BO	BO	Yes
699-72-73	A		A			A		A	BO	Yes
699-72-92	BO		BO			BO		BO		Yes
AT-01					A			A		Yes
AT-03					A			A		Yes
AT-04			A		A			A		Yes
AT-05		A	A	A	A		A	A		Yes
AT-06		A	A	A	A		A	A		Yes
AT-07		A	A	A	A			A		Yes
AT-11		A		A	A			A	A	Yes
AT-12		A		A	A			A	A	No
AT-B-1					A			A		Yes
AT-B-2					A			A		Yes
AT-B-3		A	A	A	A		A	A		Yes
AT-B-4		A	A	A	A			A		Yes
AT-B-5		A	A	A	A		A	A	A	Yes
AT-B-7		A	A	A	A		A	A		Yes
Seep 037-1		A		A	A			A		Yes
Seep 039-2		A		A	A			A		Yes

(a) Scheduled monthly 9/2007 through 1/2008; quarterly thereafter.
A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.

Table A.2. Monitoring Wells for 100-KR-4 Pump-and-Treat System (adapted from DOE/RL-96-90, DOE/RL-2006-75, and DOE/RL-2006-52, Rev. 1)

Well	Monitoring Purpose	Frequency	Sampled as Scheduled in FY 2007
East Plume Wells			
199-K-18	Compliance	M	Missed 11/2006
199-K-19	Performance	SA	Yes
199-K-20	Compliance	M	Missed 11/2006
199-K-21	Performance	SA	Yes
199-K-22	Performance	SA	Yes
199-K-37	Performance	SA	Yes
199-K-117A	Compliance	M	Missed 11/2006
199-K-130	Planned Extraction/Compliance[(a)]	M	Yes
199-K-131	Planned Extraction/Compliance[(a)]	M	Missed 5/2007
199-K-141	Performance	Q	Wells supporting 100-KR-4 expansion to be added in FY 2008.
199-K-144	Compliance	Q	
199-K-145	Compliance	Q	
199-K-146	Compliance	Q	
199-K-147	Extraction/Compliance	M	
199-K-148	Extraction/Compliance	M	
199-K-149	Extraction/Compliance	M	
199-K-150	Compliance	Q	
199-K-152	Performance	Q	
199-K-153	Performance	Q	
199-K-156	Performance	Q	
199-K-157	Performance	Q	
199-K-161	Extraction/Compliance	S	
199-K-162	Compliance	SA	
KW Wells[(b)]			
199-K-34	Performance	Q	Missed 10/2006
199-K-106A	Performance	Q	Yes
199-K-107A	Performance	Q	Yes
199-K-132	Extraction/Compliance	M	Missed 11/2006
199-K-138	Extraction/Compliance	M	Missed 11/2006
199-K-139	Extraction/Compliance	M	Missed 11 and 12/2006
199-K-140	Extraction/Compliance	M	Missed 11 and 12/2006

(a) Monitored per DOE/RL-96-90 in FY 2007. Will be converted to extaction/compliance wells in FY 2008 per DOE/RL-2006-75.
(b) KW pump-and-treat began operation January 2007.
FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.3. Monitoring Wells for 100-KR-4 Operable Unit Long-Term Monitoring

Well	Frequency	Sampled as Scheduled in FY 2007
199-K-11	BO	Yes
199-K-18	A	Yes
199-K-19	A	Yes
199-K-20	A	Yes
199-K-21	A	Yes
199-K-22	A	Yes
199-K-23	BO	Yes
199-K-27	Q	Yes
199-K-30	Q	Yes
199-K-31	A	Yes
199-K-32A	A	Yes
199-K-32B	A	Yes
199-K-34	BO	Yes
199-K-35	BO	Yes
199-K-36	Q	Yes
199-K-37	A	Yes
199-K-106A	BE	Not scheduled
199-K-107A	Q	Yes
199-K-108A	Q	Yes
199-K-109A	Q	Missed 7/2007
199-K-110A	BE	Not scheduled
199-K-111A	A	Yes
199-K-130	M	Yes
199-K-141	Q	New well, sampled three times
199-K-142	Q	New well, sampled two times
199-K-143	Q	New well, sampled three times
699-70-68	BE	Not scheduled
699-73-61	BE	Not scheduled
699-78-62	A	Yes
SK-057-3	A	No[(a)]
SK-077-1	A	Yes
SK-082-2	A	No[(a)]

(a) Sampling of springs is dependent on flow conditions.
A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.

Table A.4. Monitoring Wells for 100-NR-2 Interim Action

Well	Frequency	Sampled as Scheduled in FY 2007
199-N-2	A	Yes
199-N-3	SA	Yes
199-N-14	SA	Yes
199-N-16	A	Yes
199-N-18	SA	Yes
199-N-21	A	Yes
199-N-27	A	Yes
199-N-32	SA	Yes
199-N-50	A	Yes
199-N-51	A	Yes
199-N-64	A	Yes
199-N-67	SA	Yes
199-N-70	A	Yes
199-N-74	A	Yes
199-N-75	SA	Yes
199-N-76	SA	Yes
199-N-80	A	Yes
199-N-81	A	Yes
199-N-92A	A	Yes
199-N-96A	A	Yes
199-N-99A	A	Yes
199-N-119	A	Yes
199-N-120	A	Yes
199-N-121	A	Yes
199-N-122	M	Sampled seven times[(a)]
199-N-123	M	Sampled five times[(a)]

(a) Access to wells limited by work on the apatite barrier.
A = To be sampled annually.
FY = Fiscal year.
SA = To be sampled semiannually.

Table A.5. Monitoring Wells and Constituents for 100-NR-2 Rebound Monitoring (adapted from PNNL-15798)

Well or Tube Name	Dissolved Oxygen	Beta	Strontium-90	Gamma	Tritium	Alkalinity	Anions	Metals	Citrate	TOC, TPH	Sampled as Scheduled in FY 2007 [(a)]
199-N-2	SA		SA								Yes
199-N-3	SA		SA								Yes
199-N-14	SA		SA								Yes
199-N-46	M	M	Q	Q	Q	Q	Q	Q			Sampled eight times
199-N-67	M	M	Q	Q	Q	Q	Q	Q			Sampled eight times
199-N-75	Q	Q	Q	Q	Q	Q	Q	Q			Yes
199-N-76	SA		SA								Yes
199-N-92A	SA	SA	SA	SA	SA	SA	SA	SA			Yes
199-N-96A	M	M	Q	Q	Q	Q	Q	Q		Q	Sampled ten times
199-N-99A	M	M	Q	Q	Q	Q	Q	Q			Missed 3/2007
199-N-103A	Q	Q	Q	Q	Q	Q	Q	Q			Yes
199-N-105A	Q	Q	Q	Q	Q	Q	Q	Q			Yes
199-N-106A	Q	Q	Q	Q	Q	Q	Q	Q			Yes
199-N-119	M	M	Q	Q	Q	Q	Q	Q			Sampled nine times
199-N-120	SA	SA	SA	SA	SA	SA	SA	SA			Yes
199-N-121	SA	SA	SA	SA	SA	SA	SA	SA			Yes
199-N-122	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled eight times. No citrate.
199-N-123	M	M	Q	Q	Q	Q	Q	Q	Q	Q	Sampled seven times. No citrate.
199-N-146	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled five times. No citrate.
199-N-147	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled eight times. No citrate.
NS-2A-87cm	M	M	Q	Q	Q	Q	Q	Q	Q		Removed from schedule.
NS-4A-138cm	M	M	Q	Q	Q	Q	Q	Q	Q		Removed from schedule.
NVP1-1	Q	Q									Sampled three times.
NVP1-2	Q	Q									Sampled three times.
NVP1-3	Q	Q									Sampled three times.
NVP1-4	Q	Q									Sampled three times.
NVP1-5	Q	Q									Sampled three times.
NVP2-116.3	Q	Q									Sampled three times.
NVP2-116.0	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled three times for beta; once for others. No citrate.
NVP2-115.7	Q	Q									Sampled three times.
NVP2-115.4	Q	Q									Sampled three times.
NVP2-115.1	Q	Q									Sampled three times.
Array-1A	Q	Q	Q	A	A	A	A	A	Q	Q	Sampled three times. No citrate.
Array-2A	Q	Q	Q	A	A	A	A	A	Q	Q	Sampled three times. No citrate.
Array-3A	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled three times. No citrate.
Array-4A	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled three times. No citrate.
Array-6A	M	M	Q	Q	Q	Q	Q	Q	Q		Sampled four times. No citrate.
Array-7A	Q	Q	A	A	A	A	A	A	Q		Sampled three times. No citrate.
Array-8A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-9A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-10A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-11A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-12A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-13A	Q	Q	A	A	A	A	A	A			Sampled three times.
Array-14A	Q	Q	A	A	A	A	A	A			Sampled three times.
NS-2	A	A	A	A	A						No
NS-3	A	A	A	A	A						No
NS-4	A	A	A	A	A						No

(a) Access to shoreline wells and aquifer tubes limited by work on the apatite barrier.
A = To be sampled annually.
FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.
SA = To be sampled semiannually.
TOC = Total organic carbon.
TPH = Total petroleum hydrocarbons.

Table A.6. Monitoring Wells for 100-HR-3 Operable Unit In Situ Redox System

Well Name	Frequency	Sampled as Scheduled in FY 2007
199-D2-6	Q	Yes
199-D2-8	Q	Yes
199-D3-2	Q	Yes
199-D4-1	Q	Yes
199-D4-15	M	Yes
199-D4-20	Q	Yes
199-D4-22	Q	Yes
199-D4-23	Q	Yes
199-D4-26	Q	Yes
199-D4-31	Q	Yes
199-D4-32	Q	Yes
199-D4-36	Q	Yes
199-D4-38	Q	Yes
199-D4-39	Q	Yes
199-D4-4	Q	Yes
199-D4-48	Q	Yes
199-D4-5	Q	Yes
199-D4-6	Q	Yes
199-D4-62	Q	Yes
199-D4-7	Q	Yes
199-D4-78	Q	Yes
199-D4-83	Q	Yes
199-D4-84	Q	Yes
199-D4-85	Q	Yes
199-D4-86	Q	Yes
199-D5-36	Q	Yes
199-D5-38	M	Yes
199-D5-39	M	Sampled nine times.
199-D5-43	M	Yes

FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.

Table A.7. Monitoring Wells for 100-HR-3 Pump-and-Treat Systems

Well	Frequency	Sampled as Scheduled in FY 2007
199-D5-37	Q	Yes
199-D5-39	A	Yes
199-D8-54B	SA	Yes
199-D8-69	M	Yes
199-D8-70	M	Yes
199-D8-71	SA	Yes
199-D8-73	M	Yes
199-D8-88	M	Missed 5/2007
199-H3-2A	A	Yes
199-H3-3	Q	Yes
199-H3-4	Q	Yes
199-H3-5	Q	Yes
199-H4-10	SA	Yes
199-H4-11	M	Yes
199-H4-12B	SA	Yes
199-H4-12C	SA	Yes
199-H4-13	SA	Yes
199-H4-15B	SA	Yes
199-H4-15CS	SA	Yes
199-H4-16	SA	Yes
199-H4-45	SA	Yes
199-H4-46	SA	Yes
199-H4-48	SA	Yes
199-H4-49	SA	Yes
199-H4-5	M	Yes
199-H4-6	SA	Yes
199-H4-65	M	Yes
199-H4-8	SA	Yes
199-H5-1A	SA	Yes

FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.8. Monitoring Wells and Constituents for 100-HR-3 Operable Unit Long-Term Monitoring

Well	Frequency	Sampled as Scheduled in FY 2007	Well	Frequency	Sampled as Scheduled in FY 2007
199-D2-6	Q	Yes	199-H4-8	BO	Yes
199-D3-2	Q	Yes	199-H4-9	A	Yes
199-D4-13	Q	Yes	199-H4-10	A	Yes
199-D4-14	Q	Yes	199-H4-12C	A	Yes
199-D4-15	M	Yes	199-H4-13	A	Yes
199-D4-19	Q	Yes	199-H4-16	BO	Yes
199-D4-20	Q	Yes	199-H4-45	A	Yes
199-D4-22	Q	Yes	199-H4-46	BO	Yes
199-D4-23	Q	Yes	199-H4-47	BE	Not scheduled
199-D5-13	Q	Missed 5/2007	199-H4-48	BE	Not scheduled
199-D5-14	Q	Yes	199-H4-49	BE	Not scheduled
199-D5-15	Q	Yes	199-H5-1A	BE	Not scheduled
199-D5-16	Q	Yes	199-H6-1	A	Yes
199-D5-17	A	Yes	699-86-42	A	Yes
199-D5-18	BO	Yes	699-87-42A	A	Yes
199-D5-19	BO	Yes	699-88-41	A	Yes
199-D5-20	A	Yes	699-90-45	A	Yes
199-D5-33	Q	Yes	699-91-46A	BE	Not scheduled
199-D5-34	Q	Yes	699-93-48A	BE	Not scheduled
199-D5-36	Q	Yes	699-96-43	BO	Yes
199-D5-37	Q	Yes	699-96-49	BO	Yes
199-D5-38	M	Yes	699-97-43	BO	Yes
199-D5-39	Q	Missed 8/2007	699-97-51A	A	Yes
199-D5-40	Q	Yes	699-98-49A	A	Yes
199-D5-41	Q	Yes	SD-102-1	A	No[(a)]
199-D5-43	Q	Yes	SD-110-1	A	Yes
199-D5-44	Q	Yes	SD-110-2	A	No[(a)]
199-D8-4	A	Yes	SD-98-1	A	No[(a)]
199-D8-5	A	Yes	SH-144-1	A	No[(a)]
199-D8-54B	A	Yes	SH-145-1	A	Yes
199-D8-55	Q	Yes	SH-150-1	A	No[(a)]
199-H3-2C	BO	Yes	SH-152-2	A	Yes
199-H4-5	A	Yes	SH-153-1	A	No[(a)]
199-H4-6	BO	Yes			

(a) Sampling of springs is dependent on flow conditions.
A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.
M = To be sampled monthly.
Q = To be sampled quarterly.

Table A.9. Monitoring Wells, Aquifer Tubes, and Constituents for 100-FR-3 Operable Unit (adapted from DOE/RL-2003-49)

Well	Alkalinity	Alpha	Anions	Hexavalent Chromium	Metals	Strontium-90	Tritium	TCE (VOA)	Uranium	Sampled as Scheduled in FY 2007
199-F1-2	BO		BO		BO					Yes
199-F5-1	A	BE	A		A	BE	BE			Yes
199-F5-4	A	BO	A		A		BO	BO		Yes
199-F5-6	A	BE	A		A	BE	BE			Yes
199-F5-42	BO	BO	BO		BO	BO	BO			Yes
199-F5-43A	BE	BE	BE		BE	BE	BE			Not scheduled
199-F5-43B	BE	BE	BE		BE	BE				Not scheduled
199-F5-44	BE	BE	BE		BE	BE	BE			Not scheduled
199-F5-45	BO	BO	BO		BO	BO	BO	BO	BO	Yes
199-F5-46	BE	A	BE		BE	BE	A	BE	A	Yes
199-F5-47	A	BE	A		A		A	BE	A	Yes
199-F5-48	BO	BO	BO		BO		BO		BO	Yes
199-F6-1	BO	BO	BO		BO	BO	BO			Yes
199-F7-1	BE		BE		BE			BE		Not scheduled
199-F7-2	BE	BE	BE		BE		BE	BE		Not scheduled
199-F7-3	BE	BE	BE		BE		BE	BE		Not scheduled
199-F8-2	BO	BO	BO		BO		BO		BO	Yes
199-F8-3	BO	A	BO		BO		A	BO	A	Yes
199-F8-4	BE	A	BE		BE		BE		A	Yes
699-58-24	BE		BE		BE					Not scheduled
699-60-32	BO		BO		BO					Yes
699-62-31	BO		BO		BO					Yes
699-62-43F	A		A		A		A			Yes
699-63-25A	BO		BO		BO		BO			Yes
699-63-55	BO		BO		BO		A			Yes
699-64-27	BE		BE		BE					Not scheduled
699-66-23	BE		BE		BE		BE			Not scheduled
699-67-51	BO		BO		BO		BO			Yes
699-71-30	BO	BO	BO		BO		BO			Yes
699-74-44	BO		BO		BO			BO		Yes
699-77-36	BE		BE		BE			BE		Not scheduled
699-77-54	BO		BO		BO					Yes
699-81-38	BE		BE		BE					Not scheduled
699-83-47	BE		BE		BE			BE		Not scheduled

Table A.9. (contd)

Well	Alkalinity	Alpha	Anions	Hexavalent Chromium	Metals	Strontium-90	Tritium	TCE (VOA)	Uranium	Sampled as Scheduled in FY 2007
AT-62	A		A	A	A					Yes
AT-63	A		A	A	A					Yes
AT-64	A		A	A	A	A				Yes
AT-65	A		A	A	A	A				Tubes destroyed
AT-66	A		A	A	A	A		A		Yes
AT-67	A		A	A	A					Yes
AT-68	A		A	A	A		A			Yes
AT-72	A		A	A	A		A			Yes
AT-73	A		A	A	A		A			Not found
AT-74	A		A	A	A		A			Yes
AT-75	A		A	A	A		A			Not found in FY 2007; Found in FY 2008
AT-76	A		A	A	A		A			Yes
AT-77	A		A	A	A					Yes
AT-78	A		A	A	A					Not found
AT-80	A		A	A	A					Yes
AT-F-1	A		A	A	A	A				Yes
AT-F-2	A		A	A	A		A	A		Yes
AT-F-3	A		A	A	A		A	A		Yes
AT-F-4	A		A	A	A		A			Yes
SF-187-1	A		A	A	A		A			No[(a)]
SF-190-4	A		A	A	A		A			No[(a)]
SF-207-1	A		A	A	A		A			No alkalinity

(a) Sampling of springs is dependent on flow conditions.
A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.
TCE = Trichloroethene.
VOA = Volatile organic analyses.

Table A.10. Monitoring Wells for 200-ZP-1 Operable Unit

Well	Frequency	Sampled as Scheduled in FY 2007	Well	Frequency	Sampled as Scheduled in FY 2007
299-W10-1	A	Yes	299-W15-34	Q	Yes
299-W10-4	SA	Yes	299-W15-35	Q	Yes
299-W10-5	A	Yes	299-W15-36	Q	Yes
299-W10-22	SA	Yes	299-W15-38	A	Yes
299-W10-23	A	Yes	299-W15-39	SA	Yes
299-W10-33	Q	New well; added for FY2008	299-W15-40	Q	Yes
299-W11-3	SA	Yes	299-W15-41	SA	Yes
299-W11-6	SA	Yes	299-W15-41	SA	Yes
299-W11-7	A	Yes	299-W15-42	SA	Yes
299-W11-10	SA	Yes	299-W15-43	Q	Yes
299-W11-13	SA	Yes	299-W15-44	Q	Yes
299-W11-18	A	Yes	299-W15-45	Q	Yes
299-W11-37	SA	Yes	299-W15-46	Q	Sampled three times
299-W11-43	Q	Yes	299-W15-47	Q	Sampled three times
299-W11-45	Q	Yes	299-W15-49	Q	Yes
299-W11-46	Q	Yes	299-W15-50	Q	Yes
299-W11-47	Q	Sampled three times	299-W15-152	Q	Yes
299-W11-48	Q	New well; added for FY2008	299-W15-152	Q	Yes
299-W11-87	Q	Sampled once. New well	299-W15-763	Q	Yes
299-W12-1	A	Yes	299-W15-765	Q	Yes
299-W13-1	Q	Yes	299-W17-1	SA	Yes
299-W14-14	A	Yes	299-W18-16	Q	Yes
299-W14-16	A	Yes	299-W18-23	Q	Sampled three times
299-W14-71	Q	Sampled three times. New well.	299-W7-4	A	Yes
299-W14-72	Q	Sampled three times. New well.	299-W8-1	BE	Not scheduled
299-W15-1	SA	Yes	699-43-89	BO	Delayed until 10/2007
299-W15-2	A	Yes	699-44-64	BO	Yes
299-W15-7	SA	Yes	699-45-69A	BO	Yes
299-W15-11	SA	Yes	699-47-60	BO	Yes
299-W15-15	Q	Yes	699-48-71	SA	Yes
299-W15-17	SA	Yes	699-48-77A	BO	Yes
299-W15-30	SA	Yes	699-50-74	Q	Fourth delayed until 10/2007
299-W15-31A	Q	Fourth delayed until 10/2007	699-55-60A	BO	Delayed until 10/2007
299-W15-35	Q	Yes			

A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.11. Monitoring Wells for 200-UP-1 Operable Unit

Well	Frequency	Sampled as Scheduled in FY 2007	Well	Frequency	Sampled as Scheduled in FY 2007
299-W15-37	A	Yes	299-W22-69	Q	Yes
299-W18-15	SA	Yes	299-W22-72	Q	Yes
299-W18-21	A	Yes	299-W22-83	Q	Yes
299-W18-22	A	Yes	299-W22-86	Q	Yes
299-W18-30	A	Yes	299-W22-87	Q	Yes
299-W19-4	BO	Yes	299-W23-4	SA	Yes
299-W19-18	SA	Yes	299-W23-9	A	Yes
299-W19-101	Q	Yes	299-W23-10	SA	No; dry FY 2006.
299-W19-105	Q	Yes	299-W23-15	SA	Yes
299-W19-107	Q	Yes	299-W23-21	Q	Yes
299-W19-34A	A	Yes	299-W26-13	BO	Yes
299-W19-34B	BE	Not scheduled	299-W26-14	A	Yes
299-W19-35	SA	Yes	699-30-66	SA	Yes
299-W19-36	Q	Yes	699-32-62	BO	Yes
299-W19-37	SA	Yes	699-32-72A	BO	Yes
299-W19-39	SA	Sampled once.	699-35-66A	BO	Yes
299-W19-43	Q	Yes	699-35-70	BO	Yes
299-W19-46	SA	Yes	699-35-78A	A	Yes
299-W19-48	Q	Yes	699-36-61A	A	Yes
299-W19-49	Q	Yes	699-36-70A	A	Yes
299-W21-2	SA	Yes	699-36-70B	Q	Yes
299-W22-9	BO	Yes	699-38-65	A	Yes
299-W22-20	A	Yes	699-38-68A	BO	Yes
299-W22-26	A	No	699-38-70	A	Yes
299-W22-45	A	Yes	699-38-70B	SA	Yes
299-W22-48	SA	Yes	699-38-70C	Q	Yes
299-W22-49	SA	Yes	699-40-62	BO	Yes
299-W22-69	Q	Yes	699-40-65	SA	Yes

A = To be sampled annually.
BE = To be sampled biennially, even fiscal year.
BO = To be sampled biennially, odd fiscal year.
FY = Fiscal year.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.12. Monitoring Wells and Constituents for 200-BP-5 Operable Unit (adapted from DOE/RL-2001-49)

	Contaminants of Concern										Supporting Constituents/Measurements							
Well Name	Technetium-99	Tritium	Nitrate	Iodine-129	Cyanide	Cobalt-60	Uranium	Strontium-90	Cesium-137	Plutonium-239/240	Alkalinity	Americium-241	Arsenic	Gross Alpha/Beta	Metals (filtered)	Neptunium-237	TOC/TOX	Sampled as Scheduled in FY 2007
299-E24-8		3-07	3-07	3-07		3-07			3-07				3-07	3-07				No arsenic
299-E26-10		A	A	A														Yes
299-E26-11		3-07	3-07	3-07									3-07					Yes
299-E27-10		3-07	3-07	3-07									3-07					Yes
299-E27-14	A	A	A	A														Yes
299-E27-15	A		A								A				A			Yes
299-E27-17		3-07	3-07	3-07									3-07					Yes
299-E27-18		3-07	3-07	3-07									3-07					Yes
299-E27-7	A	A	A	A									A					Yes
299-E28-13		3-07	3-07	3-07			3-07	3-07						3-07				Yes
299-E28-17			A				A	A	A	A								Yes
299-E28-18		A	A	A			A						A	A				Yes
299-E28-2	A	A	A	A				A	A	A	A			A	A			No I-129
299-E28-21							A											Yes
299-E28-23							A	A	A	A		A		A		A		Yes
299-E28-24		A					A	A	A	A		A		A		A		Yes
299-E28-25		A	A	A			A	A	A	A		A	A	A		A		Yes
299-E28-26	A	3-07	A	3-07			A						3-07					Yes
299-E28-27	A	3-07	A	A			A	A	A	A								Yes
299-E28-28		3-07	3-07	3-07														Yes
299-E28-5		3-07	3-07	3-07			A	A	A	A			3-07	3-07				Yes
299-E28-6		3-07	3-07	3-07		A	A	A	A	A			3-07	3-07				Yes
299-E28-8	A						A	A	A	A								Yes
299-E32-10	A	3-07	3-07	3-07	A	A	A						3-07					Yes
299-E32-2		3-07	3-07	3-07														Yes
299-E32-4	A	A	A	A														Yes
299-E32-5		3-07	3-07	3-07			3-07											Yes
299-E32-6	A	3-07	A	3-07			3-07											Yes
299-E32-7		3-07	3-07	3-07														Yes
299-E32-8		3-07	3-07	3-07														Yes
299-E32-9		3-07	A	A	3-07													Yes
299-E33-12	3-07																	Yes

Table A.12. (contd)

Well Name	Contaminants of Concern										Supporting Constituents/Measurements							Sampled as Scheduled in FY 2007
	Technetium-99	Tritium	Nitrate	Iodine-129	Cyanide	Cobalt-60	Uranium	Strontium-90	Cesium-137	Plutonium-239/240	Alkalinity	Americium-241	Arsenic	Gross Alpha/Beta	Metals (filtered)	Neptunium-237	TOC/TOX	
299-E33-13					A		A											Yes
299-E33-15	A		A															Yes
299-E33-16	A		A	A			A											Yes
299-E33-18	A		A	A			A											Yes
299-E33-26	A	3-07	3-07	3-07	A	A	A							3-07				Yes
299-E33-28	A		A															Yes
299-E33-29	3-07	3-07	3-07	3-07														Yes
299-E33-30	A		A															Yes
299-E33-32	3-07	3-07	3-07	3-07														Yes
299-E33-33		3-07	3-07	3-07			3-07						3-07					Yes
299-E33-334	A		A				A											Yes
299-E33-335	A									A								Yes
299-E33-338	A						A											Yes
299-E33-34	A	A	A	A	A	A	A											Yes
299-E33-35	A	3-07	A	3-07	A	3-07	A		3-07									Yes
299-E33-37		3-07	3-07	3-07														Yes
299-E33-38	A	A	A	A	A	A	A	A		A			A	A				Yes
299-E33-39	A	A	A	A	A		A											Yes
299-E33-40[a]	A	A	A	A	A	A	A		A		A			A	A			No-I-129
299-E33-41	A	3-07	3-07	3-07	3-07	3-07	A		3-07									Yes
299-E33-42	A			A			A											Yes
299-E33-43	A			A			A											Yes
299-E33-44	A					A	A											Yes
299-E33-50[a]	A	A	A		A	A	A		A									Yes; New well
299-E33-7	A	A	A	A	A	A	A		A					A				Yes
299-E34-2		A	A	A														Yes
299-E34-9		3-07	3-07	3-07														Yes
699-44-39B		3-07	3-07	3-07														Yes
699-45-42		3-07	3-07	3-07														Yes
699-47-60	A	A	A	A														Yes
699-48-50B[a]	A	A	A	A	A	A	A		A									Yes; New well
699-49-55A	A	A	A	A	A	A	A	A	A	A				A				Yes
699-49-55B[a]	A	A	A	A	A	A	A		A		A			A	A			No I-129
699-49-57A	A	A	A	A	A	A	A		A				A					Yes
699-49-57B	A	A	A	A	A	A			A									Yes
699-50-56[a]	A	A	A	A	A	A	A		A									Yes; New well
699-50-59	3-06		3-06	3-06		3-06	3-06				3-06				3-06			Yes
699-53-47A		A	A					A						A				Yes
699-53-47B			3-06					3-06										Not scheduled
699-53-48A		A	A	A				A						A	A			Yes

Table A.12. (contd)

Well Name	Contaminants of Concern										Supporting Constituents/Measurements							Sampled as Scheduled in FY 2007
	Technetium-99	Tritium	Nitrate	Iodine-129	Cyanide	Cobalt-60	Uranium	Strontium-90	Cesium-137	Plutonium-239/240	Alkalinity	Americium-241	Arsenic	Gross Alpha/Beta	Metals (filtered)	Neptunium-237	TOC/TOX	
699-53-55A	A	A	A		A	A												Yes
699-53-55B	A	A	A		A	A												Yes
699-53-55C	A	A	A	A	A	A												Yes
699-54-45A			3-06															Not scheduled
699-54-45B			3-06															Not scheduled
699-54-48								3-06										Not scheduled
699-54-49		A	A					A						A				Yes
699-55-50C	A	A	A	A				A										Yes
699-55-57	A	A	A	A	A	A												Yes
699-55-60A	A	A	A	A	A	A												Delayed until 10/2007
699-57-59	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-59-58	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-60-60	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-61-62	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-61-66	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-64-62	A	A	A	A	A	A	A	A	A	A	A			A	A		A	Yes
699-65-50	3-07																	Delayed until 10/2007
699-65-72		3-07																Yes
699-66-58	3-07	3-07																Yes
699-66-64	3-07	3-07																Yes
699-70-68	3-07	3-07																Yes
699-72-73	3-07	3-07	3-07															Yes
699-73-61		3-07																Yes

(a) Well not listed in DOE/RL-2001-49 but added to FY 2007 sampling schedule.

3-xx = To be sampled triennially (every three years); xx indicates the fiscal year of sampling for specified analyte.

A = To be sampled annually.

FY = Fiscal year.

TOC = Total organic carbon.

TOX = Total organic halides.

Table A.13. Monitoring Wells, Aquifer Tubes, and Constituents for 200-PO-1 Operable Unit (adapted from DOE/RL-2003-04[a])

Well or Aquifer Tube Name	Contaminants of Concern							Supporting Constituents				Sampled as Scheduled in FY 2007
	Arsenic	Chromium, Manganese, and Vanadium (filtered)	Iodine-129	Nitrate	Strontium-90	Technetium-99	Tritium	Gross Alpha	Anions[b]	Gross Beta	Metals[c]	
200-PO-1 Near-Field Wells												
299-E16-2	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-12	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-13	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-14	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-16	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-18	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-19	A	A	A	A	A		A	A	A	A	A	Yes
299-E17-23	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E17-25	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E18-1	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E23-1	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E24-18	A	A	A	A	A		A	A	A	A	A	Yes
299-E24-20	A	A	A	A	A	A	A	A	A	A	A	Yes
299-E24-5	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-17	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-18	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-19	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-20	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-22	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-28	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-29P	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-29Q	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-3	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-32P	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-32Q	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-34	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-35	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-36	A	A	A	A	A		A	A	A	A	A	Yes
299-E25-37	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-41	A	A	A	A	A	A	A	A	A	A	A	Yes
299-E25-42	A	A	A	A	A	A	A	A	A	A	A	Yes
299-E25-43	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-44	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-47	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
299-E25-6	A	A	A	A	A		A	A	A	A	A	Yes
299-E26-4	A	A	A	A	A		A	A	A	A	A	Yes
699-37-47A	A	A	A	A	A		A	A	A	A	A	Yes
699-39-39	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
699-42-42B	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	No I-129
699-43-45	3-07	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	Yes
699-44-39B	3-07	3-07	3-07			3-07	3-07	3-07	3-07	3-07	3-07	No Tc-99

Table A.13. (contd)

Well or Aquifer Tube Name	Contaminants of Concern			Supporting Constituents											Sampled as Scheduled in FY 2007
	Iodine-129	Nitrate	Tritium	Gross Alpha	Anions [b]	Gross Beta	Hexavalent Chromium	Cyanide	Gamma	Metals [c]	Strontium-90	Technetium-99	Uranium	VOA	
200-PO-1 Far Field Wells															
BC Cribs															
299-E13-14		A	A	A	A	A		A	A	A	A	A	A		Yes
299-E13-5		A	A	A	A	A		A	A	A	A	A	A		Yes
Southeast Transect															
699-10-54A		A	A	A	A	A			A	A	A			A	Yes
699-24-46	A	A	A	A	A	A			A	A	A			A	Yes
699-26-33	A	A	A	A	A	A			A	A	A			A	Yes
699-31-31	A	A	A	A	A	A			A	A	A			A	Yes
699-32-22A	A	A	A	A	A	A			A	A	A			A	Yes
699-32-43	A	A	A	A	A	A			A	A	A			A	Yes
699-41-23	A	A	A	A	A	A			A	A	A			A	Yes
699-46-21B	A	A	A	A	A	A			A	A	A			A	Yes
River Transect															
699-10-E12		A	A	A	A	A			A	A	A			A	Yes
699-20-E12O	A	A	A	A	A	A			A	A	A			A	Yes
699-41-1A	A	A	A	A	A	A			A	A	A			A	Yes
699-46-4	A	A	A	A	A	A			A	A	A			A	Yes
699-S3-E12		A	A	A	A	A			A	A	A			A	Yes
699-S19-E13		A	A	A	A	A			A	A	A			A	Yes
Basalt Confined Aquifer															
299-E16-1	3-06	3-06	3-06	3-06	3-06	3-06				3-06					Not scheduled
699-13-1C		3-06	3-06	3-06	3-06	3-06				3-06					Not scheduled
699-24-1P		3-06	3-06	3-06	3-06	3-06				3-06					Not scheduled
699-32-22B	3-06	3-06	3-06	3-06	3-06	3-06				3-06					Not scheduled
699-42-40C	3-07	3-07	3-07	3-07	3-07	3-07				3-07					Yes
699-S11-E12AP		3-06	3-06	3-06	3-06	3-06				3-06					Not scheduled
Far-Field General															
499-S0-7		3-07	3-07		3-07										Yes
499-S0-8[a]	A	A	A	A	A	A				A					Yes
499-S1-8J[a]	A	A	A	A	A	A			A		A	A	A	A	Yes
699-12-4D	3-07	3-07	3-07		3-07										Yes
699-13-1A	3-07	3-07	3-07		3-07										No I-129
699-13-3A		3-07	3-07		3-07										Yes
699-14-38		3-07	3-07		3-07										Yes
699-17-5	3-07	3-07	3-07		3-07										No; unsuccessful

Table A.13. (contd)

Well or Aquifer Tube Name	Contaminants of Concern			Supporting Constituents											Sampled as Scheduled in FY 2007
	Iodine-129	Nitrate	Tritium	Gross Alpha	Anions [b]	Gross Beta	Hexavalent Chromium	Cyanide	Gamma	Metals [c]	Strontium-90	Technetium-99	Uranium	VOA	
699-19-43	3-07	3-07	3-07		3-07										Yes
699-20-20	3-07	3-07	3-07		3-07										Yes
699-20-E12S		3-07	3-07		3-07										Yes
699-20-E5A		3-07	3-07		3-07										Yes
699-21-6	3-07	3-07	3-07		3-07										Yes
699-2-3	3-07	3-07	3-07		3-07										Delayed until 10/2007
699-22-35	3-07	3-07	3-07		3-07										Yes
699-24-34C	3-07	3-07	3-07		3-07										Yes
699-26-15A	3-07	3-07	3-07		3-07										Yes
699-26-33		3-07	3-07		3-07										Yes
699-26-35A	3-07	3-07	3-07		3-07										Yes
699-2-6A		3-07	3-07		3-07										Yes
699-2-7		3-07	3-07		3-07										Yes
699-28-40	3-07	3-07	3-07		3-07										Yes
699-29-4	3-07	3-07	3-07		3-07										Yes
699-31-11	3-07	3-07	3-07		3-07										Yes
699-33-42	3-07	3-07	3-07		3-07										Yes
699-33-56	3-07	3-07	3-07		3-07										No; dry
699-34-41B	3-07	3-07	3-07		3-07										No I-129
699-34-42	3-07	3-07	3-07		3-07										Yes
699-35-9	3-07	3-07	3-07		3-07										Yes
699-37-43	3-07	3-07	3-07		3-07										Yes
699-37-E4	3-07	3-07	3-07		3-07										Yes
699-38-15	3-07	3-07	3-07		3-07										Yes
699-40-1	3-07	3-07	3-07		3-07										Yes
699-40-33A	3-07	3-07	3-07		3-07										Yes
699-41-40	3-07	3-07	3-07		3-07										Yes
699-41-42[a]	3-07	3-07	3-07	3-07	3-07	3-07									No I-129
699-42-12A	3-07	3-07	3-07		3-07										Yes
699-42-39A	3-07	3-07	3-07		3-07										Yes
699-42-39B	3-07	3-07	3-07		3-07										Yes
699-42-40A[a]	3-07	3-07	3-07	3-07	3-07	30-7									Yes
699-43-3	3-07	3-07	3-07		3-07										Yes
699-43-41E	3-07	3-07	3-07		3-07										No; Dry

Table A.13. (contd)

Well or Aquifer Tube Name	Contaminants of Concern			Supporting Constituents											Sampled as Scheduled in FY 2007
	Iodine-129	Nitrate	Tritium	Gross Alpha	Anions [b]	Gross Beta	Hexavalent Chromium	Cyanide	Gamma	Metals [c]	Strontium-90	Technetium-99	Uranium	VOA	
699-45-42	3-07	3-07	3-07		3-07										Yes
699-47-5	3-07	3-07	3-07		3-07										Delayed until 10/2007
699-48-7A		3-07	3-07		3-07										Yes
699-49-13E	3-07	3-07	3-07		3-07										Delayed until 10/2007
699-50-28B	3-07	3-07	3-07		3-07										Yes
699-52-19		3-07	3-07		3-07										Yes
699-8-17	3-07	3-07	3-07		3-07										Yes
699-8-25	3-07	3-07	3-07		3-07										Yes
699-9-E2	3-07	3-07	3-07		3-07										No I-129
699-S12-3		3-07	3-07		3-07										Yes
699-S19-E14		3-07	3-07		3-07										Yes
699-S2-34B	A	A	A		A					A					Yes
699-S3-25		3-07	3-07		3-07										Yes
699-S6-E14A		3-07	3-07		3-07										Yes
699-S6-E4A		3-07	3-07		3-07										Yes
699-S6-E4B		3-07	3-07		3-07										Yes
699-S8-19		3-07	3-07		3-07										Yes
81-D, M, S	A	A	A	A	A	A	A					A			Not found
82-M, S	A	A	A	A	A	A	A					A			Conductivity too low to sample
83-D	A	A	A	A	A	A	A					A			Not found
84-D, M, S	A	A	A	A	A	A	A					A			No Cr6+
85-D, M, S	A	A	A	A	A	A	A					A			No Cr6+
86-D, M, S	A	A	A	A	A	A	A					A			No Cr6+

(a) Some wells added in anticipation of Rev. 2 of DOE/RL-2003-04.
(b) Anions - Analytes include but not limited to nitrate.
(c) Metals - Analytes include but not limited to chromium, manganese, and vanadium.
3-xx = To be sampled triennially (every three years); xx indicates the fiscal year of sampling for specified analyte.
A = To be sampled annually.
ICP = Inductively coupled plasma.
VOA = Volatile organic analyses.

Table A.14. Monitoring Wells, Aquifer Tubes, and Constituents for 300-FF-5 Operable Unit, 300 Area (adapted from DOE/RL-2002-11)

Well or Aquifer Tube Name	Hydrologic Unit Monitored	Contaminants of Concern			Contaminants of Potential Concern				Supporting Measurements						Sampled as Scheduled in FY 2007
		cis-1,2-Dichloroethene	Trichloroethene	Uranium-total	Tetrachloroethene	Strontium-90	Tritium	Nitrate	Anions	Alkalinity	Metals (filtered)	Volatile Organic Compounds	Gross Alpha/Beta	Uranium-isotopic	
Near-River Well Grouping															
399-1-1	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-10A	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-1-10B	LU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-1-16A	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-1-16B	LU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-1-16C	C	A	A	A	A			A	A	A	A	A			Yes
399-2-1	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-2-2	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-3-1	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-3-9	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-3-10	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-3-18	TU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	Sampled three times
399-4-7	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-4-9	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-4-10	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
Central Region-Uranium Plume Transport Corridor Well Grouping															
399-1-2	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-6	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-7	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Sampled once
399-1-8	LU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-9	C	A	A	A	A			A	A	A	A	A			Yes
399-1-11	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-12	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-17A	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-1-17B	LU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-17C	C	A	A	A	A			A	A	A	A	A			Yes
399-1-21A	TU	SA	SA	Q	SA		A	Q	Q	Q	SA	SA	SA	A	Yes
399-1-21B	LU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-23	TU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	Sampled three times
399-2-5	TU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	New well; begin sampling FY 2008
399-3-11	TU	SA	SA	Q	SA	A	A	Q	Q	Q	SA	SA	SA	A	Yes
399-3-12	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-3-20	TU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	Yes
399-3-21	LU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	New well; sampled twice
Northwest Region-Upgradient Conditions Well Group															
399-1-15	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
399-1-18A	TU			SA			SA	SA	SA	SA	SA				Yes
399-1-18B	LU			SA			SA	SA	SA	SA	SA				Yes
399-1-18C	C			A				A	A	A	A				Yes
399-8-5A	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Yes
699-S20-E10	TU			SA			SA	SA	SA	SA	SA				Yes

Table A.14. (contd)

Well or Aquifer Tube Name	Hydrologic Unit Monitored	Contaminants of Concern			Contaminants of Potential Concern				Supporting Measurements						Sampled as Scheduled in FY 2007
		cis-1,2-Dichloroethene	Trichloroethene	Uranium-total	Tetrachloroethene	Strontium-90	Tritium	Nitrate	Anions	Alkalinity	Metals (filtered)	Volatile Organic Compounds	Gross Alpha/Beta	Uranium-isotopic	
Southwest Region-Upgradient Conditions Well Group															
399-3-2	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-3-6	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-3-19	TU	Q	Q	Q	Q		A	Q	Q	Q	Q	Q	Q	A	Yes
399-4-1	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-4-12	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
399-5-4B	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA			Yes
699-S27-E14	TU	A	A	A	A			A	A	A	A	A			Yes
Shoreline-Aquifer Tubes															
AT-3-1-D(1)	TU			A											Yes
AT-3-1-M	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		No cis-DCE
AT-3-1-S	TU			A											Yes
AT-3-2-M	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		Sampled once – No cis-DCE
AT-3-2-S	TU			A											Yes
AT-3-3-D	TU			A								SA			Yes
AT-3-3-M	TU			A											Yes
AT-3-3-S	TU	SA	SA	SA	SA			SA	SA	SA	SA	SA	SA		No cis-DCE, alpha, beta; some constituents only once
AT-3-4-D	TU			A								SA			Yes
AT-3-4-M	TU			A											Yes
AT-3-4-S	TU			SA				SA	SA	SA	SA		SA		No cis-DCE, alpha, beta; some constituents only once
AT-3-5-S	TU			SA				SA	SA	SA	SA		SA		Sampled once
AT-3-6-D	TU			A											Yes
AT-3-6-M	TU			A											Yes

Table A.14. (contd)

Well or Aquifer Tube Name	Hydrologic Unit Monitored	Contaminants of Concern			Contaminants of Potential Concern				Supporting Measurements						Sampled as Scheduled in FY 2007
		cis-1,2-Dichloroethene	Trichloroethene	Uranium-total	Tetrachloroethene	Strontium-90	Tritium	Nitrate	Anions	Alkalinity	Metals (filtered)	Volatile Organic Compounds	Gross Alpha/Beta	Uranium-isotopic	
AT-3-6-S	TU			SA				SA	SA	SA	SA		SA		Sampled once – No anions, metals, alpha, beta
AT-3-7-D	TU			A											Yes
AT-3-7-M	TU			SA				SA	SA	SA	SA		SA		Sampled once
AT-3-7-S	TU			A											Yes
AT-3-8-D	TU			A											No
AT-3-8-M	TU			A											Yes
AT-3-8-S	TU			SA				SA	SA	SA	SA		SA		Sampled once – No anions, metals, alpha, beta
Shoreline-Riverbank Springs															
S3-42-2	SW			A				A	A	A	A		A		Yes[a]
S3-DR42-2	SW			A				A	A	A	A		A		Yes[a]
SPRING 10	SW			A				A	A	A	A		A		No[b]
SPRING 11	SW			A				A	A	A	A		A		No[b]

(a) Isotopic uranium instead of total uranium.
(b) Sampling of springs depends on flow conditions.
A = To be sampled annually.
C = Uppermost confined aquifer.
LU = Lower unconfined aquifer.
Q = To be sampled quarterly.
SA = To be sampled semiannually.
SW = Surface water.
TU = Top of unconfined aquifer.

Table A.15. Monitoring Wells and Constituents for 300-FF-5 Operable Unit, 618-11 Subregion (adapted from DOE/RL-2002-11)

Well	Contaminants of Potential Concern						Supporting Measurements			Sampled as Scheduled in FY 2007
	Tritium	Gross Beta	Uranium	Technetium-99	Gross Alpha	Nitrate	Anions	Alkalinity	Metals (filtered)	
Downgradient of 618-11 Burial Ground (Near-Field)										
699-12-2C	Q	Q	SA	SA	Q	SA	SA	SA	SA	Yes
699-13-2D	Q	Q	SA	SA	Q	SA	SA	SA	SA	Yes
699-13-3A	Q	Q	SA	SA	Q	SA	SA	SA	SA	Yes
Upgradient Conditions (Near-Field)										
699-12-4D	A	A	A	A	A	A	A	A	A	Yes
Downgradient of 618-11 Burial Ground (Far-Field)										
699-13-0A	Q	Q			Q	SA	SA	SA	SA	Yes
699-13-1E	Q	Q			Q	SA	SA	SA	SA	Yes

A = To be sampled annually.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.16. Monitoring Wells and Constituents for 300-FF-5 Operable Unit, 618-10/316-4 Subregion (adapted from DOE/RL-2002-11)

Well	Contaminants of Potential Concern					Supporting Measurements						Sampled as Scheduled in FY 2007
	Uranium-total	Tributyl Phosphate	Gross Alpha	Gross Beta	Nitrate	Alkalinity	Metals (filtered)	Volatile Organic Compounds	Tritium	Technetium-99	Uranium-isotopic	
Downgradient of 618-10 Burial Ground (Near-Field)												
699-S6-E4K	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	A	Yes
699-S6-E4L	Q	SA	Q	Q	Q	SA	SA	SA	SA	SA	A	Yes
Downgradient of 618-10 Burial Ground; Within 316-4 Crib Footprint (Near-Field)												
699-S6-E4A	Q	SA	Q	Q	Q	SA	SA	SA	SA	SA	A	Yes
Background: 618-10 Burial Ground/316-4 Cribs												
699-S6-E4D	A		A	A	A	A	A		A	A		Yes
Downgradient of 618-10 Burial Ground/316-4 Crib												
699-S6-E4B	SA		SA	SA	SA	SA	SA		SA			Yes
699-S6-E4E	SA		SA	SA	SA	SA	SA		SA			Yes

Wells completed at the top of the unconfined aquifer.
A = To be sampled annually.
Q = To be sampled quarterly.
SA = To be sampled semiannually.

Table A.17. Monitoring Wells and Constituents for 1100-EM-1 Operable Unit (adapted from PNL-12220)

Well	Anions	Chromium	VOA	Sampled as Scheduled in FY 2007
699-S27-E12A	A		A	Yes
699-S28-E12	A		A	Yes
699-S28-E13A	A		A	Yes
699-S29-E10A	A		A	Yes
699-S29-E11	A		A	Yes
699-S29-E12	A		A	No
699-S29-E13A	A		A	Yes
699-S30-E10A	A		A	Yes
699-S30-E10B	A		A	Yes
699-S30-E11A	A		A	Yes
699-S31-E10A	A		A	Yes
699-S31-E10C	A		A	Yes
699-S31-E10D	A		A	Yes
699-S31-E11	A		A	Yes
699-S41-E12		A		Yes

A = To be sampled annually.
FY = Fiscal year.
VOA = Volatile organic analyses.