

Table 3-1. Summary of the WAG 5 site investigations by facility.^a

OU	Site Code	Description	FFA/CO Investigation (reference)	Decision Document (reference)	Date	Agency Decision
ARA-I (eight sites)						
5-10	ARA-01	Chemical/evaporation pond (ARA-745)	RI/FS (Stanisich et al. 1992)	Record of decision (DOE-ID 1992)	11/30/92	No Action
5-07	ARA-02	Sanitary waste leach field and seepage pit (ARA-746)	Track 2→Time Critical Removal Action (Pickett et al. 1993; Dietz 1998)	Agency recommendation	11/93	Review in OU 5-12 RI/FS
5-07	ARA-03	Pad near ARA-627 (lead sheeting)	Track 2 (Pickett et al. 1993)	Agency recommendation	11/93	Review in OU 5-12 RI/FS
None	ARA-04	Sewage Treatment Facility (ARA-737)	No Action (Hover 1992a)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-01	ARA-05	Evaporation pond to northeast (ARA-744)	Track 1 (EG&G April 1994)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-01	ARA-16	Radionuclide tank (ARA-729)	Track 1	None	None	Review in OU 5-12 RI/FS
5-01	ARA-17	Drain (ARA-626)	Track 1 (EG&G April 1993a)	Record of decision (DOE-ID 1996)	1/9/96	No Further Action
5-12	ARA-25	ARA-I Soils Beneath ARA-626 Hot Cells	New Site Identification Form	Proposed for listing	None	Proposed for Review in OU 5-12 RI/FS
ARA-II (eight sites)						
5-05	ARA-06	SL-1 Burial Ground	Track 2→RI/FS (Holdren, Filemyr, and Vetter 1995)	Record of Decision (DOE-ID 1996)	1/9/96	Remedial Action
None	ARA-07	Seepage pit to east (ARA-720A)	No Action (Hover 1992b)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	ARA-08	Seepage pit to west (ARA-720B)	No Action (Hover 1992c)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	ARA-09	Septic tank (ARA-738)	No Action (Hover 1992d)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	ARA-10	Septic tank east (ARA-613)	No Action (Hover 1992e)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	ARA-11	Septic tank west (ARA-606)	No Action (Hover 1992f)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-01	ARA-19	Detention tank for fuel oil/radionuclides (ARA-719)	Track 1 (EG&G April 1993d)	Decision statement	5/23/96	No Further Action
5-12	ARA-23	Radiologically contaminated surface soil around ARA-I and ARA-II	Track 1	New site form	9/28/94	Retain for analysis in OU 5-12 RI/FS

Table 3-1. (continued).

OU	Site Code	Description	FFA/CO Investigation (reference)	Decision Document (reference)	Date	Agency Decision
ARA-III (six sites)						
5-06	ARA-12	Radioactive waste leach pond	Track 2 (Pickett et al 1994)	Agency recommendation	2/9/96	Review in OU 5-12 RI/FS
5-11	ARA-13	Sanitary sewer leach field and septic tank (ARA-740)	Track 1 (EG&G June 1993)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
None	ARA-14	Septic tank and drain field (ARA-739)	No Action (Hover 1992g)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-01	ARA-15	Radionuclide tank (ARA-735)	Track 1 (LMITCO September 1994a)	Decision statement	4/20/95	No Further Action
5-01	ARA-18	Radionuclide tank (ARA-736)	Track 1 (LMITCO September 1994b)	Decision statement	4/20/95	No Further Action
5-12	ARA-24	ARA-III windblown soil	Track 1	New site form (DOE-ID 1997, Appendix B)	5/96	Retain for analysis in OU 5-12 RI/FS
ARA-IV (three sites)						
5-06	ARA-20	Test Area Contaminated Leach Pit 1	Track 2 (Pickett et al 1994)	Agency recommendation	2/9/96	No Further Action
None	ARA-21	Test Area Septic Tank and Leach Pit 2	No Action (Hover 1992h)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	ARA-22	Control Area Septic Tank and Leach Pit 3 (ARA-617)	No Action (Hover 1992i)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
PBF Control Area (five sites)						
None	PBF-01	Septic tank (PBF-724), seepage pit (PBF-735)	No Action (Hover 1992j)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	PBF-02	Septic tanks (PBF-738, -739), seepage pit (PBF-736)	No Action (Hover 1992k)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
None	PBF-03	Septic tank for PBF-632 and seepage pits (PBF-745,748)	No Action (Hover 1992l)	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-04	PBF-04	Oil tank at PBF-608 (substation) outside PBF fence	Track 1 (EG&G June 1994)	None	None	Retain for analysis in OU 5-12 RI/BRA
5-12	PBF-32	Fuel oil tank (PBF-742)	Track 1	New site form	9/28/94	Retain for analysis in OU 5-12 RI/FS
PBF Reactor Area (SPERT-I) (13 sites)						
5-08	PBF-05	Warm waste injection well (PBF-301)	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8/9/94	Retain for analysis in OU 5-12 RI/BRA.
5-03	PBF-06	Blowdown pit for reactor boiler by PBF-621	Track 1	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-03	PBF-07	Oil drum storage (PBF-T13)	Track 1	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action

Table 3-1. (continued).

OU	Site Code	Description	FFA/CO Investigation (reference)	Decision Document (reference)	Date	Agency Decision
5-13	PBF-08	Corrosive waste disposal sump brine tank (PBF-731)	Interim Action (Parsons 1995)	Record of Decision (DOE-ID 1996)	9/01/92	Remedial Action
None	PBF-09	Septic tank and drain field (PBF-728)	No Action	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-13	PBF-10	Evaporation pond (PBF-733)	Interim Action	Record of decision	9/01/92	Remedial Action
5-08	PBF-11	SPERT-I seepage pit (PBF-750)	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8/9/94	No Decision Documented
5-02	PBF-12	SPERT-I leach pond	Track 1 (EG&G March 1993a)	Decision statement	12/1/93	No Further Action
5-03	PBF-13	Rubble pit	Track 1 (EG&G 1993a)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-08	PBF-15	Corrosive waste injection well (PBF-302)	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8/9/94	No Decision Documented
5-03	PBF-28	Cooling tower area and drainage ditch	Track 1	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
None	PBF-29	PBF Reactor Area abandoned fuel oil tank	Track 1 → No Action	Remedial project manager meeting notes	1/5/95	No Action
5-12	PBF-30	Abandoned septic system	Track 1 (see Pollitt 1998 in Appendix J)	Decision statement	5/23/96	No Further Action
PBF—WEDF (SPERT-II) (four sites)						
5-04	PBF-14	SPERT-II inactive fuel oil tank (front of PBF-612)	Track 1 (EG&G March 1993c)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-09	PBF-16	SPERT-II leach pond	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8-9/94	No Decision Documented
None	PBF-17	SPERT-II septic tank and seepage pit (PBF-725)	No Action	FFA/CO (DOE-ID 1991)	12/4/91	No Action
5-12	PBF-31	Fuel oil tank (PBF-732)	Track 1 (see Pollitt 1998 in Appendix J)	New site form	9/28/94	Review in OU 5-12 RI/FS
PBF—WERF (SPERT-III) (four sites)						
5-04	PBF-19	SPERT-III inactive fuel oil tank (west side of WERF)	Track 1 (EG&G, May 1993)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-09	PBF-20	SPERT-III small leach pond	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8-9/94	No Decision Documented
5-02	PBF-21	SPERT-III large leach pond	Track 1	Decision statement	2/6/95	No Further Action
None	PBF-27	SPERT-III septic tank (PBF-726) and seepage pit	No Action	FFA/CO (DOE-ID 1991)	12/4/91	No Action

Table 3-1. (continued).

OU	Site Code	Description	FFA/CO Investigation (reference)	Decision Document (reference)	Date	Agency Decision
PBF—MWSF (SPERT-IV) (four sites)						
5-09	PBF-22	SPERT-IV leach pond (PBF-758)	Track 2 (Hillman-Mason et al. 1994)	Agency recommendation	8-9/94	No Decision Documented
5-03	PBF-24	SPERT-IV blowdown pit (adjacent to PBF-716)	Track 1 (EG&G March 1993a)	Record of Decision (DOE-ID 1996)	1/9/96	No Further Action
5-12	PBF-25	SPERT-IV septic tank and leach pit (PBF-727 and PBF-757)	No Action→Track 1 (Hover 1992p)	New site form	5/23/96	No Further Action
5-02	PBF-26	SPERT-IV lake	Track 1→Time Critical Removal Action (Hiaring 1998a; Dietz 1998)	Agency recommendation	8/95	Retain for analysis in OU 5-12 RI/BRA

a. The information in this table was taken from the WAG 5 Work Plan (DOE-ID 1997) and updated with information collected during the RI/FS.

b. Site codes PBF-18 and PBF-23 were not used.

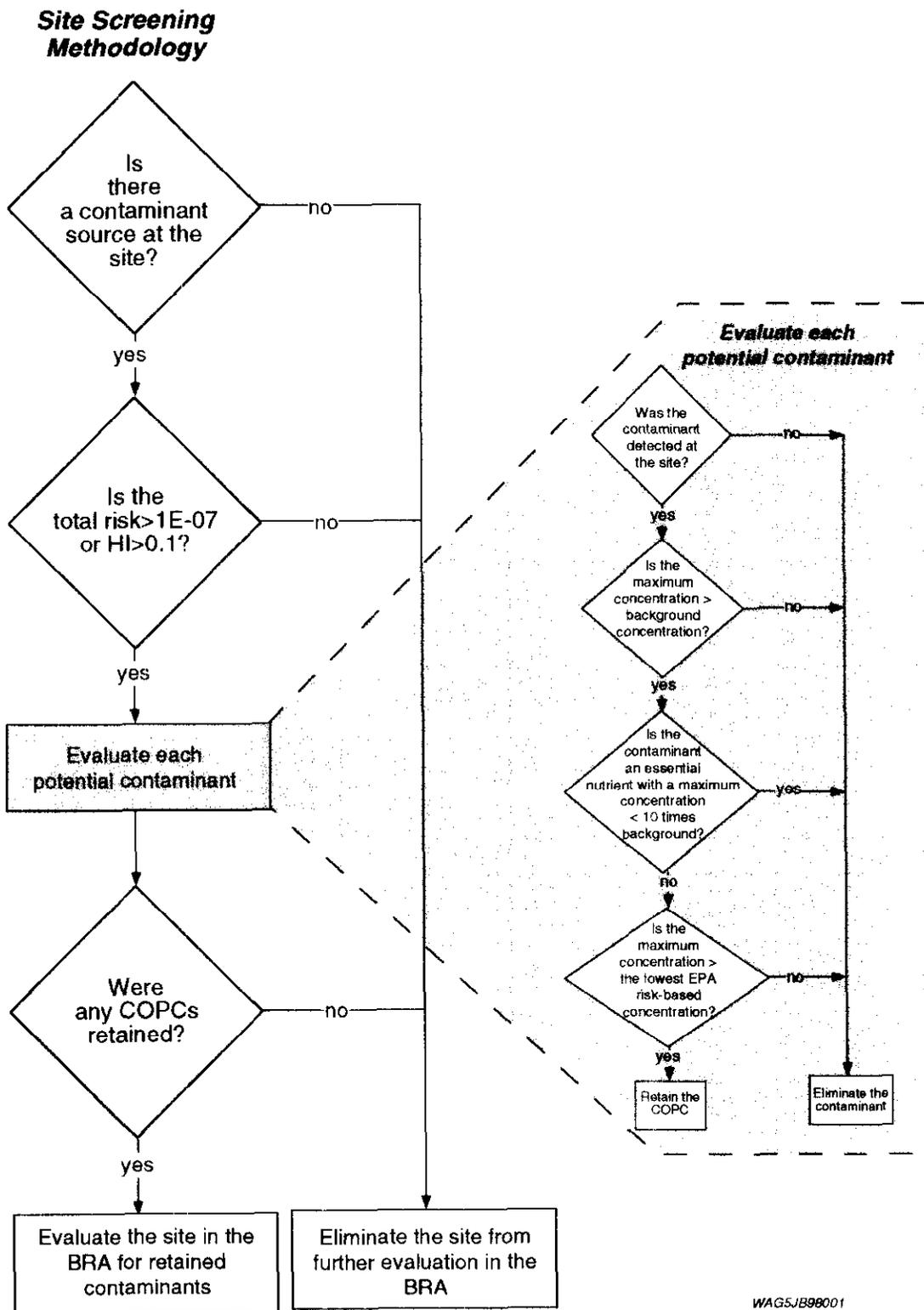


Figure 3-1. Site and contaminant screening for the WAG 5 comprehensive RI/FS.

3. No contaminants of potential concern in concentrations greater than screening levels are associated with the site.
4. Other site-specific factors.

These criteria are discussed below, followed by a summary of the site screening.

3.4.1 Source Identification

Those sites with no source term were eliminated from quantitative evaluation in the BRA. The sites eliminated under this criterion were those for which no contaminants of potential concern were identified (see Section 3.4.3), indicating that no source of potential release is associated with the sites.

3.4.2 Previous Risk Evaluations

Many individual sites within WAG 5 have been evaluated. Those sites with risk assessments that showed total risks of less than $1E-07$ or a hazard index of less than 0.1 were eliminated in accordance with INEEL guidance for cumulative risk assessment (LMITCO May 1995). Sites evaluated qualitatively under the Track 1 or Track 2 process were considered below those levels if qualitative risk and uncertainty were both low. Any site not adequately evaluated for risk was retained or eliminated on the basis of contaminant screening.

3.4.3 Contaminant Screening

For potential sources located in the top 3-m (10-ft) interval at a site, each contaminant was eliminated from further evaluation if it met any one of the following four criteria:

- The contaminant was not detected at the site.
- The maximum detected contaminant concentration was less than the background concentration in surficial soils on the INEEL. For contaminant-screening purposes, the contaminant was retained if a background value was not listed by Rood, Harris, and White (1996).
- The contaminant is an essential nutrient with a maximum detected concentration less than 10 times the INEEL background concentration listed by Rood, Harris, and White (1996).
- The maximum detected contaminant concentration is less than the lowest EPA risk-based concentration (EPA 1995).

An aspect of the risk assessment that tends to exaggerate risk results is the evaluation of contaminants with background concentrations that produce calculated risks of more than $1E-06$. Two examples of this type of contaminant are arsenic and beryllium. Both contaminants are commonly detected in INEEL soils at concentrations slightly higher than accepted background concentrations. However, neither contaminant is associated with known waste-producing processes at WAG 5 and they both have very high toxicity constants. Therefore, arsenic and beryllium were eliminated from the risk assessment for several sites. Two sites evaluated in the BRA, ARA-01 and PBF-22, contain maximum detected arsenic concentrations that are significantly greater than INEEL background levels. These were contaminated by wastewater that was released into disposal ponds. Naturally occurring arsenic could have been concentrated in the wastewater. Therefore, arsenic is retained for further evaluation as a COPC at these sites.

Any contaminant failing to meet one of the above criteria was identified as a COPC, and the site associated with that COPC was retained for evaluation in the BRA. The results of contaminant screening are presented in Appendix B Tables B-1 through B-18. For each contaminant, the tables show the maximum concentration found at each retained site, the background concentration, the risk-based concentration (RBC), and whether a given contaminant is eliminated by the screening process.

A contaminant that may be present at a retained site possibly may not be detected by any site sampling investigations. These unidentified contaminants would not be included in the contaminant screening evaluation, thus the risk associated with a site may be underestimated. However, the possibility of important contaminants escaping identification is slight because most site sampling investigations were designed to detect all contaminants that may have been released. To minimize the likelihood that a significant contaminant was omitted from analysis, a review of the processes that generated contamination at each retained site was included as part of the BRA data evaluation process described in Section 6.1.1.

3.4.4 Other Site-Specific Factors

Because the contaminant-screening scheme did not apply neatly to all sites at WAG 5, a fourth screening criterion was designated to address exceptions. Specifically, sites that have subsurface contamination below a depth of 3 m (10 ft) pose no risk from surface exposure pathways but could pose a human health risk via the groundwater ingestion pathway. The sites with possible subsurface contamination include ARA-06, PBF-04, PBF-08, PBF-15, PBF-31, and PBF-32. The justifications for eliminating these six sites are discussed below.

The ARA-06 site, the SL-1 Burial Ground, was eliminated based on two evaluations. The potential risks to workers and future residents at ARA-06 were estimated in an RI/FS (Holdren, Filemyr, and Vetter 1995) at levels above the 1E-04 risk range for the external exposure and soil ingestion pathways. Therefore, a cap was constructed over the area in a remedial action to provide containment and shielding and prevent inadvertent intrusion (DOE-ID 1996). Estimated risk from groundwater ingestion in the RI/FS was 1E-06; therefore, the remedial action did not address the groundwater ingestion pathway. The groundwater risks were further evaluated in a sensitivity study (see Magnuson and Sondrup 1998 in Appendix J) for the three groundwater COPCs identified in the SL-1 RI/FS: Tc-99, H-3, and Pu-239. In the sensitivity analysis, the source term inventories were increased by factors of two and three and the simulated infiltration rate was doubled, roughly equal to the average annual precipitation. The resulting risk estimates for groundwater ingestion remained at less than 2.0E-06. Therefore, ARA-06 was not retained for evaluation in the WAG 5 comprehensive BRA.

At the PBF-04, PBF-31, and PBF-32 sites, all of the fuel oil tanks were replaced and all surface soil contamination was removed. However, product saturation at the basalt-soil interface was observed at the three sites and unknown quantities of fuel oil were released to the subsurface. Two of these three sites, PBF-31 and PBF-32, were further characterized during the comprehensive RI/FS by drilling boreholes and collecting interbed soil samples (see Sections 3.1.53 and 3.1.54 for discussions of the PBF-31 and PBF-32 characterization). Safety issues precluded borehole installation at PBF-04 because the site is located over the electrical grounding grid at the PBF Control Area Substation. Therefore, during the scoping meetings for the WAG 5 comprehensive RI/FS, DOE, EPA, and IDHW representatives for WAG 5 agreed to assess subsurface contamination at PBF-04 on the basis of the results of the PBF-31 and PBF-32 sample results. Total petroleum hydrocarbons (TPH) and several semivolatile compounds were detected in the PBF-31 and PBF-32 interbed samples, but all of the detected concentrations were less than the contaminant screening levels used in the BRA. Specifically, all of the TPH concentrations were less than the 1,000 mg/kg residential cleanup standard used by the state of Idaho, and all of the semivolatile compound concentrations were less than EPA Region 3 risk-based concentrations. As a

result, the PBF-31, PBF-32, and PBF-04 tank sites were excluded from further evaluation in the WAG 5 comprehensive BRA.

The PBF-05 and PBF-15 sites are two vadose zone injection wells (33.5 and 35.4 m [110 and 116 ft] deep, respectively) for which no contaminated zone soil analytical data were collected. The two injection well sites were evaluated through GWSCREEN modeling to estimate human health risk via the groundwater pathway (see Rohe, Sondrup, and Whitaker 1996 in Appendix J). Based on the GWSCREEN modeling, PBF-15 was eliminated from further evaluation because no unacceptable risks were identified; PBF-05 was retained because of the potential risk posed by Sr-90.

The PBF-08 site, the PBF Reactor Area corrosive waste sump, was eliminated as a site of concern. No soil contamination is believed to exist at the site. However, soil sampling outside the sump has not been conducted and sampling inside the sump showed high concentrations of chromium and Cs-137 in the sludge. A remedial action was completed during which all contaminants within the sump were removed and the concrete walls and bottom were decontaminated. There was no evidence that the concrete walls and floor had degraded, which would have allowed contaminants to escape to the surrounding soil (Parsons 1995). Therefore, PBF-08 was eliminated from further evaluation in the WAG 5 comprehensive BRA.

3.4.5 Summary of Site Screening

As a result of the site and contaminant screening process, 40 of the 54 WAG 5 release sites were dismissed from further quantitative evaluation in the WAG 5 comprehensive RI/BRA and 14 were retained. The site summaries presented in Section 3.1, and the results of contaminant screening presented in Tables B-1 through B-18 of Appendix B provide supporting justification for the site screening. The results are summarized in Table 3-2. Sampling events conducted for WAG 5 that were used as the basis of the contaminant screening process did not remove all uncertainty associated with the nature and extent of contamination at WAG 5 sites. However, in conjunction with conservative assumptions about the nature and extent of contamination, the data were sufficient to provide conservative source term estimates for the BRA and to evaluate remedial alternatives in the feasibility study.

Table 3-2. Summary of site and contaminant screening for the WAG 5 comprehensive RI/FS.

Site Code	Site Description	Screening Result ^a	Contaminants of Potential Concern
Auxiliary Reactor Area I			
ARA-01	ARA-I chemical evaporation pond (ARA-745)	Retained	Arsenic, lead, thallium, Am-241, Cs-137, Pu-238, Pu-239/240, Ra-226, Sr-90, and U-235
ARA-02	ARA-I sanitary waste seepage pit (ARA-746)	Retained	Arsenic, cadmium, chromium, copper, lead, nickel, silver, Aroclor-1242, diethylether, Ag-108m, Am-241, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Np-237, Pu-238, Pu-239/240, Ra-226, Sr-90, Tc-99, Th-230, U-234, U-235, and U-238
	ARA-I sanitary waste septic tank soils (ARA-746)	Retained	Arsenic, Ra-226, Sr-90, U-234, and U-235
ARA-03	ARA-I pad near ARA-627 (lead sheeting)	Retained	Cs-137
ARA-04	ARA-I sewage treatment facility (ARA-737)	Criterion 1	None
ARA-05	ARA-I evaporation pond to NE (ARA-744)	Criterion 1	None
ARA-16	ARA-I radionuclide tank (ARA-729)	Retained	Chloride, sulfate, Ag-108m, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Ra-226, and Sr-90
ARA-17	ARA-I drain (ARA-626)	Criterion 1	None
ARA-23	Radiologically contaminated soils and subsurface structures in and around ARA-I and II	Retained	Am-241, Cs-137, Ra-226, Sr-90, Th-230, and U-235
ARA-25	ARA-I contaminated soils beneath the ARA-626 hot cells	Retained	Arsenic, copper, lead, manganese, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Ra-226, Sr-90, and U-235
Auxiliary Reactor Area II			
ARA-06	ARA-II SL-I Burial Ground	Criterion 4	None
ARA-07	ARA-II seepage pit to east (ARA-720A)	Criterion 1	None
ARA-08	ARA-II seepage pit to west (ARA-738)	Criterion 1	None
ARA-09	ARA-II septic tank (ARA-738)	Criterion 1	None
ARA-10	ARA-II Septic Tank East (ARA-613)	Criterion 1	None

Table 3-2. (continued).

Site Code	Site Description	Screening Result ^a	Contaminants of Potential Concern
Auxiliary Reactor Area III			
ARA-11	ARA-II septic tank to west (ARA-606)	Criterion 1	None
ARA-19	ARA-II detention tank for fuel oil or radionuclides (ARA-719)	Criterion 1	None
ARA-12	ARA-III radioactive waste leach pond	Retained	Chromium, lead, manganese, Ag-108m, Am-241, Co-60, Cs-137, Pu-238, U-234, and U-238
ARA-13	ARA-III sanitary sewer leach field and septic tank (ARA-740)	Criterion 2	None
ARA-14	ARA-III septic tank and drain field (ARA-739)	Criterion 1	None
ARA-15	ARA-III radionuclide tank (ARA-735)	Criterion 1	None
ARA-18	ARA-III radionuclide tank (ARA-736)	Criterion 1	None
ARA-24	ARA-III windblown soils	Retained	Pu-238
Auxiliary Reactor Area IV			
ARA-20	ARA-IV Test Area contaminated leach pit No. 1	Criterion 2	None
ARA-21	ARA-IV Test Area septic tank and leach pit No. 2	Criterion 1	None
ARA-22	ARA-IV Control Area septic tank and leach pit No. 3	Criterion 1	None
Power Burst Facility Control Area			
PBF-01	PBF Control Area septic tank (PBF-724), seepage pit (PBF-735)	Criterion 1	None
PBF-02	PBF Control Area septic tanks (PBF-738, 739), seepage pit (PBF-736)	Criterion 1	None
PBF-03	PBF Control Area septic tank for PBF-632 and seepage pits (PBF-745, 748)	Criterion 1	None
PBF-04	PBF Control Area oil tank at PBF-608 (substation) outside of the PBF fence	Criterion 4	None

Table 3-2. (continued).

Site Code	Site Description	Screening Result ^a	Contaminants of Potential Concern
PBF-32	PBF Control Area fuel oil tank (PBF-742)	Criteria 3 and 4	None
Power Burst Facility Reactor Area (SPERT-I)			
PBF-05	PBF Reactor Area warm waste injection well (PBF-301)	Retained	Sr-90
PBF-06	PBF Reactor Area blowdown pit for reactor boiler by PBF-621	Criterion 1	None
PBF-07	PBF Reactor Area oil drum storage	Criterion 1	None
PBF-08	PBF Reactor Area corrosive waste disposal sump brine tank (PBF-731)	Criterion 1	None
PBF-09	PBF Reactor Area septic tank and drain field (PBF-728)	Criterion 1	None
PBF-10	PBF Reactor Area evaporation pond (PBF-733)	Retained	Cs-137
PBF-11	PBF Reactor Area SPERT-I seepage pit	Criterion 2	None
PBF-12	PBF Reactor Area SPERT-I leach pond	Retained	Cs-137, Co-60, Pu-238, Sr-90, U-234, U-235, and U-238
PBF-13	PBF Reactor Area rubble pit	Criterion 2	None
PBF-15	PBF Reactor Area corrosive waste injection well (PBF-302)	Criterion 4	None
PBF-28	PBF Reactor Area cooling tower area and drainage ditch	Criterion 2	None
PBF-29	PBF Reactor Area abandoned fuel oil tank	Criterion 1	None
PBF-30	PBF Reactor Area abandoned septic system	Criterion 2	None
Power Burst Facility Waste Engineering Development Facility (SPERT-II)			
PBF-14	PBF SPERT-II inactive fuel oil tank (Front of PBF-612)	Criterion 2	None
PBF-16	PBF WEDF (SPERT-II) SPERT-II leach pond	Retained	Lead

Table 3-2. (continued).

Site Code	Site Description	Screening Result ^a	Contaminants of Potential Concern
PBF-17	PBF SPERT-II septic tank and seepage pit	Criterion 1	None
PBF-31	PBF WEDF (SPERT-II) fuel oil tank (PBF-732)	Criteria 3 and 4	None
Power Burst Facility Waste Experimental Reduction Facility (SPERT-III)			
PBF-19	PBF SPERT-III inactive fuel oil tank at PBF-609 (West side of WERF)	Criterion 2	None
PBF-20	PBF SPERT-III small leach pond	Criterion 2	None
PBF-21	PBF WERF (SPERT-III) SPERT-III large leach pond	Retained	Chloride, orthophosphate, sulfate, Co-60, Cs-137, U-234, U-235, and U-238
PBF-27	PBF SPERT-III septic tank (PBF-726) and seepage pit	Criterion 1	None
Power Burst Facility Mixed Waste Storage Facility (SPERT-IV)			
PBF-22	PBF MWSF (SPERT-IV) SPERT-IV leach pond (PBF-758)	Retained	Arsenic, lead, manganese, Am-241, Cs-137, Pu-238, Pu-239, Th-228, Th-230, Th-232, U-234, and U-238
PBF-24	PBF SPERT-IV blowdown pit (adjacent to PBF-716)	Criterion 1	None
PBF-25	PBF SPERT-IV septic tank and leach pit (PBF-727, 757)	Criterion 1	None
PBF-26	PBF MWSF (SPERT-IV) SPERT-IV lake	Retained	Arsenic, lead, Aroclor-1254, Cs-137

a. The screening criteria used to justify eliminating sites from further evaluation in the WAG 5 baseline risk assessment are as follows:

1. No contaminant source is present at the site.
2. Total risk is less than or equal to 1E-07, and the hazard index is less than or equal to 0.1. Qualitative risk evaluations as determined in Track 1 assessments are considered below these levels if qualitative risk and uncertainty were both low.
3. No contaminants of potential concern in concentrations greater than screening levels are associated with the site.
4. Other site-specific factors. See Section 3.4.4.

3.5 References

- 42 USC § 6901 et seq., *United States Code*, October 21, 1976, "Resource Conservation and Recovery Act."
- 15 USC § 53, "Toxic Substances Control," Subchapter I, "Control of Toxic Substances."
- 40 CFR 700 through 799, Code of Federal Regulations, title 40, "Protection of Environment," Parts 700 through 799, Toxic Substance Control Act.
- U.S. Department of Energy Order 5820.2A, "Radioactive Waste Management," September 26, 1988.
- Anderson, I., 1994, *Environmental Restoration Department Sample/Shipping Logbooks*, Logbook ERP-063-94, EG&G Idaho, Inc.
- Baumer, A. R. II, S. C. Flynn, and C. S. Watkins, March 1995, *Quality Assurance Project Plan for Waste Area Groups 1, 2, 3, 4, 5, 6, 7, and 10*, INEL-95/0086 (formerly EGG-WM-10076), Rev. 4, Lockheed Martin Idaho Technologies Company.
- Dietz, C. G., 1998, "Auxiliary Reactor Area ARA-02 Septic Tank Time Critical Removal Action Summary Report," INEEL/EXT-98-00106. Lockheed Martin Idaho Technologies Company.
- DOE-ID, May 1997, *Final Work Plan for Waste Area Group 5 Operable Unit 5-12 Comprehensive Remedial Investigation/Feasibility Study*, DOE/ID-10555, Rev. 0, U.S. Department of Energy, Idaho Operations Office.
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