APPENDIX B

SAMPLE SITE DESCRIPTIONS AND MAPS

This appendix provides descriptive information about the sampling locations and maps of all the locations for the Radiological Environmental Monitoring Program sites.

Table B-1 provides information on sample type, identification codes, and map location references. The sample identification code is an alphanumeric string beginning with the prefix "R" (for Rancho Seco Nuclear Station) followed by two letters to identify the sample media:

AS	Air	SL	Soil
RW	Runoff Water	FS	Fish
SW	Surface Water	LV	Garden Vegetable
DW	Drinking Water	AG	Algae
WW	Well Water	TL	Direct Gamma Radiation (Luxel)
MS	Mud and Silt	RN	Rainwater

The numeric designations, which follow the letter designations, indicate the straight-line distance (in miles) from the center of the Reactor Building to the monitoring site.

The next letter designates the sector in which the monitoring location is located. The letters A through R are used for sector designators. The letters I and O are not used to prevent confusion with the numbers one and zero in the ID codes.

Sector Letter	Degrees Azimuth	Compass Point
A	348.75 to 11.25	N
B	11.25 to 33.75	NNE
C	33.75 to 56.25	NE
D	56.25 to 78.75	ENE
E	78.75 to 101.25	E
F	101.25 to 123.75	ESE
G	123.75 to 146.25	SE
H	146.25 to 168.75	SSE
J	168.75 to 191.25	S
K	191.25 to 213.75	SSW
L	213.75 to 236.25	SW
M	236.25 to 258.75	WSW
N	258.75 to 281.25	W
P	281.25 to 303.75	WNW
Q	303.75 to 326.25	NW
R	326.25 to 348.75	NNW

SAMPLE SITE DESCRIPTIONS AND MAPS
(continued)

The final letter designation indicates if the location is part of the operational REMP program ("O") or post-operational REMP program ("P").

Table B-1 Lists each location referencing the sample type and the location ID code to the map site number on one of the four Radiological Environmental Monitoring Site Maps included in this Appendix.

Figure B-1 **Site Location Map:** Shows the locations of the sample locations on and/or near the Site (including Storm Drain locations).

Figure B-2 **1 Mile Radius map:** Sampling locations within one mile of the Reactor Building centerline are shown on this map.

Figure B-3 **5 Mile Radius map:** Sampling locations between one and five miles from the Reactor Building centerline are shown on this map.

Figure B-4 **25 Mile Radius map:** Sampling locations between five to 25 miles from the Reactor Building centerline are shown on this map.

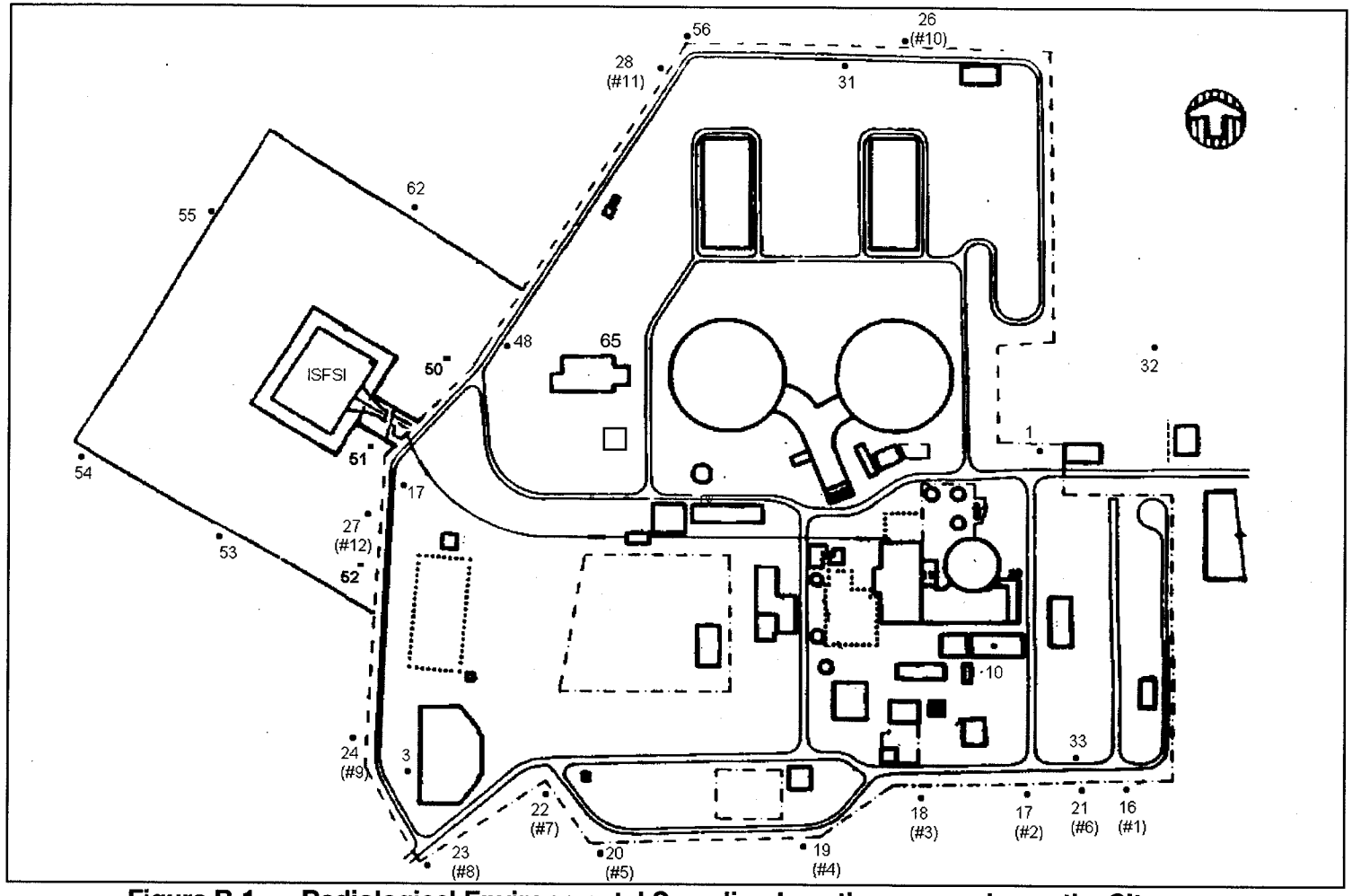

Figure B-1 **Radiological Environmental Sampling Locations on and near the Site**
(Storm Drain location numbers are in parenthesis)

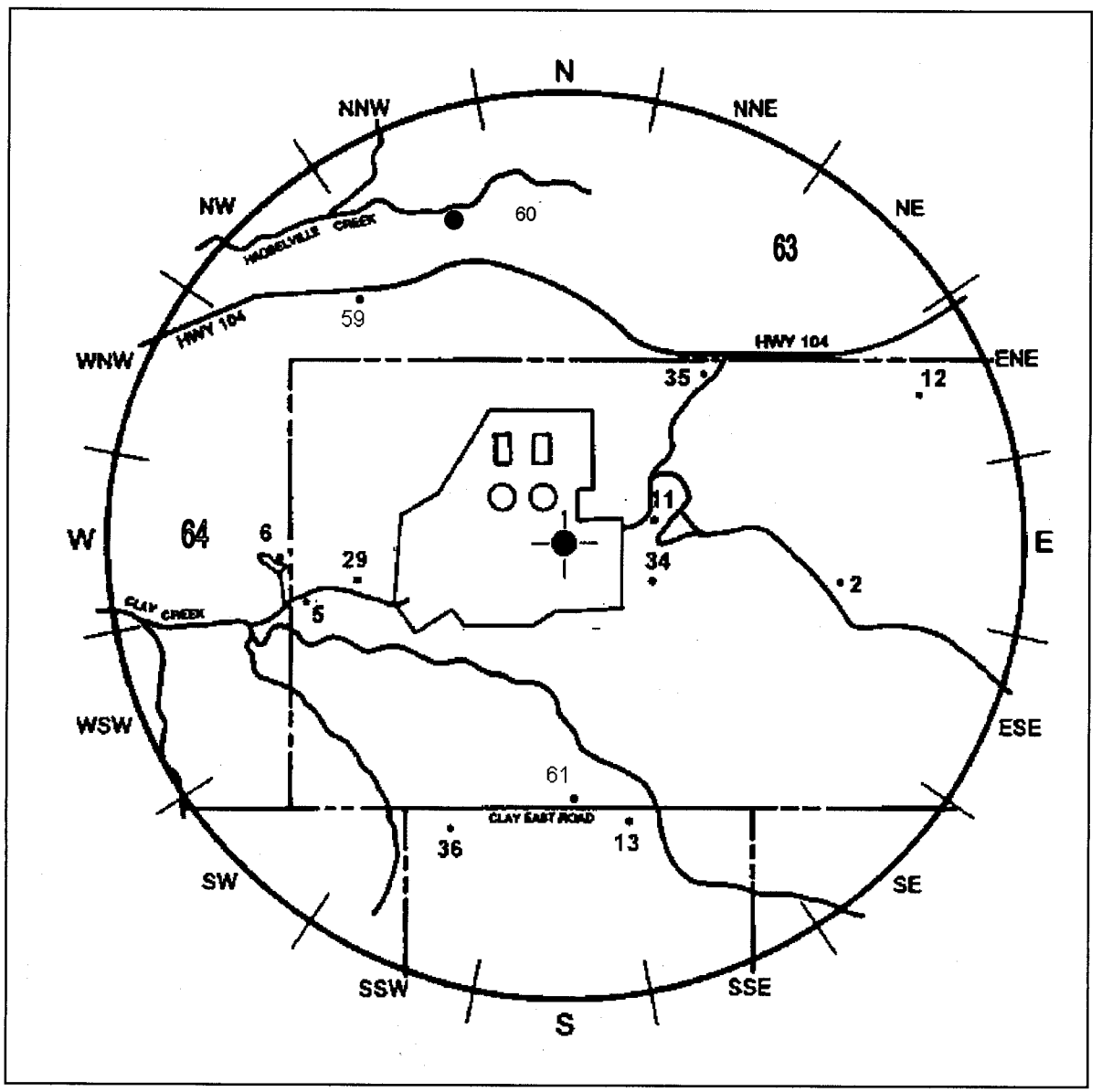

Figure B-2 Radiological Environmental Sampling Locations within 1 mile from the Reactor Building

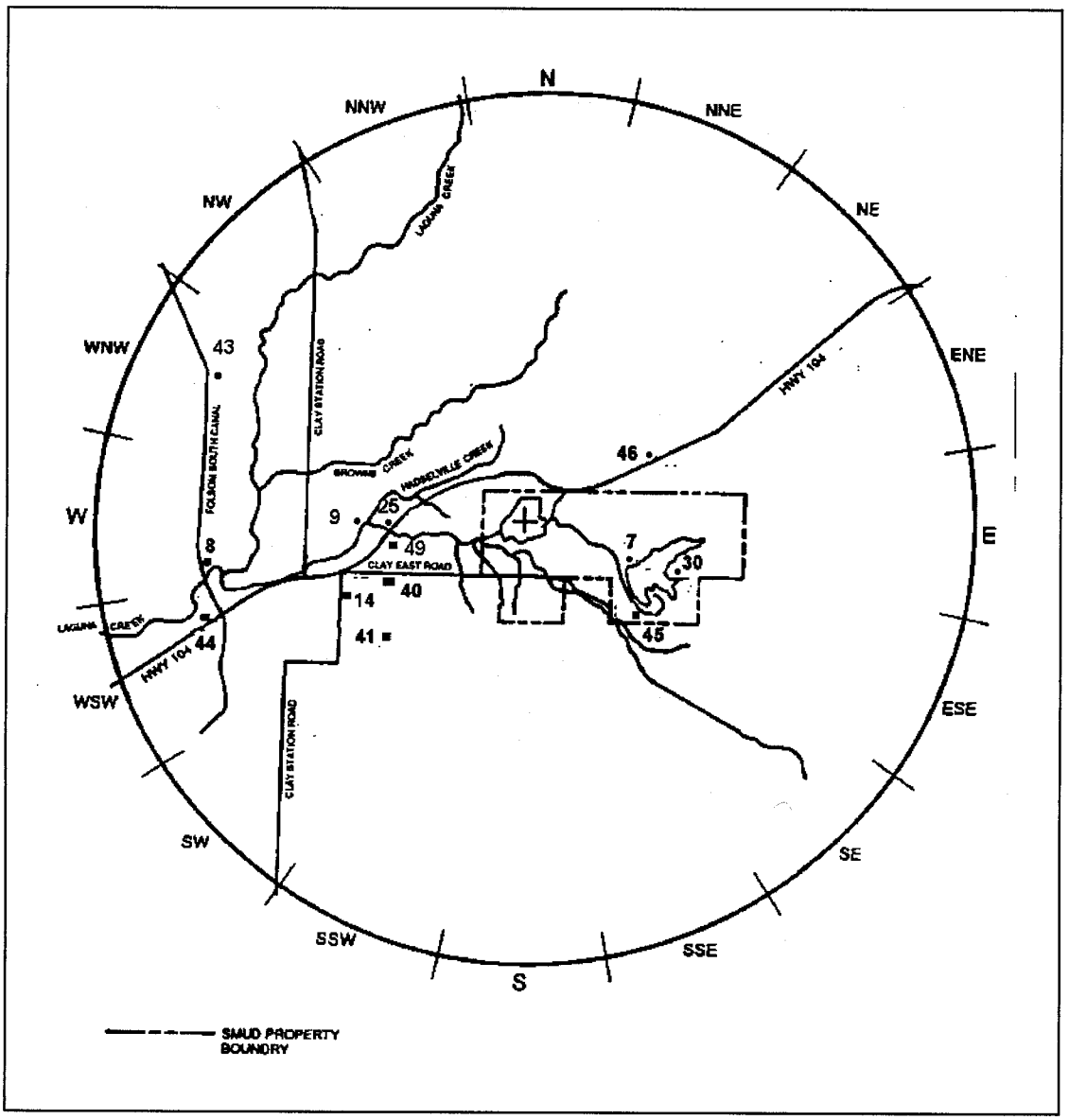

Figure B-3 Radiological Environmental Sampling Locations from 1 to 5 miles from the Reactor Building

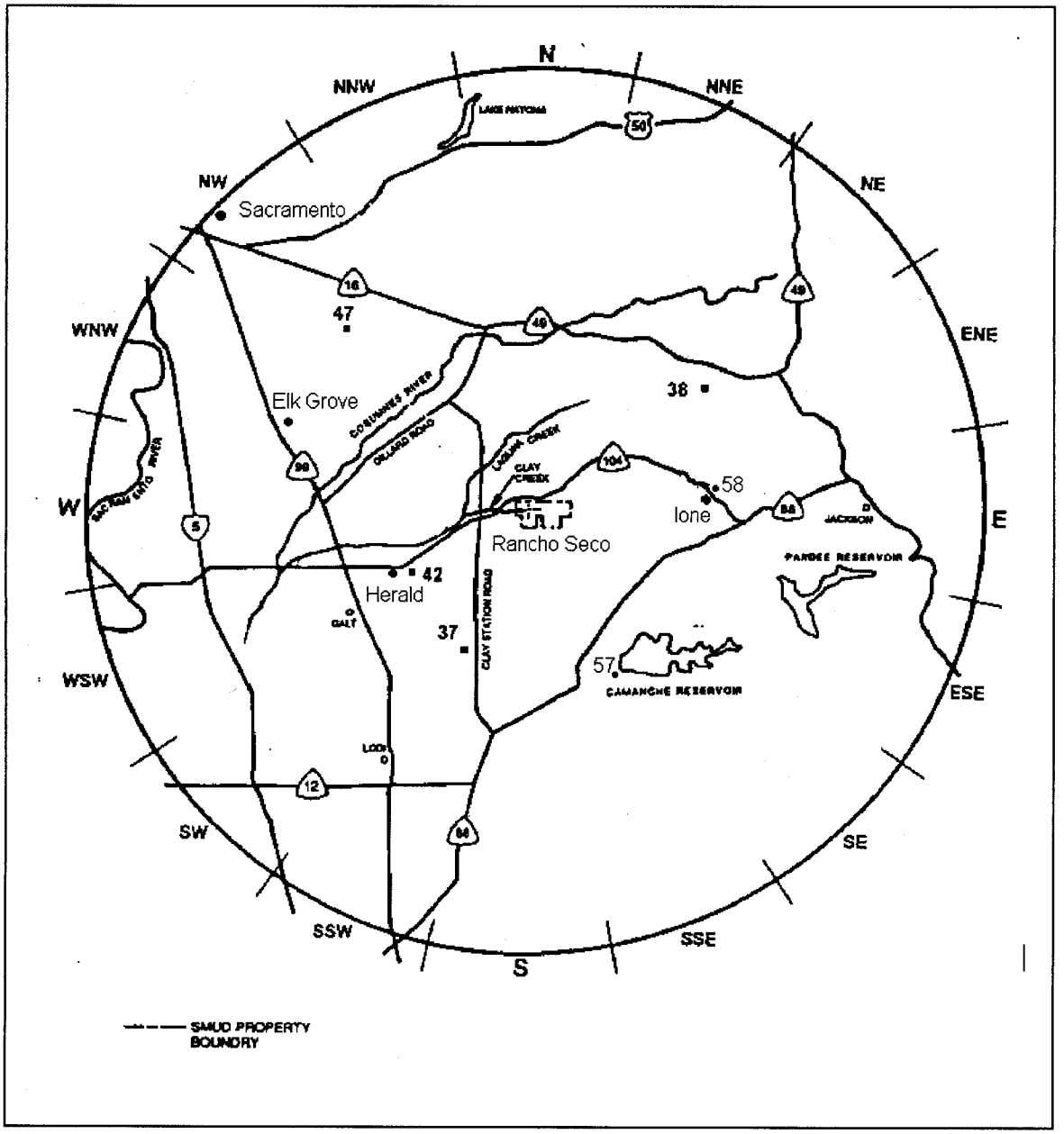

Figure B-4 Radiological Environmental Sampling Locations 5 to 25 miles from the Reactor Building

Table B-1
Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map Location No.	Collection Frequency	Description. of Location	Miles	Sector
AIR	RAS0.1CO	IND.	1	Weekly	On Site-PAP BLDG.	0.1	C
AIR	RAS0.7EO	IND.	2	Weekly	Meteorological Tower	0.7	E
AIR	RAS0.3MO	IND.	3	Weekly	Effluent Discharge	0.3	M
AIR	RAS1.8FP	CON	30	Weekly	Rancho Seco Reservoir Well Enclosure	1.8	F
RUNOFF WATER	RRW0.6MO	IND.	5	Biweekly	Site Boundary	0.6	M
SURFACE WATER	RSW0.7NO	IND.	6	Monthly	Water Sump	0.7	N
SURFACE WATER	RSW1.3FO	CON	7	Monthly	Rancho Seco Reservoir	1.3	F
SURFACE WATER	RSW3.7NO	CON	8	Monthly Composite	ISCO Composite Sampler at Folsom South Canal	3.7	N
SURFACE WATER	RSW0.3MO	IND.	3	Monthly Composite	ISCO Composite Sampler at Effluent Discharge	0.3	M
SURFACE WATER	RSW1.8NO	IND.	9	Monthly	Confluence of Clay and Hadselville Creeks	1.8	N
DRINKING WATER	RDW0.1GO	IND.	10	Monthly	Rancho Seco Site	0.1	G
DRINKING WATER	RDW1.8FP	CON	30	Monthly	Rancho Seco Lake Well	1.8	F
DRINKING WATER	RDW0.2PP	IND	65	Monthly	SAS Well	0.2	P

Table B-1
(Continued)
Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map Location No.	Collection Frequency	Description. of Location	Miles	Sector
WELL WATER	RWW0.3EO	IND.	11	Quarterly	Site Well	0.3	E
WELL WATER	RWW0.8DO	CON	12	Quarterly	Marciel Ranch	0.8	D
WELL WATER	RWW0.8LO	IND.	13	Quarterly	Clay Cattle Feedlot	0.8	L
WELL WATER	RWW3.7MO	IND.	8	Quarterly	Silva Feed Lot Well	3.7	M
WELL WATER	RWW2.1M0	IND.	14	Quarterly	Clay Area Well (Tipling's)	2.2	M
WELL WATER	RWW1.5MP	IND.	49	Quarterly	Vineyard Well (west)	1.5	M
WELL WATER	RWW0.7RP	IND	60	Quarterly	Vineyard Well (northwest of Hwy 104)	0.7	R
WELL WATER	RWW0.6RP	IND	59	Quarterly	Vineyard Well (south of Hwy 104)	0.6	R
WELL WATER	RWW0.9CP	IND	63	Quarterly	Vineyard Well (northeast of site)	0.9	C
RAIN WATER	RRN0.8DO	IND.	2	Seasonal	Meteorological Tower	0.8	D

Table B-1
(Continued)
Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map location No.	Collection Frequency	Description. of Location	Miles	Sector
MUD AND SILT	RMS0.3MO	IND.	3	Quarterly	Effluent Discharge	0.3	M
MUD AND SILT	RMS0.6MO	IND.	5	Quarterly	Site Boundary	0.6	M
MUD AND SILT	RMS0.7NO	IND.	6	Quarterly	Water Sump	0.7	N
MUD AND SILT	RMS1.8NO	IND.	9	Quarterly	Confluence of Clay and Hadselville Creeks	1.8	N
MUD AND SILT	RMS3.7NO	IND.	8	Quarterly	Laguna Creek at Folsom South Canal	3.7	N
FISH	RFS0.3MO	IND.	3	Semi-Annual	Effluent Discharge	0.3	M
FISH	RFS0.6MO	IND.	5	Semi-Annual	Site Boundary	0.6	M
FISH	RFS0.7NO	IND.	6	Semi-Annual	Water Sump	0.7	N
FISH	RFS1.5FO	CON	7	Semi-Annual	Rancho Seco Reservoir	1.5	F
FISH	RFS1.8NO	IND.	9	Semi-Annual	Confluence of Clay and Hadselville Creeks	1.8	N
ALGAE	RAG0.3MO	IND.	3	Semi-Annual	Effluent Discharge	0.3	M
ALGAE	RAG0.6MO	IND.	5	Semi-Annual	Site Boundary	0.6	M
ALGAE	RAG0.7NO	IND.	6	Semi-Annual	Water Sump	0.7	N
ALGAE	RAG1.8NO	IND.	9	Semi-Annual	Confluence of Clay and Hadselville Creek	1.8	N
ALGAE	RAG3.7NO	IND.	8	Semi-Annual	Hadselville Creek at Folsom South Canal	3.7	N

Table B-1
(Continued)

Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map location No.	Collection Frequency	Description. of Location	Miles	Sector
SOIL	RSL0.2HO1	IND.	16	Semi-Annual	Storm Drain No. 1	0.2	H
SOIL	RSL0.2HO2	IND.	17	Semi-Annual	Storm Drain No. 2	0.2	H
SOIL	RSL0.2JO	IND.	18	Semi-Annual	Storm Drain No. 3	0.2	J
SOIL	RSL0.2KO	IND.	19	Semi-Annual	Storm Drain No. 4	0.2	K
SOIL	RSL0.3LO	IND.	20	Semi-Annual	Storm Drain No. 5	0.3	L
SOIL	RSL0.2HO	IND.	21	Semi-Annual	Storm Drain No. 6	0.2	H
SOIL	RSL0.3MO7	IND.	22	Semi-Annual	Storm Drain No. 7	0.3	M
SOIL	RSL0.3MO8	IND.	23	Semi-Annual	Storm Drain No. 8	0.3	M
SOIL	RSL0.3MO9	IND.	24	Semi-Annual	Storm Drain No. 9	0.3	M
SOIL	RSL0.3A0	IND.	26	Semi-Annual	Storm Drain No. 10	0.3	B
SOIL	RSL0.3NO	IND.	27	Semi-Annual	Storm Drain No. 12	0.3	N
SOIL	RSL0.3Q0	IND.	28	Semi-Annual	Storm Drain No. 11	0.3	Q

Table B-1
(Continued)

Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map Location No.	Collection Frequency	Description of Location	Miles	Sector
SOIL	RSL0.6MO	IND.	5	Semi-Annual	Site Boundary	0.6	M
SOIL	RSL0.7NO	IND.	6	Semi-Annual	Water Sump	0.7	N
SOIL	RSL1.5NO	IND.	25	Semi-Annual	Silva Property	1.5	N
SOIL	RSL1.8NO	IND.	9	Semi-Annual	Confluence of Clay and Hadselville Creek	1.8	N
SOIL	RSL0.4MP1	IND.	29	Semi-Annual	Depression Area	0.4	M
SOIL	RSL0.4MP2	IND.	29	Semi-Annual	Depression Area	0.4	M
SOIL	RSL0.4MP3	IND.	29	Semi-Annual	Depression Area	0.4	M
SOIL	RSL0.3NP1	IND.	50	Semi-Annual	ISFSI north drainage	0.3	N
SOIL	RSL0.3NP2	IND.	51	Semi-Annual	ISFSI south drainage	0.3	N
SOIL	RSL0.3NP3	IND.	52	Semi-Annual	ISFSI combined drainage	0.3	N
SOIL	RSL0.5MPAK	IND.	5	Semi-Annual	Site Boundary	0.5	M
SOIL	RSL0.5MPAL	IND.	5	Semi-Annual	Site Boundary	0.5	M
SOIL	RSL0.5MPAM	IND.	5	Semi-Annual	Site Boundary	0.5	M
SOIL	RSL0.5MPAN	IND.	5	Semi-Annual	Site Boundary	0.5	M
GARDEN VEGETABLES	RLV0.6MO	IND.	5	Semi-Annual	Site Boundary Garden irrigated with No-Name Creek water	0.6	M
GARDEN VEGETABLES/ GRAPES	RLVXX.XX	CON	NA	Semi-Annual/ Annual	Truck Garden which provides local produce from the local area	NA	NA
GRAPES	RLVO.7NO	IND	64	Annual	Vineyard west of site	0.7	N

Table B-1
(Continued)
Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map Location No.	Collection Frequency	Description of Location	Miles	Sector
LUXEL	RTL0.3RO	IND.	31	Quarterly	NNW @ Perimeter Fence N/O Spray Ponds; #1	0.3	R
LUXEL	RTL0.3C0	IND.	32	Quarterly	NE Perimeter Fence/ parking lot NE corner; #2	0.3	C
LUXEL	RTL0.3NO	IND.	17	Quarterly	W Perimeter Fence road/ pole/ top of hill; #3	0.3	N
LUXEL	RTL0.3LO	IND.	20	Quarterly	SW Perimeter Fence road near RS lake filters; #4	0.3	L
LUXEL	RTL0.3HO	IND.	33	Quarterly	Perimeter Fence/ S/O of Admin. Bldg.; #5	0.3	H
LUXEL	RTL0.4F0	IND.	34	Quarterly	Photovoltaic Facility/ North Fence (NRC); #6	0.4	F
LUXEL	RTL0.5CO	IND.	35	Quarterly	Rt. 104 entrance to Rancho Seco; #7	0.5	C
LUXEL	RTL0.6KO	IND.	36	Quarterly	Tokay Substation; #11	0.8	K
LUXEL	RTL10.0HP	CON	57	Quarterly	Fish Hatchery at Comanche Lake, #15	10.0	H
LUXEL	RTL2.7MO	IND.	14	Quarterly	In Clay at Tipling's Residence 11633 Clay Station Rd; #16	2.1	M
LUXEL	RTL8.2KO	IND.	37	Quarterly	Elliott Cemetery Near Angelo Dairy; #17	8.2	K
LUXEL	RTL7.8CO	IND.	38	Quarterly	Sam Jaber Residence/ 601 Carbondale Rd/ Ione; #18	7.8	C
LUXEL	RTL0.7GO	IND.	30	Quarterly	Well pump fence @ reservoir; #43	1.7	G
LUXEL	RTL1.5MO	IND.	40	Quarterly	Clay East & Kirkwood (NRC); #20	1.5	M
LUXEL	RTL3.9KO	IND.	41	Quarterly	SSW of Site on Borden Rd; #26	3.9	K
LUXEL	RTL7.4MO	IND.	42	Quarterly	Herald Fire Station #87/ 12746 Ivie Rd; #30	7.4	M

Table B-1
(Continued)
Radiological Environmental Monitoring Sites and Map Locations

Sample Type	ID Code	Class	Map Location No.	Collection Frequency	Description of Location	Miles	Sector
LUXEL	RTL3.7NO	IND.	43	Quarterly	Folsom South Canal near Hobday Rd; #31	3.7	N
LUXEL	RTL3.8MO	IND.	44	Quarterly	BLM entrance to Folsom South Canal Pumping Station; #33	3.8	M
LUXEL	RTL1.9NO	IND.	9	Quarterly	Hadselville Cr. & Clay Cr.; #35	1.9	N
LUXEL	RTL1.8F0	IND.	45	Quarterly	Rancho Seco Lake Maintenance Building, #19	1.8	F
LUXEL	RTL1.4DO	IND.	46	Quarterly	0.9 Miles E/O Site on Twin Cities Road/ Rt. 104; #46	1.4	D
LUXEL	RTL10.0EP	CON	58	Quarterly	Preston School entrance on pole, #51	10.0	E
LUXEL	RTL8.0PO	IND.	47	Quarterly	Dillard School; #55	8.0	P
LUXEL	RTL0.8DO	IND.	12	Quarterly	Marciel Ranch; 14626 Twin Cities Rd; #63	0.8	D
LUXEL	RTL0.6MO	IND.	5	Quarterly	Site Boundary Irrigated Garden; #65	0.6	M
LUXEL	RTL0.4NO	IND.	29	Quarterly	Depression @ Clay Creek; #66	0.4	N
LUXEL	RTL0.4NO1	IND.	29	Quarterly	Soil Pile @ Clay Creek; #67	0.4	N
LUXEL	RTL0.3PO	IND.	48	Quarterly	West Fence; #68	0.3	P
LUXEL	RTL0.3NP	IND.	53	Quarterly	West Garden, #88	0.3	N
LUXEL	RTL0.4NP	IND.	54	Quarterly	Southwest ISFSI, #89	0.4	N
LUXEL	RTL0.5NP	IND.	55	Quarterly	Northwest ISFSI, #90	0.5	P
LUXEL	RTL0.3QP	IND.	56	Quarterly	Northeast ISFSI, #91	0.3	Q
LUXEL	RTL0.7QP	IND.	59	Quarterly	Highway 104 at the rail spur on pole, #92	0.7	Q
LUXEL	RTL0.7JP	IND.	61	Quarterly	Clay East Road on pole south of site boundary, #93	0.7	J
LUXEL	RTL0.4PP	IND.	62	Quarterly	ISFSI ALARA fence north side, #94	0.4	P