
**Hanford Environmental
Monitoring Program
Schedule for Samples,
Analyses, and Measurements
for Calendar Year 1985**

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December 1984

**Prepared for the U.S. Department of Energy
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**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
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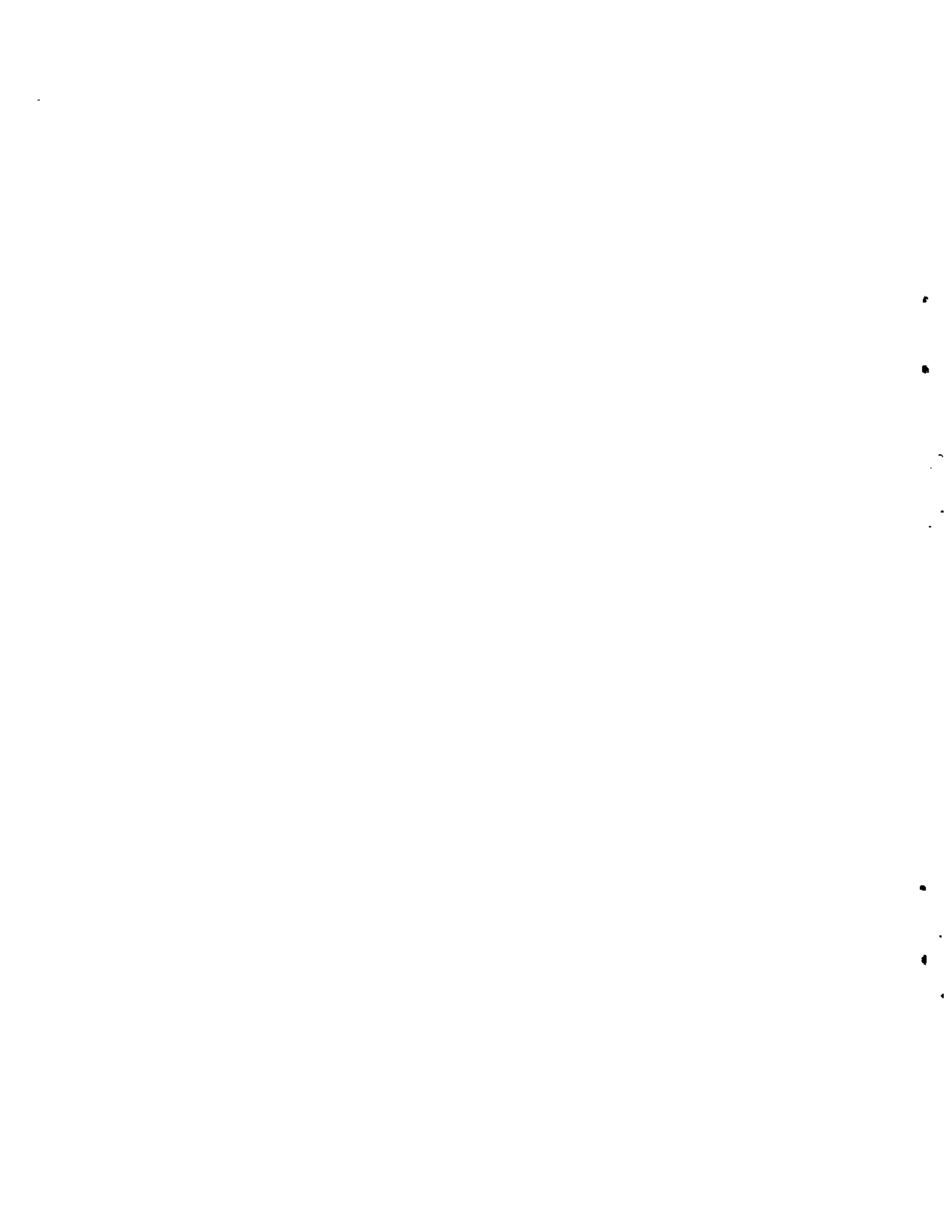
HANFORD ENVIRONMENTAL MONITORING
PROGRAM SCHEDULE FOR SAMPLES, ANALYSES,
AND MEASUREMENTS FOR CALENDAR YEAR 1985

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Richland, Washington 99352



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HANFORD ENVIRONMENTAL MONITORING
PROGRAM SCHEDULE FOR SAMPLES, ANALYSES,
AND MEASUREMENTS FOR CALENDAR YEAR 1985

INTRODUCTION

This report provides the CY 1985 schedule of data collection for the routine Hanford Surface Environmental Monitoring and Ground-Water Monitoring Programs at the Hanford Site. The programs are sponsored by the Department of Energy and are conducted by the Environmental Evaluations Section of Pacific Northwest Laboratory.^(a)

The purpose of the programs is to evaluate and report the levels of radioactive and non-radioactive pollutants in the Hanford environs, as required in DOE Order 5484.1. The data are available in general reports issued by the Environmental Evaluations staff. Ground-water data and evaluations are reported in the series, "Radiological Status of the Ground Water Beneath the Hanford Project." The latest issue is PNL-5D41 (Prater, et al. 1984) for CY 1983. Data from locations within the plant boundaries are presented in the annual report series, "Environmental Status of the Hanford Site." The most recent report in this series is PNL-5039 (Price, et al. 1984) for CY 1983. Data from offsite locations are presented annually in the "Environmental Surveillance at Hanford" series. The latest report in this series is PNL-5038 (Price, et al. 1984) for CY 1983.

The routine sampling schedule provided herein does not include samples scheduled to be collected during FY 1985 in support of special studies, special contractor support programs, or for quality control purposes. In addition, the routine program outlined in this schedule is subject to modification during the year in response to changes in site operations, program requirements, or unusual sample results.

It is intended that all samples be collected as scheduled. However, several factors including bad weather, mechanical breakdowns, unavailability of sample media (particularly wildlife samples) and vandalism may require minor deviations from this schedule.

All analyses for samples listed in Part I are performed by the U. S. Testing Co., Inc., except as noted otherwise. Samples listed in Part II are analyzed by the Radiological Sciences Department, Pacific Northwest Laboratory, except those sampled by RHO which are analyzed by the U. S. Testing Co., Inc.

(a) Pacific Northwest Laboratory is operated by Battelle Memorial Institute for the U.S. Department of Energy.

Frequency Symbols Used

D - Daily	BM - Bimonthly (every 2 mo)
W - Weekly	Q - Quarterly
BW - Biweekly (every 2 wk)	SA - Semiannually
M - Monthly	A - Annually
M Comp. - Monthly Composite	NRA - Not Routinely Analyzed

Analysis Symbols Used

Generally, standard elemental, chemical, and isotope designations are used to indicate the analyses performed. Other analyses designations used are:

Alpha	- gross alpha activity of sample
Beta	- gross beta activity of sample
Gamma Scan	- analysis of photon energy spectrum for individual photon-emitting radionuclides including: ^{22}Na , ^{60}Co , ^{65}Zn , ^{106}Ru , ^{131}I , and ^{137}Cs
DO	- dissolved oxygen
BOD	- biological oxygen demand
WQ	- water quality analyses including: pH, conductance, Ca, Mg, Na, CO_2 , HCO_3 , K, B, $\text{NO}_3\text{-N}$, Cl, $\text{SO}_4\text{-S}$, and dissolved solids.
Cr	- Cr^{+6}
U	- natural uranium

Portable Instrument Symbols Used

LLM	- Ludlum micro R meter
GM	- Geiger-Muller counter

PART I. HANFORD SURFACE ENVIRONMENTAL MONITORING PROGRAM

1.0 SAMPLES FOR RADIDLOGICAL ANALYSES

1.1 AIR - PARTICULATE FILTER

Location	Individual Samples			Composited Samples			
	Sample Number	Frequency	Analyses	Composite Group	Composite Sample No.	Frequency	Analyses
<u>Onsite</u>							
100 K	0058	BW	Beta	100 Areas	1753	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
100 N (WPPSS)	1529	BW	Beta		0083	Q	
100 D	1074	BW	Beta, Alpha				
100 Area Fire Station	6154	BW	Beta				
Rt 11A-Mile 9	0249	BW	Beta, Alpha	200 North	0613	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
N of 200 E	0051	BW	Beta, Alpha		0087	Q	
E of 200 E	0030	BW	Beta, Alpha	200 East	1749	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
200 ESE	0043	BW	Beta, Alpha				
S of 200 E	0031	BW	Beta, Alpha				
SW of BC Cribs	0250	BW	Beta, Alpha	200 W South & East	0614	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
Army Loop Camp	0248	BW	Beta, Alpha				
200 Tel. Exchange	0052	BW	Beta, Alpha				
3705 Building	1531	BW	Beta	300 Area	1752	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
ACRMS	1793	BW	Beta				
300 SW Gate	6148	BW	Beta				
300 South Gate	6150	BW	Beta, Alpha				
300 Pond	1543	BW	Beta, Alpha	400 Area	6465	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
400 E	6308	BW	Beta, Alpha				
400 W	6455	BW	Beta, Alpha				
400 S	6456	BW	Beta, Alpha				
400 N	6457	BW	Beta, Alpha				
Hanford	0057	BW	Beta, Alpha	Hanford	0600	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
					0069	Q	
Wye Barricade	0924	BW	Beta, Alpha	Wye Barricade	0601	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
					0070	Q	
<u>Perimeter</u>							
Berg Ranch	1405	BW	Beta, Alpha	Northeast Perimeter	0602	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
Sagehill Met. Tower	0047	BW	Beta		0059	Q	
Ringold Met. Tower	0048	BW	Beta				
Fir Road	6391	BW	Beta	East Perimeter	0603	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
Pettett	6351	BW	Beta, Alpha		0060	Q	
Byers Landing	0247	BW	Beta, Alpha	Southeast Perimeter	0604	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
RRC #64	6182	BW	Beta, Alpha		0061	Q	
Horn Rapids Rd - Mile 12	0049	BW	Beta, Alpha	Horn Rapids Road	0605	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
Horn Rapids Rd - Substation	0050	BW	Beta		0062	Q	
Prosser Barricade	0055	BW	Beta, Alpha	Prosser Barricade	0606	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
					0063	Q	

1.1 AIR - PARTICULATE FILTER (cont'd.)

Location	Individual Samples			Composite Group	Composited Samples		
	Sample Number	Frequency	Analyses		Composite Sample No.	Frequency	Analyses
<u>Perimeter (cont'd.)</u>							
ERC	0929	BW	Beta	ERC	0612	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
					0071	Q	
Rattlesnake Springs	0972	BW	Beta	West Perimeter	0607	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
Yakima Barricade	1650	BW	Beta, Alpha		0064	Q	
Vernita Bridge	1651	BW	Beta	Northwest Perimeter	0608	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
Wahluke Slope #2	1551	BW	Beta, Alpha		0065	Q	
<u>Community</u>							
Othello	1652	BW	Beta	Northeast Communities	0609	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
Cannell	1653	BW	Beta, Alpha		0066	Q	
Pasco	1654	BW	Beta	Tri-City	0610	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
Richland	0054	BW	Beta, Alpha		0067	Q	
Benton City	0029	BW	Beta, Alpha	Benton City	0611	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
					0068	Q	
<u>Distant</u>							
Moses Lake	0960	BW	Beta, Alpha	Outer Northeast	1742	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
Washtucna	0959	BW	Beta		0073	Q	
Walla Walla	0262	BW	Beta, Alpha	Outer Southeast	1744	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu
McNary Dam	0958	BW	Beta		0075	Q	
Sunnyside	0964	BW	Beta, Alpha	Outer Western	1748	M	Gamma Scan 89Sr, 90Sr, 238Pu, 239-240Pu, U
Sunnyside #2	0032	BW	NRA		0079	Q	

1.2 AIR - GASES AND VAPOR

Location	Iodine-131		Iodine-129		Tritium		Carbon-14		Krypton-85	
	Sample Number	Frequency	Sample Number	Frequency	HTO Sample Number	Frequency	CO ₂ Sample Number	Frequency	Sample Number	Frequency
<u>Onsite</u>										
100 K	1581	M (NRA)			0264	M				
100 N (WPPSS)	1661	BW			0263	M				
100 D	1582	BW			6335	M				
100 Area Fire Station	6155	M (NRA)	0007	Q	0901	M	0912	BM		
Rt. 11A-Mile 9	0254	M (NRA)			0277	M				
N of 200 E	0251	M (NRA)			0276	M				
E of 200 E	0269	BW			0271	M			1533	M
200 ESE	1664	BW	0008	Q	6201	M	0913	BM	1534	M
S of 200 E	0270	BW			0272	M			1535	M
SW of BC Cribs	0056	M (NRA)			0274	M				
Army Loop Camp	0253	M (NRA)								
200 Tel. Exchange	0252	M (NRA)			0275	M				
3705 Building	1669	M (NRA)								
ACRMS	1795	M (NRA)								
300 SW Gate	6149	BW								
300 South Gate	6151	M (NRA)								
300 Pond	6239	M (NRA)							1501	M
400 E	6309	BW			6428	M				
400 W	6458	BW								
400 S	6459	BW								
400 N	6460	BW								
Hanford	1666	M (NRA)			0903	M				
Wye Barricade	1584	M (NRA)			0904	M	0915	BM		
<u>Perimeter</u>										
Berg Ranch	1672	M (NRA)			0267	M				
Sagehill Met. Tower	0257	BW			0905	M				
Ringold Met. Tower	0258	M (NRA)			0906	M	0916	BM	1504	M
Fir Road	6392	BW			6393	M	0917	BM	1503	M
Pettett	6352	BW								
Byers Landing	0246	BW	0005	Q	0273	M	0918	BM		
RRC #64	6183	M (NRA)								
Horn Rapids Rd - Mile 12	0259	M (NRA)			0256	M	0919	BM		
Horn Rapids Rd - Substation	0260	M (NRA)			0268	M				
Prosser Barricade	6248	M (NRA)			0908	M	0920	BM	1502	M
ERC	1585	M (NRA)								
Rattlesnake Springs	1586	M (NRA)								
Yakima Barricade	1667	M (NRA)			0902	M				
Vernita Bridge	1668	M (NRA)			0265	M				
Wahluke Slope #2	1671	M (NRA)			0266	M				
<u>Community</u>										
Othello	1673	M (NRA)								
Connell	1674	M (NRA)								

1.2 AIR - GASES AND VAPOR (cont'd.)

Location	Iodine-131		Iodine-129		Tritium		Carbon-14		Krypton-85	
	Sample Number	Frequency	Sample Number	Frequency	H ₂ O Sample Number	Frequency	CO ₂ Sample Number	Frequency	Sample Number	Frequency
<u>Community (cont'd.)</u>										
Pasco	1678	M (NRA)								
Richland	0231	M (NRA)			6207	M				
Benton City	1670	BW			6411	M	0921	BM		
<u>Distant</u>										
Moses Lake	1682	M (NRA)			0909	M				
Washucna	1683	M (NRA)								
Walla Walla	0261	M (NRA)								
McNary Dam	1684	M (NRA)								
Sunnyside	1680	BW			0910	M	0922	BM	1505	M
Sunnyside #2			0006	Q						

1.3 COLUMBIA RIVER WATER

Location	Sample Type	Sample Number	Frequency	Analyses
Priest Rapids Dam	Cumulative (Collected Weekly)	1265	M Comp	Alpha, Beta, ^3H , Gamma Scan, ^{89}Sr , ^{90}Sr , U
	Particulate (filter)	6395	BW Q Comp	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$, ^{90}Sr
	Soluble (resin)	6394	BW Q Comp	Gamma Scan ^{129}I , ^{238}Pu , $^{239-240}\text{Pu}$, ^{90}Sr
Richland	Cumulative (Collected Weekly)	1000	M Comp	Alpha, Beta, ^3H , Gamma Scan, ^{89}Sr , ^{90}Sr , U
300 Area Forebay	Particulate (filter)	6385	BW Q Comp	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$, ^{90}Sr
	Soluble (resin)	6384	BW Q Comp	Gamma Scan ^{129}I , ^{238}Pu , $^{239-240}\text{Pu}$, ^{90}Sr

1.4 DRINKING WATER

Location	Sample Type	Sample Number	Frequency	Analyses
100 B	Cumulative	6156	Q Comp ^(a)	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
100 D	Grab	1219	Q ^(b)	Alpha, Beta, ^3H , ^{90}Sr , ^{131}I , Gamma Scan
Yakima Barricade	Grab	6543	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
Observatory	Grab	6381	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
FFTF	Grab	1220	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
300 Area	Cumulative	6243	Q Comp ^(a)	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
Firing Range	Grab	0099	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
Ale Hdqrs	Grab	6299	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan

(a) Composite of monthly cumulative samples.

(b) Composite of five consecutive daily grab samples.

1.5 ONSITE POND WATER

<u>Location</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Gable Mountain Pond	Grab	1054	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
West Lake	Grab	6133	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
B Pond	Grab	0015	Q	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
FFTF Percolation Pond	Grab	6467	Q	Alpha, Beta, ^3H , Gamma Scan

1.6 FOODSTUFFS AND FARM PRODUCE

1.6.1 Whole Milk

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Wahluke East Area Comp ^(a)	0305	M Q SA	^{131}I , Gamma Scan, ^3H ^{89}Sr , ^{90}Sr ^{129}I
Sagemoor Area Comp ^(a)	0306	BW M Q SA	^{131}I , Gamma Scan ^3H ^{90}Sr ^{129}I
Riverview Area	0975	M Q SA	^{131}I , Gamma Scan, ^3H ^{89}Sr , ^{90}Sr ^{129}I
Benton City Area	6519	M Q SA	^{131}I , Gamma Scan, ^3H ^{90}Sr ^{129}I
Sunnyside Area	6355	BW M Q SA	^{131}I , Gamma Scan ^3H ^{89}Sr , ^{90}Sr ^{129}I
Moses Lake Area	0307	M Q SA	^{131}I , Gamma Scan, ^3H ^{90}Sr ^{129}I

(a) Sample composited from three sources in each area.

1.6.2 Produce (Leafy Vegetables)

<u>Location</u>	<u>Sample Number</u>	<u>Frequency^(a)</u>	<u>Analyses</u>
Wahluke East Area	0308	A	⁹⁰ Sr, Gamma Scan
Sagemoor Area	6419	A	⁹⁰ Sr, Gamma Scan
Riverview Area	1609	A	⁹⁰ Sr, Gamma Scan
Benton City Area	1612	A	⁹⁰ Sr, Gamma Scan
Sunnyside Area	6372	A	⁹⁰ Sr, Gamma Scan
Moses Lake Area	6407	A	⁹⁰ Sr, Gamma Scan

(a) Three samples collected within each area.

1.6.3 Fruit

<u>Location</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency^(a)</u>	<u>Analyses</u>
Sagemoor Area	Apples	0565	A	³ H, ⁹⁰ Sr, Gamma Scan
	Cherries	0543	A	³ H, ⁹⁰ Sr, Gamma Scan
	Grapes	6417	A	³ H, ⁹⁰ Sr, Gamma Scan
Cold Creek Area	Apples	0304	A	³ H, ⁹⁰ Sr, Gamma Scan
	Grapes	0303	A	³ H, ⁹⁰ Sr, Gamma Scan
Sunnyside Area	Apples	6440	A	³ H, ⁹⁰ Sr, Gamma Scan
	Cherries	6453	A	³ H, ⁹⁰ Sr, Gamma Scan
	Grapes	6454	A	³ H, ⁹⁰ Sr, Gamma Scan

(a) Three samples collected within each area.

1.6.4 Wheat and Alfalfa

<u>Location</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u> ^(a)	<u>Analyses</u>
Wahluka East Area	Wheat	0320	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0311	A	⁹⁰ Sr, Gamma Scan
Sagemoor Area	Wheat	0319	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0312	A	⁹⁰ Sr, Gamma Scan
Riverview Area	Wheat	0318	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0313	A	⁹⁰ Sr, Gamma Scan
Benton City Area	Wheat	0317	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0314	A	⁹⁰ Sr, Gamma Scan
Sunnyside Area	Wheat	0316	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0315	A	⁹⁰ Sr, Gamma Scan
Moses Lake Area	Wheat	0321	A	⁹⁰ Sr, Gamma Scan
	Alfalfa	0310	A	⁹⁰ Sr, Gamma Scan

(a) Three samples each of wheat and alfalfa collected within each area.

1.6.5 Beef

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Sagemoor Area	6418	A	⁹⁰ Sr, Gamma Scan
Riverview Area	1292	A	⁹⁰ Sr, Gamma Scan
Horn Rapids Area	6516	A	⁹⁰ Sr, Gamma Scan
Sunnyside Area	0322	A	⁹⁰ Sr, Gamma Scan

1.6.6 Poultry and Eggs

<u>Location</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Sagemoor Area	Chicken	6386	SA	⁹⁰ Sr, Gamma Scan
	Eggs	6387	SA	⁹⁰ Sr, Gamma Scan
Sunnyside Area	Chicken	6371	SA	⁹⁰ Sr, Gamma Scan
	Eggs	6370	SA	⁹⁰ Sr, Gamma Scan

1.7 WILDLIFE

1.7.1 Fish

<u>Location</u>	<u>Species/ Sample</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
Priest Rapids Dam to Vernita Bridge	Whitefish				
	Fillet	0329	5	Oct-Dec	⁹⁰ Sr, Gamma Scan
	Carcass	6493	5	Oct-Dec	⁹⁰ Sr
100 D	Whitefish				
	Fillet	6431	10	Oct-Dec	⁹⁰ Sr, Gamma Scan
	Carcass	6490	10	Oct-Dec	⁹⁰ Sr
100-F Slough	Bass				
	Fillet	6369	5	May-June	⁹⁰ Sr, Gamma Scan
	Carcass	0338	5	May-June	⁹⁰ Sr
<u>Offsite</u>					
Wanapum Dam	Whitefish				
	Fillet	0362	10	November	⁹⁰ Sr, Gamma Scan
	Carcass	0363	10	November	⁹⁰ Sr

1.7.2 Ducks

<u>Location</u>	<u>Species^(a)/ Sample^(b)</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
100-N Area	Mallard				
	Muscle	0456	4	September	⁹⁰ Sr, Gamma Scan
	Liver	0457	4	September	NRA
	Bone	0458	4	September	NRA
B Pond	Mallard				
	Muscle	0444	20	September	Gamma Scan
	Liver	0445	20	September	NRA
	Bone	0446	20	September	NRA
Gable Mt. Pond	Mallard				
	Muscle	0447	4	September	Gamma Scan
	Liver	0448	4	September	NRA
	Bone	0449	4	September	NRA
U Pond	Mallard				
	Muscle	0450	4	September	Gamma Scan
	Liver	0451	4	September	NRA
	Bone	0452	4	September	NRA
300 Area Trenches	Mallard				
	Muscle	0453	4	September	Gamma Scan
	Liver	0454	4	September	NRA
	Bone	0455	4	September	NRA

(a) Mallard preferred; other puddle ducks acceptable if Mallard is unavailable.

(b) Retain liver and bone to be analyzed for plutonium and ⁹⁹Sr if ¹³⁷Cs exceeds 100 pCi/g (wet weight) in the muscle.

1.7.3 Game Birds

<u>Location</u>	<u>Species^(a)/ Sample^(b)</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
100-N Trench	Pheasant				
	Muscle	0479	3	October	Gamma Scan
	Liver	0480	3	October	NRA
	Bone	0481	3	October	NRA
100 D to 100 F	Pheasant				
	Muscle	0473	10	October	Gamma Scan
	Liver	0474	10	October	NRA
	Bone	0475	10	October	NRA
200 East	Pheasant				
	Muscle	0467	3	October	Gamma Scan
	Liver	0468	3	October	NRA
	Bone	0469	3	October	NRA
200 West	Pheasant				
	Muscle	0470	3	October	Gamma Scan
	Liver	0471	3	October	NRA
	Bone	0472	3	October	NRA
300 Area	Pheasant				
	Muscle	0464	3	October	Gamma Scan
	Liver	0465	3	October	NRA
	Bone	0466	3	October	NRA
<u>Offsite</u>					
Sagemoor Area	Pheasant				
	Muscle	0459	3	October	Gamma Scan
Sunnyside	Pheasant				
	Muscle	0460	3	October	Gamma Scan

- (a) Pheasant preferred; chukar or quail acceptable if pheasant is unavailable.
 (b) Retain liver and bone to be analyzed for plutonium and ⁹⁰Sr if ¹³⁷Cs exceeds 100 pCi/g (wet weight) in muscle.

1.7.4 Deer

<u>Location</u>	<u>Species/ Sample</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
200 Ponds	Mule				
	Muscle	0369	2	October	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$ ^{90}Sr
	Liver	0370	2	October	
Bone	0371	2	October		
Road kill at Onsite Locations ^(a)	Mule				
	Muscle	ATL ^(b)	6	Annual	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$
	Liver	ATL	6	Annual	

(a) As available

(b) ATL - according to location

1.7.5 Rabbits

<u>Location</u>	<u>Type/ Sample</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
100-N River Bank	Cottontail				
	Muscle	6145	4	April	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$ ^{90}Sr
	Liver	6146	4	April	
Bone	6452	4	April		
100-N Trench	Cottontail				
	Muscle	6523	4	April	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$ ^{90}Sr
	Liver	6525	4	April	
Bone	6524	4	April		
200 East	Jack Rabbit				
	Muscle	1769	4	April	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$ ^{90}Sr
	Liver	1770	4	April	
Bone	6432	4	April		
200 West	Jack Rabbit				
	Muscle	1789	4	April	Gamma Scan ^{238}Pu , $^{239-240}\text{Pu}$ ^{90}Sr
	Liver	1790	4	April	
Bone	6413	4	April		

1.8 SOIL AND VEGETATION

Location	Soil Sample Number	Vegetation Sample No.	Frequency	Analyses
1 Mile NE of N Area	0590	0591	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
1 Mile E of N Area	0578	0579	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
100 Area Fire Station	0580	0585	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
200 ENC	6362	6368	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
1.25 Miles E of Purex	0581	0586	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
200 ESE Air Sampling Station	6022	6068	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
2 Miles S of Purex	0582	0587	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
SW of BC Cribs	0583	0588	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
E of 200-W Gate	6276	6283	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
2 Miles S of 200 W	0584	0589	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
Rattlesnake Springs	6003	6049	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
Yakima Barricade	6004	6050	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
1/2 Mile NE of FFTF Site	6282	6285	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
SE Side of FFTF Site	6277	6286	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
N of 300 Area	6322	6328	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
S of 300 Area	6323	6329	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Hanford Townsite (CP#57)	6017	6063	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
Wye Barricade	6016	6062	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)
Prosser Barricade	6225	6227	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
East of ALE Field Lab	6278	6287	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Vernita Bridge N End	6005	6051	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Wahluke #2 Air Sampling Station	6007	6053	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Berg Ranch Air Sampling Station	6008	6054	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Ringold	6009	6055	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
W End Fir Road	6360	6366	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Taylor Flats #2	6421	6423	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a)
Sagemoor Farms	6358	6364	A	Gamma Scan, ⁹⁰ Sr, U, Pu ^(a) , ²⁴¹ Am ^(b)

(a) ²³⁸Pu, ²³⁹⁻²⁴⁰Pu.

(b) Analyses performed on soil sample only.

I.8 SOIL AND VEGETATION (cont'd.)

<u>Location</u>	<u>Soil Sample Number</u>	<u>Vegetation Sample No.</u>	<u>Frequency</u>	<u>Analyses</u>
Byers Landing Air Sampling Station	6011	6057	A	Gamma Scan, ^{90}Sr , U, Pu (a)
Harris Farm	6361	6367	A	Gamma Scan, ^{90}Sr , U, Pu (a)
Benton City	6000	6046	A	Gamma Scan, ^{90}Sr , U, Pu (a)
Sunnyside	6357	6363	A	Gamma Scan, ^{90}Sr , U, Pu (a), ^{241}Am (b)

(a) ^{238}Pu , $^{239-240}\text{Pu}$.

(b) Analysis performed on soil sample only.

2.0 SAMPLES FOR NONRADIOLOGICAL ANALYSES

2.1 COLUMBIA RIVER WATER

<u>Location</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Vernita	Grab	1373	M ^(a)	NO ₃ , BOD, Coliforms, Fecal Coliforms, pH
	Thermograph		Q Cont. (c)	WQ-NASQAN ^(b) Temperature
Richland	Grab	1365	M ^(a)	NO ₃ , BOD, Coliforms, Fecal Coliforms, pH
	Thermograph		Q Cont. (c)	WQ-NASQAN ^(b) Temperature

(a) Analysis performed by the Hanford Environmental Health Foundation (HEHF).

(b) Numerous water quality (WQ) analyses performed by the United States Geological Survey (USGS) in conjunction with the National Stream Quality Accounting Network (NASQAN) Program.

(c) Thermograph stations operated and maintained by the USGS.

3.0 DIRECT RADIATION MEASUREMENTS

3.1 THERMOLUMINESCENT DOSIMETERS (TLDS)

3.1.1 Terrestrial Locations

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>
100 K ^(a)	1475	M	Ambient Dose
100 N (WPPSS) ^(a)	1476	M	Ambient Dose
100 D ^(a)	1477	M	Ambient Dose
100 Area Fire Station ^(a)	6164	M	Ambient Dose
Rt. 11A-Mile 9 ^(a)	0327	M	Ambient Dose
N of 200 E ^(a)	0324	M	Ambient Dose
200 Tel. Exchange ^(a)	0325	M	Ambient Dose
SW of BC Cribs ^(a)	0328	M	Ambient Dose
S of 200 E ^(a)	1619	M	Ambient Dose
Army Loop Camp ^(a)	0326	M	Ambient Dose
E of 200 E ^(a)	1618	M	Ambient Dose
200 ESE ^(a)	1468	M	Ambient Dose
3705 Building ^(a)	1486	M	Ambient Dose
ACRMS ^(a)	1698	M	Ambient Dose
300 Southwest Gate ^(a)	6163	M	Ambient Dose
300 South Gate ^(a)	6162	M	Ambient Dose
300 Pond ^(a)	1699	M	Ambient Dose
377 Bldg. South Fence	1465	M	Ambient Dose
400 E ^(a)	1729	M	Ambient Dose
400 W ^(a)	6468	M	Ambient Dose
400 S ^(a)	6469	M	Ambient Dose
400 N ^(a)	6470	M	Ambient Dose
FFTF North	6177	M	Ambient Dose
FFTF Southeast	6178	M	Ambient Dose
Hanford ^(a)	1480	M	Ambient Dose
Wye Barricade ^(a)	1483	M	Ambient Dose
Berg Ranch ^(a)	1491	M	Ambient Dose
Sagehill Met. Tower ^(a)	0927	M	Ambient Dose
Ringold Met. Tower ^(a)	0928	M	Ambient Dose
Fir Road ^(a)	6356	M	Ambient Dose
Pettett ^(a)	6353	M	Ambient Dose
Sagemoor Farms	6354	M	Ambient Dose
Byers Landing ^(a)	1498	M	Ambient Dose
RRC #64 ^(a)	6171	M	Ambient Dose
Horn Rapids Rd - Mile 12 ^(a)	0925	M	Ambient Dose
Horn Rapids Rd - Substation ^(a)	0926	M	Ambient Dose

(a) Located at Air Sampling Station.

3.1.1 Terrestrial Locations (cont'd.)

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>
Prosser Barricade ^(a)	6176	M	Ambient Dose
ERC ^(a)	1484	M	Ambient Dose
Rattlesnake Springs ^(a)	1485	M	Ambient Dose
Yakima Barricade ^(a)	1482	M	Ambient Dose
Vernita Bridge ^(a)	1481	M	Ambient Dose
Wahluke Slope #2 ^(a)	1490	M	Ambient Dose
Othello ^(a)	1493	M	Ambient Dose
Connelly ^(a)	1494	M	Ambient Dose
Pasco ^(a)	1488	M	Ambient Dose
Richland ^(a)	1487	M	Ambient Dose
Benton City ^(a)	1499	M	Ambient Dose
Moses Lake ^(a)	1693	M	Ambient Dose
Washtucna ^(a)	1694	M	Ambient Dose
Walla Walla ^(a)	1695	M	Ambient Dose
McNary Dam ^(a)	1696	M	Ambient Dose
Sunnyside ^(a)	1500	M	Ambient Dose

(a) Located at Air Sampling Station

3.1.2 Columbia River Shoreline Locations

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>
Coyote Rapids	6135	Q	Immersion Dose
Richland Pumphouse	1715	Q	Immersion Dose
Up River 100-B Area	6471	Q	Ambient Dose
Below 100-B Retention Basin	6472	Q	Ambient Dose
Above 100-K Boat Ramp	6260	Q	Ambient Dose
Downstream 100-N Outfall	6536	M	Ambient Dose
Below 100-N Stack	6537	M	Ambient Dose
Upstream 100-N Berm	6538	M	Ambient Dose
100-N Trench Spring	6390	M	Ambient Dose
Down River 100 D	6475	Q	Ambient Dose
Down River Opposite 100 D	6261	Q	Ambient Dose
Lower End Locke Island	6262	Q	Ambient Dose
White Bluffs Ferry Landing	6263	Q	Ambient Dose
White Bluffs Slough	6476	Q	Ambient Dose
100-F Area Floodplain	6477	Q	Ambient Dose
Below 100 F	6264	Q	Ambient Dose
Hanford Peninsula	6478	Q	Ambient Dose
Hanford Power-Line Crossing	6389	Q	Ambient Dose
Hanford Ferry Landing	6265	Q	Ambient Dose
Hanford RR Track	6266	Q	Ambient Dose
Savage Island Slough	6479	Q	Ambient Dose
Ringold Island	6267	Q	Ambient Dose
Power-Line Crossing	6268	Q	Ambient Dose
North End Wooded Island	6480	Q	Ambient Dose
South End Wooded Island	6269	Q	Ambient Dose
Island River Mile 344	6481	Q	Ambient Dose
Island River Mile 333	6482	Q	Ambient Dose

3.2 COLUMBIA RIVER SHORELINE RADIATION SURVEYS

<u>Location</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Instrument</u>
Above 100-K Boat Ramp	6132	Q	LLM, GM
100-N Trench Springs	6129	M	LLM, GM
Down River Opposite 100 D	6241	Q	LLM, GM
Lower End Locke Island	6123	Q	LLM, GM
White Bluffs Ferry Landing	6121	Q	LLM, GM
Below 100 F	6120	Q	LLM, GM
Hanford Power-Line Crossing	6118	Q	LLM, GM
Hanford Ferry Landing	6117	Q	LLM, GM
Hanford RR Track	6242	Q	LLM, GM
Ringold Island	6114	Q	LLM, GM
Power-Line Crossing	6113	Q	LLM, GM

3.3 ONSITE ROADWAY RADIATION SURVEYS

<u>Description</u>	<u>Identification Number</u>	<u>Frequency</u>	<u>Instrument</u>
1100 Area to FFTF Rt. 4-S and return to 300 Area Barricade.	1	W	Road Monitor
FFTF to U.S. Ecology Rt. 4-S.	2	W	Road Monitor
200 W to 100 K and 100 N NW Gate of 200 W to 11A, to Rt. 4-N to Rt. 1 to 100 K, back to Rt. 4-N to 100 N and back to Rt. 1.	3	M	Road Monitor
Yakima Barricade to U.S. Ecology Yakima Barricade to Rt. 4-S, to U.S. Ecology. Return to Rt. 4-S and Rt. 3, do both sides Rt. 3 from Rt. 4-S to 11A.	4	Q	Road Monitor
Army Loop Road From Rt. 4-S to Rt. 11A.	5	A	Road Monitor
U.S. Ecology to FFTF via Horn Rapids U.S. Ecology (Rt. 4-S) to Rt. 10 to FMEF cutoff to FFTF, back to Rt. 10 to Rt. 4-S to East gate FFTF.	6	A	Road Monitor
300 Area through 1100 Area 300 Area Barricade to Rt. 4-S to garage, stores, gas station, parking lot to Rt. 4-S to first street, to JA Jones shop area to first street, to G.W. Way to Rt. 4-S back to G.W. Way to U.S. Testing.	7	A	Road Monitor
Yakima Barricade to 100 B-C and 200 N Yakima Barricade to 11A to Rt. 6 to 100 B-C to 100-K turnoff back to 100 B-C to cutoff Rt. 4-N, back on cutoff to B-C to Rt. 6 to Rt. 11A to 200 N to Rt. 4-N and back through 200 N to Rt. 11A.	8	A	Road Monitor
Wye Barricade to 100 N Wye Barricade to Rt. 2-S to Rt. 2-N to 100-N turnoff on Rt. 4-N and return same route.	9	A	Road Monitor
Rt. 2-S and Rt. 11A to White Bluffs Rt. 2-S and Rt. 11A, go west on Rt. 11A to Rt. 4-N to Rt. 1 to Rt. 2-N. Return to White Bluffs turnoff to river, go back to Rt. 1 to Rt. 4-N to Rt. 11A to Rt. 2-S.	10	A	Road Monitor

3.3 ONSITE ROADWAY RADIATION SURVEYS (cont'd.)

<u>Description</u>	<u>Identification Number</u>	<u>Frequency</u>	<u>Instrument</u>
300 Area 300 Area Barricade to 3701 badgehouse back on Cypress to 331 perimeter road to 3765 Building to 300 east perimeter fence to north perimeter fence. From north perimeter fence (River Road) to north process pond to Rt. 2-S through north parking lot back to 2-S and 300 Area Barricade.	11	Q	Road Monitor
400 Area From access road through east parking lot around north perimeter, west and south to access road.	12	Q	Road Monitor

3.4 ONSITE RAILWAY RADIATION SURVEYS

<u>Description</u>	<u>Identification Number</u>	<u>Frequency</u>	<u>Instrument</u>
300 Area to FFTF fence.	1	M	Railway Monitor
200 East to Ethel, Ethel to 200 West, 200 West to Ethel, Ethel to 100 K, 100 K to 100 N.	2	M	Railway Monitor
Geneva junction to Pearl junction via May junction.	3	Q	Railway Monitor
May junction via Low-Line to 100 N.	4	A	Railway Monitor

3.5 ONSITE AERIAL RADIATION SURVEYS

<u>Description</u>	<u>Identification Number</u>	<u>Frequency</u>	<u>Instrument</u>
Project Perimeter	3	A	Aerial Monitor

3.6 BURIAL GROUND AND WASTE DISPOSAL SITE RADIATION SURVEYS

<u>Location</u>	<u>Frequency</u>
100-K Trench	A
100-BC SE B. G. (105-C Solid Waste)	SA
100-BC SW B. G. (105-B Solid Waste, N. Solid Waste)	SA
100-BC Construction B. G.	SA
100-BC B. G. East of 108-B	SA
100-BC Irradiated Metal Storage Basin Waste	SA
109-B Ball 3x Burial Ground	SA
108-B Crib	SA
105-C Trench	SA
105-B Trench	SA
107 Basin Sludge Burial	SA
105-C Metal Examination Waste Tank	SA
100-BC Overflow Pluto Crib	SA
107-C Retention Basin	SA
107-B Retention Basin	SA
100-BC Effluent Diversion Box	SA
100-BC Minor B. G.'s East of 105-B	SA
100-BC Outfall Structures	SA
100-DR Outfall Structures	SA
100-DDR Trench	SA
107-D Retention Basin	SA
107-DR Retention Basin	SA
100-DDR Effluent Lines	SA
100-D Dummy Decontamination Waste	SA
100-ODR Solid Waste B. G. (VSR Thimbles)	SA
100-ODR Construction B. G.	SA
100-ODR #3 B. G. NE of DR	SA
100-ODR Pluto Crib	SA
100-ODR 105 Basin Sludge B. G.	SA
100-ODR #1 B. G.	SA
100-ODR #2 B. G.	SA
100-H Trench	SA
107-H Basin	SA
100-H Effluent Lines (Junction Boxes)	SA
100-H Liquid Waste Burial	SA
100-H #1 B. G.	SA
100-H #2 B. G.	SA
P-11 Area	A

3.6 BURIAL GROUND AND WASTE DISPOSAL SITE RADIATION SURVEYS (cont'd.)

Location	Frequency
100-F Lewis Canal	SA
100-F Swampy Area	SA
100-F Trench	SA
100-F Retention Basin	SA
100-F Trench Drain and Adjacent Wood Covered Pit	SA
100-F Ball Washer Crib	SA
100-F #3 B. G.	SA
100-F #2 B. G.	SA
100-F #1 B. G.	SA
100-F Sawdust Burial	SA
100-F Leaching Trench	SA
100-F 60" Overground Pipe	SA
100-F Happy Valley Farm Plots	SA
200-W New Redox Pond (216-S-16)	SA
200-W Old Redox Pond (216-S-17)	A
200-W U Pond Overflow (216-U-11)	SA
200-E B Pond (216-B-3)	Q
200-E B Pond Ditch #3	SA
200-E Purex Crib #1 (216-A-6)	SA
200-E Purex Crib #2 (216-A-30-1)	SA
200-E North of Purex Crib #3 (216-A-37-1)	SA
200-E NE Perimeter Fence	SA
200-E 216-BC Crib Area	SA
200-E U.S. Ecology B. G. Perimeter	Q
300 Area 300 N B. G.	SA
300 Area 300 Wye B. G.	SA
300 Area #2 B. G.	SA
300 Area #3 B. G.	SA
300 Area #4 B. G.	SA
300 Area #5 B. G.	SA
300 Area #7 B. G.	SA
300 West B. G.	SA
300 Area N. Process Trench at Perimeter Fence	Q
200-N, P, and R Areas	SA

PART II. HANFORD GROUND-WATER MONITORING PROGRAM

1.0 100 AREA WELLS

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(199) B3-1	1851	SA	³ H
B3-2 P	1856	SA	³ H, NO ₃
B3-2 Q	1857	SA	³ H, NO ₃
B4-1	1853	Q	³ H, NO ₃
B4-2	1854	Q	³ H, NO ₃
B4-3	1855	Q	³ H, NO ₃
B4-4	1891	SA	³ H, NO ₃ , Gamma Scan
B5-1	1895	Q	³ H, NO ₃
B9-1	1893	SA	³ H, NO ₃
D2-5	1894	Q	³ H, NO ₃
D5-12	1892	Q	³ H, NO ₃ , Gamma Scan
O8-3	1862	Q	³ H, NO ₃
F5-1	1865	Q	³ H, NO ₃
F5-3	1867	Q	³ H, NO ₃
F5-4	1868	Q	³ H, NO ₃
F5-6	1870	Q	³ H, NO ₃
F7-1	1871	Q	³ H, NO ₃
F8-1	1888	Q	³ H, NO ₃
F8-2	1889	Q	³ H, NO ₃
H3-1	1890	Q	³ H, U, Cr, F, NO ₃ , Cu, Gamma Scan, Beta
		A	WQ
H4-3	1877	Q	³ H, U, Cr, F, NO ₃ , Cu, Gamma Scan, Beta
		A	WQ
H4-4	1878	Q	³ H, U, Cr, F, NO ₃ , Cu, Gamma Scan, Beta
		A	WQ
H4-5	1873	Q	³ H, U, Cr, F, NO ₃ , Cu, Gamma Scan, Beta
		A	WQ
H4-6	1874	Q	³ H, U, Cr, F, NO ₃ , Cu, Gamma Scan, Beta
		A	WQ
K-11	1882	Q	³ H, NO ₃
		SA	Gamma Scan
K-19	1884	Q	³ H, NO ₃
K-20	1885	Q	³ H, NO ₃
K-22	1887	Q	³ H, NO ₃
K-27	1911	Q	³ H, Gamma Scan
K-28	1912	Q	³ H, Gamma Scan
K-29	1913	Q	³ H, Gamma Scan
K-30	1914	Q	³ H, Gamma Scan
N-2	1904	Q	³ H, NO ₃ , Gamma Scan
		SA	⁹⁰ Sr
N-3(0)	1896	Q	³ H, Gamma Scan
		SA	⁹⁰ Sr

1.0 100 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(199) N-4	1899	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-5	1909	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-6	1901	Q	^3H , Gamma Scan
		SA	^{90}Sr
N-7	1910	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-14	1902	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-15	1903	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-16	1915	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-17	1916	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-18	1917	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-19	1918	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-20	1919	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-21	1920	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-22	1921	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-23	1922	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-24	1923	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-25	1924	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-26	1925	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-27	1926	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-28	1927	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-29	1928	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr

1.0 100 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(199) N-30	1929	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-31	1930	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-32	1931	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-33	1932	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr
N-34	1933	Q	^3H , NO_3 , Gamma Scan
		SA	^{90}Sr

2.0 200 AREA WELLS

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
<u>Sampled by PNL</u>			
(299) E19-1	2359	Q	³ H, NO ₃ , Gamma Scan
E23-1	2553	Q	³ H, NO ₃ , Gamma Scan
E24-7	2542	Q	³ H, NO ₃ , Gamma Scan
E25-2	2554	Q	³ H, NO ₃ , Gamma Scan
E26-1	2545	Q	³ H, NO ₃ , Gamma Scan
E26-3	2365	Q	³ H, NO ₃ , Gamma Scan
E27-1	2287	Q	³ H, NO ₃ , Gamma Scan
E28-1	2555	Q	³ H, NO ₃ , Gamma Scan
E28-5	2285	Q	³ H, NO ₃ , Gamma Scan
E33-14	2297	Q	³ H, NO ₃ , Gamma Scan
E34-1	2549	M	NO ₃
W6-1	2990	Q	³ H, NO ₃ , Gamma Scan
W10-5	2890	Q	³ H, NO ₃ , Gamma Scan
W11-9	2881	Q	³ H, NO ₃ , Gamma Scan
W12-1	2883	Q	³ H, NO ₃ , Gamma Scan
W15-2	2891	Q	³ H, NO ₃ , Gamma Scan
W18-3	3011	Q	³ H, NO ₃ , Gamma Scan
W19-4	2938	Q	³ H, NO ₃ , Gamma Scan
W21-1	2930	Q	³ H, NO ₃ , Gamma Scan
W22-7	3014	Q	³ H, NO ₃ , Gamma Scan
W22-9	3013	Q	³ H, NO ₃ , Gamma Scan
W22-10	2906	Q	Alpha, ⁹⁰ Sr, Gamma Scan
<u>Sampled by RHO</u>			
(P299) E13-5	2314	Q	Beta, ³ H
E13-8	2334	Q	Beta, Gamma Scan
E13-14	2340	Q	Beta
E13-19	2352	Q	Beta
E16-2	2372	M	Alpha, Beta, ³ H, ⁹⁰ Sr, NO ₃ , Gamma Scan
E17-1	2328	M	Alpha, Beta, ³ H, ⁹⁰ Sr, NO ₃ , Gamma Scan
E17-2	2367	M	Alpha, Beta, ³ H, NO ₃
E17-5	2511	M	Alpha, Beta, ³ H, ⁹⁰ Sr, NO ₃ , U, Gamma Scan
E17-6	2512	M	Beta
		Q	³ H, NO ₃
E17-8	2513	M	Beta, ³ H, NO ₃
		Q	⁹⁰ Sr, Gamma Scan
E17-9	2514	M	Alpha, Beta, ³ H, ⁹⁰ Sr, NO ₃ , Gamma Scan
E23-2	2376	Q	Beta, ³ H, NO ₃
E24-1	2317	M	Beta, ³ H, NO ₃
		Q	⁹⁰ Sr, Gamma Scan

2.0 200 AREA WELLS (cont'd.)

Well Number	Sample Number	Frequency	Analyses
(R299) E24-2	2329	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E24-4	2326	M	Beta, ^3H , NO_3
		Q	^{90}Sr , Gamma Scan
E24-8	2355	M	Beta, ^3H , NO_3 , Gamma Scan
E24-12	2521	M	Beta, ^3H , NO_3
E24-13	2383	Q	Beta, NO_3
E25-2	2316	SA	Beta, ^3H , NO_3
E25-3	2318	Q	Beta
E25-6	2343	M	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
		Q	NO_3
E25-9	2344	M	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
		Q	NO_3
E25-10	2363	Q	Alpha, Beta, ^3H , U, Gamma Scan
E25-11	2370	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E25-13	2523	Q	Beta, NO_3
E25-17	2386	M	Alpha, Beta, ^3H , NO_3
		Q	^{90}Sr , Gamma Scan
E25-18	2387	M	Alpha, Beta, ^3H , NO_3
		Q	^{90}Sr , Gamma Scan
E25-19	2388	M	Alpha, Beta, ^3H , NO_3
		Q	^{90}Sr , Gamma Scan
E25-20	2389	M	Alpha, Beta, ^3H , NO_3
		Q	^{90}Sr , Gamma Scan
E25-21	2391	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E25-22	2392	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E25-23	2393	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E25-24	2394	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E26-2	2364	Q	Beta, ^3H , NO_3
E26-4	2362	Q	Beta, ^3H , NO_3
E26-6	2369	Q	Beta, ^3H , NO_3
		SA	Alpha
E26-8	2395	SA	^3H , NO_3
E27-5	2551	Q	Beta
		SA	Gamma Scan
E27-7	2557	Q	Alpha, Beta, NO_3
E26-9	2357	Q	Alpha, Beta, U
E28-12	2380	M	Beta, ^3H , Gamma Scan
E28-13	2324	M	Beta, ^3H , Gamma Scan
E28-16	2325	Q	Alpha, Beta, U
E-28-17	2519	Q	Alpha
E28-18	2524	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , U, Gamma Scan

2.0 200 AREA WELLS (cont'd.)

Well Number	Sample Number	Frequency	Analyses
(R299) E28-21	2556	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , U, Gamma Scan
E28-23	2390	Q	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E32-1	2358	SA	Beta, ^3H , NO_3
E33-1	2301	Q	Beta, Gamma Scan
E33-3	2303	Q	Beta, ^3H , ^{90}Sr , Gamma Scan
E33-5	2308	Q	Beta, Gamma Scan
E33-7	2305	Q	Beta, Gamma Scan
E33-8	2300	Q	Beta, Gamma Scan
E33-9	2299	Q	Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E33-10	2306	Q	Beta, ^3H , NO_3 , Gamma Scan
E33-12	2294	SA	^3H , NO_3
E33-18	2309	Q	Beta, ^{90}Sr , Gamma Scan
E33-20	2332	Q	Beta, ^{90}Sr
E33-21	2353	Q	Beta, Gamma Scan
E33-24	2520	Q	Beta, Gamma Scan
E33-26	2382	Q	Beta, Gamma Scan
E33-27	2527	Q	Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
E34-1	2374	M	Alpha, Beta, ^3H , Gamma Scan
W10-1	2892	Q	Beta
W10-3	2885	Q	Alpha, Beta
W10-4	2886	Q	Beta, Gamma Scan
W10-8	2996	Q	Alpha, Beta, NO_3 , Gamma Scan
W10-9	3009	Q	Alpha, Beta, NO_3 , Gamma Scan
W11-11	2887	Q	Alpha, Beta, Gamma Scan
W11-15	2961	Q	Beta
W11-18	2963	Q	Beta
W11-23	2616	Q	Alpha, Beta, NO_3 , Gamma Scan
W11-24	3010	Q	Alpha, Beta, NO_3 , Gamma Scan
W14-2	2895	Q	Alpha, Beta, ^3H
W14-5	3007	Q	Beta, ^3H , NO_3
W14-6	3008	Q	Beta, ^3H , NO_3
W14-10	3018	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
W15-3	2694	Q	Beta, NO_3 , Gamma Scan
W15-4	2896	Q	Beta, ^3H , NO_3
W15-6	2934	Q	Alpha, Beta, NO_3
W15-7	2960	Q	Alpha, Beta, NO_3 , Gamma Scan
W15-10	2609	Q	Alpha, Beta, NO_3
W15-11	2610	Q	Alpha, Beta, NO_3
W18-5	2933	Q	Alpha, Beta
W18-9	2964	Q	Alpha, Beta, NO_3

2.0 200 AREA WELLS (cont'd.)

Well Number	Sample Number	Frequency	Analyses
(R299) W18-12	2967	M	Alpha, Beta
		Q	^3H , NO_3 , U
W18-15	3015	M	Alpha, Beta, ^3H , NO_3 , U, Gamma Scan
W18-17	3016	Q	Alpha, Beta, ^3H , NO_3 , Gamma Scan
W18-18	3017	M	Alpha, Beta, ^3H , NO_3 , Gamma Scan
W18-19	3019	M	Alpha, Beta, ^3H , NO_3 , Gamma Scan
W18-20	3020	Q	Alpha, Beta, ^3H , NO_3 , Gamma Scan
W19-2	2928	Q	Beta, ^3H , NO_3 , U
W19-3	2929	Q	Alpha, Beta, ^3H , NO_3 , U, Gamma Scan
W19-5	2968	Q	Beta, ^3H , NO_3
W19-11	2619	Q	Alpha, ^3H , NO_3 , Gamma Scan
W19-12	2618	Q	Alpha, Beta, ^3H , NO_3 , U, Gamma Scan
W19-13	2622	M	Alpha, Beta, ^3H , NO_3 , U, Gamma Scan
W19-14	2623	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , U, Gamma Scan
W22-1	2919	Q	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
W22-2	2920	Q	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , Gamma Scan
W22-12	2912	Q	Beta, ^3H , ^{90}Sr , NO_3
W22-20	2926	Q	Beta, ^3H , ^{90}Sr
W22-21	2931	Q	Alpha, Beta, ^{90}Sr , NO_3 , Gamma Scan
W22-22	2939	M	Alpha, Beta, ^3H , ^{90}Sr , NO_3 , U, Gamma Scan
W22-26	2954	Q	Beta, ^3H , ^{90}Sr , Gamma Scan
W22-27	2955	SA	Beta, ^3H , NO_3
W23-1	2898	Q	Beta, NO_3
W23-2	2910	Q	Beta, NO_3
W23-3	2911	Q	Beta, NO_3
W23-4	2925	Q	Alpha, Beta, ^3H , NO_3 , U
W23-9	2993	M	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
W23-10	2994	M	Beta, ^3H , ^{90}Sr , Gamma Scan
W23-11	2995	M	Alpha, Beta, ^3H , U, Gamma Scan
W26-3	2917	Q	Alpha, Beta, ^3H , NO_3
W26-6	2620	Q	Alpha, Beta, ^3H , NO_3
W27-1	2621	M	Alpha, Beta
		Q	^3H , ^{90}Sr , NO_3 , U, Gamma Scan

3.0 300 AREA WELLS

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(399) 1-1	4403	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
1-2	4404	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
1-3	4406	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
1-4	4407	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
1-5	4806	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan (To HEDL Monthly)
1-6	4837	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
2-1	4402	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
2-2	4633	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
2-3	4634	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-1	4401	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-2	3033	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-3	3034	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-6	3031	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-7	4839	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
3-9	4626	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
3-10	4627	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
3-11	4628	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
3-12	4870	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
4-1	4410	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
4-7	4568	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
4-9	4629	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
4-10	4630	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan, ⁹⁰ Sr
5-1	4411	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
6-1	4409	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
8-1	4405	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
8-2	4408	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
8-3	4412	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan
8-4	4865	Q	Beta, NO ₃ , U, Cr, F, Gamma Scan

4.0 400 AREA WELLS

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(499) S0-7	4817	Q	³ H, NO ₃ , Gamma Scan
S0-8	4818	Q	³ H, NO ₃ , Gamma Scan
S1-7B	4819	Q	³ H, NO ₃ , Gamma Scan
S1-7C	4877	Q	Beta, NO ₃ , Gamma Scan
S1-8A	4878	Q	Beta, NO ₃ , Gamma Scan
S1-8B	4879	Q	Beta, NO ₃ , Gamma Scan

5.0 60C AREA WELLS

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
<u>Sampled by PNL</u>			
(699) S3-25	4787	Q	³ H, NO ₃
		A	WQ
S3-E12	4553	Q	³ H, NO ₃
		A	WQ
S6-E4 B	4502	Q	³ H, NO ₃ , U
S6-E4 D	4504	Q	³ H, NO ₃ , U
S6-E14	4580	Q	³ H, NO ₃
S7-34	4427	Q	³ H, NO ₃
S8-19	4421	Q	³ H, NO ₃
S11-E12A(0)	4552	Q	³ H, NO ₃
S11-E12A P	4747	Q	³ H, NO ₃
S12-3	4424	Q	³ H, NO ₃
S12-29	4592	Q	NO ₃
S14-20 A	4535	Q	NO ₃
S18-51	4852	Q	NO ₃ , F
S19-11	4780	SA	NO ₃
S19-E13	4802	Q	NO ₃ , F, U
		A	WQ
S24-19	4510	SA	NO ₃
S27-E14	4413	M	NO ₃ , U, F, Cr
S28-E0	4764	Q	³ H, NO ₃
S29-E12	4803	Q	NO ₃ , F, U
S30-E15 A	4804	Q	NO ₃ , F, U, Cr
S31-1P	4745	Q	³ H, NO ₃
		A	WQ
1-18	4513	Q	³ H, NO ₃
2-3	4423	M	³ H, NO ₃
		Q	Gamma Scan
		A	WQ
2-7	4758	A	WQ
2-33	4526	Q	³ H, NO ₃
3-45	4593	Q	NO ₃
		SA	³ H
4-E6	4620	Q	³ H, NO ₃
8-17	4426	Q	³ H, NO ₃ , Gamma Scan
8-25	4788	Q	³ H, NO ₃ , Gamma Scan
8-32	4420	Q	³ H, NO ₃
9-E2	4519	Q	³ H, NO ₃
10-E12	4581	Q	³ H, NO ₃
10-54	4428	A	WQ

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(699) 12-4 B	4425	SA	Gamma Scan
13-64	4429	Q	^3H , NO_3
14-E6 T	4766	Q	^3H , NO_3
14-38	4527	Q	^3H , NO_3
14-47	4608	Q	^3H , NO_3
		A	WQ
15-15 B	4810	Q	^3H , NO_3 , Gamma Scan
15-26	4464	Q	^3H , NO_3 , Gamma Scan
		A	WQ
17-5	4422	Q	^3H , NO_3 , Gamma Scan
17-47	4530	Q	^3H , NO_3
17-70	4531	Q	^3H , NO_3
19-43	4417	Q	^3H , NO_3
		A	WQ
19-58	4528	Q	NO_3
19-88	4522	Q	NO_3
20-E5 A	4838	Q	^3H , NO_3 , Gamma Scan
		A	WQ
20-E5 P	4705	Q	^3H , NO_3
20-E5 Q	4706	Q	^3H , NO_3
20-E5 R	4707	Q	^3H , NO_3
20-E12(O)	4567	Q	^3H , NO_3
20-E12 P	4611	Q	^3H , NO_3
20-20	4418	Q	^3H , NO_3 , Gamma Scan
20-39	4559	Q	^3H , NO_3
		A	Gamma Scan
20-82	4529	Q	^3H , NO_3
21-6	4855	M	^3H , NO_3
22-70	4595	Q	^3H , NO_3
		A	Gamma Scan
24-1 P	4710	Q	^3H , NO_3
24-1 Q	4711	Q	^3H , NO_3
24-1 R	4712	Q	^3H , NO_3
24-1 S	4713	Q	^3H , NO_3
24-1 T	4709	Q	^3H , NO_3
24-33	4416	Q	^3H , NO_3 , Gamma Scan
24-46	4525	Q	^3H , NO_3
25-55	4415	Q	^3H , NO_3
25-70	4452	SA	^3H , NO_3
		A	WQ

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(699) 26-15	4518	Q	³ H, NO ₃ , Gamma Scan
		A	WQ
26-89	4598	SA	NO ₃
		A	WQ
27-4	4857	M	³ H, NO ₃
27-8	4557	Q	³ H, NO ₃ , Gamma Scan
28-40(0)	4481	Q	³ H, NO ₃ , Gamma Scan
28-40 P	4754	Q	³ H, NO ₃ , Gamma Scan
28-52	4521	Q	³ H, NO ₃ , Gamma Scan
29-4	4857	M	³ H, NO ₃
29-78	4594	Q	³ H, NO ₃
31-31(0)	4471	Q	³ H, NO ₃ , Gamma Scan
31-31 P	4738	Q	³ H, NO ₃ , Gamma Scan
31-53 B	4520	SA	³ H, NO ₃ , Gamma Scan
		A	WQ
32-22	4794	Q	³ H, NO ₃ , Gamma Scan
32-43	4778	Q	³ H, NO ₃ , Gamma Scan
32-62	4550	Q	³ H, NO ₃ , Alpha
32-70B	4492	Q	³ H, NO ₃ , Gamma Scan
32-72	4491	Q	³ H, NO ₃ , Gamma Scan
32-77	4446	Q	³ H, NO ₃ , Gamma Scan
32-42	4779	Q	³ H, NO ₃ , Gamma Scan
33-56	4523	Q	Alpha, ³ H, NO ₃ , Gamma Scan
34-39 A	4448	Q	³ H, NO ₃ , Gamma Scan
34-41	4789	Q	³ H, NO ₃ , Gamma Scan
34-42	4790	Q	³ H, NO ₃ , Gamma Scan
		A	WQ
34-51	4414	Q	³ H, NO ₃ , Gamma Scan
34-88	4439	Q	³ H, NO ₃
35-9	4419	Q	³ H, NO ₃ , Gamma Scan
35-66	4494	Q	³ H, NO ₃ , Gamma Scan
35-70	4441	Q	³ H, NO ₃ , Gamma Scan
		A	WQ
36-46 P	4751	Q	³ H, NO ₃
		SA	Gamma Scan
36-46 Q	4752	Q	³ H, NO ₃
		SA	Gamma Scan
36-61 A	4447	Q	NO ₃
36-61 B	4549	Q	³ H, NO ₃
36-93	4579	SA	³ H, NO ₃
		A	WQ

5.0 600 AREA WELLS (cont'd.)

Well Number	Sample Number	Frequency	Analyses
(699) 37-43	4480	Q	³ H, NO ₃ , Gamma Scan
37-82 A	4554	Q	³ H, NO ₃
38-15	4880	Q	³ H, NO ₃ , Gamma Scan
38-65	4546	Q	³ H, NO ₃
		SA	Gamma Scan
38-70	4493	Q	³ H, NO ₃ , Gamma Scan
39-0	4871	M	³ H, NO ₃ , Gamma Scan
39-E4	4876	M	³ H, NO ₃ , Gamma Scan
39-39	4791	SA	³ H, NO ₃ , Gamma Scan
39-79	4444	Q	³ H, NO ₃ , Gamma Scan
40-1	4566	Q	³ H, NO ₃
		A	Gamma Scan, WQ
40-33 A	4431	Q	³ H, NO ₃
		A	Gamma Scan, WQ
40-62	4458	Q	³ H, NO ₃
41-1	4858	M	³ H, NO ₃
41-23	4430	Q	³ H, NO ₃ , Gamma Scan
42-2	4859	M	³ H, NO ₃
42-12	4517	Q	³ H, NO ₃ , Gamma Scan
43-3	4861	M	³ H, NO ₃
43-88	4836	Q	³ H, NO ₃
44-4	4862	M	³ H, NO ₃ , Gamma Scan
44-64	4548	Q	³ H, NO ₃ , Gamma Scan
45-2	4872	Q	³ H, NO ₃ , Gamma Scan
45-42	4450	Q	³ H, NO ₃ , Gamma Scan
		A	WQ
45-69	4449	Q	³ H, NO ₃
		SA	Gamma Scan
		A	WQ
46-4	4863	M	³ H, NO ₃
46-21	4479	Q	³ H, NO ₃
47-5	4864	M	³ H, NO ₃
47-35	4478	Q	³ H, NO ₃
47-46	4564	Q	³ H, NO ₃
		SA	Gamma Scan
47-60	4434	Q	³ H, NO ₃ , Gamma Scan
48-7	4756	Q	³ H, NO ₃
48-18	4850	Q	³ H, NO ₃
48-71	4487	Q	³ H, NO ₃
49-13 F	4771	Q	³ H, NO ₃
		A	WQ

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(699) 49-28	4816	Q	³ H, NO ₃
49-55 A	4562	Q	³ H, NO ₃ , Gamma Scan
49-57	4485	Q	³ H, NO ₃ , Gamma Scan
49-79	4443	Q	³ H, NO ₃
		A	WQ
50-19	4776	SA	NO ₃
50-28 B	4844	Q	³ H, NO ₃
		A	WQ
50-30	4451	Q	³ H, NO ₃
50-42	4460	Q	³ H, NO ₃
50-53	4473	Q	³ H, NO ₃ , Gamma Scan
		A	WQ
50-85	4497	Q	³ H, NO ₃
51-63	4488	Q	³ H, NO ₃
51-75	4496	Q	³ H, NO ₃
53-35	4637	Q	³ H, NO ₃
		A	Gamma Scan
53-103	4772	Q	³ H, NO ₃
54-34	4638	Q	³ H, NO ₃
54-37 A	4853	Q	³ H, NO ₃
54-42	4432	Q	NO ₃
		SA	³ H
54-45 A	4811	Q	³ H, NO ₃
55-40	4639	Q	³ H, NO ₃
55-44	4640	Q	³ H, NO ₃
55-50(AO)	4433	Q	³ H, NO ₃
55-50 C	4483	Q	³ H, NO ₃
		SA	Gamma Scan
		A	WQ
55-50 D	4484	Q	³ H, NO ₃
55-70	4442	Q	³ H, NO ₃
55-76	4533	Q	NO ₃
55-89	4453	Q	NO ₃
56-43	4650	Q	³ H, NO ₃
57-25 A	4856	Q	³ H, NO ₃
57-29 A	4462	Q	³ H, NO ₃
57-83	4558	Q	NO ₃
58-24	4652	Q	³ H, NO ₃
59-32	4815	Q	³ H, NO ₃
59-58	4827	Q	³ H, NO ₃
		A	WQ

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(699) 59-80 B	4437	Q	NO ₃
60-32	4814	Q	³ H, NO ₃
60-57	4826	Q	³ H, NO ₃
60-60	4435	Q	³ H, NO ₃
61-37	4694	Q	NO ₃
61-41	4653	Q	³ H, NO ₃
61-62	4825	Q	³ H, NO ₃
61-66	4474	Q	³ H, NO ₃
62-31	4813	Q	NO ₃
62-43 F	4537	Q	³ H, NO ₃
63-25	4499	Q	³ H, NO ₃
63-51	4845	SA	³ H, NO ₃
63-55	4823	Q	³ H, NO ₃
63-58	4822	Q	³ H, NO ₃
63-90	4436	Q	³ H, NO ₃
		A	WQ
64-27	4599	Q	NO ₃
		SA	³ H
		A	WQ
64-62	4824	Q	³ H, NO ₃
65-23	4851	SA	³ H, NO ₃
65-50	4477	Q	³ H, NO ₃
65-59	4532	Q	³ H, NO ₃
65-72	4468	Q	³ H, NO ₃
65-83	4775	Q	³ H, NO ₃
66-23	4547	Q	NO ₃
66-38	4586	Q	NO ₃
66-39	4812	Q	NO ₃
66-58	4821	Q	³ H, NO ₃
66-64	4820	Q	³ H, NO ₃
		A	WQ
66-103	4587	SA	³ H, NO ₃
		A	Gamma Scan
67-51	4561	Q	³ H, NO ₃
67-86	4585	Q	³ H, NO ₃
67-98	4556	Q	³ H, NO ₃
68-105	4588	SA	³ H, NO ₃
		A	Gamma Scan
69-38	4461	Q	³ H, NO ₃
70-68	4455	SA	³ H, NO ₃
71-30	4490	SA	³ H, NO ₃

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(699) 71-52	4454	Q	^3H , NO_3
71-77	4584	SA	^3H , NO_3
		A	WQ
72-73	4569	SA	^3H , NO_3
72-88	4465	Q	^3H , NO_3
		A	WQ
72-92	4565	SA	^3H , NO_3
72-98	4463	SA	^3H , NO_3
73-61	4583	Q	^3H , NO_3
74-44	4516	Q	^3H , NO_3
		A	WQ
77-36	4500	Q	^3H , NO_3
77-54	4512	Q	NO_3
78-62	4511	SA	NO_3
		A	WQ
80-43 P	4760	SA	NO_3
80-43 Q	4761	SA	NO_3
80-43 R	4762	SA	NO_3
80-43 S	4763	SA	NO_3
81-58	4597	Q	^3H , NO_3
		A	WQ
83-47	4515	SA	^3H
84-35 A(0)	4596	SA	^3H , NO_3
87-55	4792	Q	^3H , NO_3
		A	WQ
89-35	4571	Q	NO_3
		A	WQ
90-45	4770	Q	^3H
		SA	NO_3
96-49	4591	Q	^3H , NO_3
97-43	4590	Q	^3H , NO_3
97-51 A	4728	Q	^3H , NO_3
101-48 B	4846	SA	^3H , NO_3
<u>Sampled by RHO</u>			
(R699) 12-4 D	4750	Q	Beta, ^3H , NO_3
32-72	4868	M	Alpha, Beta
35-78 A	4869	M	Alpha, Beta, ^3H , U, Gamma Scan
		Q	NO_3
42-40 A	4874	M	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
		Q	NO_3 , U

5.0 600 AREA WELLS (cont'd.)

<u>Well Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
(R699) 42-40 B	4875	M	Alpha, Beta, ^3H , ^{90}Sr , Gamma Scan
		Q	NO_3
42-40 C	4881	SA	^3H , NO_3
47-50	4882	SA	^3H , NO_3
49-55 B	4743	SA	^3H , NO_3
50-42	4610	Q	^{90}Sr
		SA	Alpha, Beta
50-45	4759	SA	^3H , NO_3
50-48	4883	M	Alpha, Beta, ^{90}Sr , Gamma Scan
		SA	^3H , NO_3
51-46	4884	SA	^3H , NO_3
52-46 A	4768	SA	^3H , NO_3
52-48	4886	SA	^3H , NO_3
53-47 A	4866	M	Alpha, Beta, ^{90}Sr , Gamma Scan
53-47 B	4600	M	Alpha, Beta, ^{90}Sr , Gamma Scan
53-48 A	4893	M	Alpha, Beta, ^{90}Sr , Gamma Scan
53-48 B	4894	M	Alpha, Beta, ^{90}Sr , Gamma Scan
53-50	4849	SA	^3H , NO_3
53-55 A	4867	M	Alpha, Beta, ^{90}Sr , Gamma Scan
54-49	4732	M	Alpha, Beta, ^{90}Sr
54-57	4469	SA	^3H , NO_3
55-50 C	4887	M	^{90}Sr
55-50 D	4730	Q	Alpha, Beta, ^{90}Sr
56-50	4733	M	Alpha, Beta, ^{90}Sr
56-53	4892	SA	^3H , NO_3
59-58	4734	Q	^{90}Sr
		SA	Alpha, Beta
63-58	4741	Q	^{90}Sr
		SA	Alpha, Beta

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