PNNL--11473

Hanford Site

Environmental Surveillance Data 1996

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Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830

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HANFORD SITE ENVIRONMENTAL DATA
REPORT FOR CALENDAR YEAR 1996

L. E. Bisping

September 1997

Prepared for
the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830

Pacific Northwest National Laboratory
Richland, Washington 99352

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ABSTRACT

Environmental surveillance at the Hanford Site, located in southeastern Washington State, is conducted by Battelle Memorial Institute, Pacific Northwest Division, as part of its contract to operate the Pacific Northwest National Laboratory (PNNL) for the U.S. Department of Energy. The data collected provide a historical record of radionuclide and radiation levels attributable to natural causes, worldwide fallout, and Hanford operations. Data are also collected to monitor several chemicals and metals in Columbia River water and sediment. In addition, Hanford Site wildlife samples were also collected for metals analysis.

Pacific Northwest National Laboratory publishes an annual environmental report for the Hanford Site each calendar year. The Hanford Site Environmental Report for Calendar Year 1996 describes the site mission and activities, general environmental features, radiological and chemical releases from operations, status of compliance with environmental regulations, status of programs to accomplish compliance, and environmental monitoring activities and results. The report includes a summary of offsite and onsite environmental monitoring data collected during 1996 by PNNL's Environmental Monitoring Program. Appendix A of that report contains data summaries created from river monitoring and sediment data. This volume contains the actual raw data used to create the summaries. The data volume also includes Hanford Site drinking water radiological data.

For more information, refer to R. L. Dirkes and R. W. Hanf, 1997, Hanford Site Environmental Report for Calendar Year 1996 (PNNL-11472, Pacific Northwest National Laboratory, Richland, Washington), or contact R. L. Dirkes, Project Manager, Surface Environmental Surveillance Project, P.O. Box 999, Pacific Northwest National Laboratory, Richland, Washington.

INTRODUCTION

The following sections provide tables of data on which much of the environmental surveillance information in the Hanford Site Environmental Data Report for Calendar Year 1996 was based. Information that may help the reader to understand these data tables is provided below.

GENERAL

The total propagated analytical uncertainty for individual results are 2 sigma counting errors.

Soil and natural vegetation samples have been collected on and around the Hanford Site for almost 40 years and a database documents contaminant concentrations in these samples at specific locations. As a result, no soil or natural vegetation samples were collected by PNNL during 1996 and future sampling will be conducted on an as-needed basis in support of site cleanup activities and facility operations.

EXTERNAL RADIATION DATA

The Thermoluminescent Dosimeter (TLD) readings in this data volume are in milliroentgens per day (mR/day) and have been converted to mrem/year for presentation in the annual report.

LOCATION NAMES

Some location names are different in this data volume than reported in the annual environmental report. The following is a list of corresponding names that are dissimilar or that might be confused:

<u>Media</u>	<u>Data Volume</u>	<u>Annual Report</u>
Air	Edwin Markham School Leslie Groves-Richland 200 Tel. Exchange	North Franklin County Richland GTE Building

INTRODUCTION (contd)

<u>Media</u>	<u>Data Volume</u>	<u>Annual Report</u>
Drinking Water	FFTF Firing Range	400 Area Patrol Training Academy

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Air

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997

AIR - PARTICULATE FILTER

Page 1

2230 100 K AREA

2231 100 N-1325 CRIB

2232 100 D AREA

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/16/1996		4.980E-04	3.410E-02	01/16/1996		5.940E-04	3.360E-02	01/16/1996		4.400E-04	3.480E-02
		(3.050E-04)	(3.980E-03)			(3.190E-04)	(3.720E-03)			(2.940E-04)	(4.050E-03)
01/30/1996		1.060E-03	3.010E-02	01/30/1996		6.770E-04	2.800E-02	01/30/1996		4.340E-04	2.860E-02
		(4.050E-04)	(3.410E-03)			(3.430E-04)	(3.390E-03)			(2.940E-04)	(3.280E-03)
02/13/1996		1.150E-03	6.090E-02	02/13/1996		8.540E-04	5.350E-02	02/13/1996		6.430E-04	5.520E-02
		(4.520E-04)	(6.240E-03)			(3.850E-04)	(5.790E-03)			(3.410E-04)	(5.970E-03)
02/27/1996		1.020E-03	2.920E-02	02/27/1996		1.020E-03	3.030E-02	02/27/1996		6.050E-04	2.910E-02
		(3.960E-04)	(3.330E-03)			(3.940E-04)	(3.610E-03)			(3.270E-04)	(3.330E-03)
03/12/1996		7.340E-04	2.930E-02	03/12/1996		5.970E-04	2.930E-02	03/12/1996		7.300E-04	2.830E-02
		(3.380E-04)	(3.410E-03)			(3.430E-04)	(3.340E-03)			(3.360E-04)	(3.310E-03)
03/26/1996		9.950E-04	1.550E-02	03/26/1996		4.380E-04	1.380E-02	03/26/1996		4.230E-04	1.300E-02
		(3.980E-04)	(2.110E-03)			(2.830E-04)	(1.960E-03)			(2.760E-04)	(1.880E-03)
04/09/1996	1	3.780E-04	1.790E-02	04/09/1996		3.200E-04	1.870E-02	04/09/1996		5.640E-04	1.820E-02
		(2.880E-04)	(2.370E-03)			(2.660E-04)	(2.400E-03)			(3.210E-04)	(2.360E-03)
04/23/1996		2.120E-04	5.420E-03	04/23/1996		1.710E-04	6.890E-03	04/23/1996		1.120E-04	6.330E-03
		(2.430E-04)	(1.200E-03)			(2.160E-04)	(1.370E-03)			(1.980E-04)	(1.310E-03)
05/07/1996		2.210E-04	1.010E-02	05/07/1996		4.220E-04	1.120E-02	05/07/1996		4.310E-04	1.210E-02
		(2.610E-04)	(1.670E-03)			(3.040E-04)	(1.730E-03)			(3.100E-04)	(1.810E-03)
05/21/1996		8.430E-04	1.230E-02	05/21/1996		6.760E-04	1.550E-02	05/21/1996		4.610E-04	1.380E-02
		(3.850E-04)	(1.830E-03)			(3.340E-04)	(2.110E-03)			(3.130E-04)	(1.970E-03)
06/04/1996		5.890E-04	1.100E-02	06/04/1996		3.170E-04	1.300E-02	06/04/1996		2.090E-04	1.180E-02
		(3.090E-04)	(1.700E-03)			(2.530E-04)	(1.970E-03)			(2.170E-04)	(1.770E-03)
06/18/1996		5.930E-04	1.400E-02	06/18/1996		6.140E-04	1.280E-02	06/18/1996		2.060E-04	1.440E-02
		(3.520E-04)	(1.880E-03)			(3.740E-04)	(1.770E-03)			(2.410E-04)	(1.920E-03)
07/01/1996		1.760E-04	9.930E-03	07/01/1996	3	2.660E-04	9.970E-03	07/01/1996		3.930E-04	1.130E-02
		(2.240E-04)	(1.660E-03)			(3.500E-04)	(2.160E-03)			(2.810E-04)	(1.780E-03)
07/16/1996		3.380E-04	1.410E-02	07/16/1996	4	NR	NR	07/16/1996		4.800E-04	1.530E-02
		(2.430E-04)	(1.950E-03)							(2.850E-04)	(2.160E-03)
07/30/1996		1.660E-04	1.670E-02	07/30/1996	5	NR	NR	07/30/1996		1.340E-04	1.590E-02
		(1.990E-04)	(2.250E-03)							(2.000E-04)	(2.150E-03)
08/14/1996		2.390E-04	1.540E-02	08/14/1996	6	NR	NR	08/14/1996		3.290E-04	1.390E-02
		(2.120E-04)	(2.060E-03)							(2.370E-04)	(2.000E-03)
08/27/1996	2	5.260E-04	2.210E-02	08/27/1996	7	NR	NR	08/27/1996		5.830E-04	2.070E-02
		(3.230E-04)	(2.890E-03)							(3.270E-04)	(2.630E-03)
09/10/1996		1.810E-04	1.510E-02	09/10/1996	8	NR	NR	09/10/1996		1.050E-04	1.730E-02
		(2.220E-04)	(2.080E-03)							(1.930E-04)	(2.390E-03)

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
AIR - PARTICULATE FILTER Page 2

2230 100 K AREA

2231 100 N-1325 CRIB

2232 100 D AREA

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/24/1996	9	4.240E-04	1.100E-02	09/24/1996	10	2.170E-05	1.110E-02	09/24/1996		2.900E-04	1.190E-02
		{ 2.800E-04}	{ 1.750E-03}			{ 3.760E-04}	{ 2.420E-03}			{ 2.360E-04}	{ 1.870E-03}
10/08/1996		6.020E-04	2.330E-02	10/08/1996		5.030E-04	2.520E-02	10/08/1996		5.770E-04	2.580E-02
		{ 3.490E-04}	{ 2.980E-03}			{ 2.910E-04}	{ 3.130E-03}			{ 3.030E-04}	{ 3.170E-03}
10/22/1996		3.130E-04	1.190E-02	10/22/1996		2.740E-04	1.350E-02	10/22/1996		3.710E-04	1.540E-02
		{ 2.520E-04}	{ 1.850E-03}			{ 2.480E-04}	{ 1.960E-03}			{ 2.660E-04}	{ 2.140E-03}
11/05/1996		3.720E-04	1.720E-02	11/05/1996		1.850E-04	1.880E-02	11/05/1996		9.580E-04	2.570E-02
		{ 2.760E-04}	{ 2.360E-03}			{ 2.130E-04}	{ 2.450E-03}			{ 3.920E-04}	{ 3.080E-03}
11/19/1996		8.940E-04	1.640E-02	11/19/1996		4.310E-04	1.770E-02	11/19/1996		7.170E-04	2.010E-02
		{ 3.720E-04}	{ 2.190E-03}			{ 2.830E-04}	{ 2.310E-03}			{ 3.380E-04}	{ 2.520E-03}
12/03/1996		5.550E-04	1.740E-02	12/03/1996		5.370E-04	1.850E-02	12/03/1996		3.870E-04	2.330E-02
		{ 3.090E-04}	{ 2.370E-03}			{ 3.040E-04}	{ 2.420E-03}			{ 2.670E-04}	{ 2.860E-03}
12/17/1996		7.390E-05	7.330E-03	12/17/1996		3.110E-04	8.100E-03	12/17/1996		2.830E-04	9.600E-03
		{ 1.810E-04}	{ 1.410E-03}			{ 2.680E-04}	{ 1.510E-03}			{ 2.430E-04}	{ 1.570E-03}
12/31/1996		4.220E-04	2.890E-02	12/31/1996	11	NR	NR	12/31/1996		1.140E-03	3.880E-02
		{ 3.040E-04}	{ 3.310E-03}							{ 4.370E-04}	{ 4.180E-03}
MEAN		5.221E-04	1.910E-02	MEAN		4.614E-04	1.947E-02	MEAN		4.617E-04	2.041E-02
MINIMUM		7.390E-05	5.420E-03	MINIMUM		2.170E-05	6.890E-03	MINIMUM		1.050E-04	6.330E-03
MAXIMUM		1.150E-03	6.090E-02	MAXIMUM		1.020E-03	5.350E-02	MAXIMUM		1.140E-03	5.520E-02
2STD. ERR		5.202E-03	4.061E-03	2STD. ERR		6.632E-03	5.122E-03	2STD. ERR		5.250E-03	4.276E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 HOUR METER NOT RESET, EXPOSURE HOURS ARE ESTIMATED.

2 EXPOSURE HOURS ESTIMATED. REZERO BUTTON ON METER STUCK.

3 POWER OUTAGE.

4 NO SAMPLE. POWER OUTAGE.

5 NO SAMPLE. POWER OUTAGE.

6 NO SAMPLE. POWER OUTAGE.

7 NO SAMPLE. POWER OUTAGE.

8 NO SAMPLE. POWER OUTAGE.

9 LOW EXPOSURE HOURS, POSSIBLE POWER OUTAGE.

10 LOW EXPOSURE HOURS DUE TO POWER OUTAGE.

11 UNABLE TO COLLECT DUE TO HIGH SNOW.

2227 100 AREAS-100 K AREA,100 N-1325 CRIB,100 D AREA (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/26/1996		1.370E-01 (1.950E-02)	5.680E-04 (2.490E-04)	< -7.210E-05 (2.220E-04)	< -1.220E-04 (2.400E-04)	4.540E-04 (4.000E-03)	nra	nra	nra
07/01/1996	1	2.020E-01 (2.570E-02)	1.210E-04 (2.730E-04)	2.080E-05 (2.010E-04)	6.950E-05 (1.750E-04)	3.800E-03 (4.130E-03)	nra	nra	nra
10/08/1996	2	2.640E-01 (3.260E-02)	1.500E-04 (2.880E-04)	3.590E-04 (2.070E-04)	6.190E-05 (2.200E-04)	2.010E-02 (5.280E-03)	nra	nra	nra
12/31/1996	3	7.010E-02 (1.280E-02)	< -2.190E-04 (2.890E-04)	9.800E-05 (2.290E-04)	< -1.720E-04 (2.610E-04)	1.320E-02 (6.850E-03)	1.420E-07 (1.590E-07)	5.260E-07 (2.500E-07)	3.590E-05 (9.650E-06)
MEAN		1.683E-01	1.550E-04	1.014E-04	-4.065E-05	9.388E-03	1.420E-07	5.260E-07	3.590E-05
MINIMUM		7.010E-02	< -2.190E-04	< -7.210E-05	< -1.720E-04	4.540E-04	1.420E-07	5.260E-07	3.590E-05
MAXIMUM		2.640E-01	5.680E-04	3.590E-04	6.950E-05	2.010E-02	1.420E-07	5.260E-07	3.590E-05
2STD. ERR		8.350E-02	3.223E-04	1.853E-04	1.245E-04	8.950E-03	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2230 on 04/09/1996 HOUR METER NOT RESET, EXPOSURE HOURS ARE ESTIMATED.

2 Comment for sample 2230 on 08/27/1996 EXPOSURE HOURS ESTIMATED. REZERO BUTTON ON METER STUCK.

Comment for sample 2231 on 07/01/1996 POWER OUTAGE.

Comment for sample 2231 on 07/16/1996 NO SAMPLE. POWER OUTAGE.

Comment for sample 2231 on 07/30/1996 NO SAMPLE. POWER OUTAGE.

Comment for sample 2231 on 08/14/1996 NO SAMPLE. POWER OUTAGE.

Comment for sample 2231 on 08/27/1996 NO SAMPLE. POWER OUTAGE.

Comment for sample 2231 on 09/10/1996 NO SAMPLE. POWER OUTAGE.

Comment for sample 2230 on 09/24/1996 LOW EXPOSURE HOURS, POSSIBLE POWER OUTAGE.

Comment for sample 2231 on 09/24/1996 LOW EXPOSURE HOURS DUE TO POWER OUTAGE.

3 Comment for sample 2231 on 12/31/1996 UNABLE TO COLLECT DUE TO HIGH SNOW.

BOJFM5 (100 N-1325 CRIB, 12/31/96) NOT INCLUDED IN QUARTERLY COMPOSITE BOH342. SAMPLE RAN FOR 4-WKS AND COLLECTED ON 1/14/97
(BOJFV65). SAMPLE INCLUDED IN 97 QUARTERLY COMPOSITE BOJFV54.

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
AIR - PARTICULATE FILTER

Page 4

2234 N OF 200 E

OFF DATE	COM	BETA PCI/M3
01/09/1996		6.570E-02
		{ 6.780E-03}
01/23/1996		2.140E-02
		{ 2.690E-03}
02/06/1996		5.130E-02
		{ 5.280E-03}
02/20/1996		2.670E-02
		{ 3.080E-03}
03/05/1996		2.180E-02
		{ 2.810E-03}
03/19/1996		2.000E-02
		{ 2.610E-03}
04/02/1996		1.540E-02
		{ 2.110E-03}
04/16/1996		1.150E-02
		{ 1.850E-03}
04/30/1996		6.990E-03
		{ 1.350E-03}
05/14/1996		1.570E-02
		{ 2.130E-03}
05/28/1996		1.100E-02
		{ 1.780E-03}
06/11/1996		1.390E-02
		{ 2.070E-03}
06/24/1996		1.190E-02
		{ 1.850E-03}
07/09/1996		9.680E-03
		{ 1.510E-03}
07/23/1996		1.560E-02
		{ 2.130E-03}
08/07/1996		1.770E-02
		{ 2.310E-03}
08/20/1996	1	NR
09/03/1996		2.350E-02
		{ 2.950E-03}

2234 N OF 200 E

OFF DATE	COM	BETA
		PCI/M3
09/17/1996		1.380E-02
		{ 2.030E-03}
10/01/1996		1.570E-02
		{ 2.130E-03}
10/15/1996		2.220E-02
		{ 2.710E-03}
10/29/1996		1.260E-02
		{ 1.880E-03}
11/12/1996		2.380E-02
		{ 3.000E-03}
11/25/1996		2.210E-02
		{ 2.880E-03}
12/10/1996		1.120E-02
		{ 1.710E-03}
12/20/1996		1.490E-02
		{ 2.400E-03}
01/07/1997		2.500E-02
		{ 2.790E-03}

MEAN		2.004E-02
MINIMUM		6.990E-03
MAXIMUM		6.570E-02
2STD. ERR		4.955E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- - Analyzed as part of a composite sample only
- 1 NO SAMPLE. FILTER HEAD FOUND ON GROUND.

2773 N OF 200 E-N OF 200 E (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/07/1997	1	2.840E-01 { 4.930E-02}	1.860E-04 { 1.190E-04}	< -5.110E-05 { 1.970E-04}	7.390E-05 { 1.540E-04}	3.570E-03 { 3.530E-03}

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2234 on 08/20/1996

NO SAMPLE. FILTER HEAD FOUND ON GROUND.

2238 E OF 200 E (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/09/1996		1.240E-03 (4.550E-04)	nra	6.890E-02 (7.310E-03)	nra	nra	nra	nra
01/23/1996		3.820E-04 (2.710E-04)	nra	2.070E-02 (2.710E-03)	nra	nra	nra	nra
02/06/1996		9.910E-04 (5.890E-04)	nra	3.430E-02 (4.490E-03)	nra	nra	nra	nra
02/20/1996		4.030E-04 (3.020E-04)	nra	2.500E-02 (3.060E-03)	nra	nra	nra	nra
03/05/1996		4.110E-04 (2.800E-04)	nra	2.220E-02 (2.740E-03)	nra	nra	nra	nra
03/19/1996		3.200E-04 (2.710E-04)	nra	1.850E-02 (2.440E-03)	nra	nra	nra	nra
04/02/1996		3.890E-04 (2.890E-04)	nra	1.770E-02 (2.350E-03)	nra	nra	nra	nra
04/16/1996	1	NR	nra	NR	nra	nra	nra	nra
04/30/1996	2	NR	nra	NR	nra	nra	nra	nra
05/14/1996	3	NR	nra	NR	nra	nra	nra	nra
05/28/1996	4	NR	nra	NR	nra	nra	nra	nra
06/11/1996	5	NR	nra	NR	nra	nra	nra	nra
06/24/1996	6	NR	nra	NR	nra	nra	nra	nra
07/09/1996	7	NR	nra	NR	nra	nra	nra	nra
07/23/1996	8	NR	nra	NR	nra	nra	nra	nra
08/07/1996		5.460E-04 (3.390E-04)	nra	1.870E-02 (2.500E-03)	nra	nra	nra	nra
08/20/1996		9.660E-04 (4.170E-04)	nra	1.790E-02 (2.390E-03)	nra	nra	nra	nra
09/03/1996		1.390E-03 (4.710E-04)	nra	2.250E-02 (2.700E-03)	nra	nra	nra	nra

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

- 1 NO SAMPLE. POWER OUTAGE.
- 2 NO SAMPLE. POWER OUTAGE.
- 3 NO SAMPLE. POWER OUTAGE.
- 4 NO SAMPLE. POWER OUTAGE.
- 5 NO SAMPLE. POWER OUTAGE.
- 6 NO SAMPLE. POWER OUTAGE.

7 NO SAMPLE. POWER OUTAGE.

8 NO SAMPLE. POWER OUTAGE.

2238 E OF 200 E (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
09/17/1996		2.530E-04 { 2.380E-04 }	nra	1.390E-02 { 2.010E-03 }	nra	nra	nra	nra
10/01/1996		2.280E-04 { 2.190E-04 }	nra	1.500E-02 { 2.150E-03 }	nra	nra	nra	nra
10/15/1996		4.140E-04 { 2.990E-04 }	nra	2.080E-02 { 2.700E-03 }	nra	nra	nra	nra
10/29/1996		2.730E-04 { 2.910E-04 }	nra	1.600E-02 { 2.470E-03 }	nra	nra	nra	nra
11/12/1996	1	NR	nra	NR	nra	nra	nra	nra
11/25/1996		8.240E-05 { 3.080E-04 }	nra	1.360E-02 { 2.410E-03 }	nra	nra	nra	nra
12/10/1996		1.890E-04 { 2.210E-04 }	nra	1.100E-02 { 1.660E-03 }	nra	nra	nra	nra
12/20/1996		4.800E-04 { 3.880E-04 }	nra	1.440E-02 { 2.280E-03 }	nra	nra	nra	nra
01/07/1997		6.200E-04 { 2.680E-04 }	6.010E-02 { 2.400E-02 }	2.180E-02 { 2.510E-03 }	7.890E-05 { 1.870E-03 }	7.180E-04 { 1.630E-03 }	< -1.570E-03 { 2.090E-03 }	1.950E-01 { 5.300E-02 }
MEAN		5.321E-04	6.010E-02	2.183E-02	7.890E-05	7.180E-04	-1.570E-03	1.950E-01
MINIMUM		8.240E-05	6.010E-02	1.100E-02	7.890E-05	7.180E-04	< -1.570E-03	1.950E-01
MAXIMUM		1.390E-03	6.010E-02	6.890E-02	7.890E-05	7.180E-04	< -1.570E-03	1.950E-01
2STD. ERR		8.311E-03	.000E+00	5.197E-03	.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 NO SAMPLE. LOW EXPOSURE HOURS, SAVE FOR COMPOSITE.

2239 200 ESE (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/09/1996		1.130E-03 { 4.590E-04}	nra	7.040E-02 { 7.020E-03}	nra	nra	nra	nra
01/23/1996		1.430E-04 { 2.220E-04}	nra	2.200E-02 { 2.820E-03}	nra	nra	nra	nra
02/06/1996		9.340E-04 { 3.750E-04}	nra	5.310E-02 { 5.570E-03}	nra	nra	nra	nra
02/20/1996		4.600E-04 { 2.790E-04}	nra	2.580E-02 { 3.040E-03}	nra	nra	nra	nra
03/05/1996		1.650E-04 { 2.130E-04}	nra	1.890E-02 { 2.440E-03}	nra	nra	nra	nra
03/19/1996		2.890E-04 { 2.570E-04}	nra	1.930E-02 { 2.440E-03}	nra	nra	nra	nra
04/02/1996		2.960E-04 { 2.640E-04}	nra	1.820E-02 { 2.390E-03}	nra	nra	nra	nra
04/16/1996		9.150E-04 { 5.240E-04}	nra	1.450E-02 { 2.450E-03}	nra	nra	nra	nra
04/30/1996		2.770E-04 { 2.400E-04}	nra	7.020E-03 { 1.400E-03}	nra	nra	nra	nra
05/14/1996		7.380E-04 { 3.550E-04}	nra	1.600E-02 { 2.150E-03}	nra	nra	nra	nra
05/28/1996		3.630E-04 { 2.590E-04}	nra	9.060E-03 { 1.530E-03}	nra	nra	nra	nra
06/11/1996		7.180E-04 { 3.640E-04}	nra	1.320E-02 { 1.910E-03}	nra	nra	nra	nra
06/24/1996		4.040E-04 { 3.110E-04}	nra	1.460E-02 { 2.090E-03}	nra	nra	nra	nra
07/09/1996		3.160E-04 { 2.280E-04}	nra	1.210E-02 { 1.740E-03}	nra	nra	nra	nra
07/23/1996		3.750E-04 { 2.680E-04}	nra	1.630E-02 { 2.190E-03}	nra	nra	nra	nra
08/07/1996		5.300E-04 { 2.870E-04}	nra	1.950E-02 { 2.400E-03}	nra	nra	nra	nra
08/20/1996		1.140E-03 { 4.350E-04}	nra	1.790E-02 { 2.400E-03}	nra	nra	nra	nra
09/03/1996		1.710E-03 { 5.170E-04}	nra	2.540E-02 { 2.980E-03}	nra	nra	nra	nra

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

• - Analyzed as part of a composite sample only

2239 200 ESE (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
09/17/1996		5.150E-04 (3.060E-04)	nra	1.460E-02 (2.040E-03)	nra	nra	nra	nra
10/01/1996		4.300E-04 (2.820E-04)	nra	1.630E-02 (2.190E-03)	nra	nra	nra	nra
10/15/1996		7.800E-04 (3.580E-04)	nra	2.300E-02 (2.840E-03)	nra	nra	nra	nra
10/29/1996		2.190E-04 (2.260E-04)	nra	1.240E-02 (1.850E-03)	nra	nra	nra	nra
11/12/1996	1	NR	nra	NR	nra	nra	nra	nra
11/25/1996		5.310E-04 (4.220E-04)	nra	1.570E-02 (2.570E-03)	nra	nra	nra	nra
12/10/1996		1.050E-04 (1.970E-04)	nra	1.280E-02 (1.830E-03)	nra	nra	nra	nra
12/20/1996		3.660E-04 (3.380E-04)	nra	1.530E-02 (2.360E-03)	nra	nra	nra	nra
01/07/1997		7.120E-04 (3.090E-04)	7.010E-02 (2.510E-02)	2.480E-02 (2.780E-03)	< -7.490E-04 (1.890E-03)	< -4.510E-04 (1.550E-03)	< -2.140E-03 (1.630E-03)	1.990E-01 (4.900E-02)
MEAN		5.600E-04	7.010E-02	2.031E-02	-7.490E-04	-4.510E-04	-2.140E-03	1.990E-01
MINIMUM		1.050E-04	7.010E-02	7.020E-03	< -7.490E-04	< -4.510E-04	< -2.140E-03	1.990E-01
MAXIMUM		1.710E-03	7.010E-02	7.040E-02	< -7.490E-04	< -4.510E-04	< -2.140E-03	1.990E-01
2STD. ERR		6.407E-03	.000E+00	5.198E-03	.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

• - Analyzed as part of a composite sample only

1 NO SAMPLE. LOW EXPOSURE HOURS, SAVE FOR COMPOSITE.

2241 S OF 200 E (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/09/1996		1.890E-03 (5.640E-04)	6.810E-02 (7.240E-03)
01/23/1996		5.640E-04 (3.130E-04)	2.360E-02 (2.980E-03)
02/06/1996	1	2.910E-04 (2.480E-04)	4.770E-02 (5.260E-03)
02/20/1996		4.140E-04 (2.810E-04)	2.480E-02 (3.090E-03)
03/05/1996		4.000E-04 (2.920E-04)	2.170E-02 (2.690E-03)
03/19/1996		6.590E-04 (3.350E-04)	2.020E-02 (2.540E-03)
04/02/1996		6.950E-04 (3.510E-04)	1.890E-02 (2.430E-03)
04/16/1996		2.170E-04 (2.630E-04)	1.140E-02 (1.850E-03)
04/30/1996		3.740E-04 (3.060E-04)	7.470E-03 (1.460E-03)
05/14/1996		8.180E-04 (3.610E-04)	1.790E-02 (2.330E-03)
05/28/1996		3.090E-04 (2.490E-04)	9.280E-03 (1.560E-03)
06/11/1996	2	3.860E-04 (2.770E-04)	1.300E-02 (1.880E-03)
06/24/1996		5.390E-04 (3.220E-04)	1.450E-02 (2.100E-03)
07/09/1996		2.080E-04 (2.160E-04)	1.260E-02 (1.870E-03)
07/23/1996		3.520E-04 (2.740E-04)	1.350E-02 (1.970E-03)
08/07/1996		3.240E-04 (2.440E-04)	1.670E-02 (2.260E-03)
08/20/1996		9.600E-04 (4.140E-04)	1.440E-02 (2.100E-03)
09/03/1996		9.680E-04 (4.000E-04)	2.600E-02 (3.200E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 LOTS OF WET SNOW GOING INTO SAMPLER.
2 HOUR METER BROKEN, ESTIMATED EXPOSURE HOURS.

2241 S OF 200 E (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/17/1996		4.230E-04	1.580E-02
		{ 2.910E-04}	{ 2.180E-03}
10/01/1996		1.950E-04	1.640E-02
		{ 2.200E-04}	{ 2.300E-03}
10/15/1996		6.280E-04	2.160E-02
		{ 3.440E-04}	{ 2.650E-03}
10/29/1996		3.340E-04	1.450E-02
		{ 2.530E-04}	{ 2.100E-03}
11/12/1996		8.280E-04	2.810E-02
		{ 3.720E-04}	{ 3.230E-03}
11/25/1996		5.550E-04	2.230E-02
		{ 3.290E-04}	{ 2.780E-03}
12/10/1996		4.350E-04	1.270E-02
		{ 2.700E-04}	{ 1.880E-03}
12/20/1996		1.440E-03	1.840E-02
		{ 5.590E-04}	{ 2.650E-03}
01/07/1997		1.010E-03	2.730E-02
		{ 3.380E-04}	{ 3.010E-03}
MEAN		6.006E-04	2.070E-02
MINIMUM		1.950E-04	7.470E-03
MAXIMUM		1.890E-03	6.810E-02
2STD, ERR		5.961E-03	4.748E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error.
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only

2236 200 E AREA-E OF 200 E, 200 ESE, S OF 200 E (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/02/1996		1.630E-01 { 2.150E-02 }	2.540E-04 { 2.460E-04 }	1.430E-04 { 2.090E-04 }	1.010E-04 { 2.470E-04 }	8.380E-03 { 5.610E-03 }	nra	nra	nra
06/24/1996	1	2.260E-01 { 3.310E-02 }	3.170E-04 { 3.630E-04 }	< -3.040E-04 { 3.480E-04 }	4.970E-05 { 3.680E-04 }	3.110E-02 { 8.580E-03 }	nra	nra	nra
10/01/1996	2	2.440E-01 { 2.960E-02 }	2.250E-04 { 2.200E-04 }	5.320E-05 { 1.570E-04 }	6.690E-05 { 1.920E-04 }	1.560E-02 { 5.170E-03 }	nra	nra	nra
01/07/1997	3	7.900E-02 { 1.250E-02 }	6.530E-05 { 2.350E-04 }	< -1.170E-05 { 1.750E-04 }	2.370E-04 { 1.910E-04 }	5.450E-03 { 5.410E-03 }	7.580E-08 { 3.510E-07 }	1.240E-05 { 2.540E-06 }	1.620E-04 { 3.430E-05 }
MEAN		1.780E-01	2.153E-04	-2.988E-05	1.137E-04	1.513E-02	7.580E-08	1.240E-05	1.620E-04
MINIMUM		7.900E-02	6.530E-05	< -3.040E-04	4.970E-05	5.450E-03	7.580E-08	1.240E-05	1.620E-04
MAXIMUM		2.440E-01	3.170E-04	1.430E-04	2.370E-04	3.110E-02	7.580E-08	1.240E-05	1.620E-04
2STD. ERR		7.458E-02	1.071E-04	1.934E-04	8.495E-05	1.147E-02	.000E+00	.000E+00	.000E+00

2236 200 E AREA-E OF 200 E,200 ESE,S OF 200 E (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/02/1996		nra	nra	nra	nra
06/24/1996		nra	nra	nra	nra
10/01/1996		nra	nra	nra	nra
01/07/1997		8.820E-06 (2.100E-06)	2.320E-07 (4.030E-07)	6.830E-06 (1.820E-06)	1.588E-05 (2.808E-06)
MEAN		8.820E-06	2.320E-07	6.830E-06	1.588E-05
MINIMUM		8.820E-06	2.320E-07	6.830E-06	1.588E-05
MAXIMUM		8.820E-06	2.320E-07	6.830E-06	1.588E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only

2244 B POND (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/09/1996	1	NR	nra	NR	nra	nra	nra	nra
01/23/1996		1.610E-04 { 2.170E-04}	nra	1.180E-02 { 1.760E-03}	nra	nra	nra	nra
02/06/1996		2.110E-04 { 3.540E-04}	nra	1.780E-02 { 3.080E-03}	nra	nra	nra	nra
02/20/1996	2	NR	nra	NR	nra	nra	nra	nra
03/05/1996		3.750E-04 { 2.910E-04}	nra	2.230E-02 { 2.790E-03}	nra	nra	nra	nra
03/19/1996		3.390E-04 { 2.690E-04}	nra	1.990E-02 { 2.540E-03}	nra	nra	nra	nra
04/02/1996		6.980E-04 { 3.530E-04}	nra	1.750E-02 { 2.390E-03}	nra	nra	nra	nra
04/16/1996	3	NR	nra	NR	nra	nra	nra	nra
04/30/1996	4	NR	nra	NR	nra	nra	nra	nra
05/14/1996	5	NR	nra	NR	nra	nra	nra	nra
05/28/1996	6	NR	nra	NR	nra	nra	nra	nra
06/11/1996	7	NR	nra	NR	nra	nra	nra	nra
06/24/1996	8	NR	nra	NR	nra	nra	nra	nra
07/09/1996	9	NR	nra	NR	nra	nra	nra	nra
07/23/1996	10	NR	nra	NR	nra	nra	nra	nra
08/07/1996		3.630E-04 { 4.800E-04}	nra	8.670E-03 { 2.260E-03}	nra	nra	nra	nra
08/20/1996		4.500E-04 { 2.940E-04}	nra	1.660E-02 { 2.380E-03}	nra	nra	nra	nra
09/03/1996		8.600E-04 { 3.790E-04}	nra	2.430E-02 { 2.970E-03}	nra	nra	nra	nra

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 NO SAMPLE. PUMP OUT, SAVE FOR COMPOSITE.

2 NO SAMPLE. DO NOT INCLUDE IN COMPOSITE.

3 NO SAMPLE. POWER OUTAGE.

4 NO SAMPLE. POWER OUTAGE.

5 NO SAMPLE. POWER OUTAGE.

6 NO SAMPLE. POWER OUTAGE.

7 NO SAMPLE. POWER OUTAGE.

8 NO SAMPLE. POWER OUTAGE.

9 NO SAMPLE. POWER OUTAGE.

10 NO SAMPLE. POWER OUTAGE.

2244 B POND (PARTICULATE , FILTER1)

OFF DATE	COM	ALPHA PCI/M3	BE-7 PCI/M3	BETA PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
09/17/1996		4.030E-04 (3.110E-04)	nra	1.430E-02 (2.100E-03)	nra	nra	nra	nra
10/01/1996		3.460E-04 (2.500E-04)	nra	1.450E-02 (2.100E-03)	nra	nra	nra	nra
10/15/1996		5.480E-04 (3.140E-04)	nra	1.950E-02 (2.580E-03)	nra	nra	nra	nra
10/29/1996		2.020E-05 (1.510E-04)	nra	1.190E-02 (1.810E-03)	nra	nra	nra	nra
11/12/1996	1	NR	nra	NR	nra	nra	nra	nra
11/25/1996		2.260E-04 (3.510E-04)	nra	1.850E-02 (2.860E-03)	nra	nra	nra	nra
12/10/1996		2.350E-04 (2.520E-04)	nra	9.220E-03 (1.500E-03)	nra	nra	nra	nra
12/20/1996		3.570E-04 (3.590E-04)	nra	1.160E-02 (2.040E-03)	nra	nra	nra	nra
01/07/1997		8.820E-04 (3.230E-04)	5.310E-02 (2.030E-02)	2.010E-02 (2.490E-03)	4.790E-04 (1.390E-03)	3.170E-04 (1.310E-03)	< -1.210E-04 (1.390E-03)	5.340E-02 (3.570E-02)
MEAN		4.046E-04	5.310E-02	1.616E-02	4.790E-04	3.170E-04	-1.210E-04	5.340E-02
MINIMUM		2.020E-05	5.310E-02	8.670E-03	4.790E-04	3.170E-04	< -1.210E-04	5.340E-02
MAXIMUM		8.820E-04	5.310E-02	2.430E-02	4.790E-04	3.170E-04	< -1.210E-04	5.340E-02
2STD. ERR		4.726E-03	.000E+00	5.103E-03	.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 NO SAMPLE. LOW EXPOSURE HOURS, SAVE FOR COMPOSITE.

2242 B POND-B POND, B POND (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/02/1996	1	1.970E-01 (3.020E-02)	< -4.620E-04 (5.190E-04)	< -1.820E-04 (4.070E-04)	4.770E-04 (3.410E-04)	4.710E-03 (9.410E-03)	nra	nra	nra
06/24/1996	2	NR	NR	NR	NR	NR	nra	nra	nra
10/01/1996	3	1.100E-01 (1.810E-02)	4.060E-04 (2.740E-04)	< -7.440E-04 (3.830E-04)	2.750E-04 (2.950E-04)	1.900E-02 (6.710E-03)	nra	nra	nra
01/07/1997	4	7.030E-02 (1.510E-02)	1.560E-04 (2.900E-04)	< -1.660E-04 (3.900E-04)	< -2.320E-04 (3.970E-04)	3.680E-02 (8.870E-03)	1.400E-07 (4.530E-07)	< -6.510E-08 (2.970E-07)	1.450E-05 (1.450E-05)
MEAN		1.258E-01	3.333E-05	-3.640E-04	1.733E-04	2.017E-02	1.400E-07	-6.510E-08	1.450E-05
MINIMUM		7.030E-02	< -4.620E-04	< -7.440E-04	< -2.320E-04	4.710E-03	1.400E-07	< -6.510E-08	1.450E-05
MAXIMUM		1.970E-01	4.060E-04	< -1.660E-04	4.770E-04	3.680E-02	1.400E-07	< -6.510E-08	1.450E-05
2STD. ERR		7.483E-02	5.159E-04	3.801E-04	4.218E-04	1.856E-02	.000E+00	.000E+00	.000E+00

2242 B POND-B POND, B POND (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/02/1996		nra	nra	nra	nra
06/24/1996		nra	nra	nra	nra
10/01/1996		nra	nra	nra	nra
01/07/1997		1.420E-05 (4.250E-06)	1.360E-07 (7.600E-07)	1.120E-05 (3.770E-06)	2.554E-05 (5.732E-06)
MEAN		1.420E-05	1.360E-07	1.120E-05	2.554E-05
MINIMUM		1.420E-05	1.360E-07	1.120E-05	2.554E-05
MAXIMUM		1.420E-05	1.360E-07	1.120E-05	2.554E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

- 1 Comment for sample 2244 on 01/09/1996 NO SAMPLE. PUMP OUT, SAVE FOR COMPOSITE.
- Comment for sample 2244 on 02/20/1996 NO SAMPLE. DO NOT INCLUDE IN COMPOSITE.
- 2 Comment for sample 2244 on 04/16/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 04/30/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 05/14/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 05/28/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 06/11/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 06/24/1996 NO SAMPLE. POWER OUTAGE.
- 3 Comment for sample 2244 on 07/09/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2244 on 07/23/1996 NO SAMPLE. POWER OUTAGE.
- 4 Comment for sample 2244 on 11/12/1996 NO SAMPLE. LOW EXPOSURE HOURS, SAVE FOR COMPOSITE.
- Comment for sample 2245 on 01/09/1996 NO SAMPLE. PUMP OUT, SAVE FOR COMPOSITE.
- Comment for sample 2245 on 02/20/1996 NO SAMPLE. DO NOT INCLUDE IN COMPOSITE.
- Comment for sample 2245 on 04/16/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 04/30/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 05/14/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 05/28/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 06/11/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 06/24/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 07/09/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 07/23/1996 NO SAMPLE. POWER OUTAGE.
- Comment for sample 2245 on 11/12/1996 NO SAMPLE. LOW EXPOSURE HOURS, SAVE FOR COMPOSITE.

2248 ARMY LOOP CAMP

2249 200 TEL. EXCHANGE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/09/1996		1.160E-03 (4.510E-04)	6.100E-02 (6.600E-03)	01/09/1996		1.150E-03 (4.610E-04)	5.850E-02 (5.970E-03)
01/23/1996		4.920E-04 (3.040E-04)	2.380E-02 (2.840E-03)	01/23/1996		1.300E-04 (2.000E-04)	2.000E-02 (2.560E-03)
02/06/1996		7.040E-04 (3.510E-04)	4.810E-02 (5.000E-03)	02/06/1996		7.660E-04 (3.600E-04)	4.980E-02 (5.160E-03)
02/20/1996		5.330E-04 (3.160E-04)	2.860E-02 (3.300E-03)	02/20/1996		3.740E-04 (2.670E-04)	2.660E-02 (3.100E-03)
03/05/1996		3.330E-04 (2.730E-04)	1.850E-02 (2.490E-03)	03/05/1996		4.740E-04 (2.840E-04)	2.190E-02 (2.700E-03)
03/19/1996		4.580E-04 (2.760E-04)	1.860E-02 (2.380E-03)	03/19/1996		3.040E-04 (2.450E-04)	1.970E-02 (2.610E-03)
04/02/1996		3.190E-04 (2.650E-04)	1.870E-02 (2.390E-03)	04/02/1996		4.210E-04 (3.030E-04)	1.930E-02 (2.440E-03)
04/16/1996		2.600E-04 (2.400E-04)	1.190E-02 (1.820E-03)	04/16/1996		3.360E-04 (2.650E-04)	1.150E-02 (1.810E-03)
04/30/1996		3.070E-04 (2.490E-04)	6.780E-03 (1.360E-03)	04/30/1996		7.860E-05 (1.990E-04)	7.350E-03 (1.380E-03)
05/14/1996		5.770E-04 (3.390E-04)	1.470E-02 (2.050E-03)	05/14/1996		6.110E-04 (3.490E-04)	1.710E-02 (2.350E-03)
05/28/1996		2.870E-04 (2.560E-04)	9.380E-03 (1.580E-03)	05/28/1996		2.110E-04 (2.410E-04)	9.420E-03 (1.610E-03)
06/11/1996		5.430E-04 (3.030E-04)	1.380E-02 (1.960E-03)	06/11/1996		2.440E-04 (2.410E-04)	1.170E-02 (1.830E-03)
06/24/1996		4.750E-04 (3.090E-04)	1.260E-02 (1.940E-03)	06/24/1996		3.910E-04 (2.900E-04)	1.230E-02 (1.950E-03)
07/09/1996		2.430E-04 (2.120E-04)	1.030E-02 (1.580E-03)	07/09/1996		1.780E-04 (2.040E-04)	1.230E-02 (1.860E-03)
07/23/1996		2.660E-04 (2.460E-04)	1.410E-02 (1.990E-03)	07/23/1996		3.940E-04 (2.780E-04)	1.480E-02 (2.150E-03)
08/07/1996		4.710E-04 (2.730E-04)	1.690E-02 (2.200E-03)	08/07/1996		4.420E-04 (2.630E-04)	1.710E-02 (2.290E-03)
08/20/1996		9.120E-04 (4.130E-04)	1.690E-02 (2.330E-03)	08/20/1996		1.340E-03 (5.020E-04)	1.710E-02 (2.410E-03)
09/03/1996		9.080E-04 (3.780E-04)	2.660E-02 (3.260E-03)	09/03/1996		5.440E-04 (3.110E-04)	2.360E-02 (2.830E-03)

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
AIR - PARTICULATE FILTER Page 20

2248 ARMY LOOP CAMP

2249 200 TEL. EXCHANGE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/17/1996	1	4.870E-04	1.810E-02	09/17/1996		3.130E-04	1.490E-02
		{ 3.750E-04}	{ 2.580E-03}			{ 2.540E-04}	{ 2.160E-03}
10/01/1996		5.350E-04	1.450E-02	10/01/1996		1.320E-04	1.570E-02
		{ 3.160E-04}	{ 2.110E-03}			{ 2.380E-04}	{ 2.130E-03}
10/15/1996		3.760E-04	1.830E-02	10/15/1996		7.800E-04	2.060E-02
		{ 2.790E-04}	{ 2.360E-03}			{ 3.660E-04}	{ 2.580E-03}
10/29/1996		1.930E-04	1.170E-02	10/29/1996		2.500E-04	1.440E-02
		{ 2.310E-04}	{ 1.770E-03}			{ 2.350E-04}	{ 2.100E-03}
11/12/1996		1.030E-03	2.180E-02	11/12/1996		5.180E-04	2.350E-02
		{ 4.000E-04}	{ 2.790E-03}			{ 2.990E-04}	{ 2.830E-03}
11/25/1996		2.790E-04	1.820E-02	11/25/1996		6.630E-04	2.260E-02
		{ 2.570E-04}	{ 2.410E-03}			{ 3.370E-04}	{ 2.800E-03}
12/10/1996		2.150E-04	1.140E-02	12/10/1996		3.900E-04	1.110E-02
		{ 2.160E-04}	{ 1.720E-03}			{ 2.720E-04}	{ 1.730E-03}
12/20/1996		5.470E-04	1.560E-02	12/20/1996		4.150E-04	1.560E-02
		{ 3.860E-04}	{ 2.470E-03}			{ 3.810E-04}	{ 2.400E-03}
01/07/1997		9.220E-04	2.200E-02	01/07/1997		8.750E-04	2.510E-02
		{ 3.330E-04}	{ 2.590E-03}			{ 3.290E-04}	{ 2.950E-03}
MEAN		5.123E-04	1.937E-02	MEAN		4.713E-04	1.976E-02
MINIMUM		1.930E-04	6.780E-03	MINIMUM		7.860E-05	7.350E-03
MAXIMUM		1.160E-03	6.100E-02	MAXIMUM		1.340E-03	5.850E-02
2STD. ERR		5.558E-03	4.278E-03	2STD. ERR		5.562E-03	4.292E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 OBSERVED ZERO END FLOW BUT USED 1.5 CFM.

2246 200 W SOUTH EAST-ARMY LOOP CAMP, 200 TEL. EXCHANGE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/02/1996		1.590E-01 (2.190E-02)	3.290E-04 (2.220E-04)	< -4.630E-05 (2.580E-04)	< -2.040E-04 (3.010E-04)	1.440E-02 (7.730E-03)	nra	nra	nra
06/24/1996		2.110E-01 (2.940E-02)	2.270E-04 (3.740E-04)	< -5.860E-05 (3.900E-04)	5.590E-05 (3.510E-04)	8.450E-04 (1.010E-02)	nra	nra	nra
10/01/1996	1	2.460E-01 (3.250E-02)	2.310E-04 (2.790E-04)	< -1.920E-04 (2.730E-04)	3.570E-04 (2.840E-04)	2.570E-03 (7.010E-03)	nra	nra	nra
01/07/1997		9.060E-02 (1.520E-02)	9.000E-05 (3.640E-04)	< -2.520E-04 (2.830E-04)	< -1.000E-04 (3.290E-04)	3.220E-02 (7.520E-03)	< -1.540E-07 (3.860E-07)	2.730E-06 (1.370E-06)	6.360E-05 (2.120E-05)
MEAN		1.767E-01	2.193E-04	-1.372E-04	2.723E-05	1.250E-02	-1.540E-07	2.730E-06	6.360E-05
MINIMUM		9.060E-02	9.000E-05	< -2.520E-04	< -2.040E-04	8.450E-04	< -1.540E-07	2.730E-06	6.360E-05
MAXIMUM		2.460E-01	3.290E-04	< -4.630E-05	3.570E-04	3.220E-02	< -1.540E-07	2.730E-06	6.360E-05
2STD. ERR		6.759E-02	9.823E-05	1.010E-04	2.444E-04	1.445E-02	.000E+00	.000E+00	.000E+00

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
AIR - COMPOSITED SAMPLES Page 22

2246 200 W SOUTH EAST-ARMY LOOP CAMP, 200 TEL. EXCHANGE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/02/1996		nra	nra	nra	nra
06/24/1996		nra	nra	nra	nra
10/01/1996		nra	nra	nra	nra
01/07/1997		2.850E-05 (4.800E-06)	1.170E-06 (8.130E-07)	3.010E-05 (4.990E-06)	5.977E-05 (6.971E-06)
MEAN		2.850E-05	1.170E-06	3.010E-05	5.977E-05
MINIMUM		2.850E-05	1.170E-06	3.010E-05	5.977E-05
MAXIMUM		2.850E-05	1.170E-06	3.010E-05	5.977E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 Comment for sample 2248 on 09/17/1996
OBSERVED ZERO END FLOW BUT USED 1.5 CFM.

2252 200 W SE

2253 200 W SE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/09/1996		1.890E-03	5.370E-02
		{ 5.730E-04}	{ 5.560E-03}
01/23/1996		2.960E-04	1.980E-02
		{ 2.360E-04}	{ 2.440E-03}
02/06/1996		5.630E-04	5.120E-02
		{ 3.130E-04}	{ 5.600E-03}
02/20/1996		2.340E-04	2.520E-02
		{ 2.310E-04}	{ 3.110E-03}
03/05/1996		1.320E-03	1.730E-02
		{ 4.820E-04}	{ 2.340E-03}
03/19/1996		6.130E-04	1.690E-02
		{ 3.210E-04}	{ 2.320E-03}
04/02/1996		4.870E-04	1.660E-02
		{ 3.090E-04}	{ 2.300E-03}
04/16/1996		5.650E-04	1.070E-02
		{ 3.220E-04}	{ 1.680E-03}
04/30/1996		5.470E-05	6.220E-03
		{ 1.810E-04}	{ 1.280E-03}
05/14/1996		4.400E-04	1.540E-02
		{ 2.950E-04}	{ 2.130E-03}
05/28/1996	<	-6.580E-05	8.060E-03
		{ 1.320E-04}	{ 1.440E-03}
06/11/1996		4.480E-04	1.460E-02
		{ 2.930E-04}	{ 2.030E-03}
06/24/1996		7.350E-04	1.140E-02
		{ 3.630E-04}	{ 1.850E-03}
07/09/1996		6.580E-04	1.130E-02
		{ 3.100E-04}	{ 1.750E-03}
07/23/1996		5.000E-04	1.740E-02
		{ 2.980E-04}	{ 2.380E-03}
08/07/1996		7.360E-04	1.600E-02
		{ 3.390E-04}	{ 2.220E-03}
08/20/1996		1.100E-03	1.760E-02
		{ 4.330E-04}	{ 2.470E-03}
09/03/1996		1.330E-03	1.870E-02
		{ 4.680E-04}	{ 2.500E-03}

2252 200 W SE

2253 200 W SE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/17/1996		6.930E-04	1.580E-02
		(3.420E-04)	(2.220E-03)
10/01/1996		7.220E-04	1.740E-02
		(3.410E-04)	(2.290E-03)
10/15/1996		5.290E-04	1.920E-02
		(3.130E-04)	(2.450E-03)
10/29/1996		2.740E-04	1.260E-02
		(2.370E-04)	(1.910E-03)
11/12/1996		3.860E-04	2.220E-02
		(2.960E-04)	(2.760E-03)
11/25/1996		6.180E-04	1.600E-02
		(3.430E-04)	(2.290E-03)
12/10/1996		9.380E-05	9.160E-03
		(2.140E-04)	(1.490E-03)
12/20/1996		4.660E-04	1.570E-02
		(3.520E-04)	(2.410E-03)
01/07/1997		1.000E-03	2.560E-02
		(3.500E-04)	(2.850E-03)
MEAN		6.180E-04	1.858E-02
MINIMUM	<	-6.580E-05	6.220E-03
MAXIMUM		1.890E-03	5.370E-02
2STD. ERR		5.299E-03	4.153E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

2250 200 WEST-200 W SE,200 W SE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/02/1996		1.420E-01 { 2.090E-02}	< -1.960E-05 { 3.730E-04}	5.720E-05 { 2.770E-04}	2.730E-05 { 2.680E-04}	6.850E-03 { 7.120E-03}	nra	nra	nra
06/24/1996		2.080E-01 { 2.980E-02}	< -2.340E-04 { 4.490E-04}	3.610E-05 { 3.490E-04}	2.640E-04 { 2.980E-04}	1.310E-02 { 8.720E-03}	nra	nra	nra
10/01/1996	1	1.840E-01 { 2.520E-02}	6.570E-05 { 2.940E-04}	< -2.250E-04 { 3.200E-04}	3.190E-04 { 2.800E-04}	8.810E-03 { 7.380E-03}	nra	nra	nra
01/07/1997		3.880E-02 { 7.590E-03}	2.760E-04 { 2.980E-04}	< -1.340E-04 { 2.980E-04}	< -9.720E-05 { 2.960E-04}	5.730E-03 { 7.360E-03}	3.850E-07 { 3.790E-07}	9.020E-06 { 1.900E-06}	3.010E-05 { 1.240E-05}
MEAN		1.432E-01	2.203E-05	-6.643E-05	1.283E-04	8.623E-03	3.850E-07	9.020E-06	3.010E-05
MINIMUM		3.880E-02	< -2.340E-04	< -2.250E-04	< -9.720E-05	5.730E-03	3.850E-07	9.020E-06	3.010E-05
MAXIMUM		2.080E-01	2.760E-04	5.720E-05	3.190E-04	1.310E-02	3.850E-07	9.020E-06	3.010E-05
2STD. ERR		7.475E-02	2.111E-04	1.360E-04	1.965E-04	3.245E-03	.000E+00	.000E+00	.000E+00

2250 200 WEST-200 W SE, 200 W SE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/02/1996		nra	nra	nra	nra
06/24/1996		nra	nra	nra	nra
10/01/1996		nra	nra	nra	nra
01/07/1997		8.070E-06 (2.150E-06)	< -1.440E-07 (3.670E-07)	8.300E-06 (2.210E-06)	1.623E-05 (3.105E-06)
MEAN		8.070E-06	-1.440E-07	8.300E-06	1.623E-05
MINIMUM		8.070E-06	< -1.440E-07	8.300E-06	1.623E-05
MAXIMUM		8.070E-06	< -1.440E-07	8.300E-06	1.623E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 Comment for sample 2253 on 09/03/1996
 DAMAGED SPOT ON FILTER.

2256 300 WATER INTAKE

OFF DATE	COM	BETA PCI/M3
01/17/1996		4.680E-02 (4.970E-03)
01/31/1996	1	3.590E-02 (3.930E-03)
02/14/1996		5.490E-02 (5.590E-03)
02/28/1996		3.000E-02 (3.570E-03)
03/13/1996		2.850E-02 (3.270E-03)
03/27/1996		1.570E-02 (2.120E-03)
04/10/1996		1.800E-02 (2.370E-03)
04/24/1996		5.830E-03 (1.250E-03)
05/08/1996		1.230E-02 (1.880E-03)
05/22/1996		1.590E-02 (2.180E-03)
06/05/1996		1.320E-02 (1.900E-03)
06/19/1996		1.430E-02 (2.000E-03)
07/02/1996		1.190E-02 (1.910E-03)
07/17/1996		1.750E-02 (2.350E-03)
07/31/1996		2.070E-02 (2.710E-03)
08/14/1996		1.860E-02 (2.400E-03)
08/28/1996		2.110E-02 (2.600E-03)
09/11/1996		1.600E-02 (2.150E-03)

2257 300 SOUTH GATE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/17/1996		1.260E-03	4.130E-02
01/31/1996	2	(3.950E-04)	(4.190E-03)
02/14/1996		8.260E-04	3.080E-02
02/28/1996		(3.710E-04)	(3.650E-03)
03/13/1996		9.660E-04	5.500E-02
03/27/1996		(3.820E-04)	(5.740E-03)
04/10/1996		5.670E-04	3.230E-02
04/24/1996		(3.150E-04)	(3.810E-03)
05/08/1996		4.380E-04	2.870E-02
05/22/1996		(2.840E-04)	(3.280E-03)
06/05/1996		4.200E-04	1.720E-02
06/19/1996		(2.720E-04)	(2.260E-03)
07/02/1996		4.070E-04	1.610E-02
07/17/1996		(2.800E-04)	(2.200E-03)
07/31/1996		3.650E-04	6.800E-03
08/14/1996		(2.620E-04)	(1.320E-03)
08/28/1996		2.120E-04	1.280E-02
09/11/1996		(2.430E-04)	(1.950E-03)
		8.040E-04	1.500E-02
		(3.800E-04)	(2.080E-03)
		5.400E-04	1.340E-02
		(3.200E-04)	(1.980E-03)
		3.780E-04	1.190E-02
		(2.550E-04)	(1.600E-03)
		4.720E-04	1.200E-02
		(3.100E-04)	(1.890E-03)
		3.340E-04	1.500E-02
		(2.530E-04)	(2.060E-03)
		2.790E-04	1.550E-02
		(2.150E-04)	(2.010E-03)
		5.180E-04	1.390E-02
		(2.900E-04)	(1.970E-03)
		5.700E-04	1.970E-02
		(3.240E-04)	(2.530E-03)
		3.870E-04	1.350E-02
		(2.750E-04)	(1.970E-03)

2256 300 WATER INTAKE

2257 300 SOUTH GATE

OFF DATE	COM	BETA PCI/M3
09/25/1996		1.250E-02 (1.860E-03)
10/09/1996		5.580E-05 (6.680E-04)
10/23/1996		1.290E-02 (1.880E-03)
11/06/1996		1.930E-02 (2.460E-03)
11/20/1996		2.010E-02 (2.520E-03)
12/04/1996		1.940E-02 (2.470E-03)
12/18/1996		8.440E-03 (1.480E-03)
01/06/1997		2.840E-02 (3.240E-03)

MEAN		1.993E-02
MINIMUM		5.580E-05
MAXIMUM		5.490E-02
2STD. ERR		4.488E-03

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/25/1996		3.800E-04 (2.920E-04)	1.110E-02 (1.730E-03)
10/09/1996		6.810E-04 (3.550E-04)	2.310E-02 (2.930E-03)
10/23/1996		3.330E-04 (2.630E-04)	1.280E-02 (1.930E-03)
11/06/1996		4.670E-04 (2.980E-04)	1.750E-02 (2.380E-03)
11/20/1996		4.300E-04 (2.880E-04)	1.640E-02 (2.230E-03)
12/04/1996		4.360E-04 (2.820E-04)	1.860E-02 (2.490E-03)
12/18/1996		5.120E-05 (1.770E-04)	7.310E-03 (1.370E-03)
01/06/1997		1.120E-03 (3.620E-04)	2.420E-02 (2.680E-03)

MEAN		5.247E-04	1.930E-02
MINIMUM		5.120E-05	6.800E-03
MAXIMUM		1.260E-03	5.500E-02
2STD. ERR		5.452E-03	4.241E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 SNOW ON FILTER.
 2 SNOW ON FILTER.

2254 300 AREA-300 WATER INTAKE,300 SOUTH GATE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/27/1996	1	1.410E-01 (2.250E-02)	< -2.900E-04 (3.840E-04)	< -8.280E-05 (3.420E-04)	1.490E-04 (2.530E-04)	2.020E-02 (6.120E-03)	nra	nra	nra
07/02/1996		2.130E-01 (2.820E-02)	< -9.240E-05 (3.510E-04)	1.120E-04 (2.360E-04)	7.190E-06 (2.190E-04)	9.060E-03 (8.190E-03)	nra	nra	nra
10/09/1996		2.190E-01 (2.930E-02)	< -9.320E-05 (3.210E-04)	8.950E-05 (2.600E-04)	2.830E-04 (2.890E-04)	3.800E-03 (6.390E-03)	nra	nra	nra
01/06/1997		8.890E-02 (1.610E-02)	< -1.810E-04 (4.290E-04)	< -1.310E-04 (3.750E-04)	1.730E-04 (3.010E-04)	8.700E-03 (8.230E-03)	< -9.760E-09 (2.140E-07)	3.060E-07 (3.780E-07)	3.110E-05 (1.280E-05)
MEAN		1.655E-01	-1.642E-04	-3.075E-06	1.530E-04	1.044E-02	-9.760E-09	3.060E-07	3.110E-05
MINIMUM		8.890E-02	< -2.900E-04	< -1.310E-04	7.190E-06	3.800E-03	< -9.760E-09	3.060E-07	3.110E-05
MAXIMUM		2.190E-01	< -9.240E-05	1.120E-04	2.830E-04	2.020E-02	< -9.760E-09	3.060E-07	3.110E-05
2STD. ERR		6.215E-02	9.364E-05	1.218E-04	1.134E-04	6.935E-03	.000E+00	.000E+00	.000E+00

2254 300 AREA-300 WATER INTAKE, 300 SOUTH GATE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/27/1996		nra	nra	nra	nra
07/02/1996		nra	nra	nra	nra
10/09/1996		nra	nra	nra	nra
01/06/1997		1.930E-05 (3.970E-06)	4.150E-07 (7.400E-07)	1.400E-05 (3.260E-06)	3.372E-05 (5.190E-06)
MEAN		1.930E-05	4.150E-07	1.400E-05	3.372E-05
MINIMUM		1.930E-05	4.150E-07	1.400E-05	3.372E-05
MAXIMUM		1.930E-05	4.150E-07	1.400E-05	3.372E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2256 on 01/31/1996

SNOW ON FILTER.

Comment for sample 2257 on 01/31/1996

SNOW ON FILTER.

2260 300 TRENCH

2261 300 NE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/17/1996	1	NR	NR	01/17/1996		8.100E-04	4.540E-02
01/31/1996	2	7.720E-04	3.210E-02	01/31/1996	5	{ 3.100E-04}	{ 4.560E-03}
02/14/1996	3	{ 3.560E-04}	{ 3.600E-03}	02/14/1996		4.340E-04	3.090E-02
02/28/1996	4	NR	NR	02/28/1996		{ 2.940E-04}	{ 3.560E-03}
03/13/1996		4.700E-04	2.730E-02	02/28/1996		1.050E-03	5.500E-02
03/27/1996		{ 3.290E-04}	{ 3.240E-03}	02/28/1996		{ 4.030E-04}	{ 5.610E-03}
04/10/1996		3.720E-04	1.550E-02	02/28/1996		4.200E-04	3.010E-02
04/24/1996		{ 2.640E-04}	{ 2.200E-03}	02/28/1996		{ 3.060E-04}	{ 3.420E-03}
05/08/1996		6.880E-04	1.850E-02	02/28/1996		9.020E-04	2.730E-02
05/22/1996		{ 3.320E-04}	{ 2.400E-03}	02/28/1996		{ 3.890E-04}	{ 3.330E-03}
06/05/1996		1.790E-04	6.930E-03	02/28/1996		5.110E-04	1.640E-02
06/19/1996		{ 2.220E-04}	{ 1.340E-03}	02/28/1996		{ 2.990E-04}	{ 2.210E-03}
07/02/1996		4.240E-04	1.210E-02	02/28/1996		7.220E-04	1.890E-02
07/17/1996		{ 2.730E-04}	{ 1.790E-03}	02/28/1996		{ 3.640E-04}	{ 2.540E-03}
08/14/1996		6.880E-04	1.480E-02	02/28/1996		4.340E-05	6.050E-03
08/28/1996		{ 3.470E-04}	{ 2.140E-03}	02/28/1996		{ 2.020E-04}	{ 1.300E-03}
09/11/1996		4.150E-04	1.240E-02	02/28/1996		2.390E-04	1.150E-02
		{ 2.930E-04}	{ 1.840E-03}	02/28/1996		{ 2.370E-04}	{ 1.760E-03}
		2.260E-04	1.400E-02	02/28/1996		8.410E-04	1.390E-02
		{ 2.280E-04}	{ 1.910E-03}	02/28/1996		{ 3.700E-04}	{ 2.050E-03}
		1.370E-04	1.140E-02	02/28/1996		5.850E-04	1.160E-02
		{ 2.130E-04}	{ 1.870E-03}	02/28/1996		{ 3.150E-04}	{ 1.790E-03}
		6.180E-04	1.550E-02	02/28/1996		4.080E-05	1.390E-02
		{ 3.060E-04}	{ 2.150E-03}	02/28/1996		{ 2.100E-04}	{ 1.870E-03}
		3.750E-04	1.980E-02	02/28/1996		4.120E-04	1.320E-02
		{ 2.670E-04}	{ 2.540E-03}	02/28/1996		{ 2.950E-04}	{ 1.970E-03}
		6.770E-04	1.790E-02	02/28/1996		4.090E-04	1.450E-02
		{ 3.340E-04}	{ 2.370E-03}	02/28/1996		{ 2.660E-04}	{ 1.980E-03}
		8.510E-04	2.120E-02	02/28/1996		3.290E-04	1.810E-02
		{ 3.670E-04}	{ 2.710E-03}	02/28/1996		{ 2.510E-04}	{ 2.340E-03}
		4.350E-04	1.650E-02	02/28/1996		4.790E-04	9.120E-03
		{ 2.950E-04}	{ 2.240E-03}	02/28/1996		{ 3.920E-04}	{ 2.000E-03}
				02/28/1996		6.950E-04	2.130E-02
				02/28/1996		{ 3.430E-04}	{ 2.630E-03}
				02/28/1996		4.080E-04	1.450E-02
				02/28/1996		{ 2.870E-04}	{ 2.030E-03}

2260 300 TRENCH

2261 300 NE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/25/1996		2.970E-04 { 2.440E-04}	1.110E-02 { 1.750E-03}	09/25/1996		3.830E-04 { 2.620E-04}	1.190E-02 { 1.870E-03}
10/09/1996		4.180E-04 { 2.760E-04}	2.480E-02 { 2.940E-03}	10/09/1996		4.240E-04 { 2.750E-04}	2.340E-02 { 2.820E-03}
10/23/1996		7.520E-04 { 3.470E-04}	1.360E-02 { 2.020E-03}	10/23/1996		2.510E-04 { 2.470E-04}	1.300E-02 { 1.920E-03}
11/06/1996		6.030E-04 { 3.340E-04}	2.090E-02 { 2.600E-03}	11/06/1996		5.340E-04 { 3.150E-04}	2.050E-02 { 2.610E-03}
11/20/1996		6.640E-04 { 3.290E-04}	1.740E-02 { 2.380E-03}	11/20/1996		4.750E-04 { 2.850E-04}	1.770E-02 { 2.400E-03}
12/04/1996		5.760E-04 { 3.030E-04}	2.070E-02 { 2.580E-03}	12/04/1996		5.970E-04 { 3.180E-04}	2.400E-02 { 2.930E-03}
12/18/1996		7.800E-04 { 3.500E-04}	9.000E-03 { 1.580E-03}	12/18/1996		1.750E-04 { 2.190E-04}	7.580E-03 { 1.430E-03}
01/06/1997		1.240E-03 { 4.590E-04}	3.750E-02 { 4.070E-03}	01/06/1997	7	NR	NR
MEAN		5.503E-04	1.787E-02	MEAN		4.868E-04	1.959E-02
MINIMUM		1.370E-04	6.930E-03	MINIMUM		4.080E-05	6.050E-03
MAXIMUM		1.240E-03	3.750E-02	MAXIMUM		1.050E-03	5.500E-02
2STD. ERR		6.243E-03	5.036E-03	2STD. ERR		5.713E-03	4.542E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 NO SAMPLE. SYSTEM UNPLUGGED.

2 SNOW ON FILTER.

3 NO SAMPLE. SAVE FOR COMPOSITE.

4 NO SAMPLE. POWER OUTAGE.

5 SNOW ON FILTER.

6 HOUR METER BROKEN, ESTIMATED HOURS.

7 NO SAMPLE. HOUR METER RUNNING BUT NO AIR FLOW.

2258 300 NE-300 TRENCH, 300 NE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/27/1996	1	1.820E-01 { 2.910E-02 }	< -1.020E-04 { 5.420E-04 }	< -2.860E-04 { 4.400E-04 }	5.740E-04 { 4.180E-04 }	1.040E-02 { 1.030E-02 }	nra	nra	nra
07/02/1996		2.110E-01 { 2.820E-02 }	2.780E-04 { 2.120E-04 }	1.430E-04 { 2.620E-04 }	< -2.010E-04 { 3.300E-04 }	8.130E-03 { 7.970E-03 }	nra	nra	nra
10/09/1996	2	2.350E-01 { 3.040E-02 }	< -1.680E-05 { 3.450E-04 }	< -8.520E-06 { 2.690E-04 }	1.190E-04 { 2.740E-04 }	9.280E-03 { 6.410E-03 }	nra	nra	nra
01/06/1997	3	6.140E-02 { 1.280E-02 }	7.650E-05 { 2.430E-04 }	< -1.490E-04 { 2.590E-04 }	< -3.950E-04 { 3.120E-04 }	1.960E-02 { 6.000E-03 }	8.670E-08 { 2.800E-07 }	8.950E-08 { 2.190E-07 }	1.310E-05 { 9.670E-06 }
MEAN		1.724E-01	5.893E-05	-7.513E-05	2.425E-05	1.185E-02	8.670E-08	8.950E-08	1.310E-05
MINIMUM		6.140E-02	< -1.020E-04	< -2.860E-04	< -3.950E-04	8.130E-03	8.670E-08	8.950E-08	1.310E-05
MAXIMUM		2.350E-01	2.780E-04	1.430E-04	5.740E-04	1.960E-02	8.670E-08	8.950E-08	1.310E-05
2STD. ERR		7.708E-02	1.632E-04	1.843E-04	4.234E-04	5.247E-03	.000E+00	.000E+00	.000E+00

2258 300 NE-300 TRENCH, 300 NE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/27/1996		nra	nra	nra	nra
07/02/1996		nra	nra	nra	nra
10/09/1996		nra	nra	nra	nra
01/06/1997		3.280E-05 (7.220E-06)	9.350E-07 (1.500E-06)	2.330E-05 (5.850E-06)	5.704E-05 (9.413E-06)
MEAN		3.280E-05	9.350E-07	2.330E-05	5.704E-05
MINIMUM		3.280E-05	9.350E-07	2.330E-05	5.704E-05
MAXIMUM		3.280E-05	9.350E-07	2.330E-05	5.704E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2260 on 01/17/1996

NO SAMPLE. SYSTEM UNPLUGGED.

Comment for sample 2260 on 01/31/1996

SNOW ON FILTER.

Comment for sample 2260 on 02/14/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2260 on 02/28/1996

NO SAMPLE. POWER OUTAGE.

Comment for sample 2261 on 01/31/1996

SNOW ON FILTER.

2 Comment for sample 2261 on 07/31/1996

HOOR METER BROKEN, ESTIMATED HOORS.

3 Comment for sample 2261 on 01/06/1997

NO SAMPLE. HOOR METER RUNNING BUT NO AIR FLOW.

2264 400 E

2265 400 W

2266 400 S

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/16/1996		4.650E-04	3.680E-02	01/16/1996		5.710E-04	3.780E-02	01/16/1996		6.610E-04	3.600E-02
		{ 2.500E-04}	{ 3.840E-03}			{ 2.750E-04}	{ 4.020E-03}			{ 2.990E-04}	{ 3.760E-03}
01/30/1996		2.020E-03	3.050E-02	01/30/1996		1.090E-03	3.050E-02	01/30/1996		1.430E-03	3.230E-02
		{ 5.760E-04}	{ 3.620E-03}			{ 4.170E-04}	{ 3.450E-03}			{ 4.760E-04}	{ 3.800E-03}
02/13/1996		1.090E-03	5.360E-02	02/13/1996		1.140E-03	5.520E-02	02/13/1996		1.120E-03	5.720E-02
		{ 4.180E-04}	{ 5.480E-03}			{ 4.070E-04}	{ 5.600E-03}			{ 4.100E-04}	{ 6.160E-03}
02/27/1996		6.740E-04	2.900E-02	02/27/1996		1.180E-03	3.190E-02	02/27/1996		9.990E-04	3.020E-02
		{ 3.410E-04}	{ 3.480E-03}			{ 4.340E-04}	{ 3.580E-03}			{ 4.010E-04}	{ 3.620E-03}
03/12/1996	1	1.440E-03	3.430E-02	03/12/1996		8.010E-04	2.790E-02	03/12/1996		6.870E-04	2.880E-02
		{ 6.610E-04}	{ 4.280E-03}			{ 3.670E-04}	{ 3.390E-03}			{ 3.240E-04}	{ 3.460E-03}
03/26/1996	2	NR	NR	03/26/1996		5.850E-04	1.450E-02	03/26/1996		4.510E-04	1.480E-02
						{ 3.160E-04}	{ 2.060E-03}			{ 3.040E-04}	{ 2.090E-03}
04/09/1996	3	NR	NR	04/09/1996	15	5.580E-04	1.890E-02	04/09/1996	16	2.920E-04	1.960E-02
						{ 3.020E-04}	{ 2.540E-03}			{ 2.500E-04}	{ 2.510E-03}
04/23/1996	4	NR	NR	04/23/1996		7.420E-06	6.130E-03	04/23/1996		2.900E-04	5.990E-03
						{ 1.530E-04}	{ 1.260E-03}			{ 2.700E-04}	{ 1.300E-03}
05/07/1996	5	NR	NR	05/07/1996		4.890E-04	1.110E-02	05/07/1996		3.030E-04	9.760E-03
						{ 3.100E-04}	{ 1.720E-03}			{ 2.650E-04}	{ 1.600E-03}
05/21/1996	6	NR	NR	05/21/1996		6.510E-04	1.430E-02	05/21/1996		3.980E-04	1.250E-02
						{ 3.490E-04}	{ 2.020E-03}			{ 2.800E-04}	{ 1.870E-03}
06/04/1996	7	NR	NR	06/04/1996		2.380E-04	1.250E-02	06/04/1996		5.940E-04	1.210E-02
						{ 2.490E-04}	{ 1.900E-03}			{ 3.190E-04}	{ 1.800E-03}
06/18/1996	8	NR	NR	06/18/1996		4.860E-04	1.430E-02	06/18/1996		2.060E-04	2.430E-03
						{ 3.000E-04}	{ 1.920E-03}			{ 2.690E-04}	{ 8.490E-04}
07/01/1996	9	NR	NR	07/01/1996		2.740E-04	1.220E-02	07/01/1996		4.020E-04	1.020E-02
						{ 2.550E-04}	{ 1.870E-03}			{ 2.830E-04}	{ 1.710E-03}
07/16/1996	10	NR	NR	07/16/1996		7.930E-05	1.430E-02	07/16/1996		2.130E-04	1.530E-02
						{ 1.790E-04}	{ 1.970E-03}			{ 2.150E-04}	{ 2.050E-03}
07/30/1996	11	NR	NR	07/30/1996		3.560E-04	1.690E-02	07/30/1996		3.570E-04	1.770E-02
						{ 2.590E-04}	{ 2.230E-03}			{ 2.530E-04}	{ 2.360E-03}
08/14/1996	12	NR	NR	08/14/1996		3.440E-04	1.460E-02	08/14/1996		2.110E-04	1.340E-02
						{ 2.580E-04}	{ 2.070E-03}			{ 1.980E-04}	{ 1.860E-03}
08/27/1996	13	NR	NR	08/27/1996		6.020E-04	2.360E-02	08/27/1996		6.320E-04	1.840E-02
						{ 3.440E-04}	{ 2.950E-03}			{ 3.410E-04}	{ 2.470E-03}
09/10/1996	14	NR	NR	09/10/1996		4.320E-04	1.470E-02	09/10/1996		2.280E-04	1.550E-02
						{ 2.930E-04}	{ 2.070E-03}			{ 2.300E-04}	{ 2.210E-03}

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
AIR - PARTICULATE FILTER Page 36

2264 400 E

2265 400 W

2266 400 S

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3	OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/24/1996	17	NR	NR	09/24/1996		4.210E-04	1.280E-02	09/24/1996		4.810E-04	1.260E-02
						{ 2.740E-04}	{ 1.880E-03}			{ 2.880E-04}	{ 1.870E-03}
10/08/1996	18	NR	NR	10/08/1996		5.890E-04	2.420E-02	10/08/1996		6.870E-04	2.360E-02
						{ 3.360E-04}	{ 2.890E-03}			{ 3.660E-04}	{ 3.030E-03}
10/22/1996		5.710E-04	1.390E-02	10/22/1996		3.130E-04	1.560E-02	10/22/1996		4.070E-04	1.340E-02
		{ 3.170E-04}	{ 1.970E-03}			{ 2.510E-04}	{ 2.120E-03}			{ 2.900E-04}	{ 2.020E-03}
11/05/1996		3.620E-04	2.240E-02	11/05/1996		7.880E-04	2.390E-02	11/05/1996		6.290E-04	2.370E-02
		{ 2.600E-04}	{ 2.730E-03}			{ 3.730E-04}	{ 2.860E-03}			{ 3.360E-04}	{ 2.850E-03}
11/19/1996		5.820E-04	1.890E-02	11/19/1996		4.240E-04	2.020E-02	11/19/1996		6.780E-04	1.940E-02
		{ 3.190E-04}	{ 2.520E-03}			{ 2.750E-04}	{ 2.640E-03}			{ 3.280E-04}	{ 2.460E-03}
12/03/1996		4.830E-04	2.040E-02	12/03/1996		2.760E-04	2.150E-02	12/03/1996		3.720E-04	2.140E-02
		{ 3.090E-04}	{ 2.560E-03}			{ 2.390E-04}	{ 2.640E-03}			{ 2.560E-04}	{ 2.640E-03}
12/17/1996		2.440E-04	6.890E-03	12/17/1996		8.460E-05	6.780E-03	12/17/1996		2.150E-04	7.520E-03
		{ 2.400E-04}	{ 1.360E-03}			{ 1.760E-04}	{ 1.350E-03}			{ 2.210E-04}	{ 1.380E-03}
12/31/1996		1.120E-03	3.220E-02	12/31/1996	19	NR	NR	12/31/1996		6.270E-04	3.620E-02
		{ 4.410E-04}	{ 3.780E-03}							{ 3.330E-04}	{ 3.950E-03}
MEAN		9.229E-04	2.717E-02	MEAN		5.112E-04	1.985E-02	MEAN		5.219E-04	1.962E-02
MINIMUM		2.440E-04	6.890E-03	MINIMUM		7.420E-06	6.130E-03	MINIMUM		2.060E-04	2.430E-03
MAXIMUM		2.020E-03	5.360E-02	MAXIMUM		1.180E-03	5.520E-02	MAXIMUM		1.430E-03	5.720E-02
2STD. ERR		1.228E-02	8.017E-03	2STD. ERR		5.820E-03	4.550E-03	2STD. ERR		5.703E-03	4.538E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

- 1 POWER IS TEMPORARILY GOING OFF AT THIS LOCATION.
- 2 NO SAMPLE. POWER OUTAGE.
- 3 NO SAMPLE. CONSTRUCTION IN AREA.
- 4 NO SAMPLE. POWER OUTAGE.
- 5 NO SAMPLE. POWER OUTAGE.
- 6 NO SAMPLE. POWER OUTAGE.
- 7 NO SAMPLE. POWER OUTAGE.
- 8 NO SAMPLE. POWER OUTAGE.
- 9 NO SAMPLE. POWER OUTAGE. NO SAMPLE. POWER OUTAGE.
- 10 NO SAMPLE. POWER OUTAGE.
- 11 NO SAMPLE. POWER OUTAGE.
- 12 NO SAMPLE. POWER OUTAGE.

- 13 NO SAMPLE. POWER OUTAGE.
- 14 NO SAMPLE. POWER OUTAGE.
- 15 HOUR METER NOT RESET, EXPOSURE HOURS ARE ESTIMATED.
- 16 HOUR METER NOT RESET, EXPOSURE HOURS ARE ESTIMATED.
- 17 NO SAMPLE. POWER OUTAGE.
- 18 NO SAMPLE. POWER OUTAGE.
- 19 UNABLE TO COLLECT DUE TO HIGH SNOW.

2267 400 N

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/16/1996		8.980E-04 (3.430E-04)	3.500E-02 (3.670E-03)
01/30/1996		6.140E-04 (3.290E-04)	3.110E-02 (3.690E-03)
02/13/1996	1	NR	NR
02/27/1996		6.000E-04 (3.140E-04)	2.650E-02 (3.260E-03)
03/12/1996		7.230E-04 (3.590E-04)	2.630E-02 (3.330E-03)
03/26/1996		3.400E-04 (2.830E-04)	1.390E-02 (2.000E-03)
04/09/1996		6.100E-04 (3.250E-04)	1.930E-02 (2.450E-03)
04/23/1996		9.300E-05 (2.090E-04)	7.560E-03 (1.390E-03)
05/07/1996		6.280E-04 (3.360E-04)	1.110E-02 (1.720E-03)
05/21/1996		3.970E-04 (2.800E-04)	1.200E-02 (1.830E-03)
06/04/1996		5.200E-04 (3.090E-04)	1.240E-02 (1.850E-03)
06/18/1996		3.490E-04 (2.630E-04)	1.480E-02 (2.000E-03)
07/01/1996		3.940E-04 (2.930E-04)	1.100E-02 (1.840E-03)
07/16/1996		3.270E-04 (2.460E-04)	1.510E-02 (2.030E-03)
07/30/1996		4.240E-04 (2.650E-04)	1.760E-02 (2.370E-03)
08/14/1996	2	NR	NR
08/27/1996	3	NR	NR
09/10/1996		3.050E-04 (2.460E-04)	1.390E-02 (1.970E-03)

2267 400 N

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/24/1996		1.940E-04	1.140E-02
		(2.430E-04)	(1.750E-03)
10/08/1996		2.430E-04	2.210E-02
		(2.520E-04)	(2.710E-03)
10/22/1996		5.240E-04	1.540E-02
		(3.150E-04)	(2.190E-03)
11/05/1996		6.270E-04	2.290E-02
		(3.350E-04)	(2.900E-03)
11/19/1996		5.610E-04	1.870E-02
		(3.040E-04)	(2.390E-03)
12/03/1996		2.890E-04	2.000E-02
		(2.470E-04)	(2.620E-03)
12/17/1996		4.120E-04	8.520E-03
		(2.780E-04)	(1.480E-03)
12/31/1996		8.500E-04	3.330E-02
		(3.810E-04)	(3.690E-03)
MEAN		4.749E-04	1.826E-02
MINIMUM		9.300E-05	7.560E-03
MAXIMUM		8.980E-04	3.500E-02
2STD. ERR		4.449E-03	3.263E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 NO SAMPLE. SAVE FOR COMPOSITE.

2 NO SAMPLE. POWER OUTAGE. SAVE FOR COMPOSITE.

3 NO SAMPLE. MCI BAD.

2262 400 AREA-400 E,400 W,400 S,400 N (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/26/1996		1.360E-01 (1.770E-02)	< -1.170E-05 (2.120E-04)	< -2.910E-05 (1.620E-04)	7.400E-05 (1.280E-04)	4.530E-03 (3.800E-03)	nra	nra	nra
07/01/1996		2.110E-01 (2.550E-02)	< -5.800E-05 (1.880E-04)	< -1.670E-04 (1.660E-04)	2.420E-06 (1.640E-04)	6.840E-03 (5.000E-03)	nra	nra	nra
10/08/1996		2.270E-01 (2.740E-02)	2.320E-05 (2.020E-04)	< -2.950E-05 (1.610E-04)	< -6.840E-05 (2.210E-04)	1.210E-03 (4.340E-03)	nra	nra	nra
12/31/1996		7.300E-02 (1.170E-02)	< -1.200E-05 (2.270E-04)	5.130E-05 (1.630E-04)	1.090E-04 (2.180E-04)	3.400E-03 (4.880E-03)	5.450E-09 (1.210E-07)	1.470E-07 (1.720E-07)	1.100E-04 (2.860E-05)
MEAN		1.618E-01	-1.463E-05	-4.358E-05	2.926E-05	3.995E-03	5.450E-09	1.470E-07	1.100E-04
MINIMUM		7.300E-02	< -5.800E-05	< -1.670E-04	< -6.840E-05	1.210E-03	5.450E-09	1.470E-07	1.100E-04
MAXIMUM		2.270E-01	2.320E-05	5.130E-05	1.090E-04	6.840E-03	5.450E-09	1.470E-07	1.100E-04
2STD. ERR		7.123E-02	3.330E-05	9.063E-05	7.878E-05	2.345E-03	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

2270 WYE BARRICADE

2271 WYE BARRICADE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/16/1996		6.800E-04	3.110E-02
		{ 3.370E-04}	{ 3.670E-03}
01/30/1996		4.660E-04	2.840E-02
		{ 3.030E-04}	{ 3.330E-03}
02/13/1996		9.080E-04	4.590E-02
		{ 3.840E-04}	{ 4.920E-03}
02/27/1996		6.370E-04	2.640E-02
		{ 3.340E-04}	{ 3.150E-03}
03/12/1996		6.760E-04	2.690E-02
		{ 3.600E-04}	{ 3.120E-03}
03/26/1996		3.070E-04	1.110E-02
		{ 2.470E-04}	{ 1.800E-03}
04/09/1996		3.870E-04	1.650E-02
		{ 2.750E-04}	{ 2.210E-03}
04/23/1996		8.720E-05	6.480E-03
		{ 1.930E-04}	{ 1.300E-03}
05/07/1996		4.480E-04	8.020E-03
		{ 2.880E-04}	{ 1.430E-03}
05/21/1996		6.970E-04	1.270E-02
		{ 3.510E-04}	{ 1.950E-03}
06/04/1996		2.640E-04	1.040E-02
		{ 2.550E-04}	{ 1.650E-03}
06/18/1996		1.950E-04	1.390E-02
		{ 2.560E-04}	{ 1.970E-03}
07/01/1996		4.250E-05	9.730E-03
		{ 1.800E-04}	{ 1.660E-03}
07/16/1996	1	1.530E-04	1.380E-02
		{ 2.010E-04}	{ 2.040E-03}
07/30/1996		2.690E-05	8.560E-03
		{ 2.070E-04}	{ 1.660E-03}
08/14/1996		2.220E-04	1.230E-02
		{ 2.120E-04}	{ 1.800E-03}
08/27/1996		4.570E-04	1.770E-02
		{ 3.160E-04}	{ 2.450E-03}
09/10/1996		4.270E-04	1.210E-02
		{ 2.780E-04}	{ 1.880E-03}

2270 WYE BARRICADE

2271 WYE BARRICADE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/24/1996		2.010E-04	1.140E-02
		(2.110E-04)	(1.810E-03)
10/08/1996		6.180E-04	2.190E-02
		(3.300E-04)	(2.720E-03)
10/22/1996		2.210E-04	1.540E-02
		(2.390E-04)	(2.110E-03)
11/05/1996		1.220E-03	2.250E-02
		(4.610E-04)	(2.750E-03)
11/19/1996		5.620E-04	1.910E-02
		(3.140E-04)	(2.540E-03)
12/03/1996		6.360E-04	1.780E-02
		(3.420E-04)	(2.330E-03)
12/17/1996		< -5.230E-05	6.630E-03
		(1.460E-04)	(1.300E-03)
12/31/1996		7.510E-04	3.240E-02
		(3.530E-04)	(3.800E-03)
MEAN		4.322E-04	1.766E-02
MINIMUM		< -5.230E-05	6.480E-03
MAXIMUM		1.220E-03	4.590E-02
2STD. ERR		4.570E-03	3.726E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 OBSERVED ZERO END FLOW, BUT USED 1.5.

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997

AIR - COMPOSITED SAMPLES

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2268 WYE BARRICADE-WYE BARRICADE,WYE BARRICADE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/26/1996		1.470E-01 (2.390E-02)	< -3.840E-04 (4.370E-04)	8.280E-05 (3.680E-04)	2.060E-04 (2.830E-04)	7.020E-03 (7.370E-03)	nra	nra	nra
07/01/1996		2.000E-01 (2.720E-02)	< -3.340E-04 (3.570E-04)	6.460E-05 (2.780E-04)	3.300E-04 (3.280E-04)	9.090E-04 (7.910E-03)	nra	nra	nra
10/08/1996	1	1.970E-01 (2.780E-02)	1.990E-04 (4.610E-04)	< -1.510E-05 (3.450E-04)	5.600E-05 (2.630E-04)	9.220E-03 (7.720E-03)	nra	nra	nra
12/31/1996		7.650E-02 (1.770E-02)	4.260E-04 (4.120E-04)	< -1.080E-04 (3.530E-04)	< -1.260E-04 (3.450E-04)	2.250E-02 (7.350E-03)	< -9.890E-08 (1.050E-07)	1.010E-07 (2.360E-07)	1.400E-04 (3.860E-05)
MEAN		1.551E-01	-2.325E-05	6.075E-06	1.165E-04	9.912E-03	-9.890E-08	1.010E-07	1.400E-04
MINIMUM		7.650E-02	< -3.840E-04	< -1.080E-04	< -1.260E-04	9.090E-04	< -9.890E-08	1.010E-07	1.400E-04
MAXIMUM		2.000E-01	4.260E-04	8.280E-05	3.300E-04	2.250E-02	< -9.890E-08	1.010E-07	1.400E-04
2STD. ERR		5.778E-02	3.991E-04	8.713E-05	1.967E-04	9.099E-03	.000E+00	.000E+00	.000E+00

2268 WYE BARRICADE-WYE BARRICADE, WYE BARRICADE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/26/1996		nra	nra	nra	nra
07/01/1996		nra	nra	nra	nra
10/08/1996		nra	nra	nra	nra
12/31/1996		1.080E-05 (2.530E-06)	4.180E-07 (5.260E-07)	8.850E-06 (2.260E-06)	2.007E-05 (3.433E-06)
MEAN		1.080E-05	4.180E-07	8.850E-06	2.007E-05
MINIMUM		1.080E-05	4.180E-07	8.850E-06	2.007E-05
MAXIMUM		1.080E-05	4.180E-07	8.850E-06	2.007E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2270 on 07/16/1996

OBSERVED ZERO END FLOW, BUT USED 1.5.

Comment for sample 2271 on 07/16/1996

OBSERVED ZERO END FLOW, BUT USED 1.5.

Comment for sample 2271 on 07/30/1996

FILTER SLIGHTLY PUNCHED BY WIRE MESH IN FILTER HEAD.

2283 RINGOLD MET TOWER

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/11/1996		1.100E-03	4.950E-02
		{ 4.200E-04}	{ 5.250E-03}
01/25/1996		2.820E-04	2.090E-02
		{ 2.530E-04}	{ 2.590E-03}
02/08/1996		6.580E-04	4.940E-02
		{ 3.560E-04}	{ 5.240E-03}
02/23/1996		4.340E-04	2.250E-02
		{ 2.690E-04}	{ 2.810E-03}
03/07/1996		4.460E-04	2.310E-02
		{ 2.910E-04}	{ 2.860E-03}
03/21/1996		4.760E-04	1.840E-02
		{ 3.080E-04}	{ 2.370E-03}
04/05/1996		1.110E-03	2.000E-02
		{ 4.060E-04}	{ 2.470E-03}
04/18/1996		5.430E-04	1.060E-02
		{ 3.280E-04}	{ 1.720E-03}
05/02/1996		3.820E-04	1.020E-02
		{ 2.720E-04}	{ 1.730E-03}
05/16/1996		8.950E-04	1.570E-02
		{ 3.790E-04}	{ 2.220E-03}
05/30/1996		5.230E-04	9.970E-03
		{ 3.000E-04}	{ 1.620E-03}
06/13/1996		4.830E-04	1.510E-02
		{ 3.180E-04}	{ 2.080E-03}
06/26/1996		4.150E-04	1.190E-02
		{ 3.080E-04}	{ 1.970E-03}
07/12/1996		2.840E-04	1.230E-02
		{ 2.170E-04}	{ 1.700E-03}
07/25/1996		8.070E-04	9.820E-02
		{ 3.880E-04}	{ 1.010E-02}
08/08/1996		3.150E-04	1.850E-02
		{ 2.530E-04}	{ 2.380E-03}
08/22/1996		8.840E-04	1.610E-02
		{ 3.980E-04}	{ 2.170E-03}
09/05/1996		5.510E-04	2.500E-02
		{ 3.060E-04}	{ 3.110E-03}

2283 RINGOLD MET TOWER

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/19/1996		1.000E-03	1.510E-02
		{ 4.070E-04}	{ 2.160E-03}
10/03/1996		8.140E-04	2.050E-02
		{ 3.590E-04}	{ 2.550E-03}
10/17/1996		6.290E-04	1.890E-02
		{ 3.340E-04}	{ 2.420E-03}
10/31/1996		7.080E-04	1.460E-02
		{ 3.520E-04}	{ 2.060E-03}
11/14/1996		7.630E-04	2.930E-02
		{ 3.510E-04}	{ 3.340E-03}
11/27/1996		3.370E-04	1.960E-02
		{ 2.820E-04}	{ 2.530E-03}
12/12/1996		1.960E-04	1.030E-02
		{ 2.250E-04}	{ 1.590E-03}
12/26/1996		8.560E-04	2.410E-02
		{ 3.690E-04}	{ 2.880E-03}
01/09/1997		5.210E-04	1.920E-02
		{ 2.990E-04}	{ 2.550E-03}
MEAN		6.079E-04	2.292E-02
MINIMUM		1.960E-04	9.970E-03
MAXIMUM		1.110E-03	9.820E-02
2STD. ERR		8.079E-03	6.912E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 • - Analyzed as part of a composite sample only

2274 RINGOLD MET TOWER-RINGOLD MET TOWER (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/05/1996		1.660E-01 { 2.800E-02 }	< -4.940E-04 { 5.210E-04 }	6.820E-04 { 3.480E-04 }	< -3.180E-05 { 4.240E-04 }	2.920E-02 { 9.940E-03 }	nra	nra	nra
06/26/1996		1.510E-01 { 2.890E-02 }	< -7.240E-05 { 7.800E-04 }	< -4.960E-04 { 5.890E-04 }	< -2.060E-04 { 6.430E-04 }	7.980E-04 { 1.640E-02 }	nra	nra	nra
10/03/1996		1.980E-01 { 3.180E-02 }	< -3.870E-04 { 4.850E-04 }	2.360E-04 { 4.000E-04 }	3.520E-04 { 3.660E-04 }	7.400E-03 { 1.590E-02 }	nra	nra	nra
01/09/1997		9.110E-02 { 1.980E-02 }	< -2.320E-04 { 5.870E-04 }	< -4.400E-05 { 4.910E-04 }	8.340E-05 { 4.480E-04 }	4.470E-02 { 1.170E-02 }	< -6.060E-08 { 2.200E-07 }	1.950E-07 { 3.110E-07 }	3.260E-06 { 8.810E-06 }
MEAN		1.515E-01	-2.964E-04	9.450E-05	4.940E-05	2.052E-02	-6.060E-08	1.950E-07	3.260E-06
MINIMUM		9.110E-02	< -4.940E-04	< -4.960E-04	< -2.060E-04	7.980E-04	< -6.060E-08	1.950E-07	3.260E-06
MAXIMUM		1.980E-01	< -7.240E-05	6.820E-04	3.520E-04	4.470E-02	< -6.060E-08	1.950E-07	3.260E-06
2STD. ERR		4.480E-02	1.840E-04	4.943E-04	2.342E-04	2.018E-02	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only

2280 W END OF FIR ROAD

2282 W END OF FIR ROAD *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/11/1996		6.750E-04	4.140E-02
		{ 3.420E-04}	{ 4.670E-03}
01/25/1996	1	1.040E-03	4.660E-02
		{ 5.790E-04}	{ 5.730E-03}
02/08/1996		7.480E-04	4.000E-02
		{ 3.740E-04}	{ 4.280E-03}
02/23/1996		3.120E-04	2.390E-02
		{ 2.460E-04}	{ 2.810E-03}
03/07/1996		4.410E-04	2.200E-02
		{ 3.000E-04}	{ 2.760E-03}
03/21/1996	2	NR	NR
04/05/1996		7.850E-04	1.820E-02
		{ 3.540E-04}	{ 2.310E-03}
04/18/1996	3	4.600E-04	8.040E-03
		{ 2.970E-04}	{ 1.520E-03}
05/02/1996		3.280E-04	7.630E-03
		{ 2.630E-04}	{ 1.420E-03}
05/16/1996		8.320E-04	1.430E-02
		{ 3.820E-04}	{ 2.020E-03}
05/30/1996		3.880E-04	8.990E-03
		{ 2.790E-04}	{ 1.530E-03}
06/13/1996		4.740E-04	1.290E-02
		{ 2.980E-04}	{ 1.880E-03}
06/26/1996		6.770E-04	9.830E-03
		{ 3.680E-04}	{ 1.650E-03}
07/12/1996		1.730E-04	1.190E-02
		{ 2.160E-04}	{ 1.730E-03}
07/25/1996		8.090E-04	4.450E-02
		{ 3.730E-04}	{ 4.740E-03}
08/08/1996		3.180E-04	1.690E-02
		{ 2.540E-04}	{ 2.330E-03}
08/22/1996		7.060E-04	1.580E-02
		{ 3.480E-04}	{ 2.150E-03}
09/05/1996	4	1.020E-03	4.270E-02
		{ 5.600E-04}	{ 5.090E-03}

2280 W END OF FIR ROAD

2282 W END OF FIR ROAD *

OFF DATE	COM	ALPHA	BETA
		PCI/M3	PCI/M3
09/19/1996		9.460E-04	1.530E-02
		(3.970E-04)	(2.130E-03)
10/03/1996		6.840E-04	1.860E-02
		(3.650E-04)	(2.490E-03)
10/17/1996		6.600E-04	1.830E-02
		(3.510E-04)	(2.460E-03)
10/31/1996		2.430E-04	1.580E-02
		(2.290E-04)	(2.230E-03)
11/14/1996		8.260E-04	2.920E-02
		(3.790E-04)	(3.430E-03)
11/27/1996		3.450E-04	2.050E-02
		(2.630E-04)	(2.660E-03)
12/12/1996		2.430E-04	1.140E-02
		(2.340E-04)	(1.690E-03)
12/26/1996	5	NR	NR
01/09/1997		7.430E-04	2.250E-02
		(2.360E-04)	(2.360E-03)
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MEAN		5.950E-04	2.149E-02
MINIMUM		1.730E-04	7.630E-03
MAXIMUM		1.040E-03	4.660E-02
2STD. ERR		6.290E-03	4.868E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 LOW EXPOSURE HOURS.

2 NO SAMPLE. SAVE FOR COMPOSITE.

3 EXPOSURE HOURS ESTIMATED, METER NOT RESET LAST COLLECTION PERIOD.

4 GROUND FAULT HAD TRIPPED AT POLE.

5 UNABLE TO COLLECT DUE TO HIGH SNOW.

2276 W END OF FIR ROAD-W END OF FIR ROAD,W END OF FIR ROAD (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/05/1996	1	2.210E-01 (2.960E-02)	3.600E-04 (2.570E-04)	< -3.010E-05 (3.170E-04)	< -3.810E-04 (3.450E-04)	7.980E-03 (7.730E-03)	nra	nra	nra
06/26/1996	2	2.160E-01 (2.920E-02)	2.170E-04 (3.260E-04)	< -1.770E-04 (3.660E-04)	1.610E-04 (3.220E-04)	1.990E-02 (6.260E-03)	nra	nra	nra
10/03/1996	3	2.430E-01 (3.240E-02)	< -3.820E-04 (4.080E-04)	9.660E-05 (2.800E-04)	1.430E-04 (2.850E-04)	5.580E-03 (7.260E-03)	nra	nra	nra
01/09/1997	4	9.670E-02 (1.570E-02)	1.570E-04 (3.210E-04)	< -1.220E-05 (2.440E-04)	< -1.040E-04 (3.480E-04)	3.140E-02 (7.940E-03)	< -9.810E-08 (1.040E-07)	1.480E-07 (3.150E-07)	6.890E-06 (7.810E-06)
MEAN		1.942E-01	8.800E-05	-3.068E-05	-4.525E-05	1.622E-02	-9.810E-08	1.480E-07	6.890E-06
MINIMUM		9.670E-02	< -3.820E-04	< -1.770E-04	< -3.810E-04	5.580E-03	< -9.810E-08	1.480E-07	6.890E-06
MAXIMUM		2.430E-01	3.600E-04	9.660E-05	1.610E-04	3.140E-02	< -9.810E-08	1.480E-07	6.890E-06
2STD. ERR		6.603E-02	3.247E-04	1.125E-04	2.544E-04	1.190E-02	.000E+00	.000E+00	.000E+00

2276 W END OF FIR ROAD-W END OF FIR ROAD,W END OF FIR ROAD (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/05/1996		nra	nra	nra	nra
06/26/1996		nra	nra	nra	nra
10/03/1996		nra	nra	nra	nra
01/09/1997		2.480E-05 { 4.440E-06}	8.570E-07 { 7.330E-07}	2.190E-05 { 4.110E-06}	4.756E-05 { 6.095E-06}
MEAN		2.480E-05	8.570E-07	2.190E-05	4.756E-05
MINIMUM		2.480E-05	8.570E-07	2.190E-05	4.756E-05
MAXIMUM		2.480E-05	8.570E-07	2.190E-05	4.756E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2280 on 01/25/1996

LOW EXPOSURE HOURS.

Comment for sample 2280 on 03/21/1996

NO SAMPLE. SAVE FOR COMPOSITE.

2 Comment for sample 2280 on 04/18/1996

EXPOSURE HOURS ESTIMATED, METER NOT RESET LAST COLLECTION PERIOD.

3 Comment for sample 2280 on 09/05/1996

GROUND FAULT HAD TRIPPED AT POLE.

Comment for sample 2282 on 03/21/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2282 on 04/18/1996

EXPOSURE HOURS ESTIMATED, METER NOT RESET LAST COLLECTION PERIOD.

Comment for sample 2282 on 09/05/1996

GROUND FAULT HAD TRIPPED AT POLE.

4 Comment for sample 2282 on 12/26/1996

UNABLE TO COLLECT DUE TO HIGH SNOW.

Comment for sample 2280 on 12/26/1996

UNABLE TO COLLECT DUE TO HIGH SNOW.

2286 DOGWOOD MET TOWER

2287 DOGWOOD MET TOWER *

OFF DATE	COM	ALPHA	BETA
		PCI/M3	PCI/M3
01/11/1996		7.680E-04	4.230E-02
		{ 3.540E-04}	{ 4.480E-03}
01/25/1996		4.760E-04	1.920E-02
		{ 3.000E-04}	{ 2.510E-03}
02/08/1996	1	4.290E-04	4.230E-02
		{ 4.230E-04}	{ 5.310E-03}
02/23/1996		4.360E-04	2.190E-02
		{ 2.720E-04}	{ 2.630E-03}
03/07/1996		4.020E-04	2.140E-02
		{ 3.120E-04}	{ 2.750E-03}
03/21/1996	2	2.320E-04	1.810E-02
		{ 2.910E-04}	{ 2.730E-03}
04/05/1996		7.440E-04	1.900E-02
		{ 3.350E-04}	{ 2.420E-03}
04/18/1996		8.890E-04	9.980E-03
		{ 3.910E-04}	{ 1.670E-03}
05/02/1996		3.620E-04	8.640E-03
		{ 2.600E-04}	{ 1.530E-03}
05/16/1996		3.860E-04	1.590E-02
		{ 2.740E-04}	{ 2.150E-03}
05/30/1996		6.470E-04	1.080E-02
		{ 3.370E-04}	{ 1.760E-03}
06/13/1996	3	4.510E-04	1.350E-02
		{ 2.810E-04}	{ 2.020E-03}
06/26/1996		4.850E-04	1.150E-02
		{ 3.120E-04}	{ 1.870E-03}
07/12/1996		4.380E-04	1.170E-02
		{ 2.610E-04}	{ 1.740E-03}
07/25/1996		2.440E-04	3.940E-02
		{ 2.590E-04}	{ 4.290E-03}
08/08/1996		2.690E-04	1.540E-02
		{ 2.350E-04}	{ 2.110E-03}
08/22/1996		6.630E-04	1.500E-02
		{ 3.360E-04}	{ 2.110E-03}
09/05/1996		8.510E-04	2.860E-02
		{ 3.670E-04}	{ 3.280E-03}

2286 DOGWOOD MET TOWER

2287 DOGWOOD MET TOWER *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/19/1996		7.210E-04	1.340E-02
		{ 3.480E-04}	{ 1.990E-03}
10/03/1996	4	7.610E-04	1.790E-02
		{ 3.580E-04}	{ 2.330E-03}
10/17/1996		6.190E-04	1.940E-02
		{ 3.310E-04}	{ 2.470E-03}
10/31/1996		2.540E-04	1.280E-02
		{ 2.250E-04}	{ 1.870E-03}
11/14/1996		4.820E-04	2.170E-02
		{ 2.790E-04}	{ 2.650E-03}
11/27/1996		1.920E-04	1.270E-02
		{ 2.380E-04}	{ 1.980E-03}
12/12/1996		8.790E-06	4.550E-03
		{ 1.880E-04}	{ 1.070E-03}
12/26/1996		5.230E-04	1.180E-02
		{ 3.180E-04}	{ 1.780E-03}
01/09/1997		3.570E-04	8.020E-03
		{ 2.470E-04}	{ 1.460E-03}
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MEAN		4.848E-04	1.803E-02
MINIMUM		8.790E-06	4.550E-03
MAXIMUM		8.890E-04	4.230E-02
2STD. ERR		4.992E-03	3.787E-03

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which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- - Analyzed as part of a composite sample only
- 1 PUMP NOT RUNNING, INSTALLED NEW ONE.
 - 2 APPROXIMATELY 3-DAY POWER OUTAGE BY LAND OWNER.
 - 3 CLOGGED FILTER.
 - 4 DUST IN AREA DUE TO HARVESTING TRUCKS.

2284 DOGWOOD MET TOWER-DOGWOOD MET TOWER,DOGWOOD MET TOWER (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/05/1996	1	1.660E-01 (2.330E-02)	< -3.260E-04 (4.650E-04)	3.190E-05 (3.480E-04)	1.560E-04 (3.190E-04)	1.460E-03 (7.780E-03)	nra	nra	nra
06/26/1996	2	2.140E-01 (2.870E-02)	1.650E-04 (3.050E-04)	< -4.030E-06 (3.810E-04)	< -1.490E-04 (3.780E-04)	4.300E-03 (8.270E-03)	nra	nra	nra
10/03/1996	3	2.340E-01 (3.000E-02)	< -1.380E-04 (3.520E-04)	1.580E-04 (3.070E-04)	1.500E-04 (3.160E-04)	2.720E-02 (7.320E-03)	nra	nra	nra
01/09/1997		6.250E-02 (1.280E-02)	1.710E-04 (3.820E-04)	2.110E-04 (2.740E-04)	< -1.560E-04 (3.140E-04)	1.960E-02 (6.650E-03)	3.280E-07 (3.500E-07)	2.300E-07 (3.590E-07)	8.790E-06 (9.580E-06)
MEAN		1.691E-01	-3.200E-05	9.922E-05	2.500E-07	1.314E-02	3.280E-07	2.300E-07	8.790E-06
MINIMUM		6.250E-02	< -3.260E-04	< -4.030E-06	< -1.560E-04	1.460E-03	3.280E-07	2.300E-07	8.790E-06
MAXIMUM		2.340E-01	1.710E-04	2.110E-04	1.560E-04	2.720E-02	3.280E-07	2.300E-07	8.790E-06
2STD. ERR		7.660E-02	2.434E-04	1.019E-04	1.764E-04	1.230E-02	.000E+00	.000E+00	.000E+00

2284 DOGWOOD MET TOWER-DOGWOOD MET TOWER,DOGWOOD MET TOWER (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/05/1996		nra	nra	nra	nra
06/26/1996		nra	nra	nra	nra
10/03/1996		nra	nra	nra	nra
01/09/1997		2.810E-05 (4.800E-06)	4.700E-07 (5.690E-07)	2.840E-05 (4.850E-06)	5.697E-05 (6.847E-06)
MEAN		2.810E-05	4.700E-07	2.840E-05	5.697E-05
MINIMUM		2.810E-05	4.700E-07	2.840E-05	5.697E-05
MAXIMUM		2.810E-05	4.700E-07	2.840E-05	5.697E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 Comment for sample 2286 on 02/08/1996
PUMP NOT RUNNING, INSTALLED NEW ONE.
Comment for sample 2286 on 03/21/1996
APPROXIMATELY 3-DAY POWER OUTAGE BY LAND OWNER.
- 2 Comment for sample 2286 on 06/13/1996
CLOGGED FILTER.
Comment for sample 2287 on 02/08/1996
PUMP NOT RUNNING, INSTALLED NEW ONE.
Comment for sample 2287 on 03/21/1996
APPROXIMATELY 3-DAY POWER OUTAGE BY LAND OWNER.
Comment for sample 2287 on 06/13/1996
CLOGGED FILTER.
- 3 Comment for sample 2287 on 10/03/1996
DUST IN AREA DUE TO HARVESTING TRUCKS.
Comment for sample 2286 on 10/03/1996
DUST IN AREA DUE TO HARVESTING TRUCKS.

2290 BYERS LANDING

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/11/1996		1.030E-03	5.080E-02
		(4.060E-04)	(5.240E-03)
01/25/1996		1.690E-04	1.930E-02
		(2.260E-04)	(2.560E-03)
02/08/1996		5.670E-04	4.650E-02
		(3.230E-04)	(4.850E-03)
02/23/1996		3.170E-04	2.530E-02
		(2.420E-04)	(2.990E-03)
03/07/1996		5.530E-04	2.160E-02
		(3.380E-04)	(2.830E-03)
03/21/1996		5.380E-04	1.790E-02
		(3.010E-04)	(2.320E-03)
04/05/1996		5.300E-04	2.050E-02
		(2.950E-04)	(2.630E-03)
04/18/1996		9.290E-04	1.340E-02
		(4.130E-04)	(2.070E-03)
05/02/1996		5.160E-04	9.790E-03
		(3.060E-04)	(1.600E-03)
05/16/1996		8.000E-04	1.720E-02
		(3.750E-04)	(2.270E-03)
05/30/1996		1.820E-04	1.010E-02
		(2.340E-04)	(1.630E-03)
06/13/1996		3.970E-04	1.430E-02
		(2.790E-04)	(2.000E-03)
06/26/1996		4.620E-04	1.110E-02
		(3.000E-04)	(1.790E-03)
07/12/1996		6.650E-04	1.270E-02
		(3.090E-04)	(1.780E-03)
07/25/1996		8.190E-04	9.800E-02
		(3.770E-04)	(9.700E-03)
08/08/1996		8.630E-04	1.930E-02
		(3.720E-04)	(2.580E-03)
08/22/1996		1.030E-03	1.770E-02
		(4.190E-04)	(2.410E-03)
09/05/1996		1.130E-03	2.420E-02
		(4.330E-04)	(3.020E-03)

2290 BYERS LANDING

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/19/1996		5.180E-04 (3.180E-04)	1.460E-02 (2.040E-03)
10/03/1996		5.510E-04 (2.980E-04)	2.090E-02 (2.720E-03)
10/17/1996	1	7.140E-04 (3.550E-04)	1.900E-02 (2.420E-03)
10/31/1996		3.660E-04 (2.620E-04)	1.360E-02 (1.940E-03)
11/14/1996		5.140E-04 (2.950E-04)	2.440E-02 (2.940E-03)
11/27/1996		1.830E-04 (2.440E-04)	9.260E-03 (1.610E-03)
12/12/1996		1.030E-04 (1.830E-04)	5.090E-03 (1.140E-03)
12/26/1996	2	NR	NR
01/09/1997	3	NR	NR
MEAN		5.778E-04	2.226E-02
MINIMUM		1.030E-04	5.090E-03
MAXIMUM		1.130E-03	9.800E-02
2STD. ERR		8.488E-03	7.534E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 BAD HOUR METER, INSTALLED NEW PUMP.

2 UNABLE TO COLLECT DUE TO HIGH SNOW.

3 NO SAMPLE. POWER OUTAGE AND BAD HOUR METER.

2288 BYERS LANDING-BYERS LANDING (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/05/1996		1.490E-01 (2.570E-02)	1.180E-04 (4.110E-04)	< -1.690E-04 (4.270E-04)	< -6.470E-04 (4.690E-04)	2.660E-02 (1.010E-02)	nra	nra	nra
06/26/1996		1.700E-01 (3.120E-02)	5.980E-04 (4.030E-04)	6.110E-04 (4.870E-04)	< -7.680E-05 (6.340E-04)	2.920E-02 (1.000E-02)	nra	nra	nra
10/03/1996		2.230E-01 (3.680E-02)	2.110E-04 (3.900E-04)	< -1.220E-04 (4.460E-04)	< -2.820E-05 (4.220E-04)	1.370E-02 (1.230E-02)	nra	nra	nra
12/12/1996	1	6.810E-02 (2.640E-02)	7.400E-04 (8.670E-04)	1.250E-04 (4.910E-04)	< -5.920E-05 (6.670E-04)	3.820E-02 (1.410E-02)	< -4.940E-08 (3.970E-07)	4.040E-08 (3.700E-07)	7.530E-06 (1.660E-05)
MEAN		1.525E-01	4.168E-04	1.113E-04	-2.028E-04	2.693E-02	-4.940E-08	4.040E-08	7.530E-06
MINIMUM		6.810E-02	1.180E-04	< -1.690E-04	< -6.470E-04	1.370E-02	< -4.940E-08	4.040E-08	7.530E-06
MAXIMUM		2.230E-01	7.400E-04	6.110E-04	< -2.820E-05	3.820E-02	< -4.940E-08	4.040E-08	7.530E-06
2STD. ERR		6.432E-02	2.994E-04	3.573E-04	2.968E-04	1.012E-02	.000E+00	.000E+00	.000E+00

2288 BYERS LANDING-BYERS LANDING (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/05/1996		nra	nra	nra	nra
06/26/1996		nra	nra	nra	nra
10/03/1996		nra	nra	nra	nra
12/12/1996		4.540E-05 (8.910E-06)	2.100E-06 (2.080E-06)	4.000E-05 (8.300E-06)	8.750E-05 (1.235E-05)
MEAN		4.540E-05	2.100E-06	4.000E-05	8.750E-05
MINIMUM		4.540E-05	2.100E-06	4.000E-05	8.750E-05
MAXIMUM		4.540E-05	2.100E-06	4.000E-05	8.750E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2290 on 10/17/1996

BAD HOUR METER, INSTALLED NEW PUMP.

2292 BATTELLE COMPLEX

OFF DATE	COM	BETA PCI/M3
01/17/1996		4.300E-02 (4.350E-03)
01/31/1996	1	3.080E-02 (3.450E-03)
02/14/1996		5.350E-02 (5.820E-03)
02/28/1996		3.010E-02 (3.480E-03)
03/13/1996		2.630E-02 (3.220E-03)
03/27/1996		1.490E-02 (2.050E-03)
04/10/1996		1.750E-02 (2.300E-03)
04/24/1996		5.480E-03 (1.260E-03)
05/08/1996		1.120E-02 (1.740E-03)
05/22/1996		1.470E-02 (2.040E-03)
06/05/1996		1.150E-02 (1.760E-03)
06/19/1996		1.460E-02 (1.930E-03)
07/02/1996		1.300E-02 (1.980E-03)
07/17/1996	2	NR
07/31/1996	3	NR
08/14/1996	4	NR
08/28/1996		2.070E-02 (2.680E-03)
09/11/1996		1.550E-02 (2.210E-03)

2292 BATTELLE COMPLEX

OFF DATE	COM	BETA PCI/M3
09/25/1996		1.260E-02 (1.890E-03)
10/09/1996		2.610E-02 (3.100E-03)
10/23/1996		1.350E-02 (1.930E-03)
11/06/1996		1.890E-02 (2.430E-03)
11/20/1996		1.790E-02 (2.320E-03)
12/04/1996		2.360E-02 (2.830E-03)
12/18/1996		8.730E-03 (1.480E-03)
01/06/1997		2.650E-02 (2.900E-03)

MEAN		2.046E-02
MINIMUM		5.480E-03
MAXIMUM		5.350E-02
2STD. ERR		4.660E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 SNOW ON FILTER.
- 2 NO SAMPLE. SAVE FOR COMPOSITE.
- 3 NO SAMPLE. POWER OUTAGE.
- 4 NO SAMPLE. POWER OUTAGE.

2774 BATTELLE COMPLEX-BATTELLE COMPLEX (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/06/1997	1	2.710E-01 (5.290E-02)	< -1.290E-04 (1.970E-04)	6.930E-05 (1.990E-04)	5.640E-05 (2.140E-04)	4.430E-03 (4.380E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2292 on 01/31/1996

SNOW ON FILTER.

Comment for sample 2292 on 07/17/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2292 on 07/31/1996

NO SAMPLE. POWER OUTAGE.

Comment for sample 2292 on 08/14/1996

NO SAMPLE. POWER OUTAGE.

2295 HORN RAPIDS SUBSTA

2296 PROSSER BARRICADE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/18/1996		6.950E-04	3.870E-02
		{ 2.620E-04}	{ 3.990E-03}
02/01/1996		6.880E-04	3.290E-02
		{ 3.410E-04}	{ 3.670E-03}
02/15/1996		7.540E-04	5.010E-02
		{ 3.620E-04}	{ 5.180E-03}
02/29/1996		5.990E-04	2.720E-02
		{ 3.440E-04}	{ 3.150E-03}
03/13/1996		5.260E-04	2.480E-02
		{ 3.130E-04}	{ 3.000E-03}
03/27/1996		5.850E-04	1.420E-02
		{ 3.230E-04}	{ 2.020E-03}
04/11/1996		3.870E-04	1.730E-02
		{ 2.610E-04}	{ 2.230E-03}
04/25/1996		3.360E-04	6.470E-03
		{ 2.540E-04}	{ 1.290E-03}
05/09/1996		3.910E-04	1.120E-02
		{ 2.970E-04}	{ 1.800E-03}
05/23/1996		4.680E-04	1.220E-02
		{ 2.900E-04}	{ 1.880E-03}
06/06/1996		8.150E-05	1.290E-02
		{ 1.880E-04}	{ 1.910E-03}
06/19/1996		4.010E-05	1.330E-02
		{ 1.940E-04}	{ 1.940E-03}
07/03/1996	1	NR	NR
07/18/1996		5.000E-04	1.480E-02
		{ 2.790E-04}	{ 2.000E-03}
08/01/1996		2.310E-04	1.870E-02
		{ 2.180E-04}	{ 2.370E-03}
08/15/1996		5.760E-04	1.670E-02
		{ 3.220E-04}	{ 2.220E-03}
08/30/1996		1.240E-03	3.360E-02
		{ 5.170E-04}	{ 4.050E-03}
09/12/1996		3.280E-04	1.560E-02
		{ 2.650E-04}	{ 2.270E-03}

2295 HORN RAPIDS SUBSTA

2296 PROSSER BARRICADE *

OFF DATE	COM	ALPHA	BETA
		PCI/M3	PCI/M3
09/26/1996		2.310E-04	1.190E-02
		{ 2.590E-04}	{ 1.840E-03}
10/10/1996		4.960E-04	2.400E-02
		{ 2.870E-04}	{ 2.870E-03}
10/24/1996		1.900E-04	1.220E-02
		{ 2.310E-04}	{ 1.890E-03}
11/07/1996		7.240E-04	2.120E-02
		{ 3.720E-04}	{ 2.650E-03}
11/21/1996		4.370E-04	2.030E-02
		{ 2.840E-04}	{ 2.540E-03}
12/05/1996		4.600E-04	1.860E-02
		{ 2.770E-04}	{ 2.390E-03}
12/19/1996		2.590E-04	8.700E-03
		{ 2.390E-04}	{ 1.540E-03}
01/02/1997		9.210E-04	3.430E-02
		{ 3.830E-04}	{ 3.780E-03}

MEAN		4.857E-04	2.047E-02
MINIMUM		4.010E-05	6.470E-03
MAXIMUM		1.240E-03	5.010E-02
2STD. ERR		5.487E-03	4.220E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 NO SAMPLE. SAMPLE NOT SAVED FOR COMPOSITING.

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997
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2293 PROSSER BARRICADE-HORN RAPIDS SUBSTA, PROSSER BARRICADE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/27/1996		1.610E-01 (2.380E-02)	< .000E+00 (3.100E-04)	< -1.480E-04 (3.060E-04)	3.180E-05 (3.260E-04)	1.880E-03 (7.480E-03)	nra	nra	nra
07/03/1996	1	2.220E-01 (2.970E-02)	1.130E-04 (2.710E-04)	< -3.880E-04 (3.720E-04)	3.810E-04 (3.120E-04)	2.820E-03 (9.090E-03)	nra	nra	nra
10/10/1996		2.420E-01 (3.160E-02)	1.740E-04 (2.630E-04)	1.310E-04 (2.750E-04)	< -1.110E-04 (2.560E-04)	1.760E-02 (6.180E-03)	nra	nra	nra
01/02/1997		9.160E-02 (1.760E-02)	< -1.230E-04 (3.290E-04)	9.470E-05 (4.020E-04)	3.070E-04 (3.610E-04)	1.980E-02 (7.290E-03)	1.260E-07 (3.730E-07)	7.960E-08 (2.870E-07)	2.010E-05 (1.110E-05)
MEAN		1.792E-01	4.100E-05	-7.758E-05	1.522E-04	1.053E-02	1.260E-07	7.960E-08	2.010E-05
MINIMUM		9.160E-02	< -1.230E-04	< -3.880E-04	< -1.110E-04	1.880E-03	1.260E-07	7.960E-08	2.010E-05
MAXIMUM		2.420E-01	1.740E-04	1.310E-04	3.810E-04	1.980E-02	1.260E-07	7.960E-08	2.010E-05
2STD. ERR		6.778E-02	1.310E-04	2.412E-04	2.310E-04	9.490E-03	.000E+00	.000E+00	.000E+00

2293 PROSSER BARRICADE-HORN RAPIDS SUBSTA, PROSSER BARRICADE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/27/1996		nra	nra	nra	nra
07/03/1996		nra	nra	nra	nra
10/10/1996		nra	nra	nra	nra
01/02/1997		9.800E-06 (2.470E-06)	7.700E-07 (7.090E-07)	9.610E-06 (2.450E-06)	2.018E-05 (3.551E-06)
MEAN		9.800E-06	7.700E-07	9.610E-06	2.018E-05
MINIMUM		9.800E-06	7.700E-07	9.610E-06	2.018E-05
MAXIMUM		9.800E-06	7.700E-07	9.610E-06	2.018E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 Comment for sample 2295 on 07/03/1996
 NO SAMPLE. SAMPLE NOT SAVED FOR COMPOSITING.

2299 YAKIMA BARRICADE

2300 YAKIMA BARRICADE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/16/1996		9.640E-04	3.840E-02
		{ 3.400E-04}	{ 3.920E-03}
01/30/1996		1.050E-03	2.870E-02
		{ 4.030E-04}	{ 3.270E-03}
02/13/1996		8.220E-04	4.670E-02
		{ 3.620E-04}	{ 4.870E-03}
02/27/1996		9.300E-04	2.860E-02
		{ 3.810E-04}	{ 3.280E-03}
03/12/1996		4.610E-04	2.590E-02
		{ 3.050E-04}	{ 3.050E-03}
03/26/1996		5.070E-05	1.190E-02
		{ 1.890E-04}	{ 1.800E-03}
04/09/1996		2.700E-04	1.650E-02
		{ 2.680E-04}	{ 2.290E-03}
04/23/1996		< -4.950E-05	5.440E-03
		{ 1.710E-04}	{ 1.250E-03}
05/07/1996		4.740E-04	9.390E-03
		{ 2.940E-04}	{ 1.610E-03}
05/21/1996		3.640E-04	1.210E-02
		{ 2.700E-04}	{ 1.870E-03}
06/04/1996		7.940E-04	1.100E-02
		{ 3.570E-04}	{ 1.730E-03}
06/18/1996		6.480E-04	1.280E-02
		{ 3.450E-04}	{ 1.850E-03}
07/01/1996		4.050E-04	9.960E-03
		{ 2.980E-04}	{ 1.660E-03}
07/16/1996		2.980E-04	1.340E-02
		{ 2.390E-04}	{ 1.880E-03}
07/30/1996	1	NR	NR
08/14/1996		3.690E-04	1.480E-02
		{ 2.620E-04}	{ 2.010E-03}
08/27/1996	2	1.860E-03	2.170E-02
		{ 6.080E-04}	{ 2.790E-03}
09/10/1996		3.730E-04	1.620E-02
		{ 2.770E-04}	{ 2.180E-03}

2299 YAKIMA BARRICADE

2300 YAKIMA BARRICADE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/24/1996		5.170E-04	1.080E-02
		(3.030E-04)	(1.730E-03)
10/08/1996		8.090E-04	2.230E-02
		(3.560E-04)	(2.850E-03)
10/22/1996		5.100E-04	1.300E-02
		(3.030E-04)	(1.970E-03)
11/05/1996		3.520E-04	2.260E-02
		(2.740E-04)	(2.760E-03)
11/19/1996		3.350E-04	1.780E-02
		(2.640E-04)	(2.320E-03)
12/03/1996		4.600E-04	2.080E-02
		(2.770E-04)	(2.590E-03)
12/17/1996		3.630E-04	7.760E-03
		(2.600E-04)	(1.420E-03)
12/31/1996		7.050E-04	3.440E-02
		(3.390E-04)	(3.790E-03)
MEAN		5.654E-04	1.892E-02
MINIMUM	<	4.950E-05	5.440E-03
MAXIMUM		1.860E-03	4.670E-02
2STD. ERR		5.081E-03	4.084E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 NO SAMPLE. SAVE FOR COMPOSITE.
- 2 FILTER CLOGGED BY DUST AND SMOKE PARTICLES.

2297 YAKIMA BARRICADE-YAKIMA BARRICADE, YAKIMA BARRICADE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/26/1996		1.660E-01 < -3.030E-04 < -2.110E-04 < -4.760E-05 6.610E-03					nra	nra	nra
		{ 2.340E-02 } { 4.910E-04 } { 3.700E-04 } { 3.410E-04 } { 8.170E-03 }							
07/01/1996		1.760E-01 < -1.670E-05 1.950E-04 1.970E-05 1.230E-02					nra	nra	nra
		{ 2.510E-02 } { 3.430E-04 } { 2.640E-04 } { 2.970E-04 } { 4.650E-03 }							
10/08/1996	1	2.660E-01 < .000E+00 < -1.820E-04 5.190E-05 2.000E-02					nra	nra	nra
		{ 3.430E-02 } { 3.110E-04 } { 3.220E-04 } { 2.780E-04 } { 7.240E-03 }							
12/31/1996		9.390E-02 < -2.660E-04 8.430E-05 < -2.810E-04 3.740E-02					4.620E-08	8.170E-07	3.510E-05
		{ 1.670E-02 } { 4.170E-04 } { 3.580E-04 } { 3.870E-04 } { 8.920E-03 }				{ 1.680E-07 }	{ 4.630E-07 }	{ 1.140E-05 }	
MEAN		1.755E-01 -1.464E-04 -2.843E-05 -6.425E-05 1.908E-02					4.620E-08	8.170E-07	3.510E-05
MINIMUM		9.390E-02 < -3.030E-04 < -2.110E-04 < -2.810E-04 6.610E-03					4.620E-08	8.170E-07	3.510E-05
MAXIMUM		2.660E-01 < .000E+00 1.950E-04 5.190E-05 3.740E-02					4.620E-08	8.170E-07	3.510E-05
2STD. ERR		7.057E-02 1.603E-04 1.996E-04 1.503E-04 1.339E-02					.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2299 on 07/30/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2299 on 08/27/1996

FILTER CLOGGED BY DUST AND SMOKE PARTICLES.

Comment for sample 2300 on 07/30/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2300 on 08/27/1996

FILTER CLOGGED BY DUST AND SMOKE PARTICLES..

2303 WAHLUKE SLOPE

2304 WAHLUKE SLOPE •

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/10/1996		1.120E-03	4.920E-02
		{ 4.220E-04}	{ 5.390E-03}
01/25/1996		5.690E-04	1.860E-02
		{ 3.030E-04}	{ 2.380E-03}
02/07/1996		7.930E-04	5.290E-02
		{ 3.730E-04}	{ 5.480E-03}
02/21/1996		4.840E-04	2.860E-02
		{ 2.980E-04}	{ 3.280E-03}
03/06/1996		2.820E-04	1.950E-02
		{ 2.670E-04}	{ 2.590E-03}
03/20/1996		1.190E-04	3.640E-04
		{ 1.880E-04}	{ 7.080E-04}
04/03/1996		7.850E-04	3.320E-02
		{ 3.680E-04}	{ 3.880E-03}
04/17/1996		4.900E-04	9.180E-03
		{ 2.920E-04}	{ 1.580E-03}
05/01/1996		3.060E-04	6.570E-03
		{ 2.460E-04}	{ 1.350E-03}
05/15/1996		8.720E-04	1.430E-02
		{ 3.760E-04}	{ 2.010E-03}
05/29/1996		5.810E-04	8.210E-03
		{ 3.120E-04}	{ 1.470E-03}
06/12/1996		2.440E-04	2.080E-02
		{ 2.300E-04}	{ 2.580E-03}
06/25/1996		2.010E-04	1.210E-02
		{ 2.460E-04}	{ 1.960E-03}
07/09/1996		3.720E-04	1.090E-02
		{ 2.690E-04}	{ 1.720E-03}
07/24/1996		3.960E-04	2.050E-02
		{ 2.660E-04}	{ 2.510E-03}
08/07/1996		2.980E-04	1.510E-02
		{ 2.420E-04}	{ 2.080E-03}
08/21/1996		5.510E-04	1.450E-02
		{ 3.280E-04}	{ 2.110E-03}
09/04/1996		2.220E-03	3.150E-02
		{ 5.980E-04}	{ 3.710E-03}

2303 WAHLUKE SLOPE

2304 WAHLUKE SLOPE *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/18/1996		4.930E-04	1.300E-02
		{ 2.990E-04}	{ 1.950E-03}
10/02/1996		4.440E-04	1.750E-02
		{ 2.960E-04}	{ 2.380E-03}
10/16/1996		6.040E-04	1.820E-02
		{ 3.310E-04}	{ 2.460E-03}
10/30/1996		< -1.950E-05	1.240E-02
		{ 1.620E-04}	{ 1.900E-03}
11/13/1996		8.390E-04	3.250E-02
		{ 3.630E-04}	{ 3.830E-03}
11/26/1996		2.130E-04	1.760E-02
		{ 2.390E-04}	{ 2.360E-03}
12/11/1996		4.560E-04	1.030E-02
		{ 2.730E-04}	{ 1.650E-03}
12/23/1996	1	NR	NR
01/08/1997	2	5.770E-04	2.030E-02
		{ 2.210E-04}	{ 2.220E-03}
MEAN		5.496E-04	1.953E-02
MINIMUM		< -1.950E-05	3.640E-04
MAXIMUM		2.220E-03	5.290E-02
2STD. ERR		5.850E-03	4.797E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 UNABLE TO COLLECT DUE TO HIGH SNOW.

2 UNABLE TO COLLECT SAMPLE ON 12/23/96 SO SAMPLE RAN FOR 4 WEEKS.

2301 WAHLUKE SLOPE-WAHLUKE SLOPE, WAHLUKE SLOPE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/03/1996		1.540E-01 { 2.210E-02 }	< -6.950E-05 { 3.680E-04 }	< -1.530E-04 { 3.160E-04 }	< -1.040E-04 { 3.050E-04 }	7.580E-03 { 7.790E-03 }	nra	nra	nra
06/25/1996		1.980E-01 { 2.870E-02 }	1.770E-04 { 1.780E-04 }	7.430E-06 { 3.010E-04 }	1.080E-04 { 3.100E-04 }	2.450E-02 { 6.980E-03 }	nra	nra	nra
10/02/1996		2.340E-01 { 3.030E-02 }	< -1.790E-05 { 3.390E-04 }	1.510E-05 { 2.880E-04 }	6.040E-05 { 2.380E-04 }	2.710E-02 { 7.320E-03 }	nra	nra	nra
01/08/1997	1	1.070E-01 { 1.670E-02 }	< -1.480E-04 { 4.200E-04 }	1.080E-04 { 2.790E-04 }	< -2.730E-04 { 3.270E-04 }	4.380E-03 { 6.710E-03 }	9.740E-08 { 1.750E-07 }	2.500E-07 { 2.550E-07 }	1.110E-05 { 5.900E-06 }
MEAN		1.733E-01	-1.460E-05	-5.618E-06	-5.215E-05	1.589E-02	9.740E-08	2.500E-07	1.110E-05
MINIMUM		1.070E-01	< -1.480E-04	< -1.530E-04	< -2.730E-04	4.380E-03	9.740E-08	2.500E-07	1.110E-05
MAXIMUM		2.340E-01	1.770E-04	1.080E-04	1.080E-04	2.710E-02	9.740E-08	2.500E-07	1.110E-05
2STD. ERR		5.496E-02	1.385E-04	1.084E-04	1.730E-04	1.157E-02	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 Comment for sample 2304 on 12/23/1996
UNABLE TO COLLECT DUE TO HIGH SNOW.
Comment for sample 2304 on 01/08/1997
UNABLE TO COLLECT SAMPLE ON 12/23/96 SO SAMPLE RAN FOR 4 WEEKS.
Comment for sample 2303 on 12/23/1996
UNABLE TO COLLECT DUE TO HIGH SNOW.
Comment for sample 2303 on 01/08/1997
UNABLE TO COLLECT SAMPLE ON 12/23/96 SO SAMPLE RAN FOR 4 WEEKS.

2323 BASIN CITY SCHOOL

2324 BASIN CITY SCHOOL *

OFF DATE	COM	ALPHA	BETA
		PCI/M3	PCI/M3
01/10/1996	1	NR	NR
01/24/1996		1.180E-04	1.980E-02
		(2.080E-04)	(2.530E-03)
02/07/1996		8.020E-04	4.850E-02
		(3.830E-04)	(5.030E-03)
02/21/1996		3.050E-04	2.260E-02
		(2.560E-04)	(2.880E-03)
03/06/1996		5.120E-04	2.030E-02
		(3.130E-04)	(2.540E-03)
03/20/1996		3.280E-04	1.510E-02
		(2.500E-04)	(2.160E-03)
04/03/1996		5.160E-04	1.580E-02
		(3.060E-04)	(2.200E-03)
04/17/1996		5.760E-04	1.010E-02
		(3.020E-04)	(1.620E-03)
05/01/1996		3.150E-04	7.300E-03
		(2.530E-04)	(1.370E-03)
05/15/1996		5.550E-04	1.370E-02
		(3.390E-04)	(1.960E-03)
05/29/1996		1.750E-04	8.300E-03
		(2.200E-04)	(1.460E-03)
06/13/1996		5.310E-04	1.100E-02
		(3.030E-04)	(1.750E-03)
06/25/1996		4.820E-04	1.060E-02
		(3.130E-04)	(1.770E-03)
07/10/1996		1.860E-04	1.120E-02
		(2.180E-04)	(1.700E-03)
07/24/1996		5.200E-04	2.540E-02
		(3.000E-04)	(3.160E-03)
08/07/1996		9.110E-04	1.650E-02
		(3.790E-04)	(2.290E-03)
08/21/1996		5.880E-04	1.370E-02
		(3.090E-04)	(1.980E-03)
09/04/1996		9.070E-04	2.040E-02
		(3.870E-04)	(2.550E-03)

2323 BASIN CITY SCHOOL

2324 BASIN CITY SCHOOL *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/18/1996		1.140E-03	1.250E-02
		{ 4.230E-04}	{ 1.850E-03}
10/02/1996	2	3.120E-04	1.580E-02
		{ 2.530E-04}	{ 2.140E-03}
10/16/1996		7.260E-04	2.030E-02
		{ 3.650E-04}	{ 2.540E-03}
10/30/1996		2.770E-04	1.320E-02
		{ 2.400E-04}	{ 1.960E-03}
11/13/1996	3	5.990E-04	2.480E-02
		{ 4.280E-04}	{ 3.430E-03}
11/26/1996		1.300E-04	1.650E-02
		{ 2.230E-04}	{ 2.280E-03}
12/11/1996		2.110E-04	1.140E-02
		{ 2.130E-04}	{ 1.690E-03}
12/24/1996		7.860E-04	2.080E-02
		{ 3.980E-04}	{ 2.750E-03}
01/08/1997	4	1.160E-03	2.620E-02
		{ 5.230E-04}	{ 3.330E-03}
MEAN		5.257E-04	1.738E-02
MINIMUM		1.180E-04	7.300E-03
MAXIMUM		1.160E-03	4.850E-02
2STD. ERR		4.353E-03	3.248E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

-125 HOURS. routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 NO SAMPLE. BAD PUMP.

2 PUMP WAS NOT RUNNING WHEN ARRIVED AT STATION.

3 POWER OUTAGE FROM 11/8/96 - 11/13/96.

4 LOW EXPOSURE HOURS, PUMP OFF-LINE FOR APPROXIMATELY 90

2321 BASIN CITY SCHOOL-BASIN CITY SCHOOL,BASIN CITY SCHOOL (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/03/1996	1	1.520E-01 (2.150E-02)	< -4.460E-04 (4.510E-04)	< -1.760E-04 (3.390E-04)	< -2.060E-04 (3.980E-04)	2.440E-02 (6.970E-03)	nra	nra	nra
06/25/1996		2.020E-01 (2.810E-02)	1.170E-04 (3.570E-04)	< -3.260E-04 (3.420E-04)	< -2.520E-04 (3.090E-04)	4.950E-03 (6.480E-03)	nra	nra	nra
10/02/1996	2	2.000E-01 (2.770E-02)	< -3.100E-04 (4.430E-04)	< -2.570E-04 (3.040E-04)	1.330E-04 (2.640E-04)	3.880E-03 (9.140E-03)	nra	nra	nra
01/08/1997	3	9.100E-02 (1.750E-02)	1.420E-04 (2.720E-04)	< -1.960E-04 (3.330E-04)	1.500E-04 (3.640E-04)	4.530E-03 (9.100E-03)	< -1.030E-07 (1.660E-07)	6.350E-08 (2.510E-07)	1.090E-05 (9.030E-06)
MEAN		1.613E-01	-1.243E-04	-2.388E-04	-4.375E-05	9.440E-03	-1.030E-07	6.350E-08	1.090E-05
MINIMUM		9.100E-02	< -4.460E-04	< -3.260E-04	< -2.520E-04	3.880E-03	< -1.030E-07	6.350E-08	1.090E-05
MAXIMUM		2.020E-01	1.420E-04	< -1.760E-04	1.500E-04	2.440E-02	< -1.030E-07	6.350E-08	1.090E-05
2STD. ERR		5.223E-02	2.984E-04	6.760E-05	2.148E-04	9.983E-03	.000E+00	.000E+00	.000E+00

2321 BASIN CITY SCHOOL-BASIN CITY SCHOOL, BASIN CITY SCHOOL (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/03/1996		nra	nra	nra	nra
06/25/1996		nra	nra	nra	nra
10/02/1996		nra	nra	nra	nra
01/08/1997		1.760E-05 (4.090E-06)	9.890E-07 (9.440E-07)	1.730E-05 (4.050E-06)	3.589E-05 (5.833E-06)
MEAN		1.760E-05	9.890E-07	1.730E-05	3.589E-05
MINIMUM		1.760E-05	9.890E-07	1.730E-05	3.589E-05
MAXIMUM		1.760E-05	9.890E-07	1.730E-05	3.589E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 { } - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only

1 Comment for sample 2323 on 01/10/1996
 NO SAMPLE. BAD PUMP.
 Comment for sample 2324 on 01/10/1996
 NO SAMPLE. BAD PUMP.

2 Comment for sample 2324 on 10/02/1996
 PUMP WAS NOT RUNNING WHEN ARRIVED AT STATION.

3 Comment for sample 2324 on 11/13/1996
 POWER OUTAGES FROM 11/8/96 - 11/13/96.
 Comment for sample 2324 on 01/08/1997
 LOW EXPOSURE HOURS, PUMP OFF-LINE FOR APPROXIMATELY 90-125 HOURS.
 Comment for sample 2323 on 10/02/1996
 PUMP WAS NOT RUNNING WHEN ARRIVED AT STATION.
 Comment for sample 2323 on 11/13/1996
 POWER OUTAGE FROM 11/8/96 - 11/13/96.
 Comment for sample 2323 on 01/08/1997
 LOW EXPOSURE HOURS, PUMP OFF-LINE FOR APPROXIMATELY 90-125 HOURS.

2327 LESLIE GROVES-RCHLND

2328 LESLIE GROVES-RCHLND *

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/09/1996		1.530E-03	5.890E-02
		{ 4.880E-04}	{ 5.950E-03}
01/23/1996		3.770E-04	1.400E-02
		{ 2.780E-04}	{ 2.050E-03}
02/06/1996		7.670E-04	5.230E-02
		{ 3.540E-04}	{ 5.700E-03}
02/20/1996		1.940E-04	2.680E-02
		{ 2.190E-04}	{ 3.120E-03}
03/05/1996		2.200E-04	1.970E-02
		{ 2.500E-04}	{ 2.520E-03}
03/19/1996		2.310E-04	1.960E-02
		{ 2.430E-04}	{ 2.580E-03}
04/02/1996		6.890E-04	1.860E-02
		{ 3.480E-04}	{ 2.400E-03}
04/16/1996		2.620E-04	1.140E-02
		{ 2.410E-04}	{ 1.820E-03}
04/30/1996		7.430E-06	6.960E-03
		{ 1.850E-04}	{ 1.340E-03}
05/14/1996		3.610E-04	1.390E-02
		{ 2.900E-04}	{ 1.970E-03}
05/28/1996		3.650E-04	7.930E-03
		{ 2.610E-04}	{ 1.460E-03}
06/11/1996		2.790E-05	1.190E-02
		{ 1.730E-04}	{ 1.850E-03}
06/24/1996		7.200E-05	1.190E-02
		{ 1.880E-04}	{ 1.840E-03}
07/08/1996		1.580E-04	9.560E-03
		{ 2.050E-04}	{ 1.610E-03}
07/23/1996		2.690E-04	1.620E-02
		{ 2.320E-04}	{ 2.240E-03}
08/06/1996		7.980E-04	2.010E-02
		{ 3.580E-04}	{ 2.650E-03}
08/20/1996		7.190E-04	1.580E-02
		{ 3.380E-04}	{ 2.150E-03}
09/03/1996		8.130E-04	2.480E-02
		{ 3.650E-04}	{ 3.100E-03}

2327 LESLIE GROVES-RCHLND

2328 LESLIE GROVES-RCHLND •

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/17/1996		3.920E-04	1.250E-02
		{ 2.770E-04}	{ 1.850E-03}
10/01/1996		7.180E-05	1.790E-02
		{ 2.220E-04}	{ 2.330E-03}
10/15/1996		6.000E-04	2.010E-02
		{ 3.220E-04}	{ 2.520E-03}
10/29/1996		6.110E-04	1.400E-02
		{ 3.250E-04}	{ 1.980E-03}
11/12/1996		8.590E-04	2.630E-02
		{ 3.780E-04}	{ 3.140E-03}
11/25/1996		3.130E-04	2.100E-02
		{ 2.550E-04}	{ 2.710E-03}
12/10/1996		6.440E-04	1.210E-02
		{ 3.180E-04}	{ 1.760E-03}
12/24/1996		6.300E-04	2.020E-02
		{ 3.280E-04}	{ 2.530E-03}
01/07/1997		7.980E-04	2.140E-02
		{ 3.620E-04}	{ 2.780E-03}
MEAN		4.733E-04	1.948E-02
MINIMUM		7.430E-06	6.960E-03
MAXIMUM		1.530E-03	5.890E-02
2STD. ERR		5.668E-03	4.502E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- - Analyzed as part of a composite sample only

2325 LESLIE GROVES-RCHLND-LESLIE GROVES-RCHLND,LESLIE GROVES-RCHLND (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/02/1996		1.630E-01 (2.370E-02)	1.250E-04 (2.600E-04)	2.360E-05 (2.590E-04)	1.250E-04 (2.610E-04)	4.570E-03 (6.770E-03)	nra	nra	nra
06/24/1996		1.960E-01 (2.880E-02)	< -3.700E-04 (3.280E-04)	2.180E-04 (2.890E-04)	3.330E-04 (2.760E-04)	1.730E-02 (6.340E-03)	nra	nra	nra
10/01/1996		2.210E-01 (2.910E-02)	4.150E-04 (2.540E-04)	< -1.030E-04 (2.690E-04)	2.640E-04 (2.890E-04)	2.660E-03 (7.870E-03)	nra	nra	nra
01/07/1997		9.060E-02 (1.690E-02)	7.540E-05 (3.400E-04)	2.090E-04 (2.610E-04)	3.030E-05 (3.040E-04)	8.140E-04 (8.090E-03)	< -8.900E-08 (2.230E-07)	1.810E-07 (2.910E-07)	4.170E-06 (6.980E-06)
MEAN		1.677E-01	6.135E-05	8.690E-05	1.881E-04	6.336E-03	-8.900E-08	1.810E-07	4.170E-06
MINIMUM		9.060E-02	< -3.700E-04	< -1.030E-04	3.030E-05	8.140E-04	< -8.900E-08	1.810E-07	4.170E-06
MAXIMUM		2.210E-01	4.150E-04	2.180E-04	3.330E-04	1.730E-02	< -8.900E-08	1.810E-07	4.170E-06
2STD. ERR		5.659E-02	3.242E-04	1.551E-04	1.362E-04	7.468E-03	.000E+00	.000E+00	.000E+00

2325 LESLIE GROVES-RCHLND-LESLIE GROVES-RCHLND, LESLIE GROVES-RCHLND (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
04/02/1996		nra	nra	nra	nra
06/24/1996		nra	nra	nra	nra
10/01/1996		nra	nra	nra	nra
01/07/1997		1.710E-05 (3.540E-06)	8.960E-07 (7.530E-07)	1.770E-05 (3.630E-06)	3.570E-05 (5.126E-06)
MEAN		1.710E-05	8.960E-07	1.770E-05	3.570E-05
MINIMUM		1.710E-05	8.960E-07	1.770E-05	3.570E-05
MAXIMUM		1.710E-05	8.960E-07	1.770E-05	3.570E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 { } - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only

2307 PASCO

2308 KENNEWICK-ELY STREET

OFF DATE	COM	BETA PCI/M3
01/10/1996		5.360E-02
		{ 5.480E-03}
01/24/1996		1.770E-02
		{ 2.380E-03}
02/06/1996		5.530E-02
		{ 5.980E-03}
02/20/1996		2.740E-02
		{ 3.190E-03}
03/05/1996		2.140E-02
		{ 2.770E-03}
03/19/1996		1.990E-02
		{ 2.500E-03}
04/03/1996		1.680E-02
		{ 2.280E-03}
04/16/1996		1.220E-02
		{ 1.880E-03}
05/01/1996		9.060E-03
		{ 1.550E-03}
05/15/1996		1.640E-02
		{ 2.220E-03}
05/29/1996		8.690E-03
		{ 1.540E-03}
06/11/1996		1.410E-02
		{ 2.110E-03}
06/25/1996		1.390E-02
		{ 2.000E-03}
07/09/1996		1.390E-02
		{ 2.010E-03}
07/23/1996		1.760E-02
		{ 2.310E-03}
08/06/1996		1.890E-02
		{ 2.410E-03}
08/20/1996		1.460E-02
		{ 2.040E-03}
09/04/1996		2.610E-02
		{ 3.170E-03}

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/10/1996		9.580E-04	5.400E-02
		{ 3.890E-04}	{ 5.790E-03}
01/24/1996		3.650E-04	1.540E-02
		{ 2.710E-04}	{ 2.090E-03}
02/07/1996	1	3.850E-04	3.850E-02
		{ 2.560E-04}	{ 4.050E-03}
02/21/1996		3.300E-04	2.470E-02
		{ 2.600E-04}	{ 2.920E-03}
03/05/1996		5.040E-04	1.960E-02
		{ 3.140E-04}	{ 2.660E-03}
03/19/1996		2.530E-04	1.670E-02
		{ 2.180E-04}	{ 2.270E-03}
04/03/1996		6.060E-04	1.540E-02
		{ 3.020E-04}	{ 2.030E-03}
04/17/1996		4.530E-04	1.090E-02
		{ 2.730E-04}	{ 1.710E-03}
04/30/1996	2	5.470E-04	1.030E-02
		{ 3.300E-04}	{ 1.720E-03}
05/15/1996		9.220E-04	1.620E-02
		{ 3.700E-04}	{ 2.220E-03}
05/29/1996		2.950E-04	8.740E-03
		{ 2.760E-04}	{ 1.560E-03}
06/12/1996		5.020E-04	1.220E-02
		{ 2.920E-04}	{ 1.830E-03}
06/25/1996	3	7.840E-04	1.450E-02
		{ 3.880E-04}	{ 2.070E-03}
07/10/1996	4	4.290E-04	1.290E-02
		{ 2.820E-04}	{ 1.820E-03}
07/24/1996	5	8.670E-04	2.550E-02
		{ 3.670E-04}	{ 2.980E-03}
08/07/1996	6	8.990E-04	1.660E-02
		{ 3.750E-04}	{ 2.230E-03}
08/21/1996	7	8.790E-04	1.720E-02
		{ 3.590E-04}	{ 2.330E-03}
09/04/1996		7.930E-04	2.220E-02
		{ 3.530E-04}	{ 2.650E-03}

2307 PASCO

OFF DATE	COM	BETA PCI/M3
09/18/1996		nra
10/02/1996		1.780E-02
		(2.380E-03)
10/16/1996		nra
10/30/1996		1.350E-02
		(1.890E-03)
11/13/1996		2.720E-02
		(3.300E-03)
11/26/1996		2.060E-02
		(2.670E-03)
12/11/1996		nra
12/24/1996		2.480E-02
		(3.080E-03)
01/08/1997		nra

MEAN		2.093E-02
MINIMUM		8.690E-03
MAXIMUM		5.530E-02
2STD. ERR		4.179E-03

2308 KENNEWICK-ELY STREET

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/18/1996		1.100E-03	1.380E-02
		(4.160E-04)	(1.990E-03)
10/02/1996	8	4.630E-04	1.540E-02
		(3.040E-04)	(2.160E-03)
10/16/1996		5.200E-04	1.620E-02
		(3.210E-04)	(2.270E-03)
10/30/1996		3.190E-04	1.300E-02
		(2.580E-04)	(1.930E-03)
11/13/1996		6.650E-04	2.630E-02
		(3.460E-04)	(3.100E-03)
11/26/1996		2.780E-04	1.610E-02
		(2.560E-04)	(2.230E-03)
12/11/1996		5.050E-04	9.470E-03
		(3.200E-04)	(1.590E-03)
12/24/1996		6.150E-04	2.070E-02
		(3.740E-04)	(2.670E-03)
01/08/1997		3.930E-04	1.700E-02
		(2.660E-04)	(2.310E-03)

MEAN		5.789E-04	1.850E-02
MINIMUM		2.530E-04	8.740E-03
MAXIMUM		1.100E-03	5.400E-02
2STD. ERR		4.920E-03	3.640E-03

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NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 CONSTRUCTION IN AREA.

2 POWER WILL BE TURNED OFF 5/1/96 FOR NEW POWER POLE.

3 CONSTRUCTION IN AREA, VERY DUSTY.

4 ROAD CONSTRUCTION IN AREA.

5 ROAD CONSTRUCTION IN AREA, DUSTY.

6 CONSTRUCTION IN AREA.

7 CONSTRUCTION IN AREA. HEAVY PARTICLES ON FILTER.

8 POWER OFF WHEN ARRIVED AT STATION.

2305 TRI CITIES-PASCO,KENNEWICK-ELY STREET (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
04/03/1996	1	1.430E-01 { 2.010E-02}	1.480E-04 { 3.150E-04}	< -1.160E-04 { 2.450E-04}	1.070E-04 { 2.800E-04}	1.680E-03 { 6.330E-03}	nra	nra	nra
06/25/1996	2	1.870E-01 { 2.640E-02}	< -2.940E-04 { 4.570E-04}	< -2.550E-04 { 2.800E-04}	1.630E-04 { 2.900E-04}	8.450E-03 { 7.470E-03}	nra	nra	nra
10/02/1996	3	2.480E-01 { 3.180E-02}	1.830E-05 { 3.550E-04}	2.650E-04 { 2.870E-04}	1.780E-05 { 2.870E-04}	3.950E-03 { 6.350E-03}	nra	nra	nra
01/08/1997		8.420E-02 { 1.900E-02}	< -1.560E-04 { 2.470E-04}	6.760E-05 { 2.850E-04}	1.760E-04 { 2.710E-04}	6.830E-03 { 8.420E-03}	2.440E-07 { 2.350E-07}	2.610E-07 { 2.180E-07}	9.350E-06 { 6.010E-06}
MEAN		1.656E-01	-7.093E-05	-9.600E-06	1.160E-04	5.228E-03	2.440E-07	2.610E-07	9.350E-06
MINIMUM		8.420E-02	< -2.940E-04	< -2.550E-04	1.780E-05	1.680E-03	2.440E-07	2.610E-07	9.350E-06
MAXIMUM		2.480E-01	1.480E-04	2.650E-04	1.760E-04	8.450E-03	2.440E-07	2.610E-07	9.350E-06
2STD. ERR		6.924E-02	1.940E-04	2.258E-04	7.196E-05	3.009E-03	.000E+00	.000E+00	.000E+00

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nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2308 on 02/07/1996

CONSTRUCTION IN AREA.

2 Comment for sample 2308 on 04/30/1996

POWER WILL BE TURNED OFF 5/1/96 FOR NEW POWER POLE.

Comment for sample 2308 on 06/25/1996

CONSTRUCTION IN AREA, VERY DUSTY.

3 Comment for sample 2308 on 07/10/1996

ROAD CONSTRUCTION IN AREA.

Comment for sample 2308 on 07/24/1996

ROAD CONSTRUCTION IN AREA, DUSTY.

Comment for sample 2308 on 08/07/1996

CONSTRUCTION IN AREA.

Comment for sample 2308 on 08/21/1996

CONSTRUCTION IN AREA. HEAVY PARTICLES ON FILTER.

Comment for sample 2308 on 10/02/1996

POWER OFF WHEN ARRIVED AT STATION.

2309 BENTON CITY

OFF DATE	COM	BETA PCI/M3
01/18/1996		3.490E-02 (4.020E-03)
02/01/1996		2.950E-02 (3.360E-03)
02/15/1996		4.620E-02 (4.840E-03)
02/29/1996		2.710E-02 (3.320E-03)
03/13/1996		2.560E-02 (3.120E-03)
03/27/1996		1.330E-02 (1.910E-03)
04/11/1996	1	1.590E-02 (2.140E-03)
04/24/1996		7.410E-03 (1.720E-03)
05/08/1996		1.170E-02 (1.800E-03)
05/22/1996		1.330E-02 (2.000E-03)
06/05/1996		9.980E-03 (1.650E-03)
06/18/1996	2	1.420E-02 (1.970E-03)
07/02/1996		1.070E-02 (1.710E-03)
07/16/1996	3	1.650E-02 (2.380E-03)
07/31/1996		1.530E-02 (2.070E-03)
08/14/1996		1.430E-02 (2.080E-03)
08/28/1996		1.870E-02 (2.460E-03)
09/11/1996		1.470E-02 (2.140E-03)

2309 BENTON CITY

OFF DATE	COM	BETA PCI/M3
09/25/1996		1.150E-02 (1.800E-03)
10/09/1996		2.110E-02 (2.740E-03)
10/23/1996		1.460E-02 (2.090E-03)
11/06/1996		1.560E-02 (2.080E-03)
11/20/1996		1.790E-02 (2.310E-03)
12/04/1996		1.980E-02 (2.580E-03)
12/18/1996		8.760E-03 (1.490E-03)
12/31/1996		3.710E-02 (4.330E-03)

MEAN		1.868E-02
MINIMUM		7.410E-03
MAXIMUM		4.620E-02
2STD. ERR		3.706E-03

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* - Analyzed as part of a composite sample only

1 LOCATION BECOMING COMMUNITY OPERATED STATION EFFECTED 4/15/96.

2 ELECTRICITY WAS OFF FOR 2.5 HOURS.

3 NEW PUMP INSTALLED ON 7/3/96 @ 2 P.M., RESET HOUR METER.

2775 BENTON CITY-BENTON CITY (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
12/31/1996	1	3.040E-01 (5.260E-02)	< -5.190E-05 (1.880E-04)	4.160E-05 (1.760E-04)	1.980E-05 (1.720E-04)	3.680E-04 (4.940E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2309 on 04/11/1996

LOCATION BECOMING COMMUNITY OPERATED STATION EFFECTED 4/15/96.

Comment for sample 2309 on 06/18/1996

ELECTRICITY WAS OFF FOR 2.5 HOURS.

Comment for sample 2309 on 07/16/1996

NEW PUMP INSTALLED ON 7/3/96 @ 2 P.M., RESET HOUR METER.

2331 EDWIN MARKHAM SCHOOL

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/10/1996		1.270E-03	5.750E-02
		{ 3.940E-04}	{ 5.970E-03}
01/24/1996		5.080E-04	1.760E-02
		{ 3.020E-04}	{ 2.410E-03}
02/07/1996	1	5.460E-04	4.790E-02
		{ 3.130E-04}	{ 5.270E-03}
02/21/1996		6.780E-04	2.690E-02
		{ 3.360E-04}	{ 3.120E-03}
03/06/1996		3.890E-04	2.030E-02
		{ 2.860E-04}	{ 2.510E-03}
03/20/1996		2.290E-04	1.620E-02
		{ 2.420E-04}	{ 2.210E-03}
03/31/1996		7.830E-04	1.760E-02
		{ 4.100E-04}	{ 2.520E-03}
04/17/1996		1.680E-04	1.060E-02
		{ 1.870E-04}	{ 1.610E-03}
05/01/1996	2	1.560E-04	6.920E-03
		{ 2.280E-04}	{ 1.330E-03}
05/15/1996		3.420E-04	1.450E-02
		{ 2.930E-04}	{ 2.050E-03}
05/29/1996	3	6.700E-05	9.910E-03
		{ 1.760E-04}	{ 1.630E-03}
06/11/1996	4	4.770E-04	1.310E-02
		{ 2.850E-04}	{ 1.890E-03}
06/25/1996	5	2.930E-04	1.240E-02
		{ 2.610E-04}	{ 1.890E-03}
07/10/1996	6	2.090E-04	1.170E-02
		{ 2.120E-04}	{ 1.780E-03}
07/24/1996		2.670E-04	2.550E-02
		{ 2.580E-04}	{ 3.020E-03}
08/07/1996		3.260E-04	1.890E-02
		{ 2.720E-04}	{ 2.460E-03}
08/21/1996		6.390E-04	1.550E-02
		{ 3.320E-04}	{ 2.190E-03}
09/04/1996	7	8.830E-04	2.190E-02
		{ 3.850E-04}	{ 2.790E-03}

2331 EDWIN MARKHAM SCHOOL

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/18/1996	8	3.060E-04	1.560E-02
		{ 2.690E-04}	{ 2.160E-03}
10/02/1996	9	6.540E-04	1.730E-02
		{ 3.590E-04}	{ 2.370E-03}
10/16/1996		4.290E-04	2.170E-02
		{ 2.880E-04}	{ 2.780E-03}
10/30/1996		2.750E-04	1.190E-02
		{ 2.260E-04}	{ 1.840E-03}
11/13/1996	10	4.350E-04	2.700E-02
		{ 2.830E-04}	{ 3.140E-03}
11/26/1996	11	1.850E-04	1.590E-02
		{ 2.190E-04}	{ 2.290E-03}
12/11/1996	12	4.730E-04	9.350E-03
		{ 2.900E-04}	{ 1.520E-03}
12/24/1996	13	5.610E-04	2.230E-02
		{ 3.330E-04}	{ 2.790E-03}
01/08/1997		8.420E-04	1.950E-02
		{ 3.540E-04}	{ 2.540E-03}
-----		-----	-----
MEAN		4.589E-04	1.946E-02
MINIMUM		6.700E-05	6.920E-03
MAXIMUM		1.270E-03	5.750E-02
2STD. ERR		5.461E-03	4.238E-03

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• - Analyzed as part of a composite sample only

1 FILTER IS WET.

2 DIRTY FILTER HEAD.

3 DIRTY FILTER HEAD.

4 DIRTY FILTER HEAD.

5 VERY DIRTY FILTER HEAD.

6 HEAD IS DIRTY.

7 DIRTY FILTER.

8 FILTER DIRTY.

9 DIRTY FILTER HEAD.

10 WET AND DIRTY FILTER HEAD.

11 WET AND DIRTY, SNOW COVERING 1/3 OF HEAD.

12 VERY WET FILTER HEAD.

13 FILTER WET AND DIRTY.

2329 EDWIN MARKHAM SCHOOL-EDWIN MARKHAM SCHOOL (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/31/1996	1	1.340E-01 (2.360E-02)	< -5.680E-04 (6.380E-04)	< -9.410E-05 (4.150E-04)	4.220E-04 (3.690E-04)	2.080E-02 (9.480E-03)	nra	nra	nra
06/25/1996	2	1.870E-01 (3.000E-02)	7.530E-04 (4.410E-04)	< -1.560E-04 (5.030E-04)	1.090E-04 (5.570E-04)	2.970E-02 (1.050E-02)	nra	nra	nra
10/02/1996	3	2.400E-01 (3.430E-02)	2.090E-04 (4.350E-04)	2.360E-04 (4.510E-04)	< -3.820E-05 (4.650E-04)	7.930E-03 (1.110E-02)	nra	nra	nra
01/08/1997	4	7.730E-02 (2.050E-02)	3.910E-04 (3.210E-04)	4.220E-04 (4.680E-04)	7.100E-04 (3.330E-04)	5.860E-04 (1.100E-02)	8.790E-08 (3.920E-07)	2.670E-07 (4.180E-07)	1.600E-05 (1.600E-05)
MEAN		1.596E-01	1.963E-04	1.020E-04	3.007E-04	1.475E-02	8.790E-08	2.670E-07	1.600E-05
MINIMUM		7.730E-02	< -5.680E-04	< -1.560E-04	< -3.820E-05	5.860E-04	8.790E-08	2.670E-07	1.600E-05
MAXIMUM		2.400E-01	7.530E-04	4.220E-04	7.100E-04	2.970E-02	8.790E-08	2.670E-07	1.600E-05
2STD. ERR		6.987E-02	5.574E-04	2.741E-04	3.336E-04	1.300E-02	.000E+00	.000E+00	.000E+00

2329 EDWIN MARKHAM SCHOOL-EDWIN MARKHAM SCHOOL (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/31/1996		nra	nra	nra	nra
06/25/1996		nra	nra	nra	nra
10/02/1996		nra	nra	nra	nra
01/08/1997		2.590E-05 (6.590E-06)	1.440E-06 (1.790E-06)	2.390E-05 (6.400E-06)	5.124E-05 (9.359E-06)
MEAN		2.590E-05	1.440E-06	2.390E-05	5.124E-05
MINIMUM		2.590E-05	1.440E-06	2.390E-05	5.124E-05
MAXIMUM		2.590E-05	1.440E-06	2.390E-05	5.124E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

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nra - Not routinely analyzed or analyzed on a less frequent basis

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- 1 Comment for sample 2331 on 02/07/1996 FILTER IS WET.
- 2 Comment for sample 2331 on 05/01/1996 DIRTY FILTER HEAD.
- Comment for sample 2331 on 05/29/1996 DIRTY FILTER HEAD.
- Comment for sample 2331 on 06/11/1996 DIRTY FILTER HEAD.
- Comment for sample 2331 on 06/25/1996 VERY DIRTY FILTER HEAD.
- 3 Comment for sample 2331 on 07/10/1996 HEAD IS DIRTY.
- Comment for sample 2331 on 09/04/1996 DIRTY FILTER.
- Comment for sample 2331 on 09/18/1996 FILTER DIRTY.
- Comment for sample 2331 on 10/02/1996 DIRTY FILTER HEAD.
- 4 Comment for sample 2331 on 11/13/1996 WET AND DIRTY FILTER HEAD.
- Comment for sample 2331 on 11/26/1996 WET AND DIRTY, SNOW COVERING 1/3 OF HEAD.
- Comment for sample 2331 on 12/11/1996 VERY WET FILTER HEAD.
- Comment for sample 2331 on 12/24/1996 FILTER WET AND DIRTY.

2311 MATTAWA

OFF DATE	COM	BETA PCI/M3
01/08/1996	1	NR
01/22/1996	2	NR
02/05/1996	3	NR
02/19/1996		2.860E-02
03/04/1996		{ 3.280E-03}
		1.890E-02
		{ 2.460E-03}
03/18/1996		1.770E-02
		{ 2.420E-03}
03/30/1996		1.530E-02
		{ 2.320E-03}
04/15/1996		7.690E-03
		{ 1.300E-03}
04/29/1996	4	5.900E-03
		{ 1.240E-03}
05/13/1996		1.310E-02
		{ 1.910E-03}
05/27/1996		7.880E-03
		{ 1.520E-03}
06/10/1996		1.060E-02
		{ 1.700E-03}
06/24/1996		1.140E-02
		{ 1.820E-03}
07/08/1996		1.050E-02
		{ 1.670E-03}
07/22/1996		1.110E-02
		{ 1.720E-03}
08/05/1996		1.520E-02
		{ 2.110E-03}
08/19/1996		1.390E-02
		{ 2.070E-03}
09/02/1996		1.770E-02
		{ 2.550E-03}

2311 MATTAWA

OFF DATE	COM	BETA PCI/M3
09/16/1996		1.460E-02 (2.120E-03)
09/30/1996	5	1.410E-02 (1.990E-03)
10/14/1996		1.970E-02 (2.500E-03)
10/28/1996	6	1.160E-02 (1.750E-03)
11/12/1996		2.400E-02 (2.920E-03)
11/25/1996		2.330E-02 (2.930E-03)
12/09/1996		1.120E-02 (1.750E-03)
12/23/1996		2.000E-02 (2.630E-03)
01/06/1997		2.320E-02 (2.800E-03)

MEAN		1.530E-02
MINIMUM		5.900E-03
MAXIMUM		2.860E-02
2STD. ERR		2.352E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
 - - Analyzed as part of a composite sample only
- 1 NO SAMPLE. OUT OF SERVICE.NO SAMPLE. UNDER CONSTRUCTION.
- 2 NO SAMPLE. SAVE FOR COMPOSITE.
- 3 NO SAMPLE. SAVE FOR COMPOSITE, PUMP NOT RUNNING.
- 4 SPIDER WEB AT TOP OF FILTER.
- 5 SPIDER WEBS ON FILTER COVER.
- 6 TWO FLIES STUCK ON FILTER.

2776 MATTAWA-MATTAWA (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/06/1997	1	2.140E-01 (4.120E-02)	7.800E-06 (1.850E-04)	< -6.470E-06 (1.840E-04)	1.810E-04 (1.540E-04)	1.540E-02 (4.530E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2311 on 01/08/1996

NO SAMPLE. OUT OF SERVICE. NO SAMPLE. UNDER CONSTRUCTION.

Comment for sample 2311 on 01/22/1996

NO SAMPLE. SAVE FOR COMPOSITE.

Comment for sample 2311 on 02/05/1996

NO SAMPLE. SAVE FOR COMPOSITE, PUMP NOT RUNNING.

Comment for sample 2311 on 05/13/1996

SPIDER WEB AT TOP OF FILTER.

Comment for sample 2311 on 09/30/1996

SPIDER WEBS ON FILTER COVER.

Comment for sample 2311 on 10/28/1996

TWO FLIES STUCK ON FILTER.

2767 OTHELLO

OFF DATE	COM	BETA PCI/M3
01/08/1996		5.500E-02 (5.820E-03)
01/22/1996		1.990E-02 (2.650E-03)
02/05/1996	1	5.320E-02 (5.270E-03)
02/20/1996		2.650E-02 (3.270E-03)
03/04/1996		2.110E-02 (2.680E-03)
03/18/1996		1.900E-02 (2.420E-03)
04/02/1996		1.810E-02 (2.180E-03)
04/15/1996		1.160E-02 (1.850E-03)
04/29/1996		6.910E-03 (1.330E-03)
05/13/1996		1.700E-02 (2.360E-03)
05/28/1996	2	1.100E-02 (1.830E-03)
06/10/1996	3	1.200E-02 (1.950E-03)
06/24/1996		1.090E-02 (1.720E-03)
07/08/1996		9.940E-03 (1.720E-03)
07/22/1996	4	NR
08/05/1996		1.780E-02 (2.330E-03)
08/19/1996		1.370E-02 (1.990E-03)
09/04/1996		2.910E-02 (3.270E-03)

2767 OTHELLO

OFF DATE	COM	BETA PCI/M3
09/17/1996		1.420E-02
		{ 2.120E-03}
09/30/1996		1.420E-02
		{ 2.180E-03}
10/14/1996		2.230E-02
		{ 2.710E-03}
10/28/1996		1.230E-02
		{ 1.900E-03}
11/11/1996		2.260E-02
		{ 2.750E-03}
11/25/1996		2.240E-02
		{ 2.760E-03}
12/09/1996		1.530E-02
		{ 2.090E-03}
12/23/1996		2.170E-02
		{ 2.680E-03}
01/06/1997		2.370E-02
		{ 2.850E-03}
MEAN		2.006E-02
MINIMUM		6.910E-03
MAXIMUM		5.500E-02
2STD. ERR		4.483E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 FILTER DARK GRAY
- 2 EXPOSURE HOURS LOWER THAN USUAL.
- 3 EXPOSURE HOUR METER NOT WORKING, ESTIMATED HOURS.
- 4 NO SAMPLE. PUMP OFF, UNKNOWN EXPOSURE HOURS.

2777 OTHELLO-OTHELLO (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3
01/06/1997	1	3.060E-01 { 5.590E-02 }	< -3.000E-05 { 2.640E-04 }	< -7.040E-05 { 2.090E-04 }	7.250E-05 { 1.750E-04 }	5.090E-03 { 3.860E-03 }

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- Analyzed as part of a composite sample only

1 Comment for sample 2767 on 02/05/1996
FILTER DARK GRAY

Comment for sample 2767 on 05/28/1996
EXPOSURE HOURS LOWER THAN USUAL.

Comment for sample 2767 on 06/10/1996
EXPOSURE HOUR METER NOT WORKING, ESTIMATED HOURS.

Comment for sample 2767 on 07/22/1996
NO SAMPLE. PUMP OFF, UNKNOWN EXPOSURE HOURS.

2315 SUNNYSIDE

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/18/1996		6.260E-04	3.390E-02
		(3.170E-04)	(3.900E-03)
02/01/1996		1.920E-04	1.890E-02
		(2.320E-04)	(2.470E-03)
02/15/1996		9.380E-04	4.100E-02
		(3.830E-04)	(4.630E-03)
02/29/1996		4.180E-04	2.280E-02
		(2.820E-04)	(2.820E-03)
03/13/1996		5.740E-04	2.110E-02
		(3.290E-04)	(2.710E-03)
03/27/1996	1	6.110E-04	1.250E-02
		(3.310E-04)	(1.880E-03)

MEAN		5.598E-04	2.503E-02
MINIMUM		1.920E-04	1.250E-02
MAXIMUM		9.380E-04	4.100E-02
2STD. ERR		2.019E-04	8.553E-03

2313 SUNNYSIDE-SUNNYSIDE,SUNNYSIDE (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/27/1996	1	1.390E-01 (2.140E-02)	1.480E-04 (2.750E-04)	< -2.250E-04 (2.740E-04)	3.920E-04 (2.910E-04)	6.760E-03 (8.620E-03)	nra	nra	nra

2313 SUNNYSIDE-SUNNYSIDE,SUNNYSIDE (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UISO_TOTAL PCI/M3
03/27/1996		nra	nra	nra	nra

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2315 on 03/27/1996

SAMPLE LOCATION BEING DISCONTINUED.

Comment for sample 2316 on 03/27/1996

SAMPLE LOATION BEING DISCONTINUED.

2319 YAKIMA

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/18/1996		7.360E-04	2.990E-02
		{ 3.610E-04}	{ 3.570E-03}
02/01/1996		6.090E-05	1.400E-02
		{ 2.270E-04}	{ 2.190E-03}
02/15/1996	1	6.750E-04	2.860E-02
		{ 3.650E-04}	{ 3.420E-03}
02/29/1996		3.070E-04	2.320E-02
		{ 2.590E-04}	{ 2.930E-03}
03/13/1996		3.930E-04	1.780E-02
		{ 2.670E-04}	{ 2.400E-03}
03/27/1996		2.940E-04	1.230E-02
		{ 2.620E-04}	{ 1.820E-03}
04/11/1996		1.150E-04	1.390E-02
		{ 2.040E-04}	{ 1.990E-03}
04/25/1996		2.280E-04	5.530E-03
		{ 2.530E-04}	{ 1.250E-03}
05/09/1996		8.090E-04	1.180E-02
		{ 4.220E-04}	{ 1.980E-03}
05/23/1996		4.790E-04	1.270E-02
		{ 3.010E-04}	{ 1.890E-03}
06/06/1996		4.760E-04	1.160E-02
		{ 3.070E-04}	{ 1.760E-03}
06/19/1996	<	-1.690E-04	1.180E-02
		{ 1.210E-04}	{ 1.760E-03}
07/03/1996		1.110E-04	9.570E-03
		{ 2.000E-04}	{ 1.600E-03}
07/18/1996		3.400E-04	1.280E-02
		{ 2.440E-04}	{ 1.830E-03}
08/01/1996		4.050E-04	1.860E-02
		{ 2.740E-04}	{ 2.500E-03}
08/15/1996		1.710E-04	1.460E-02
		{ 2.030E-04}	{ 2.110E-03}
08/30/1996		5.180E-04	2.160E-02
		{ 2.880E-04}	{ 2.610E-03}
09/12/1996		6.270E-04	1.460E-02
		{ 3.530E-04}	{ 2.120E-03}

2319 YAKIMA

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/26/1996		4.100E-04	1.280E-02
		(2.670E-04)	(1.870E-03)
10/10/1996		4.470E-04	2.420E-02
		(2.820E-04)	(3.020E-03)
10/24/1996		3.720E-04	1.030E-02
		(2.790E-04)	(1.670E-03)
11/07/1996		4.210E-04	1.730E-02
		(2.940E-04)	(2.270E-03)
11/21/1996		1.570E-04	1.550E-02
		(2.060E-04)	(2.120E-03)
12/05/1996		2.580E-04	1.550E-02
		(2.390E-04)	(2.110E-03)
12/19/1996		3.240E-04	4.740E-03
		(2.600E-04)	(1.130E-03)
01/02/1997		9.470E-04	2.400E-02
		(3.740E-04)	(3.010E-03)

MEAN		3.812E-04	1.574E-02
MINIMUM	<	-1.690E-04	4.740E-03
MAXIMUM		9.470E-04	2.990E-02
2STD. ERR		3.520E-03	2.480E-03

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 FILTER ALMOST TOTALLY CLOGGED, RESULTING IN DIFFERENCE IN CFMs & CFHs. READJUSTED SILICA GEL AFTER FILTER CHANGE.

SURFACE ENVIRONMENTAL SURVEILLANCE DATA REPORT 01/05/1996 TO 01/09/1997

AIR - COMPOSITED SAMPLES

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2317 YAKIMA-YAKIMA (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/27/1996	1	1.250E-01 (2.860E-02)	6.840E-04 (4.380E-04)	3.400E-05 (5.130E-04)	< -3.360E-04 (5.850E-04)	3.620E-02 (1.130E-02)	nra	nra	nra
07/03/1996		1.850E-01 (2.940E-02)	< -2.370E-04 (5.980E-04)	1.390E-04 (4.420E-04)	< -8.400E-05 (5.040E-04)	5.610E-03 (1.050E-02)	nra	nra	nra
10/10/1996		2.090E-01 (3.190E-02)	6.590E-04 (4.220E-04)	1.150E-04 (4.850E-04)	3.180E-04 (4.440E-04)	3.450E-03 (1.200E-02)	nra	nra	nra
01/02/1997		6.220E-02 (1.960E-02)	4.240E-04 (3.490E-04)	< -5.280E-04 (5.710E-04)	7.310E-05 (5.420E-04)	6.470E-02 (1.590E-02)	< -2.830E-07 (2.410E-07)	4.970E-08 (3.990E-07)	< -1.320E-06 (1.430E-05)
MEAN		1.453E-01	3.825E-04	-6.000E-05	-7.225E-06	2.749E-02	-2.830E-07	4.970E-08	-1.320E-06
MINIMUM		6.220E-02	< -2.370E-04	< -5.280E-04	< -3.360E-04	3.450E-03	< -2.830E-07	4.970E-08	< -1.320E-06
MAXIMUM		2.090E-01	6.840E-04	1.390E-04	3.180E-04	6.470E-02	< -2.830E-07	4.970E-08	< -1.320E-06
2STD. ERR		6.571E-02	4.293E-04	3.152E-04	2.746E-04	2.897E-02	.000E+00	.000E+00	.000E+00

2317 YAKIMA-YAKIMA (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UIISO_TOTAL PCI/M3
03/27/1996		nra	nra	nra	nra
07/03/1996		nra	nra	nra	nra
10/10/1996		nra	nra	nra	nra
01/02/1997		8.980E-06 (3.210E-06)	< -1.570E-08 (7.630E-07)	1.110E-05 (3.590E-06)	2.006E-05 (4.876E-06)
MEAN		8.980E-06	-1.570E-08	1.110E-05	2.006E-05
MINIMUM		8.980E-06	< -1.570E-08	1.110E-05	2.006E-05
MAXIMUM		8.980E-06	< -1.570E-08	1.110E-05	2.006E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

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which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

• - Analyzed as part of a composite sample only

1 Comment for sample 2319 on 02/15/1996

FILTER ALMOST TOTALLY CLOGGED, RESULTING IN DIFFERENCE IN CFMs & CFHs. READJUSTED SILICA GEL AFTER FILTER CHANGE.

2825 TOPPENISH

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
01/17/1996		4.050E-04	2.550E-02
		(2.520E-04)	(2.920E-03)
01/31/1996		4.880E-04	1.980E-02
		(3.010E-04)	(2.640E-03)
02/14/1996		7.970E-04	3.050E-02
		(3.670E-04)	(3.630E-03)
02/28/1996		2.360E-04	2.170E-02
		(2.580E-04)	(2.750E-03)
03/13/1996		5.330E-04	3.630E-02
		(4.490E-04)	(4.350E-03)
03/26/1996		4.190E-04	1.250E-02
		(2.740E-04)	(1.930E-03)
04/10/1996		3.780E-04	1.650E-02
		(2.660E-04)	(2.280E-03)
04/24/1996		< -2.400E-05	4.310E-03
		(1.700E-04)	(1.090E-03)
05/08/1996		4.940E-04	9.320E-03
		(3.400E-04)	(1.610E-03)
05/22/1996		1.370E-04	1.220E-02
		(2.380E-04)	(1.820E-03)
06/05/1996		4.630E-04	1.110E-02
		(2.780E-04)	(1.700E-03)
06/18/1996		2.250E-04	1.170E-02
		(2.570E-04)	(1.780E-03)
07/01/1996		3.310E-04	9.170E-03
		(2.790E-04)	(1.670E-03)
07/17/1996		1.480E-04	1.020E-02
		(1.880E-04)	(1.620E-03)
08/01/1996		3.550E-04	1.940E-02
		(2.530E-04)	(2.440E-03)
08/14/1996	1	3.200E-04	1.500E-02
		(2.580E-04)	(2.100E-03)
08/28/1996		3.630E-04	1.780E-02
		(2.720E-04)	(2.430E-03)
09/12/1996		4.420E-04	1.420E-02
		(2.730E-04)	(2.030E-03)

2825 TOPPENISH

OFF DATE	COM	ALPHA PCI/M3	BETA PCI/M3
09/25/1996		3.030E-04 (2.490E-04)	9.520E-03 (1.600E-03)
10/09/1996		5.160E-04 (2.890E-04)	2.540E-02 (2.990E-03)
10/23/1996		3.180E-04 (2.550E-04)	1.320E-02 (1.920E-03)
11/06/1996		4.360E-04 (2.720E-04)	2.030E-02 (2.640E-03)
11/20/1996	2	5.190E-04 (3.140E-04)	1.740E-02 (2.360E-03)
12/04/1996		3.420E-04 (2.590E-04)	1.950E-02 (2.590E-03)
12/18/1996		2.790E-04 (2.120E-04)	7.990E-03 (1.390E-03)
01/01/1997		1.190E-03 (4.340E-04)	3.170E-02 (3.570E-03)
MEAN		4.005E-04	1.701E-02
MINIMUM	<	2.400E-05	4.310E-03
MAXIMUM		1.190E-03	3.630E-02
2STD. ERR		3.944E-03	3.103E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 CALCULATED EXPOSURE HOURS BY SUBTRACTING SILICA GEL HOURS FROM LAST FILTER COLLECTION.

2 TEMPORARY POWER OUTAGE DUE TO DOWNED POWER LINES.

2823 TOPPENISH-TOPPENISH (FILTER1 , PARTICULATE)

OFF DATE	COM	BE-7 PCI/M3	CO-60 PCI/M3	CS-134 PCI/M3	CS-137 PCI/M3	K-40 PCI/M3	PU-238 PCI/M3	PU39-40 PCI/M3	SR-90 PCI/M3
03/26/1996		1.320E-01 { 2.810E-02}	2.760E-05 { 6.540E-04}	5.910E-04 { 5.220E-04}	1.040E-04 { 5.570E-04}	4.090E-02 { 1.230E-02}	nra	nra	nra
07/01/1996		1.510E-01 < { 2.580E-02}	.000E+00 { 4.810E-04}	3.100E-04 { 4.620E-04}	2.130E-04 { 4.220E-04}	3.310E-03 { 8.240E-03}	nra	nra	nra
10/09/1996	1	1.880E-01 { 3.010E-02}	4.100E-04 { 4.460E-04}	< -7.480E-04 { 4.850E-04}	< .000E+00 { 4.730E-04}	4.430E-03 { 9.810E-03}	nra	nra	nra
01/01/1997	2	8.060E-02 { 2.190E-02}	< -1.000E-04 { 5.880E-04}	1.290E-04 { 5.750E-04}	2.660E-04 { 5.310E-04}	3.400E-02 < { 1.140E-02}	-1.960E-07 { 2.080E-07}	1.610E-07 { 5.800E-07}	3.160E-06 { 1.540E-05}
MEAN		1.379E-01	8.440E-05	7.050E-05	1.458E-04	2.066E-02	-1.960E-07	1.610E-07	3.160E-06
MINIMUM		8.060E-02	< -1.000E-04	< -7.480E-04	< .000E+00	3.310E-03	< -1.960E-07	1.610E-07	3.160E-06
MAXIMUM		1.880E-01	4.100E-04	5.910E-04	2.660E-04	4.090E-02	< -1.960E-07	1.610E-07	3.160E-06
2STD. ERR		4.472E-02	2.239E-04	5.778E-04	1.183E-04	1.960E-02	.000E+00	.000E+00	.000E+00

2823 TOPPENISH-TOPPENISH (FILTER1 , PARTICULATE)

OFF DATE	COM	U-234 PCI/M3	U-235 PCI/M3	U-238 PCI/M3	UISO_TOTAL PCI/M3
03/26/1996		nra	nra	nra	nra
07/01/1996		nra	nra	nra	nra
10/09/1996		nra	nra	nra	nra
01/01/1997		1.530E-05 (4.330E-06)	< -1.530E-07 (5.880E-07)	1.360E-05 (4.070E-06)	2.875E-05 (5.972E-06)
MEAN		1.530E-05	-1.530E-07	1.360E-05	2.875E-05
MINIMUM		1.530E-05	< -1.530E-07	1.360E-05	2.875E-05
MAXIMUM		1.530E-05	< -1.530E-07	1.360E-05	2.875E-05
2STD. ERR		.000E+00	.000E+00	.000E+00	.000E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 Comment for sample 2825 on 08/14/1996

CALCULATED EXPOSURE HOURS BY SUBTRACTING SILICA GEL HOURS FROM LAST FILTER COLLECTION.

2 Comment for sample 2825 on 11/20/1996

TEMPORARY POWER OUTAGE DUE TO DOWNED POWER LINES.

2200 200 ESE (HALOGEN , CHARCOAL_CARTRIDGE)

OFF DATE	COM	I-129 PCI/M3
04/02/1996		4.684E-05 (7.119E-06)
06/24/1996		3.248E-05 (2.988E-06)
10/15/1996		3.686E-05 (4.645E-06)
01/07/1997		4.184E-05 (3.682E-06)

MEAN		3.951E-05
MINIMUM		3.248E-05
MAXIMUM		4.684E-05
2STD. ERR		6.208E-06

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 { } - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 • - Analyzed as part of a composite sample only

2202 RINGOLD MET TOWER (HALOGEN , CHARCOAL_CARTRIDGE)

OFF DATE	COM	I-129 PCI/M3
03/21/1996		6.580E-07
		(5.132E-08)
07/12/1996		6.070E-07
		(4.856E-08)
10/03/1996		8.070E-07
		(5.003E-08)
12/26/1996		7.220E-07
		(5.632E-08)

MEAN		6.985E-07
MINIMUM		6.070E-07
MAXIMUM		8.070E-07
2STD. ERR		8.629E-08

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only

2204 BYERS LANDING (HALOGEN , CHARCOAL_CARTRIDGE)

OFF DATE	COM	I-129 PCI/M3
03/21/1996		1.930E-06 (2.046E-07)
07/12/1996		1.301E-06 (1.145E-07)
10/03/1996		1.273E-06 (9.929E-08)
01/09/1997		1.914E-06 (9.953E-08)
MEAN		1.605E-06
MINIMUM		1.273E-06
MAXIMUM		1.930E-06
2STD. ERR		3.669E-07

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only

2206 YAKIMA (HALOGEN , CHARCOAL_CARTRIDGE)

OFF DATE	COM	I-129 PCI/M3
03/27/1996		8.300E-08 (1.046E-08)
06/19/1996		3.400E-08 (5.644E-09)
10/10/1996		5.500E-08 (4.070E-09)
01/02/1997		4.500E-08 (5.130E-09)

MEAN		5.425E-08
MINIMUM		3.400E-08
MAXIMUM		8.300E-08
2STD. ERR		2.100E-08

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

2208 100 K AREA (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/02/1996		7.780E-01 (1.080E+00)
01/30/1996	1	5.890E-01 (6.760E-01)
02/27/1996		5.360E-01 (7.200E-01)
03/26/1996		1.080E+00 (1.000E+00)
04/23/1996		4.910E-02 (1.040E+00)
05/21/1996		4.690E-01 (9.650E-01)
06/18/1996		6.750E-01 (7.610E-01)
07/16/1996		7.740E-03 (1.030E+00)
08/14/1996	2	< -3.550E-02 (2.980E-01)
09/10/1996		1.120E+00 (1.750E+00)
10/08/1996		3.490E-01 (7.390E-01)
11/05/1996		1.270E+00 (1.550E+00)
12/03/1996		8.170E-01 (8.560E-01)
12/31/1996		5.970E-01 (9.340E-01)

MEAN		5.930E-01
MINIMUM	<	-3.550E-02
MAXIMUM		1.270E+00
2STD. ERR		2.187E-01

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
- { } - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 FIRST COLUMN 50% LIGHTER IN COLOR.
- 2 NO COLOR CHANGE IN COLUMNS.

2209 100 N-1325 CRIB (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/02/1996		5.720E-01 (1.180E+00)
01/30/1996		4.930E-01 (6.710E-01)
02/27/1996		9.630E-02 (7.110E-01)
03/26/1996		9.280E-01 (1.040E+00)
04/23/1996		< -6.850E-02 (9.350E-01)
05/21/1996		4.400E-01 (1.060E+00)
06/18/1996		5.310E-01 (1.070E+00)
07/16/1996	1	NR
08/14/1996	2	NR
09/10/1996	3	NR
10/08/1996	4	6.990E-01 (1.220E+00)
11/05/1996		1.040E+00 (1.110E+00)
12/03/1996		4.970E-01 (9.070E-01)
01/14/1997	5	2.690E-01 (7.710E-01)

MEAN		4.997E-01
MINIMUM		< -6.850E-02
MAXIMUM		1.040E+00
2STD. ERR		1.967E-01

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 NO SAMPLE. POWER OUTAGE.
- 2 NO SAMPLE. POWER OUTAGE.
- 3 NO SAMPLE. POWER OUTAGE.
- 4 2 COLUMNS SATURATED.
- 5 UNABLE TO COLLECT SAMPLE ON 12/31/96 SO SAMPLE RAN FOR 6 WEEKS.

2210 200 ESE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/23/1996		1.220E+00 { 1.170E+00}
02/20/1996		1.060E-01 { 7.900E-01}
03/19/1996	1	1.130E+00 { 9.920E-01}
04/16/1996		2.350E-01 { 1.270E+00}
05/14/1996		8.370E-01 { 1.030E+00}
06/11/1996		1.110E+00 { 1.020E+00}
07/09/1996		2.540E-01 { 1.140E+00}
08/07/1996		6.040E-01 { 1.240E+00}
09/03/1996		9.140E-01 { 1.020E+00}
10/01/1996		2.470E+00 { 1.440E+00}
10/29/1996		4.670E-01 { 6.980E-01}
11/25/1996		1.260E+00 { 9.310E-01}
12/20/1996		5.710E-01 { 1.150E+00}

MEAN		8.598E-01
MINIMUM		1.060E-01
MAXIMUM		2.470E+00
2STD. ERR		3.453E-01

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 { } - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 • - Analyzed as part of a composite sample only
 1 FIRST COLUMN 1/8 LIGHT, THIRD COLUMN 1/2 LIGHT AND LEAK IN "O" RING, REMOVED "O" RING.

2211 200 TEL. EXCHANGE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/23/1996		4.180E-01 (9.500E-01)
02/20/1996		2.220E-02 (6.570E-01)
03/19/1996		5.950E-02 (8.070E-01)
04/16/1996		1.660E-01 (9.360E-01)
05/14/1996		5.630E-01 (1.030E+00)
06/11/1996	1	1.310E+00 (1.220E+00)
07/09/1996		< -3.990E-02 (9.640E-01)
08/07/1996		9.790E-01 (1.370E+00)
09/03/1996	2	2.760E+00 (2.400E+00)
10/01/1996		1.690E+00 (1.370E+00)
10/29/1996		2.210E-01 (1.350E+00)
11/25/1996		9.280E-01 (1.080E+00)
12/20/1996		8.700E-01 (9.610E-01)

MEAN		7.651E-01
MINIMUM		< -3.990E-02
MAXIMUM		2.760E+00
2STD. ERR		4.452E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 CAP ON FIRST COLUMN LOOSE BY 1/2 TURN. TWO COLUMNS WERE LIGHT IN COLOR.

2 EXPOSURE HOURS ESTIMATED.

2212 300 SOUTH GATE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/31/1996		4.810E-01 (5.840E-01)
02/28/1996		3.150E-01 (4.140E-01)
03/27/1996		2.210E+00 (1.130E+00)
04/24/1996		4.310E-01 (6.530E-01)
05/22/1996		6.980E-01 (1.140E+00)
06/19/1996		4.870E-01 (5.970E-01)
07/17/1996		6.360E-01 (9.930E-01)
08/14/1996	<	-7.320E-01 (1.420E+00)
09/11/1996		1.350E+00 (1.240E+00)
10/09/1996		2.350E-02 (1.660E+00)
11/06/1996		6.400E-01 (1.000E+00)
12/04/1996		4.390E-01 (5.730E-01)
01/06/1997		7.780E-02 (4.710E-01)
MEAN		5.428E-01
MINIMUM	<	-7.320E-01
MAXIMUM		2.210E+00
2STD. ERR		3.812E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only

2213 300 TRENCH (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/31/1996	1	NR
02/28/1996	2	NR
03/27/1996		7.030E-01 (9.790E-01)
04/24/1996		< -1.140E-01 (1.200E+00)
05/22/1996		9.950E-01 (1.010E+00)
06/19/1996		8.410E-01 (1.050E+00)
07/17/1996		9.130E-01 (1.360E+00)
08/14/1996		< -3.620E-01 (7.730E-01)
09/11/1996		1.310E+00 (1.580E+00)
10/09/1996		< -3.220E-02 (1.130E+00)
11/06/1996		< -2.710E-01 (8.110E-01)
12/04/1996		4.830E-01 (9.770E-01)
01/06/1997		4.080E-01 (7.510E-01)

MEAN		4.431E-01
MINIMUM		< -3.620E-01
MAXIMUM		1.310E+00
2STD. ERR		3.411E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 NO SAMPLE. POWER OUTAGE.
 2 NO SAMPLE. POWER OUTAGE.

2215 300 NE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/31/1996	1	1.700E-01 (6.060E-01)
02/28/1996		3.590E-01 (7.100E-01)
03/27/1996		6.870E-01 (8.200E-01)
04/24/1996		1.200E-01 (8.090E-01)
05/22/1996		2.780E-01 (6.620E-01)
06/19/1996		1.630E-02 (1.370E+00)
07/17/1996		1.460E+00 (1.940E+00)
08/14/1996	<	-1.120E+00 (1.890E+00)
09/11/1996		1.410E+00 (2.230E+00)
10/09/1996	<	-2.700E-01 (1.370E+00)
11/06/1996		9.600E-01 (1.260E+00)
12/04/1996		4.700E-01 (7.770E-01)
01/06/1997	2	NR

MEAN		3.784E-01
MINIMUM	<	-1.120E+00
MAXIMUM		1.460E+00
2STD. ERR		4.117E-01

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
- () - Total Propagated Analytical Uncertainty.
- NR - No result reported.
- nra - Not routinely analyzed or analyzed on a less frequent basis
- * - Analyzed as part of a composite sample only
- 1 FIRST COLUMN 75% LIGHTER IN COLOR.
- 2 NO SAMPLE. HOUR METER RUNNING BUT NO AIR FLOW.

2216 400 E (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/30/1996	1	2.110E-01 (4.230E-01)
02/27/1996		8.720E-01 (5.470E-01)
04/23/1996	2	NR
05/21/1996	3	NR
06/18/1996	4	NR
07/16/1996	5	NR
08/14/1996	6	NR
09/10/1996	7	NR
10/08/1996	8	NR
11/05/1996		2.450E-01 (1.200E+00)
12/03/1996		1.480E+00 (1.110E+00)
12/31/1996		1.740E-01 (6.890E-01)
MEAN		5.964E-01
MINIMUM		1.740E-01
MAXIMUM		1.480E+00
2STD. ERR		5.113E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 FIRST COLUMN 25% LIGHTER IN COLOR.

2 NO SAMPLE. POWER OUTAGE.

3 NO SAMPLE. POWER OUTAGE.

4 NO SAMPLE. POWER OUTAGE.

5 NO SAMPLE. POWER OUTAGE.

6 NO SAMPLE. POWER OUTAGE.

7 NO SAMPLE. POWER OUTAGE.

8 NO SAMPLE. POWER OUTAGE.

3000 400 S (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
03/26/1996	1	NR
04/23/1996		8.050E-01 (9.420E-01)
05/21/1996		3.050E-01 (7.470E-01)
06/18/1996		8.490E-01 (9.300E-01)
07/16/1996		4.790E-01 (8.690E-01)
08/14/1996		< -3.240E-01 (1.490E+00)
09/10/1996		1.470E+00 (1.350E+00)
10/08/1996		1.800E+00 (1.470E+00)
MEAN		7.691E-01
MINIMUM		< -3.240E-01
MAXIMUM		1.800E+00
2STD. ERR		5.395E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 NO SAMPLE. SAMPLE RAN HALF AT 400E AND HALF AT 400S.

2217 RINGOLD MET TOWER (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/11/1996		1.010E+00 (1.140E+00)
02/23/1996		1.030E-01 (5.240E-01)
03/21/1996		1.040E-01 (5.720E-01)
04/18/1996		2.750E-01 (1.420E+00)
05/16/1996		< -4.400E-01 (1.340E+00)
06/13/1996		< -2.930E-01 (1.720E+00)
07/12/1996	1	1.350E+00 (1.460E+00)
08/08/1996		5.570E-01 (1.770E+00)
09/05/1996		5.180E+00 (2.350E+00)
10/03/1996	2	9.520E-02 (1.180E+00)
10/31/1996		3.940E-01 (1.220E+00)
11/27/1996		4.190E-01 (1.020E+00)
12/26/1996		4.310E-01 (6.720E-01)

MEAN		7.066E-01
MINIMUM		< -4.400E-01
MAXIMUM		5.180E+00
2STD. ERR		7.909E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 TWO COLUMNS COLORED.
2 1.4 COLUMNS SATURATED.

2218 DOGWOOD MET TOWER (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/11/1996		8.440E-01 (1.280E+00)
02/23/1996		< -7.580E-02 (1.110E+00)
03/21/1996	1	< -3.650E-03 (9.910E-01)
04/18/1996		5.490E-01 (1.320E+00)
05/16/1996		< -2.210E-01 (1.270E+00)
06/13/1996		4.390E-01 (1.160E+00)
07/12/1996		4.370E-01 (6.660E-01)
08/08/1996		8.360E-01 (1.370E+00)
09/05/1996		1.680E+00 (2.080E+00)
10/03/1996	2	5.360E-01 (1.610E+00)
10/31/1996		4.670E-01 (1.570E+00)
11/27/1996		1.140E+00 (1.020E+00)
12/26/1996		1.120E-01 (6.900E-01)

MEAN		5.184E-01
MINIMUM		< -2.210E-01
MAXIMUM		1.680E+00
2STD. ERR		2.908E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 APPROXIMATELY 3-DAY POWER OUTAGE BY LAND OWNER.

2 DUST IN AREA DUE TO HARVESTING TRUCKS.

2219 BYERS LANDING (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/11/1996		1.500E+00 (1.140E+00)
02/23/1996		< -1.860E-01 (1.140E+00)
03/21/1996		1.910E-01 (9.370E-01)
04/18/1996		7.610E-01 (1.050E+00)
05/16/1996		2.530E-01 (1.300E+00)
06/13/1996		< -9.990E-02 (1.050E+00)
07/12/1996	1	8.080E-01 (1.030E+00)
08/08/1996		1.110E+00 (1.750E+00)
09/05/1996		2.390E-01 (2.180E+00)
10/03/1996	2	7.960E-01 (1.500E+00)
10/31/1996		4.590E-01 (1.510E+00)
11/27/1996		6.590E-01 (1.060E+00)
01/09/1997	3	NR

MEAN		5.408E-01
MINIMUM		< -1.860E-01
MAXIMUM		1.500E+00
2STD. ERR		2.852E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

• - Analyzed as part of a composite sample only

1 TWO COLUMNS COLORED.

2 2 COLUMNS SATURATED.

3 NO SAMPLE. POWER OUTAGE AND BAD HOUR METER.

2220 PROSSER BARRICADE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
02/01/1996		1.630E-01 (2.390E-01)
02/29/1996		2.850E-01 (3.470E-01)
03/27/1996		2.550E-01 (3.450E-01)
04/25/1996		8.620E-02 (3.400E-01)
05/23/1996		2.310E-01 (4.260E-01)
06/19/1996		1.050E-01 (2.730E-01)
07/18/1996		7.620E-02 (1.790E-01)
08/15/1996	1	1.470E-01 (6.840E-01)
09/12/1996		2.020E-01 (6.730E-01)
10/10/1996		6.150E-03 (5.810E-01)
11/07/1996		< -1.720E-01 (3.980E-01)
12/05/1996		1.330E-01 (3.580E-01)
01/02/1997		2.090E-01 (3.670E-01)

MEAN		1.328E-01
MINIMUM		< -1.720E-01
MAXIMUM		2.850E-01
2STD. ERR		6.690E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 DOOR ON MCI WAS OPEN.

2221 WAHLUKE SLOPE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/25/1996		< -8.720E-02 (8.290E-01)
02/21/1996		1.900E-01 (3.820E-01)
03/20/1996		1.300E-01 (3.970E-01)
04/17/1996		9.860E-02 (1.730E-01)
05/15/1996		1.110E-01 (2.120E-01)
06/12/1996		5.430E-02 (2.380E-01)
07/09/1996		8.970E-02 (2.120E-01)
08/07/1996	1	2.120E-01 (3.020E-01)
09/04/1996		1.710E-01 (2.840E-01)
10/02/1996		4.210E-01 (8.680E-01)
10/30/1996		4.680E-01 (7.930E-01)
11/26/1996		8.550E-01 (1.030E+00)
01/08/1997	2	4.220E-02 (9.460E-01)

MEAN		2.120E-01
MINIMUM		< -8.720E-02
MAXIMUM		8.550E-01
2STD. ERR		1.352E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 ALL THREE COLUMNS BLUE.
2 UNABLE TO COLLECT SAMPLE ON 12/23/96 SO SAMPLE RAN FOR 6 WEEKS.

2222 BASIN CITY SCHOOL (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/24/1996	1	2.150E-01 (3.420E-01)
02/21/1996		2.500E-01 (5.300E-01)
03/20/1996		1.000E-01 (1.140E+00)
04/17/1996	2	1.290E-01 (1.000E+00)
05/15/1996	3	< -2.000E-01 (1.210E+00)
06/13/1996	4	1.220E-01 (2.170E-01)
07/10/1996	5	2.720E-01 (1.110E+00)
08/07/1996	6	5.650E-01 (9.020E-01)
09/04/1996	7	2.710E-01 (1.820E+00)
10/02/1996	8	6.870E-01 (1.870E+00)
10/30/1996	9	5.910E-01 (1.010E+00)
11/26/1996	10	1.130E+00 (1.060E+00)
12/24/1996	11	5.100E-01 (8.990E-01)

MEAN		3.571E-01
MINIMUM		< -2.000E-01
MAXIMUM		1.130E+00
2STD. ERR		1.866E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 FIRST COLUMN HALF SATURATED.
2 FIRST TWO COLUMNS AND PART OF THIRD SATURATED.
3 FIRST COLUMN AND PART OF SECOND COLUMN SATURATED.
4 PART OF FIRST COLUMN APPEARS SATURATED.
5 FIRST COLUMN AND TOP HALF OF SECOND COLUMN SATURATED.
6 FIRST COLUMN PARTIALLY SATURATED.

7 2 1/2 COLUMNS SATURATED.
8 ALL THREE COLUMN SATURATED. PUMP WAS NOT R
RUNNING WHEN ARRIVED AT STATION.COND COLUMN SATURATED.
9 FIRST COLUMN SATURATED.
10 FIRST COLUMN PARTIALLY SATURATED.
11 FIRST COLUMN SATURATED.

2223 LESLIE GROVES-RCHLND (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/23/1996		7.680E-01
		(6.950E-01)
02/20/1996		1.290E-01
		(5.520E-01)
03/19/1996		1.050E-01
		(5.630E-01)
04/16/1996		4.410E-01
		(8.080E-01)
05/14/1996		6.650E-01
		(1.290E+00)
06/11/1996		6.090E-01
		(1.060E+00)
07/08/1996	<	-3.410E-01
		(1.120E+00)
08/06/1996		7.630E-01
		(1.210E+00)
09/03/1996		1.200E+00
		(1.320E+00)
10/01/1996		1.310E+00
		(1.570E+00)
10/29/1996		5.850E-01
		(1.160E+00)
11/25/1996		5.260E-01
		(1.040E+00)
12/24/1996		6.670E-01
		(8.780E-01)
MEAN		5.713E-01
MINIMUM	<	-3.410E-01
MAXIMUM		1.310E+00
2STD. ERR		2.429E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only

2224 EDWIN MARKHAM SCHOOL (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/10/1996	1	5.570E-01 (9.900E-01)
02/21/1996		< -2.780E-01 (9.550E-01)
03/20/1996		3.580E-01 (9.020E-01)
04/17/1996		1.060E-01 (6.870E-01)
05/15/1996		6.010E-01 (1.070E+00)
06/11/1996		5.690E-01 (1.500E+00)
07/10/1996	2	1.380E+00 (1.640E+00)
08/07/1996		1.440E+00 (2.430E+00)
09/04/1996		9.940E-01 (1.360E+00)
10/02/1996		7.430E-01 (1.300E+00)
10/30/1996		5.530E-01 (9.750E-01)
11/26/1996	3	7.030E-01 (7.700E-01)
12/24/1996	4	5.450E-01 (7.960E-01)
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MEAN		6.362E-01
MINIMUM		< -2.780E-01
MAXIMUM		1.440E+00
2STD. ERR		2.564E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

* - Analyzed as part of a composite sample only

1 FIRST AND THIRD COLUMNS ARE SLIGHTLY DISCOLORED.

2 SILICA GEL OVER 2/3 SATURATED.

3 1/3 SATURATED.

4 1/4 SATURATED.

2225 SUNNYSIDE (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/04/1996		3.220E-01 (1.070E+00)
02/01/1996	1	< -1.200E-01 (6.730E-01)
02/29/1996		2.200E-01 (5.670E-01)
03/27/1996	2	7.640E-01 (9.630E-01)

MEAN		2.965E-01
MINIMUM		< -1.200E-01
MAXIMUM		7.640E-01
2STD. ERR		3.645E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
* - Analyzed as part of a composite sample only
1 FIRST COLUMN 30% SATURATED.
2 SAMPLE LOCATION BEING DISCONTINUED.

2226 YAKIMA (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/04/1996		1.130E+00 { 2.230E+00}
02/01/1996	1	1.360E-01 { 5.320E-01}
02/29/1996		1.300E+00 { 1.550E+00}
03/27/1996		6.730E-01 { 1.320E+00}
04/25/1996		2.680E-01 { 8.380E-01}
05/23/1996		< -2.250E-01 { 8.390E-01}
06/19/1996		7.860E-01 { 1.290E+00}
07/18/1996		4.720E-01 { 1.200E+00}
08/15/1996		< -6.360E-01 { 1.650E+00}
09/12/1996		< -4.250E-01 { 1.340E+00}
10/10/1996		< -1.060E-01 { 1.860E+00}
11/07/1996		< -6.250E-03 { 1.700E+00}
12/05/1996		3.980E-01 { 1.490E+00}
01/02/1997		8.910E-01 { 1.940E+00}

MEAN		3.326E-01
MINIMUM		< -6.360E-01
MAXIMUM		1.300E+00
2STD. ERR		3.110E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
• - Analyzed as part of a composite sample only
1 COLUMN TO PRE-FILTER HAD LOTS OF BLACK ON IT.

2826 TOPPENISH (WATER VAPOR , SILICA_GEL_HTO)

OFF DATE	COM	TRITIUM PCI/M3
01/17/1996		1.380E-01 (7.500E-01)
02/14/1996		4.530E-01 (8.530E-01)
03/26/1996		2.910E-01 (6.200E-01)
04/25/1996		< -8.740E-02 (1.040E+00)
05/22/1996		3.310E-01 (1.220E+00)
06/18/1996		9.000E-01 (9.520E-01)
07/17/1996	1	2.490E-01 (1.360E+00)
08/14/1996		< -5.530E-01 (1.250E+00)
09/12/1996		3.550E-01 (1.440E+00)
10/09/1996		6.640E-01 (1.510E+00)
11/06/1996		3.560E-01 (8.770E-01)
12/04/1996		< -7.300E-02 (7.260E-01)
01/01/1997		3.580E-01 (7.040E-01)
MEAN		2.601E-01
MINIMUM		< -5.530E-01
MAXIMUM		9.000E-01
2STD. ERR		1.995E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 * - Analyzed as part of a composite sample only
 1 SILICA GEL COLUMNS COMPLETELY SATURATED.

Surface Water

2173 RICHLAND PUMP HOUSE (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L
02/07/1996	1	7.400E-01	1.780E-01	< -3.650E-01	1.090E+00	1.010E-01	2.690E-02	4.150E+01	1.980E-01
		{ 6.570E-01}	{ 1.340E+00}	{ 1.260E+00}	{ 1.090E+00}	{ 4.680E-02}	{ 5.230E-01}	{ 9.250E+00}	{ 4.890E-02}
03/06/1996	2	1.790E-01	1.850E+00	2.480E-02	< -4.890E-01	7.710E-02	1.460E-01	8.200E+01	2.420E-01
		{ 4.230E-01}	{ 1.590E+00}	{ 8.330E-01}	{ 1.190E+00}	{ 4.510E-02}	{ 5.460E-01}	{ 1.230E+01}	{ 5.400E-02}
04/03/1996	3	1.160E-01	1.240E+00	6.930E-01	1.070E+00	9.640E-02	4.700E-02	5.740E+01	2.590E-01
		{ 3.770E-01}	{ 1.500E+00}	{ 1.090E+00}	{ 9.490E-01}	{ 5.430E-02}	{ 5.290E-01}	{ 1.000E+01}	{ 5.400E-02}
05/08/1996		4.230E-01	5.190E-01	< -3.690E-01	6.890E-01	6.140E-02	3.630E-02	4.820E+01	2.560E-01
		{ 4.680E-01}	{ 1.380E+00}	{ 9.850E-01}	{ 1.170E+00}	{ 5.060E-02}	{ 5.420E-01}	{ 1.040E+01}	{ 5.500E-02}
06/05/1996		2.640E-01	3.880E-02	4.520E-01	1.110E+00	5.300E-02	3.750E-02	2.960E+01	2.480E-01
		{ 4.370E-01}	{ 1.340E+00}	{ 5.230E-01}	{ 8.070E-01}	{ 3.770E-02}	{ 5.170E-01}	{ 8.630E+00}	{ 5.120E-02}
07/02/1996		3.500E-01	< -1.070E-01	< -7.440E-02	9.470E-01	7.820E-02	8.100E-04	5.120E+01	2.530E-01
		{ 4.280E-01}	{ 1.300E+00}	{ 1.410E+00}	{ 1.260E+00}	{ 3.330E-02}	{ 5.300E-01}	{ 1.010E+01}	{ 5.600E-02}
08/07/1996		5.800E-01	9.220E-01	< -9.030E-01	1.340E+00	9.090E-02	< -3.000E-02	6.130E+01	2.470E-01
		{ 5.260E-01}	{ 1.570E+00}	{ 1.730E+00}	{ 1.250E+00}	{ 3.580E-02}	{ 5.510E-01}	{ 1.130E+01}	{ 4.990E-02}
09/04/1996		1.990E-01	1.360E+00	7.260E-01	7.200E-01	6.890E-02	< -4.460E-01	7.720E+01	2.480E-01
		{ 3.970E-01}	{ 1.460E+00}	{ 6.540E-01}	{ 1.120E+00}	{ 3.820E-02}	{ 5.230E-01}	{ 1.250E+01}	{ 5.390E-02}
10/09/1996	4	4.420E-01	7.530E-01	2.960E-01	7.460E-01	1.030E-01	5.550E-03	1.050E+02	2.200E-01
		{ 4.980E-01}	{ 1.350E+00}	{ 1.020E+00}	{ 1.070E+00}	{ 3.740E-02}	{ 5.260E-01}	{ 1.420E+01}	{ 5.290E-02}
11/06/1996		1.100E-02	1.050E+00	< .000E+00	2.430E-01	9.120E-02	2.000E-01	7.600E+01	2.190E-01
		{ 2.940E-01}	{ 1.420E+00}	{ 1.040E+00}	{ 9.590E-01}	{ 3.590E-02}	{ 5.330E-01}	{ 1.290E+01}	{ 7.820E-02}
12/04/1996		4.540E-02	2.460E+00	6.230E-01	2.860E-02	7.120E-02	1.420E-01	7.500E+01	2.060E-01
		{ 2.810E-01}	{ 1.670E+00}	{ 1.510E+00}	{ 1.230E+00}	{ 3.830E-02}	{ 5.270E-01}	{ 1.280E+01}	{ 4.760E-02}
12/30/1996		1.650E+00	2.780E+00	< -8.190E-01	< -5.520E-01	3.050E-01	< -3.350E-02	1.360E+02	3.100E-01
		{ 9.310E-01}	{ 1.650E+00}	{ 1.250E+00}	{ 9.640E-01}	{ 8.060E-02}	{ 5.230E-01}	{ 1.640E+01}	{ 6.920E-02}
MEAN		4.166E-01	1.087E+00	2.370E-02	5.786E-01	9.978E-02	1.105E-02	7.003E+01	2.422E-01
MINIMUM		1.100E-02	< -1.070E-01	< -9.030E-01	< -5.520E-01	5.300E-02	< -4.460E-01	2.960E+01	1.980E-01
MAXIMUM		1.650E+00	2.780E+00	7.260E-01	1.340E+00	3.050E-01	2.000E-01	1.360E+02	3.100E-01
2STD. ERR		2.569E-01	5.293E-01	3.230E-01	3.649E-01	3.842E-02	9.320E-02	1.683E+01	1.703E-02

2173 RICHLAND PUMP HOUSE (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	U-235 PCI/L	U-238 PCI/L	UISO_TOTAL PCI/L
02/07/1996		1.270E-02	1.580E-01	3.687E-01
		(1.310E-02)	(4.250E-02)	(6.610E-02)
03/06/1996		3.850E-03	2.090E-01	4.549E-01
		(1.020E-02)	(4.840E-02)	(7.323E-02)
04/03/1996		1.000E-02	2.220E-01	4.910E-01
		(1.220E-02)	(4.820E-02)	(7.340E-02)
05/08/1996		1.060E-02	2.330E-01	4.996E-01
		(1.220E-02)	(5.100E-02)	(7.599E-02)
06/05/1996		1.430E-03	1.840E-01	4.334E-01
		(6.780E-03)	(4.220E-02)	(6.670E-02)
07/02/1996		2.790E-03	2.130E-01	4.688E-01
		(9.460E-03)	(5.010E-02)	(7.573E-02)
08/07/1996		6.800E-03	1.870E-01	4.408E-01
		(8.540E-03)	(4.110E-02)	(6.521E-02)
09/04/1996		5.210E-03	2.040E-01	4.572E-01
		(9.570E-03)	(4.720E-02)	(7.228E-02)
10/09/1996		8.400E-03	2.190E-01	4.474E-01
		(1.070E-02)	(5.190E-02)	(7.488E-02)
11/06/1996		1.460E-02	1.820E-01	4.156E-01
		(2.350E-02)	(7.150E-02)	(1.085E-01)
12/04/1996		1.510E-02	1.860E-01	4.071E-01
		(1.310E-02)	(4.400E-02)	(6.613E-02)
12/30/1996		2.880E-03	2.410E-01	5.539E-01
		(1.000E-02)	(5.860E-02)	(9.123E-02)

MEAN		7.863E-03	2.032E-01	4.532E-01
MINIMUM		1.430E-03	1.580E-01	3.687E-01
MAXIMUM		1.510E-02	2.410E-01	5.539E-01
2STD. ERR		2.751E-03	1.400E-02	2.765E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2174 on 01/10/1996

GRAB SAMPLE.

2 Comment for sample 2174 on 02/14/1996

SAMPLER WAS OFF FOR 6.5 HOURS.

Comment for sample 2174 on 03/06/1996

SUPPLY WATER WAS NOT TURNED ON.

3 Comment for sample 2174 on 04/03/1996

GRAB SAMPLE.

4 Comment for sample 2174 on 10/09/1996

GRAB SAMPLE.

2166 PRIEST RAPIDS-RIVER (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L
02/07/1996		1.080E+00	5.330E-01	< -6.570E-01	3.840E-01	8.680E-02	1.120E-01	3.700E+01	1.810E-01
		(7.560E-01)	(1.350E+00)	(1.190E+00)	(9.650E-01)	(4.450E-02)	(5.290E-01)	(8.890E+00)	(4.980E-02)
03/06/1996		7.150E-01	< -1.250E-01	1.320E+00	1.150E+00	7.800E-02	< -7.500E-02	3.030E+01	1.780E-01
		(6.630E-01)	(1.330E+00)	(1.990E+00)	(1.720E+00)	(3.960E-02)	(5.310E-01)	(8.490E+00)	(4.670E-02)
04/03/1996		2.760E-01	5.550E-01	4.950E-02	< -7.040E-01	6.450E-02	< -1.810E-02	3.120E+01	2.610E-01
		(4.000E-01)	(1.390E+00)	(1.250E+00)	(1.220E+00)	(4.880E-02)	(5.250E-01)	(8.250E+00)	(5.590E-02)
05/08/1996		4.470E-01	1.890E-01	< -5.520E-01	2.970E-01	5.520E-02	2.290E-01	3.370E+01	2.670E-01
		(4.970E-01)	(1.310E+00)	(1.030E+00)	(1.110E+00)	(5.110E-02)	(5.560E-01)	(9.410E+00)	(5.580E-02)
06/05/1996		2.240E-01	1.170E+00	< -2.500E+00	< -2.790E-01	7.220E-02	1.040E-01	2.710E+01	2.540E-01
		(3.950E-01)	(1.480E+00)	(1.710E+00)	(1.230E+00)	(3.970E-02)	(5.210E-01)	(8.520E+00)	(5.420E-02)
07/02/1996		< -1.340E-01	5.060E-01	3.210E-01	8.780E-01	7.180E-02	9.200E-02	3.020E+01	2.460E-01
		(1.680E-01)	(1.480E+00)	(8.710E-01)	(1.160E+00)	(2.910E-02)	(5.360E-01)	(8.540E+00)	(5.790E-02)
08/07/1996		6.390E-01	2.970E+00	1.390E+00	< .000E+00	9.010E-02	< -1.030E-01	2.740E+01	2.710E-01
		(5.500E-01)	(1.730E+00)	(1.200E+00)	(1.090E+00)	(3.510E-02)	(5.460E-01)	(8.900E+00)	(5.740E-02)
09/04/1996		1.240E-01	8.530E-01	< -4.450E-01	1.680E-01	9.530E-02	< -1.890E-01	3.240E+01	2.530E-01
		(3.460E-01)	(1.410E+00)	(1.220E+00)	(1.040E+00)	(3.870E-02)	(5.400E-01)	(1.040E+01)	(5.560E-02)
10/09/1996		6.750E-01	2.260E+00	< -9.860E-02	< -1.100E-01	1.060E-01	< -1.330E-01	3.200E+01	2.250E-01
		(5.430E-01)	(1.510E+00)	(1.130E+00)	(9.830E-01)	(3.660E-02)	(5.160E-01)	(8.750E+00)	(5.160E-02)
11/06/1996		< -2.880E-02	4.790E-01	8.080E-01	< -6.050E-01	8.270E-02	2.850E-01	3.090E+01	2.690E-01
		(1.720E-01)	(1.380E+00)	(1.040E+00)	(1.410E+00)	(3.700E-02)	(5.390E-01)	(9.550E+00)	(6.610E-02)
12/04/1996		< -1.570E-02	9.700E-01	1.460E-01	< -2.060E-01	8.220E-02	< -3.470E-02	2.800E+01	2.160E-01
		(2.880E-01)	(1.430E+00)	(1.130E+00)	(1.230E+00)	(5.100E-02)	(5.140E-01)	(9.370E+00)	(5.070E-02)
12/30/1996	1	7.440E-01	1.630E+00	1.540E+00	7.180E-01	6.990E-02	< -7.620E-02	3.310E+01	2.160E-01
		(6.450E-01)	(1.140E+00)	(9.030E-01)	(1.140E+00)	(3.500E-02)	(5.200E-01)	(8.370E+00)	(5.330E-02)
MEAN		3.955E-01	9.992E-01	1.102E-01	1.409E-01	7.956E-02	1.608E-02	3.111E+01	2.364E-01
MINIMUM		< -1.340E-01	< -1.250E-01	< -2.500E+00	< -7.040E-01	5.520E-02	< -1.890E-01	2.710E+01	1.780E-01
MAXIMUM		1.080E+00	2.970E+00	1.540E+00	1.150E+00	1.060E-01	2.850E-01	3.700E+01	2.710E-01
2STD. ERR		2.187E-01	5.156E-01	6.484E-01	3.316E-01	8.086E-03	8.517E-02	1.641E+00	1.901E-02

2166 PRIEST RAPIDS-RIVER (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	U-235 PCI/L	U-238 PCI/L	UISO_TOTAL PCI/L

02/07/1996		3.300E-03	1.440E-01	3.283E-01
		(1.260E-02)	(4.300E-02)	(6.699E-02)
03/06/1996		1.070E-02	1.440E-01	3.327E-01
		(1.310E-02)	(4.030E-02)	(6.306E-02)
04/03/1996		5.750E-03	2.080E-01	4.748E-01
		(1.080E-02)	(4.780E-02)	(7.434E-02)
05/08/1996		2.270E-02	2.210E-01	5.107E-01
		(1.480E-02)	(4.960E-02)	(7.611E-02)
06/05/1996		8.900E-03	2.090E-01	4.719E-01
		(1.020E-02)	(4.740E-02)	(7.272E-02)
07/02/1996		7.120E-03	1.980E-01	4.511E-01
		(1.240E-02)	(4.970E-02)	(7.731E-02)
08/07/1996		1.190E-02	1.570E-01	4.399E-01
		(1.300E-02)	(4.040E-02)	(7.139E-02)
09/04/1996		8.240E-03	2.080E-01	4.692E-01
		(1.200E-02)	(4.870E-02)	(7.488E-02)
10/09/1996		7.320E-03	1.300E-01	3.623E-01
		(9.750E-03)	(3.700E-02)	(6.424E-02)
11/06/1996		1.160E-02	1.360E-01	4.166E-01
		(1.460E-02)	(4.420E-02)	(8.085E-02)
12/04/1996	<	-1.140E-03	1.570E-01	3.719E-01
		(4.760E-03)	(4.160E-02)	(6.575E-02)
12/30/1996		1.200E-02	1.720E-01	4.000E-01
		(1.360E-02)	(4.600E-02)	(7.171E-02)

MEAN		9.033E-03	1.737E-01	4.191E-01
MINIMUM	<	-1.140E-03	1.300E-01	3.283E-01
MAXIMUM		2.270E-02	2.210E-01	5.107E-01
2STD. ERR		3.337E-03	1.913E-02	3.472E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2168 on 12/27/1996

UNABLE TO COLLECT DUE TO HIGH SNOW.

2848 PRIEST RAPIDS-RIVER (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	I-129 PCI/L
04/03/1996		1.140E-05 (1.345E-06)
07/02/1996	1	6.300E-06 (9.324E-07)
10/09/1996		1.360E-05 (1.768E-06)
12/30/1996	2	2.020E-05 (2.222E-06)

MEAN		1.288E-05
MINIMUM		6.300E-06
MAXIMUM		2.020E-05
2STD. ERR		5.762E-06

2850 RICHLAND PUMP HOUSE (UNFILTERED , CUMULATIVE , RIVER)

OFF DATE	COM	I-129 PCI/L
04/03/1996	3	8.520E-05 (4.771E-06)
07/02/1996		3.010E-05 (3.191E-06)
10/09/1996	4	1.500E-04 (1.590E-05)
12/30/1996		1.556E-04 (7.780E-06)

MEAN		1.052E-04
MINIMUM		3.010E-05
MAXIMUM		1.556E-04
2STD. ERR		5.941E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 Comment for sample 2849 on 04/17/1996
PUMP DOES NOT ADJUST EFFECTIVELY, LEFT AS IS.
- 2 Comment for sample 2849 on 12/27/1996
UNABLE TO COLLECT DUE TO HIGH SNOW.
- 3 Comment for sample 2851 on 02/14/1996
SAMPLER WAS OFF FOR 6.5 HOURS.
Comment for sample 2851 on 02/28/1996
GRAB SAMPLE.
Comment for sample 2851 on 03/06/1996
GRAB SAMPLE.
Comment for sample 2851 on 04/03/1996
GRAB SAMPLE.
- 4 Comment for sample 2851 on 10/09/1996
GRAB SAMPLE.

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
01/01/1996	1.040E+05
01/02/1996	1.310E+05
01/03/1996	1.330E+05
01/04/1996	1.370E+05
01/05/1996	1.410E+05
01/06/1996	1.600E+05
01/07/1996	1.500E+05
01/08/1996	1.390E+05
01/09/1996	1.390E+05
01/10/1996	1.650E+05
01/11/1996	1.680E+05
01/12/1996	1.770E+05
01/13/1996	1.650E+05
01/14/1996	1.690E+05
01/15/1996	1.720E+05
01/16/1996	1.850E+05
01/17/1996	1.630E+05
01/18/1996	1.890E+05
01/19/1996	1.870E+05
01/20/1996	1.920E+05
01/21/1996	1.830E+05
01/22/1996	1.850E+05
01/23/1996	2.060E+05
01/24/1996	1.920E+05
01/25/1996	1.920E+05
01/26/1996	1.810E+05
01/27/1996	1.910E+05
01/28/1996	1.630E+05
01/29/1996	1.780E+05
01/30/1996	1.990E+05
01/31/1996	1.860E+05
02/01/1996	2.160E+05
02/02/1996	2.130E+05
02/03/1996	1.990E+05
02/04/1996	1.620E+05
02/05/1996	1.560E+05
02/06/1996	1.440E+05
02/07/1996	1.330E+05
02/08/1996	7.740E+04
02/09/1996	6.920E+04
02/10/1996	7.590E+04
02/11/1996	1.210E+05
02/12/1996	1.730E+05
02/13/1996	1.900E+05
02/14/1996	1.960E+05
02/15/1996	2.290E+05
02/16/1996	2.460E+05

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
02/17/1996	2.490E+05
02/18/1996	2.440E+05
02/19/1996	2.220E+05
02/20/1996	1.970E+05
02/21/1996	1.990E+05
02/22/1996	2.090E+05
02/23/1996	2.120E+05
02/24/1996	2.540E+05
02/25/1996	2.510E+05
02/26/1996	2.480E+05
02/27/1996	2.700E+05
02/28/1996	2.560E+05
02/29/1996	2.440E+05
03/01/1996	2.280E+05
03/02/1996	1.960E+05
03/03/1996	1.740E+05
03/04/1996	2.050E+05
03/05/1996	2.200E+05
03/06/1996	2.000E+05
03/07/1996	1.840E+05
03/08/1996	1.850E+05
03/09/1996	1.900E+05
03/10/1996	1.860E+05
03/11/1996	1.860E+05
03/12/1996	1.970E+05
03/13/1996	2.050E+05
03/14/1996	2.050E+05
03/15/1996	1.930E+05
03/16/1996	1.880E+05
03/17/1996	1.940E+05
03/18/1996	1.530E+05
03/19/1996	1.690E+05
03/20/1996	1.780E+05
03/21/1996	1.460E+05
03/22/1996	1.830E+05
03/23/1996	1.550E+05
03/24/1996	1.650E+05
03/25/1996	1.750E+05
03/26/1996	1.550E+05
03/27/1996	1.720E+05
03/28/1996	1.900E+05
03/29/1996	1.530E+05
03/30/1996	1.250E+05
03/31/1996	1.270E+05
04/01/1996	1.410E+05
04/02/1996	1.260E+05
04/03/1996	1.360E+05

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PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
04/04/1996	1.530E+05
04/05/1996	1.510E+05
04/06/1996	1.470E+05
04/07/1996	1.490E+05
04/08/1996	1.630E+05
04/09/1996	1.690E+05
04/10/1996	1.520E+05
04/11/1996	1.720E+05
04/12/1996	1.680E+05
04/13/1996	1.750E+05
04/14/1996	1.800E+05
04/15/1996	1.930E+05
04/16/1996	2.020E+05
04/17/1996	2.430E+05
04/18/1996	2.280E+05
04/19/1996	2.170E+05
04/20/1996	2.230E+05
04/21/1996	2.070E+05
04/22/1996	2.000E+05
04/23/1996	2.350E+05
04/24/1996	2.220E+05
04/25/1996	2.270E+05
04/26/1996	2.380E+05
04/27/1996	2.060E+05
04/28/1996	2.090E+05
04/29/1996	2.150E+05
04/30/1996	2.260E+05
05/01/1996	2.600E+05
05/02/1996	1.990E+05
05/03/1996	2.170E+05
05/04/1996	2.200E+05
05/05/1996	2.200E+05
05/06/1996	2.090E+05
05/07/1996	1.990E+05
05/08/1996	2.150E+05
05/09/1996	1.870E+05
05/10/1996	1.800E+05
05/11/1996	1.890E+05
05/12/1996	1.370E+05
05/13/1996	1.670E+05
05/14/1996	1.630E+05
05/15/1996	1.540E+05
05/16/1996	1.630E+05
05/17/1996	1.780E+05
05/18/1996	2.130E+05
05/19/1996	2.130E+05
05/20/1996	2.220E+05

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
05/21/1996	2.260E+05
05/22/1996	2.500E+05
05/23/1996	2.390E+05
05/24/1996	2.440E+05
05/25/1996	2.340E+05
05/26/1996	2.200E+05
05/27/1996	2.310E+05
05/28/1996	2.490E+05
05/29/1996	2.690E+05
05/30/1996	2.480E+05
05/31/1996	2.500E+05
06/01/1996	2.440E+05
06/02/1996	2.580E+05
06/03/1996	2.470E+05
06/04/1996	2.320E+05
06/05/1996	2.230E+05
06/06/1996	2.140E+05
06/07/1996	2.170E+05
06/08/1996	2.580E+05
06/09/1996	2.680E+05
06/10/1996	2.630E+05
06/11/1996	2.410E+05
06/12/1996	2.530E+05
06/13/1996	2.790E+05
06/14/1996	2.500E+05
06/15/1996	2.720E+05
06/16/1996	2.720E+05
06/17/1996	2.680E+05
06/18/1996	2.600E+05
06/19/1996	2.550E+05
06/20/1996	2.330E+05
06/21/1996	2.350E+05
06/22/1996	1.770E+05
06/23/1996	1.920E+05
06/24/1996	2.080E+05
06/25/1996	2.190E+05
06/26/1996	2.260E+05
06/27/1996	2.280E+05
06/28/1996	2.260E+05
06/29/1996	2.030E+05
06/30/1996	1.940E+05
07/01/1996	1.650E+05
07/02/1996	1.820E+05
07/03/1996	1.820E+05
07/04/1996	1.860E+05
07/05/1996	1.870E+05
07/06/1996	1.990E+05

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
07/07/1996	2.070E+05
07/08/1996	1.960E+05
07/09/1996	2.020E+05
07/10/1996	2.060E+05
07/11/1996	2.220E+05
07/12/1996	2.260E+05
07/13/1996	2.190E+05
07/14/1996	2.120E+05
07/15/1996	2.060E+05
07/16/1996	2.050E+05
07/17/1996	1.720E+05
07/18/1996	1.840E+05
07/19/1996	1.910E+05
07/20/1996	1.870E+05
07/21/1996	1.570E+05
07/22/1996	1.910E+05
07/23/1996	1.940E+05
07/24/1996	1.940E+05
07/25/1996	1.870E+05
07/26/1996	1.770E+05
07/27/1996	1.500E+05
07/28/1996	1.280E+05
07/29/1996	1.250E+05
07/30/1996	1.410E+05
07/31/1996	1.660E+05
08/01/1996	1.660E+05
08/02/1996	1.420E+05
08/03/1996	1.060E+05
08/04/1996	1.420E+05
08/05/1996	1.630E+05
08/06/1996	1.690E+05
08/07/1996	1.950E+05
08/08/1996	1.770E+05
08/09/1996	1.380E+05
08/10/1996	1.480E+05
08/11/1996	1.410E+05
08/12/1996	1.540E+05
08/13/1996	1.520E+05
08/14/1996	1.660E+05
08/15/1996	1.790E+05
08/16/1996	1.400E+05
08/17/1996	1.300E+05
08/18/1996	1.310E+05
08/19/1996	1.430E+05
08/20/1996	1.590E+05
08/21/1996	1.550E+05
08/22/1996	1.170E+05

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
08/23/1996	9.610E+04
08/24/1996	9.990E+04
08/25/1996	1.290E+05
08/26/1996	1.390E+05
08/27/1996	1.180E+05
08/28/1996	1.410E+05
08/29/1996	1.300E+05
08/30/1996	1.350E+05
08/31/1996	1.040E+05
09/01/1996	7.920E+04
09/02/1996	8.450E+04
09/03/1996	9.990E+04
09/04/1996	1.100E+05
09/05/1996	9.390E+04
09/06/1996	7.990E+04
09/07/1996	9.290E+04
09/08/1996	9.330E+04
09/09/1996	1.030E+05
09/10/1996	1.090E+05
09/11/1996	1.130E+05
09/12/1996	1.390E+05
09/13/1996	1.330E+05
09/14/1996	8.360E+04
09/15/1996	8.050E+04
09/16/1996	9.340E+04
09/17/1996	9.560E+04
09/18/1996	9.220E+04
09/19/1996	9.890E+04
09/20/1996	1.010E+05
09/21/1996	9.320E+04
09/22/1996	1.100E+05
09/23/1996	1.070E+05
09/24/1996	1.120E+05
09/25/1996	1.000E+05
09/26/1996	9.820E+04
09/27/1996	9.490E+04
09/28/1996	7.510E+04
09/29/1996	8.030E+04
09/30/1996	8.930E+04
10/01/1996	8.910E+04
10/02/1996	8.430E+04
10/03/1996	1.010E+05
10/04/1996	1.010E+05
10/05/1996	8.770E+04
10/06/1996	6.320E+04
10/07/1996	1.030E+05
10/08/1996	1.150E+05

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
10/09/1996	1.040E+05
10/10/1996	1.090E+05
10/11/1996	9.180E+04
10/12/1996	1.200E+05
10/13/1996	9.590E+04
10/14/1996	1.100E+05
10/15/1996	8.030E+04
10/16/1996	9.620E+04
10/17/1996	9.860E+04
10/18/1996	1.010E+05
10/19/1996	1.020E+05
10/20/1996	9.420E+04
10/21/1996	1.050E+05
10/22/1996	1.020E+05
10/23/1996	1.100E+05
10/24/1996	1.070E+05
10/25/1996	1.040E+05
10/26/1996	9.800E+04
10/27/1996	7.870E+04
10/28/1996	9.240E+04
10/29/1996	9.900E+04
10/30/1996	9.850E+04
10/31/1996	1.010E+05
11/01/1996	1.020E+05
11/02/1996	9.800E+04
11/03/1996	9.120E+04
11/04/1996	9.610E+04
11/05/1996	9.490E+04
11/06/1996	9.630E+04
11/07/1996	9.940E+04
11/08/1996	1.030E+05
11/09/1996	1.000E+05
11/10/1996	1.000E+05
11/11/1996	1.010E+05
11/12/1996	9.560E+04
11/13/1996	9.890E+04
11/14/1996	9.560E+04
11/15/1996	1.080E+05
11/16/1996	1.080E+05
11/17/1996	1.040E+05
11/18/1996	1.010E+05
11/19/1996	1.070E+05
11/20/1996	1.160E+05
11/21/1996	1.060E+05
11/22/1996	1.130E+05
11/23/1996	1.270E+05
11/24/1996	9.540E+04

PRIEST RAPIDS-RIVER

OFF DATE	FLOW_RATE
11/25/1996	9.990E+04
11/26/1996	1.070E+05
11/27/1996	1.090E+05
11/28/1996	7.230E+04
11/29/1996	8.690E+04
11/30/1996	1.200E+05
12/01/1996	1.190E+05
12/02/1996	1.310E+05
12/03/1996	1.390E+05
12/04/1996	1.470E+05
12/05/1996	1.470E+05
12/06/1996	1.200E+05
12/07/1996	1.110E+05
12/08/1996	1.000E+05
12/09/1996	1.260E+05
12/10/1996	1.210E+05
12/11/1996	1.040E+05
12/12/1996	8.970E+04
12/13/1996	1.020E+05
12/14/1996	1.010E+05
12/15/1996	9.620E+04
12/16/1996	1.120E+05
12/17/1996	1.480E+05
12/18/1996	1.390E+05
12/19/1996	1.510E+05
12/20/1996	1.430E+05
12/21/1996	1.510E+05
12/22/1996	1.320E+05
12/23/1996	1.270E+05
12/24/1996	1.280E+05
12/25/1996	1.280E+05
12/26/1996	1.400E+05
12/27/1996	1.360E+05
12/28/1996	8.900E+04
12/29/1996	8.750E+04
12/30/1996	1.100E+05
12/31/1996	7.820E+04

MEAN	1.605E+05
MINIMUM	6.320E+04
MAXIMUM	2.790E+05
2STD. ERR	5.550E+03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis

2186 RICHLAND PUMP HOUSE (FILTERED , CONTINUOUS , RIVER)

OFF DATE	COM	CO-60 PCI/L	CS-137 PCI/L	PU-238 PCI/L	PU39-40 PCI/L
03/27/1996	1 <	.000E+00 (7.460E-03)	< -1.110E-03 (6.060E-03)	< -6.890E-06 (1.960E-05)	1.210E-05 (2.240E-05)
07/02/1996	2 <	-1.880E-04 (5.790E-04)	7.840E-04 (6.500E-04)	8.520E-06 (3.410E-06)	4.130E-05 (8.330E-06)
09/25/1996	3	1.100E-04 (6.790E-04)	1.110E-03 (6.350E-04)	5.210E-06 (7.090E-06)	3.040E-05 (1.490E-05)
12/30/1996	4	2.580E-05 (6.570E-04)	1.900E-03 (8.240E-04)	2.980E-06 (3.220E-06)	2.510E-05 (9.560E-06)
MEAN		-1.305E-05	6.710E-04	2.455E-06	2.723E-05
MINIMUM	<	-1.880E-04	< -1.110E-03	< -6.890E-06	1.210E-05
MAXIMUM		1.100E-04	1.900E-03	8.520E-06	4.130E-05
2STD. ERR		1.257E-04	1.276E-03	6.633E-06	1.213E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2188 on 02/14/1996

SAMPLER WAS OFF FOR 6.5 HOURS.

Comment for sample 2188 on 02/28/1996

NO SAMPLE. VALVE CLOSED, NO WATER.

2 Comment for sample 2188 on 06/05/1996

FILTER CAME APART.

3 Comment for sample 2188 on 07/31/1996

NO SAMPLE. EQUIPMENT FAILURE.

4 Comment for sample 2188 on 10/09/1996

NO SAMPLE. PUMP OUT.

Comment for sample 2188 on 10/23/1996

NO SAMPLE. PUMP LINE BROKEN.

2175 PRIEST RAPIDS-RIVER (FILTERED , CONTINUOUS , RIVER)

OFF DATE	COM	CO-60 PCI/L	CS-137 PCI/L	PU-238 PCI/L	PU39-40 PCI/L
03/27/1996	1	7.080E-04	1.230E-03	1.170E-06	1.930E-05
		{ 3.820E-04}	{ 4.380E-04}	{ 2.160E-06}	{ 6.680E-06}
07/02/1996	2	3.930E-04	2.320E-03	5.470E-06	7.330E-05
		{ 6.470E-04}	{ 6.790E-04}	{ 3.820E-06}	{ 1.570E-05}
10/09/1996		4.750E-04	1.060E-03	1.980E-06	2.210E-05
		{ 5.460E-04}	{ 5.530E-04}	{ 2.920E-06}	{ 9.040E-06}
12/30/1996		3.710E-04	3.990E-04	9.170E-07	6.380E-06
		{ 4.780E-04}	{ 4.830E-04}	{ 1.250E-06}	{ 2.940E-06}
MEAN		4.868E-04	1.252E-03	2.384E-06	3.027E-05
MINIMUM		3.710E-04	3.990E-04	9.170E-07	6.380E-06
MAXIMUM		7.080E-04	2.320E-03	5.470E-06	7.330E-05
2STD. ERR		1.541E-04	7.970E-04	2.107E-06	2.949E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2177 on 01/31/1996

NO SAMPLE. PUMP OUT.

2 Comment for sample 2177 on 04/10/1996

WATER LEAKING FROM FILTER UNIT. FILTER BECAME CLOGGED CAUSING HIGH PRESSURE AND BENDING TO THE SUPPORTING FILTER HOLDER.

Comment for sample 2177 on 04/24/1996

FILTER HANDLES WERE LOOSE, WATER COMING OUT OF HOLDER.

Comment for sample 2177 on 05/08/1996

SOCK FILTER VERY DIRTY. PUMP NOT ADJUSTING WELL, USED 68 ML/M INSTEAD OF 40 ML/M.

Comment for sample 2177 on 05/22/1996

ON 5/21/96 END FLOW OBSERVED AT 48 ML/M. ON 5/22/96 END FLOW ZERO DUE TO BROKEN PUMP. USED END FLOW OF 48 ML/M.

2183 RICHLAND PUMP HOUSE (RESIN , CONTINUOUS , RIVER)

OFF DATE	COM	CO-60 PCI/L	CS-137 PCI/L	PU-238 PCI/L	PU39-40 PCI/L
03/27/1996	1	5.560E-04 (5.140E-04)	8.050E-04 (7.430E-04)	2.850E-06 (2.630E-06)	2.360E-05 (6.800E-06)
07/02/1996	2	< -1.260E-04 (4.350E-03)	1.110E-03 (3.420E-03)	3.530E-06 (4.570E-05)	8.130E-05 (7.730E-05)
10/09/1996	3	4.750E-03 (3.730E-03)	5.980E-04 (5.220E-03)	< -8.470E-06 (9.450E-06)	1.600E-06 (1.850E-05)
12/30/1996	4	1.060E-03 (4.090E-03)	< -2.000E-03 (5.110E-03)	5.120E-05 (4.070E-05)	1.670E-05 (2.780E-05)
MEAN		1.560E-03	1.283E-04	1.228E-05	3.080E-05
MINIMUM		< -1.260E-04	< -2.000E-03	< -8.470E-06	1.600E-06
MAXIMUM		4.750E-03	1.110E-03	5.120E-05	8.130E-05
2STD. ERR		2.181E-03	1.434E-03	2.653E-05	3.490E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2185 on 02/14/1996
 SAMPLER WAS OFF FOR 6.5 HOURS.

Comment for sample 2185 on 02/28/1996
 NO SAMPLE. VALVE CLOSED, NO WATER.

2 Comment for sample 2185 on 04/10/1996
 FILTER CAME APART IN PIECES.

3 Comment for sample 2185 on 07/31/1996
 NO SAMPLE. EQUIPMENT FAILURE.

Comment for sample 2185 on 10/09/1996
 NO SAMPLE. PUMP OUT.

4 Comment for sample 2185 on 10/23/1996
 NO SAMPLE. PUMP LINE BROKEN.

2178 PRIEST RAPIDS-RIVER (RESIN , CONTINUOUS , RIVER)

OFF DATE	COM	CO-60 PCI/L	CS-137 PCI/L	PU-238 PCI/L	PU39-40 PCI/L
03/27/1996	1	4.660E-03 (6.180E-03)	< -3.700E-03 (5.600E-03)	< -4.340E-06 (2.160E-05)	1.930E-05 (3.210E-05)
07/02/1996	2	< -1.260E-03 (3.880E-03)	< -3.250E-05 (3.530E-03)	< -7.160E-06 (9.890E-06)	3.740E-05 (4.890E-05)
10/09/1996	3	< -2.730E-03 (4.460E-03)	3.960E-03 (4.460E-03)	6.050E-06 (1.490E-05)	9.950E-07 (1.160E-05)
12/30/1996		1.160E-03 (5.420E-03)	3.740E-03 (4.500E-03)	3.450E-06 (1.950E-05)	< -1.080E-05 (1.270E-05)
MEAN		4.575E-04	9.919E-04	-5.000E-07	1.172E-05
MINIMUM		< -2.730E-03	< -3.700E-03	< -7.160E-06	< -1.080E-05
MAXIMUM		4.660E-03	3.960E-03	6.050E-06	3.740E-05
2STD. ERR		3.228E-03	3.625E-03	6.261E-06	2.113E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 Comment for sample 2181 on 01/31/1996

NO SAMPLE. PUMP OUT.

2 Comment for sample 2181 on 04/24/1996

RESIN LOOKS YELLOW HALFWAY UP TUBE.

Comment for sample 2181 on 05/08/1996

RESIN FILTER COMPLETELY SATURATION.

Comment for sample 2181 on 05/22/1996

ON 5/21/96 END FLOW OBSERVED AT 48 ML/M. ON 5/22/96 END FLOW ZERO DUE TO BROKEN PUMP. USED END FLOW OF 48 ML/M.

3 Comment for sample 2181 on 07/31/1996

RESIN COLUMN NOT TIGHT. PREVIOUS FLOW MAY BE INCORRECT DUE TO LEAKING LOOSE FITTINGS.

2026 100 F -1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	1.080E-01 (4.170E-02)	3.400E+01 (8.540E+00)	2.490E-01 (5.960E-02)	2.860E-03 (1.130E-02)	2.020E-01 (5.180E-02)	4.539E-01 (7.977E-02)

2045 100 F -2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	1.070E-01 (3.740E-02)	3.630E+01 (8.650E+00)	2.190E-01 (4.780E-02)	2.930E-03 (8.960E-03)	1.700E-01 (4.070E-02)	3.919E-01 (6.342E-02)

2030 100 F -3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	3	8.470E-02 (4.130E-02)	3.360E+01 (8.470E+00)	2.320E-01 (5.690E-02)	1.080E-02 (1.360E-02)	1.850E-01 (4.900E-02)	4.278E-01 (7.631E-02)

2060 100 F -4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	4	1.080E-01 (4.310E-02)	3.640E+01 (8.770E+00)	2.420E-01 (5.350E-02)	3.280E-03 (8.810E-03)	2.070E-01 (4.780E-02)	4.523E-01 (7.228E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 SAMPLED AT 3 FT. OF WATER.
- 2 SAMPLED AT 5 FT. OF WATER.
- 3 SAMPLED AT 5 FT. OF WATER.
- 4 SAMPLED AT 5.5 FT. OF WATER.

2061 100 F -5 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	8.960E-02 (4.230E-02)	3.320E+01 (8.420E+00)	1.860E-01 (4.480E-02)	4.700E-03 (8.280E-03)	1.550E-01 (3.970E-02)	3.457E-01 (6.043E-02)

2062 100 F -6 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	5.800E-02 (3.270E-02)	3.430E+01 (8.540E+00)	2.550E-01 (5.640E-02)	6.820E-03 (1.020E-02)	1.610E-01 (4.240E-02)	4.228E-01 (7.129E-02)

2067 100 F -7 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	3	9.250E-02 (3.550E-02)	3.090E+01 (8.330E+00)	1.910E-01 (4.620E-02)	6.890E-03 (9.380E-03)	2.040E-01 (4.700E-02)	4.019E-01 (6.657E-02)

2068 100 F -8 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	4	7.280E-02 (3.280E-02)	3.610E+01 (8.770E+00)	2.210E-01 (5.950E-02)	2.830E-03 (8.940E-03)	1.700E-01 (5.070E-02)	3.938E-01 (7.868E-02)

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 SAMPLED AT 5.2 FT. OF WATER.
 2 SAMPLED AT 4 FT. OF WATER.
 3 SAMPLED AT 4 FT. OF WATER.
 4 SAMPLED AT 2.3 FT. OF WATER.

2072 100 F -9 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	7.890E-02 (3.900E-02)	3.830E+01 (8.880E+00)	2.390E-01 (5.180E-02)	4.620E-03 (8.210E-03)	1.630E-01 (4.070E-02)	4.066E-01 (6.639E-02)

2071 100 F -10 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	9.470E-02 (4.130E-02)	3.370E+01 (8.520E+00)	2.500E-01 (5.170E-02)	2.260E-03 (6.730E-03)	1.790E-01 (4.170E-02)	4.313E-01 (6.676E-02)

2016 100 N -1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	3	NR	4.260E+01 (9.210E+00)	2.180E-01 (4.970E-02)	6.820E-03 (9.320E-03)	1.680E-01 (4.190E-02)	3.928E-01 (6.567E-02)

2017 100 N -2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	4	8.860E-02 (3.730E-02)	4.540E+01 (9.510E+00)	2.420E-01 (5.260E-02)	6.030E-03 (1.010E-02)	1.880E-01 (4.450E-02)	4.360E-01 (6.963E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 SAMPLED AT 1.5 FT. OF WATER.

2 SAMPLED AT 2 FT. OF WATER.

3 SR-90 REFER TO 1/23/97 AND 1/24/97 INCIDENT REPORTS. EXPIRED TRACER USED FOR SR-90 ANALYSIS AND RESULT LOST AT LAB.

4 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.

2144 100 N -3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	1	1.110E-01 (3.960E-02)	3.340E+01 (8.480E+00)	2.150E-01 (5.020E-02)	< -1.910E-05 (6.370E-03)	1.590E-01 (4.160E-02)	3.740E-01 (6.551E-02)

2146 100 N -4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	2	1.250E-01 (4.130E-02)	2.840E+01 (8.130E+00)	1.730E-01 (4.590E-02)	5.980E-03 (9.540E-03)	1.550E-01 (4.240E-02)	3.340E-01 (6.321E-02)

2020 100 N -5 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	3	8.580E-02 (3.640E-02)	1.950E+01 (1.330E+02)	1.850E-01 (4.560E-02)	2.050E-03 (7.600E-03)	1.490E-01 (3.940E-02)	3.361E-01 (6.074E-02)

2151 100 N -6 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	4	9.220E-02 (3.850E-02)	3.890E+01 (9.010E+00)	1.990E-01 (4.810E-02)	1.150E-02 (1.150E-02)	1.890E-01 (4.570E-02)	3.995E-01 (6.734E-02)

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
 2 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
 3 TRITIUM SAMPLE WAS NOT ANALYZED FOR ENRICHED TRITIUM.
 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
 4 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.

2152 100 N -7 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	1	8.380E-02 (4.000E-02)	3.620E+01 (8.880E+00)	2.260E-01 (5.310E-02)	5.850E-03 (9.420E-03)	1.740E-01 (4.490E-02)	4.059E-01 (7.017E-02)

2153 100 N -8 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	2	9.310E-02 (3.840E-02)	3.360E+01 (8.690E+00)	2.040E-01 (4.890E-02)	1.620E-02 (1.330E-02)	1.780E-01 (4.460E-02)	3.982E-01 (6.751E-02)

2154 100 N -9 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	3	1.500E-01 (4.930E-02)	3.030E+01 (8.500E+00)	2.450E-01 (5.300E-02)	4.840E-03 (8.420E-03)	1.980E-01 (4.620E-02)	4.478E-01 (7.081E-02)

2135 100 N -10 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/25/1996	4	7.050E-02 (3.370E-02)	3.210E+01 (8.460E+00)	2.740E-01 (5.900E-02)	1.180E-03 (6.650E-03)	2.050E-01 (4.890E-02)	4.802E-01 (7.692E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
- 2 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
- 3 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.
- 4 SR-90 REFER TO 1/23/97 INCIDENT REPORT. EXPIRED TRACER USED FOR SR-90 ANALYSIS.

2092 300 AREA -1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		8.730E-02 (4.020E-02)	1.480E+02 (1.750E+01)	5.910E-01 (9.130E-02)	2.140E-02 (1.490E-02)	4.940E-01 (7.970E-02)	1.106E+00 (1.221E-01)

2093 300 AREA -2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		1.100E-01 (4.430E-02)	9.790E+01 (1.340E+01)	3.250E-01 (6.600E-02)	1.910E-02 (1.450E-02)	3.040E-01 (6.250E-02)	6.481E-01 (9.205E-02)

2094 300 AREA -3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		7.290E-02 (4.390E-02)	4.260E+01 (9.280E+00)	2.120E-01 (5.080E-02)	< -3.340E-03 (7.480E-03)	1.770E-01 (4.480E-02)	3.857E-01 (6.814E-02)

2095 300 AREA -4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		6.300E-02 (4.020E-02)	3.720E+01 (8.860E+00)	3.170E-01 (6.570E-02)	< -2.880E-03 (9.530E-03)	1.870E-01 (4.710E-02)	5.011E-01 (8.140E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis

2096 300 AREA -5 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		9.870E-02 (4.760E-02)	3.640E+01 (8.890E+00)	1.980E-01 (4.560E-02)	9.510E-03 (1.120E-02)	2.020E-01 (4.530E-02)	4.095E-01 (6.524E-02)

2097 300 AREA -6 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		6.470E-02 (3.740E-02)	3.120E+01 (8.490E+00)	3.080E-01 (6.610E-02)	2.860E-02 (1.920E-02)	2.310E-01 (5.470E-02)	5.676E-01 (8.792E-02)

2098 300 AREA -7 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		8.080E-02 (3.790E-02)	3.580E+01 (8.870E+00)	2.990E-01 (7.020E-02)	1.060E-02 (1.500E-02)	2.740E-01 (6.610E-02)	5.836E-01 (9.758E-02)

2099 300 AREA -8 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		6.980E-02 (3.260E-02)	2.850E+01 (8.260E+00)	2.310E-01 (5.200E-02)	5.200E-03 (8.770E-03)	2.060E-01 (4.800E-02)	4.422E-01 (7.131E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

2100 300 AREA -9 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		1.000E-01 (4.050E-02)	3.330E+01 (8.620E+00)	2.680E-01 (5.870E-02)	1.160E-02 (1.230E-02)	2.440E-01 (5.450E-02)	5.236E-01 (8.104E-02)

2101 300 AREA -10 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/20/1996		1.010E-01 (3.650E-02)	3.650E+01 (8.850E+00)	4.210E-01 (8.080E-02)	1.160E-02 (1.250E-02)	4.000E-01 (7.740E-02)	8.326E-01 (1.126E-01)

2073 HANFORD TOWNSITE-1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	1.120E-01 (3.910E-02)	9.000E+03 (7.730E+02)	3.550E-01 (6.750E-02)	4.240E-03 (8.810E-03)	2.480E-01 (5.350E-02)	6.072E-01 (8.658E-02)

2077 HANFORD TOWNSITE-2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	1.060E-01 (3.910E-02)	3.570E+02 (3.490E+01)	1.970E-01 (5.050E-02)	6.960E-03 (1.150E-02)	1.590E-01 (4.390E-02)	3.630E-01 (6.789E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 SAMPLED AT 2 FT. OF WATER.

2 SAMPLED AT 2 FT. OF WATER.

2091 HANFORD TOWNSITE-3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	9.310E-02 (3.670E-02)	4.410E+01 (9.230E+00)	1.920E-01 (4.760E-02)	< -1.160E-03 (4.730E-03)	1.680E-01 (4.320E-02)	3.588E-01 (6.445E-02)

2342 HANFORD TOWNSITE-4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	1.050E-01 (3.590E-02)	3.490E+01 (8.620E+00)	2.100E-01 (6.120E-02)	< -3.340E-03 (1.070E-02)	1.630E-01 (5.230E-02)	3.697E-01 (8.121E-02)

2085 HANFORD TOWNSITE-5 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	3	9.320E-02 (3.500E-02)	3.640E+01 (8.680E+00)	2.130E-01 (4.720E-02)	8.920E-03 (1.020E-02)	1.230E-01 (3.380E-02)	3.449E-01 (5.894E-02)

2043 HANFORD TOWNSITE-6 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	4	8.140E-02 (3.430E-02)	3.810E+01 (8.840E+00)	2.160E-01 (4.990E-02)	2.910E-03 (7.470E-03)	1.440E-01 (3.870E-02)	3.629E-01 (6.359E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty

which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 SAMPLED AT 8 FT. OF WATER.
- 2 SAMPLED AT 14 FT. OF WATER.
- 3 SAMPLED AT 16 FT. OF WATER.
- 4 SAMPLED AT 16 FT. OF WATER.

2086 HANFORD TOWNSITE-7 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	1	9.820E-02 (3.910E-02)	3.280E+01 (8.430E+00)	2.480E-01 (5.470E-02)	1.010E-03 (6.420E-03)	1.530E-01 (4.070E-02)	4.020E-01 (6.848E-02)

2087 HANFORD TOWNSITE-8 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	2	1.100E-01 (3.830E-02)	3.200E+01 (8.400E+00)	1.940E-01 (4.520E-02)	4.410E-03 (7.990E-03)	1.660E-01 (4.070E-02)	3.644E-01 (6.135E-02)

2088 HANFORD TOWNSITE-9 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	3	1.200E-01 (5.150E-02)	3.430E+01 (8.540E+00)	2.140E-01 (4.780E-02)	5.350E-04 (5.780E-03)	1.720E-01 (4.150E-02)	3.865E-01 (6.356E-02)

2089 HANFORD TOWNSITE-10 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
09/30/1996	4	8.100E-02 (3.780E-02)	3.230E+01 (8.430E+00)	2.460E-01 (5.210E-02)	2.500E-03 (7.000E-03)	1.830E-01 (4.300E-02)	4.315E-01 (6.791E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 SAMPLED AT 22 FT. OF WATER.
- 2 SAMPLED AT 11 FT. OF WATER.
- 3 SAMPLED AT 6 FT. OF WATER.
- 4 SAMPLED AT 3 FT. OF WATER.

2102 RICHLAND PUMPHOUSE-1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		4.860E-02	4.590E+01	1.700E-01	1.180E-02	1.540E-01	3.358E-01
		(4.390E-02)	(9.750E+00)	(4.400E-02)	(1.300E-02)	(3.990E-02)	(6.080E-02)
06/07/1996	1	9.410E-02	5.380E+01	2.670E-01	1.420E-03	1.700E-01	4.384E-01
		(5.680E-02)	(1.110E+01)	(5.310E-02)	(6.700E-03)	(4.000E-02)	(6.682E-02)
09/20/1996		1.090E-01	9.670E+01	2.180E-01	6.090E-04	2.000E-01	4.186E-01
		(4.270E-02)	(1.340E+01)	(4.880E-02)	(5.880E-03)	(4.560E-02)	(6.705E-02)
12/09/1996	2	1.260E-01	1.090E+02	2.230E-01	< -6.590E-04	1.960E-01	4.183E-01
		(4.860E-02)	(1.430E+01)	(5.300E-02)	(7.050E-03)	(4.780E-02)	(7.172E-02)
MEAN		9.443E-02	7.635E+01	2.195E-01	3.292E-03	1.800E-01	4.028E-01
MINIMUM		4.860E-02	4.590E+01	1.700E-01	< -6.590E-04	1.540E-01	3.358E-01
MAXIMUM		1.260E-01	1.090E+02	2.670E-01	1.180E-02	2.000E-01	4.384E-01
2STD. ERR		3.321E-02	3.118E+01	3.967E-02	5.736E-03	2.185E-02	4.564E-02

2103 RICHLAND PUMPHOUSE-2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		8.190E-02	3.390E+01	2.200E-01	< -3.270E-04	1.790E-01	3.987E-01
		(4.910E-02)	(8.910E+00)	(5.190E-02)	(8.420E-03)	(4.510E-02)	(6.927E-02)
06/07/1996	3	8.100E-02	3.460E+01	2.500E-01	1.070E-02	2.140E-01	4.747E-01
		(4.690E-02)	(9.020E+00)	(5.330E-02)	(1.090E-02)	(4.790E-02)	(7.249E-02)
09/20/1996		1.180E-01	6.990E+01	2.170E-01	2.700E-03	1.580E-01	3.777E-01
		(4.160E-02)	(1.130E+01)	(4.950E-02)	(7.230E-03)	(4.090E-02)	(6.462E-02)
12/09/1996	4	2.650E+00	5.740E+01	1.980E-01	1.750E-03	1.620E-01	3.618E-01
		(4.990E-01)	(1.010E+01)	(4.850E-02)	(9.330E-03)	(4.230E-02)	(6.503E-02)
MEAN		7.327E-01	4.895E+01	2.213E-01	3.706E-03	1.783E-01	4.032E-01
MINIMUM		8.100E-02	3.390E+01	1.980E-01	< -3.270E-04	1.580E-01	3.618E-01
MAXIMUM		2.650E+00	6.990E+01	2.500E-01	1.070E-02	2.140E-01	4.747E-01
2STD. ERR		1.278E+00	1.773E+01	2.150E-02	4.831E-03	2.551E-02	5.000E-02

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() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 WATER LEVEL HIGH.
- 2 SAMPLE DEPTH 5.5 FT. WITH BOAT ENGINE RUNNING.
- 3 WATER LEVEL HIGH.
- 4 SAMPLE DEPTH 8 FT. WITH BOAT ENGINE RUNNING.

2104 RICHLAND PUMPHOUSE-3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		9.070E-02	3.250E+01	2.440E-01	3.460E-03	1.810E-01	4.285E-01
		{ 5.350E-02}	{ 8.820E+00}	{ 5.340E-02}	{ 9.690E-03}	{ 4.370E-02}	{ 6.968E-02}
06/07/1996	1	1.050E-01	3.060E+01	2.760E-01	1.490E-02	2.050E-01	4.959E-01
		{ 4.740E-02}	{ 8.740E+00}	{ 5.670E-02}	{ 1.240E-02}	{ 4.690E-02}	{ 7.462E-02}
09/20/1996		1.110E-01	4.670E+01	2.300E-01	3.540E-03	2.010E-01	4.345E-01
		{ 3.930E-02}	{ 1.010E+01}	{ 5.160E-02}	{ 9.810E-03}	{ 4.670E-02}	{ 7.028E-02}
12/09/1996	2	3.890E+00	3.990E+01	2.250E-01	3.700E-03	1.610E-01	3.897E-01
		{ 7.430E-01}	{ 8.860E+00}	{ 5.100E-02}	{ 1.000E-02}	{ 4.150E-02}	{ 6.651E-02}
MEAN		1.049E+00	3.743E+01	2.438E-01	6.400E-03	1.870E-01	4.372E-01
MINIMUM		9.070E-02	3.060E+01	2.250E-01	3.460E-03	1.610E-01	3.897E-01
MAXIMUM		3.890E+00	4.670E+01	2.760E-01	1.490E-02	2.050E-01	4.959E-01
2STD. ERR		1.894E+00	7.371E+00	2.295E-02	5.668E-03	2.026E-02	4.391E-02

2105 RICHLAND PUMPHOUSE-4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		7.570E-02	3.130E+01	2.410E-01	1.360E-02	1.760E-01	4.306E-01
		{ 5.890E-02}	{ 8.750E+00}	{ 5.260E-02}	{ 1.220E-02}	{ 4.250E-02}	{ 6.872E-02}
06/07/1996	3	6.320E-02	3.000E+01	2.470E-01	4.760E-03	1.740E-01	4.258E-01
		{ 4.710E-02}	{ 8.640E+00}	{ 5.020E-02}	{ 8.230E-03}	{ 4.000E-02}	{ 6.471E-02}
09/20/1996		1.120E-01	3.510E+01	2.170E-01	2.070E-02	1.340E-01	3.717E-01
		{ 4.190E-02}	{ 8.710E+00}	{ 5.400E-02}	{ 1.880E-02}	{ 4.040E-02}	{ 7.001E-02}
12/09/1996	4	1.190E+00	3.640E+01	2.200E-01	< -4.410E-03	1.820E-01	3.976E-01
		{ 2.450E-01}	{ 8.590E+00}	{ 5.590E-02}	{ 2.810E-03}	{ 4.940E-02}	{ 7.465E-02}
MEAN		3.602E-01	3.320E+01	2.313E-01	8.663E-03	1.665E-01	4.064E-01
MINIMUM		6.320E-02	3.000E+01	2.170E-01	< -4.410E-03	1.340E-01	3.717E-01
MAXIMUM		1.190E+00	3.640E+01	2.470E-01	2.070E-02	1.820E-01	4.306E-01
2STD. ERR		5.536E-01	3.039E+00	1.497E-02	1.088E-02	2.193E-02	2.734E-02

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 which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 WATER LEVEL HIGH.
- 2 SAMPLE DEPTH 10 FT. WITH BOAT ENGINE RUNNING.
- 3 WATER LEVEL HIGH.
- 4 SAMPLE DEPTH 10 FT. WITH BOAT ENGINE RUNNING.

2106 RICHLAND PUMPHOUSE-5 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		7.510E-02	2.920E+01	2.520E-01	2.190E-03	2.150E-01	4.692E-01
		(5.830E-02)	(8.600E+00)	(5.360E-02)	(8.580E-03)	(4.770E-02)	(7.226E-02)
06/07/1996	1	8.600E-02	2.810E+01	2.260E-01	1.250E-02	1.860E-01	4.245E-01
		(5.020E-02)	(8.280E+00)	(4.830E-02)	(1.140E-02)	(4.230E-02)	(6.521E-02)
09/20/1996		6.420E-02	3.260E+01	2.520E-01	4.080E-03	1.890E-01	4.451E-01
		(3.820E-02)	(8.440E+00)	(5.340E-02)	(9.350E-03)	(4.430E-02)	(7.001E-02)
12/09/1996	2	1.130E-01	3.500E+01	1.790E-01	1.280E-04	1.550E-01	3.341E-01
		(4.620E-02)	(8.550E+00)	(4.540E-02)	(6.630E-03)	(4.100E-02)	(6.153E-02)
MEAN		8.458E-02	3.123E+01	2.273E-01	4.724E-03	1.863E-01	4.182E-01
MINIMUM		6.420E-02	2.810E+01	1.790E-01	1.280E-04	1.550E-01	3.341E-01
MAXIMUM		1.130E-01	3.500E+01	2.520E-01	1.250E-02	2.150E-01	4.692E-01
2STD. ERR		2.094E-02	3.163E+00	3.442E-02	5.429E-03	2.457E-02	5.896E-02

2107 RICHLAND PUMPHOUSE-6 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		7.510E-02	3.150E+01	2.300E-01	2.480E-03	1.970E-01	4.295E-01
		(5.690E-02)	(8.730E+00)	(5.610E-02)	(1.060E-02)	(4.960E-02)	(7.563E-02)
06/07/1996	3	4.530E-02	3.180E+01	2.650E-01	8.910E-03	1.710E-01	4.449E-01
		(5.860E-02)	(8.760E+00)	(5.210E-02)	(9.490E-03)	(3.940E-02)	(6.601E-02)
09/20/1996		1.350E-01	3.320E+01	2.410E-01	8.520E-03	2.360E-01	4.855E-01
		(4.810E-02)	(8.530E+00)	(5.500E-02)	(1.230E-02)	(5.350E-02)	(7.771E-02)
12/09/1996	4	1.140E-01	3.280E+01	2.250E-01	4.670E-03	1.690E-01	3.987E-01
		(4.950E-02)	(8.340E+00)	(5.020E-02)	(8.250E-03)	(4.150E-02)	(6.565E-02)
MEAN		9.235E-02	3.233E+01	2.403E-01	6.145E-03	1.933E-01	4.396E-01
MINIMUM		4.530E-02	3.150E+01	2.250E-01	2.480E-03	1.690E-01	3.987E-01
MAXIMUM		1.350E-01	3.320E+01	2.650E-01	8.910E-03	2.360E-01	4.855E-01
2STD. ERR		4.000E-02	8.057E-01	1.780E-02	3.103E-03	3.122E-02	3.612E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 WATER LEVEL HIGH.

2 SAMPLE DEPTH 2.5 FT. WITH BOAT ENGINE RUNNING.

3 WATER LEVEL HIGH.

4 SAMPLE DEPTH 3.5 FT. WITH BOAT ENGINE RUNNING.

2108 RICHLAND PUMPHOUSE-7 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		6.940E-02	3.200E+01	2.600E-01	1.180E-02	1.820E-01	4.538E-01
		(1.260E-01)	(8.840E+00)	(5.560E-02)	(1.290E-02)	(4.420E-02)	(7.219E-02)
06/07/1996	1	1.060E-01	2.660E+01	2.920E-01	8.470E-03	2.040E-01	5.045E-01
		(4.720E-02)	(8.390E+00)	(5.970E-02)	(1.060E-02)	(4.740E-02)	(7.696E-02)
09/20/1996		1.050E-01	3.530E+01	1.980E-01	< -2.950E-03	1.670E-01	3.621E-01
		(4.350E-02)	(8.870E+00)	(4.710E-02)	(4.880E-03)	(4.170E-02)	(6.310E-02)
12/09/1996	2	1.040E-01	3.240E+01	1.770E-01	8.710E-04	1.530E-01	3.309E-01
		(6.780E-02)	(8.300E+00)	(4.440E-02)	(6.240E-03)	(4.040E-02)	(6.035E-02)
MEAN		9.610E-02	3.158E+01	2.318E-01	4.548E-03	1.765E-01	4.128E-01
MINIMUM		6.940E-02	2.660E+01	1.770E-01	< -2.950E-03	1.530E-01	3.309E-01
MAXIMUM		1.060E-01	3.530E+01	2.920E-01	1.180E-02	2.040E-01	5.045E-01
2STD. ERR		1.782E-02	3.628E+00	5.343E-02	6.775E-03	2.183E-02	8.036E-02

2109 RICHLAND PUMPHOUSE-8 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		6.240E-02	2.940E+01	2.920E-01	1.630E-02	2.150E-01	5.233E-01
		(4.190E-02)	(8.660E+00)	(5.780E-02)	(1.370E-02)	(4.690E-02)	(7.568E-02)
06/07/1996	3	9.410E-02	3.060E+01	2.240E-01	7.790E-03	2.010E-01	4.328E-01
		(4.340E-02)	(8.750E+00)	(4.980E-02)	(1.010E-02)	(4.580E-02)	(6.841E-02)
09/20/1996		1.340E-01	3.170E+01	2.710E-01	3.210E-03	2.090E-01	4.832E-01
		(5.270E-02)	(8.720E+00)	(5.790E-02)	(7.810E-03)	(4.880E-02)	(7.612E-02)
12/09/1996	4	3.490E+00	3.490E+01	1.880E-01	2.620E-03	1.800E-01	3.706E-01
		(6.610E-01)	(8.550E+00)	(4.780E-02)	(8.370E-03)	(4.570E-02)	(6.666E-02)
MEAN		9.451E-01	3.165E+01	2.438E-01	7.480E-03	2.013E-01	4.525E-01
MINIMUM		6.240E-02	2.940E+01	1.880E-01	2.620E-03	1.800E-01	3.706E-01
MAXIMUM		3.490E+00	3.490E+01	2.920E-01	1.630E-02	2.150E-01	5.233E-01
2STD. ERR		1.697E+00	2.361E+00	4.679E-02	6.318E-03	1.528E-02	6.595E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 WATER LEVEL HIGH.
- 2 SAMPLE DEPTH 7.5 FT. WITH BOAT ENGINE RUNNING.
- 3 WATER LEVEL HIGH.
- 4 SAMPLE DEPTH 11 FT. WITH BOAT ENGINE RUNNING.

2110 RICHLAND PUMPHOUSE-9 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TITRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		1.040E-01	2.690E+01	2.350E-01	2.000E-03	1.840E-01	4.210E-01
		(5.790E-02)	(8.470E+00)	(5.260E-02)	(7.540E-03)	(4.440E-02)	(6.925E-02)
06/07/1996	1	2.060E-01	2.900E+01	2.620E-01	1.070E-02	2.070E-01	4.797E-01
		(6.630E-02)	(8.570E+00)	(5.480E-02)	(1.080E-02)	(4.670E-02)	(7.281E-02)
09/20/1996		1.120E-01	3.170E+01	2.740E-01	4.000E-03	1.960E-01	4.740E-01
		(4.060E-02)	(8.640E+00)	(5.700E-02)	(8.550E-03)	(4.600E-02)	(7.374E-02)
12/09/1996	2	9.650E-01	3.270E+01	2.430E-01	8.040E-03	2.000E-01	4.510E-01
		(2.180E-01)	(8.420E+00)	(5.730E-02)	(1.140E-02)	(5.020E-02)	(7.703E-02)
MEAN		3.468E-01	3.008E+01	2.535E-01	6.185E-03	1.968E-01	4.564E-01
MINIMUM		1.040E-01	2.690E+01	2.350E-01	2.000E-03	1.840E-01	4.210E-01
MAXIMUM		9.650E-01	3.270E+01	2.740E-01	1.070E-02	2.070E-01	4.797E-01
2STD. ERR		4.148E-01	2.631E+00	1.775E-02	3.921E-03	9.639E-03	2.667E-02

2111 RICHLAND PMPHOUSE-10 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TITRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/18/1996		9.010E-02	3.210E+01	2.560E-01	7.690E-03	2.070E-01	4.707E-01
		(5.870E-02)	(8.800E+00)	(5.770E-02)	(1.190E-02)	(4.990E-02)	(7.721E-02)
06/07/1996	3	9.010E-02	3.020E+01	2.720E-01	3.460E-03	2.450E-01	5.205E-01
		(5.200E-02)	(8.750E+00)	(5.880E-02)	(8.050E-03)	(5.450E-02)	(8.058E-02)
09/20/1996		9.860E-02	3.520E+01	3.330E-01	9.640E-03	2.900E-01	6.326E-01
		(4.350E-02)	(8.930E+00)	(6.570E-02)	(1.080E-02)	(5.950E-02)	(8.929E-02)
12/09/1996	4	1.110E+00	3.080E+01	3.090E-01	1.420E-02	2.370E-01	5.602E-01
		(2.210E-01)	(8.210E+00)	(6.640E-02)	(1.350E-02)	(5.580E-02)	(8.778E-02)
MEAN		3.472E-01	3.208E+01	2.925E-01	8.747E-03	2.448E-01	5.460E-01
MINIMUM		9.010E-02	3.020E+01	2.560E-01	3.460E-03	2.070E-01	4.707E-01
MAXIMUM		1.110E+00	3.520E+01	3.330E-01	1.420E-02	2.900E-01	6.326E-01
2STD. ERR		5.085E-01	2.229E+00	3.495E-02	4.457E-03	3.432E-02	6.839E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 WATER LEVEL HIGH.

2 SAMPLE DEPTH 10 FT. WITH BOAT ENGINE RUNNING.

3 WATER LEVEL HIGH.

4 SAMPLE DEPTH 6.5 FT. WITHOUT BOAT ENGINE RUNNING.

2012 VERNITA-1 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/14/1996	1	9.230E-02 { 4.390E-02 }	3.280E+01 { 8.850E+00 }	2.220E-01 { 4.980E-02 }	3.410E-03 { 9.630E-03 }	1.790E-01 { 4.310E-02 }	4.044E-01 { 6.656E-02 }
06/06/1996		9.360E-02 { 4.610E-02 }	2.570E+01 { 8.390E+00 }	2.640E-01 { 5.450E-02 }	< -1.860E-04 { 5.990E-03 }	2.080E-01 { 4.640E-02 }	4.718E-01 { 7.183E-02 }
09/19/1996		8.680E-02 { 4.380E-02 }	3.220E+01 { 8.560E+00 }	2.300E-01 { 5.310E-02 }	1.100E-03 { 6.530E-03 }	1.710E-01 { 4.380E-02 }	4.021E-01 { 6.914E-02 }
12/06/1996	2	1.240E-01 { 5.130E-02 }	2.950E+01 { 8.130E+00 }	1.700E-01 { 4.320E-02 }	2.390E-02 { 1.600E-02 }	1.570E-01 { 4.050E-02 }	3.509E-01 { 6.134E-02 }
MEAN		9.918E-02	3.005E+01	2.215E-01	7.056E-03	1.788E-01	4.073E-01
MINIMUM		8.680E-02	2.570E+01	2.700E-01	< -1.860E-04	1.570E-01	3.509E-01
MAXIMUM		1.240E-01	3.280E+01	2.640E-01	2.390E-02	2.080E-01	4.718E-01
2STD. ERR		1.681E-02	3.236E+00	3.886E-02	1.133E-02	2.152E-02	4.959E-02

2013 VERNITA-2 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/14/1996	3	4.420E-02 { 2.970E-02 }	3.050E+01 { 8.730E+00 }	2.150E-01 { 4.910E-02 }	1.390E-03 { 8.690E-03 }	1.870E-01 { 4.390E-02 }	4.034E-01 { 6.643E-02 }
06/06/1996		1.290E-01 { 5.510E-02 }	2.740E+01 { 8.560E+00 }	2.380E-01 { 4.860E-02 }	2.770E-02 { 1.500E-02 }	1.820E-01 { 4.080E-02 }	4.477E-01 { 6.520E-02 }
09/19/1996		6.710E-02 { 3.910E-02 }	3.300E+01 { 8.610E+00 }	1.840E-01 { 4.230E-02 }	7.470E-03 { 8.960E-03 }	1.820E-01 { 4.120E-02 }	3.735E-01 { 5.972E-02 }
12/06/1996	4	1.440E-01 { 5.510E-02 }	2.540E+01 { 7.840E+00 }	1.950E-01 { 4.790E-02 }	2.330E-03 { 7.980E-03 }	1.490E-01 { 4.020E-02 }	3.463E-01 { 6.304E-02 }
MEAN		9.608E-02	2.908E+01	2.080E-01	9.722E-03	1.750E-01	3.927E-01
MINIMUM		4.420E-02	2.540E+01	1.840E-01	1.390E-03	1.490E-01	3.463E-01
MAXIMUM		1.440E-01	3.300E+01	2.380E-01	2.770E-02	1.870E-01	4.477E-01
2STD. ERR		4.800E-02	3.354E+00	2.376E-02	1.228E-02	1.749E-02	4.343E-02

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{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 RIVER WATER VERY HIGH.
- 2 SAMPLE DEPTH 8 FT., HANFORD SHORE.
- 3 RIVER WATER VERY HIGH.
- 4 SAMPLE DEPTH 11 FT. WITH BOAT ENGINE RUNNING.

2014 VERNITA-3 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/14/1996	1	8.530E-02	3.020E+01	2.450E-01	1.520E-02	2.050E-01	4.652E-01
		(4.210E-02)	(8.670E+00)	(5.310E-02)	(1.370E-02)	(4.670E-02)	(7.203E-02)
06/06/1996		6.860E-02	2.710E+01	2.560E-01	6.190E-03	1.720E-01	4.342E-01
		(4.410E-02)	(8.590E+00)	(5.270E-02)	(8.690E-03)	(4.100E-02)	(6.733E-02)
09/19/1996		9.950E-02	3.170E+01	2.620E-01	2.160E-02	1.690E-01	4.526E-01
		(4.640E-02)	(8.480E+00)	(5.620E-02)	(1.520E-02)	(4.270E-02)	(7.220E-02)
12/06/1996	2	1.460E-01	3.090E+01	2.240E-01	9.920E-03	1.660E-01	3.999E-01
		(5.360E-02)	(8.210E+00)	(5.190E-02)	(1.110E-02)	(4.310E-02)	(6.837E-02)
MEAN		9.985E-02	2.998E+01	2.468E-01	1.323E-02	1.780E-01	4.380E-01
MINIMUM		6.860E-02	2.710E+01	2.240E-01	6.190E-03	1.660E-01	3.999E-01
MAXIMUM		1.460E-01	3.170E+01	2.620E-01	2.160E-02	2.050E-01	4.652E-01
2STD. ERR		3.326E-02	2.012E+00	1.672E-02	6.695E-03	1.817E-02	2.839E-02

2015 VERNITA-4 (RIVER , RAW GRAB , TRANSECT)

OFF DATE	COM	SR-90 PCI/L	LO_TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/14/1996	3	1.220E-01	2.990E+01	2.460E-01	3.360E-03	1.980E-01	4.474E-01
		(5.640E-02)	(8.590E+00)	(5.330E-02)	(9.550E-03)	(4.570E-02)	(7.086E-02)
06/06/1996		7.990E-02	2.620E+01	2.520E-01	4.590E-03	2.590E-01	5.156E-01
		(4.510E-02)	(8.390E+00)	(5.540E-02)	(9.120E-03)	(5.560E-02)	(7.902E-02)
09/19/1996		8.950E-02	3.170E+01	2.410E-01	1.890E-04	1.660E-01	4.072E-01
		(4.160E-02)	(8.510E+00)	(5.290E-02)	(7.540E-03)	(4.150E-02)	(6.766E-02)
12/06/1996	4	1.320E-01	2.760E+01	1.860E-01	9.990E-03	1.690E-01	3.650E-01
		(6.790E-02)	(7.970E+00)	(4.980E-02)	(1.380E-02)	(4.650E-02)	(6.952E-02)
MEAN		1.059E-01	2.885E+01	2.313E-01	4.532E-03	1.980E-01	4.338E-01
MINIMUM		7.990E-02	2.620E+01	1.860E-01	1.890E-04	1.660E-01	3.650E-01
MAXIMUM		1.320E-01	3.170E+01	2.520E-01	9.990E-03	2.590E-01	5.156E-01
2STD. ERR		2.507E-02	2.437E+00	3.050E-02	4.084E-03	4.315E-02	6.407E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 RIVER WATER VERY HIGH.
- 2 SAMPLE DEPTH 12 FT. WITH BOAT ENGINE RUNNING.
- 3 RIVER WATER VERY HIGH.
- 4 SAMPLE DEPTH 6 FT. WITH BOAT ENGINE RUNNING.

2116 100 N SPRING 8-13 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TRITIUM PCI/L
11/04/1996		4.580E-01 { 6.250E-01}	4.480E+00 { 1.810E+00}	6.650E-01 { 1.310E+00}	< -3.820E-01 { 1.100E+00}	5.270E-02 { 4.790E-02}	1.710E+04 { 1.340E+03}

2112 100-B SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	TRITIUM PCI/L
11/04/1996		1.180E+00 { 9.830E-01}	1.000E+01 { 2.440E+00}	< -3.630E-01 { 1.250E+00}	5.740E-01 { 8.940E-01}	3.140E-02 { 4.510E-02}	1.760E+01 { 2.280E+00}	2.370E+04 { 1.830E+03}

2120 100-D SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TRITIUM PCI/L
11/04/1996		2.660E-01 { 4.830E-01}	4.310E+00 { 1.840E+00}	8.860E-01 { 1.180E+00}	< -4.430E-01 { 1.200E+00}	1.780E+00 { 3.410E-01}	1.010E+03 { 1.950E+02}

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

2124 100-F SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L
11/11/1996		4.120E+01 (1.840E+01)	6.470E+01 (1.140E+01)	3.390E+00 (2.870E+00)	< .000E+00 (3.630E+00)	9.390E-02 (5.700E-02)	1.770E+03 (2.440E+02)	4.770E+00 (5.880E-01)	1.960E-01 (5.350E-02)

2124 100-F SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-238 PCI/L	UIISO_TOTAL PCI/L
11/11/1996		4.270E+00 (5.300E-01)	9.236E+00 (7.934E-01)

2122 100-H SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	TRITIUM PCI/L	U-234 PCI/L
07/02/1996	1	NR	NR	NR	NR	NR	NR	NR	NR

2122 100-H SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-235 PCI/L	U-238 PCI/L
07/02/1996	1	NR	NR

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 NO SAMPLE. SPRING WAS UNDERWATER.

2114 100-K SPRING (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TRITIUM PCI/L
07/02/1996	1	NR	NR	NR	NR	NR	NR

2128 300 AREA SPRING 42-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	TC-99 PCI/L	TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L
11/21/1996		2.110E+01 (4.580E+00)	9.560E+00 (2.440E+00)	3.710E-01 (1.240E+00)	< -3.210E-01 (9.980E-01)	1.220E+00 (6.100E-01)	3.420E+03 (3.560E+02)	1.750E+01 (1.870E+00)	8.260E-01 (1.200E-01)

2128 300 AREA SPRING 42-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-238 PCI/L	UIISO_TOTAL PCI/L
11/21/1996		1.570E+01 (1.680E+00)	3.403E+01 (2.517E+00)

2788 300 AREA SPRING 42-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	I-129 PCI/L
11/21/1996		2.180E-03 (3.532E-04)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 NO SAMPLE. SPRING WAS NOT FLOWING.

2126 HANFORD SPRING 28-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	TC-99 PCI/L	TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L
11/11/1996		1.170E+00 (8.620E-01)	1.760E+01 (3.150E+00)	3.000E-01 (1.980E+00)	< -3.840E-01 (1.520E+00)	3.790E+01 (4.480E+00)	4.080E+04 (3.070E+03)	9.810E-01 (1.640E-01)	4.590E-02 (2.760E-02)

2126 HANFORD SPRING 28-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-238 PCI/L	UIISO_TOTAL PCI/L
11/11/1996		5.980E-01 (1.150E-01)	1.625E+00 (2.022E-01)

2787 HANFORD SPRING 28-2 (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	I-129 PCI/L
11/11/1996		8.564E-02 (1.010E-02)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

2755 B POND EXTENSION (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TRITIUM PCI/L
01/02/1996		1.500E-01 (3.620E-01)	6.190E-01 (1.410E+00)	< -5.670E-01 (1.250E+00)	7.040E-01 (1.220E+00)	5.860E-02 (7.680E-02)	5.060E+01 (1.360E+02)
04/09/1996		4.480E-01 (4.970E-01)	1.800E+00 (1.630E+00)	< -4.090E-01 (1.370E+00)	4.980E-01 (1.100E+00)	1.400E-01 (1.140E-01)	4.610E+01 (1.380E+02)
07/01/1996		1.970E-01 (3.740E-01)	1.020E+00 (1.450E+00)	1.330E+00 (8.990E-01)	< -6.150E-01 (1.260E+00)	1.030E-01 (6.060E-02)	1.320E+02 (1.360E+02)
10/15/1996		9.290E+00 (3.380E+00)	3.190E+01 (4.500E+00)	1.180E+00 (8.430E-01)	4.050E+01 (5.830E+00)	1.000E+00 (2.100E-01)	1.050E+02 (1.420E+02)
MEAN		2.521E+00	8.835E+00	3.835E-01	1.027E+01	3.254E-01	8.343E+01
MINIMUM		1.500E-01	6.190E-01	< -5.670E-01	< -6.150E-01	5.860E-02	4.610E+01
MAXIMUM		9.290E+00	3.190E+01	1.330E+00	4.050E+01	1.000E+00	1.320E+02
2STD. ERR		4.514E+00	1.538E+01	1.010E+00	2.016E+01	4.510E-01	4.201E+01

2133 FFTF POND (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	TRITIUM PCI/L
01/02/1996		< -1.870E-01 (3.590E-01)	1.330E+01 (2.760E+00)	< -3.700E-01 (9.590E-01)	4.590E-02 (1.060E+00)	5.040E+03 (4.710E+02)
04/02/1996		< -9.640E-03 (4.600E-01)	4.620E+00 (1.970E+00)	1.450E+00 (1.430E+00)	< -3.830E-01 (1.690E+00)	5.030E+03 (4.710E+02)
07/01/1996		< -1.580E-01 (3.860E-01)	1.570E+01 (3.190E+00)	< -5.360E-01 (1.430E+00)	< -1.140E+00 (1.430E+00)	4.740E+03 (4.460E+02)
10/22/1996	1	6.710E-01 (1.060E+00)	1.240E+01 (2.720E+00)	NR	NR	5.200E+03 (4.900E+02)
MEAN		7.909E-02	1.151E+01	1.815E-01	-4.922E-01	5.003E+03
MINIMUM		< -1.870E-01	4.620E+00	< -5.360E-01	< -1.140E+00	4.740E+03
MAXIMUM		6.710E-01	1.570E+01	1.450E+00	4.590E-02	5.200E+03
2STD. ERR		4.022E-01	4.797E+00	1.272E+00	6.934E-01	1.916E+02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
1 REFER TO 1/27/97 INCIDENT REPORT. GAMMA SCAN DATA SUSPECT, RESULTS REMOVED FROM DATABASE.

2131 WEST LAKE (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	TRITIUM PCI/L	U-234 PCI/L
01/02/1996		2.000E+02 (6.080E+01)	2.950E+02 (4.400E+01)	1.900E+00 (3.250E+00)	9.240E-01 (3.000E+00)	5.970E-01 (2.410E-01)	1.270E+02 (1.530E+01)	2.230E+02 (1.450E+02)	2.040E+02 (2.230E+01)
04/02/1996		1.820E+02 (7.130E+01)	2.030E+02 (3.490E+01)	< -2.530E+00 (2.800E+00)	< -9.970E-01 (2.550E+00)	3.230E-01 (1.510E-01)	1.730E+01 (2.260E+00)	9.000E+01 (1.390E+02)	1.990E+02 (2.320E+01)
07/01/1996	1	3.230E+02 (9.590E+01)	5.160E+02 (7.760E+01)	4.050E+00 (3.030E+00)	< -5.430E-01 (3.380E+00)	NR	2.260E+01 (2.830E+00)	2.030E+02 (1.400E+02)	2.860E+03 (3.370E+02)
10/15/1996	2	1.530E+02 (5.840E+01)	2.370E+03 (4.760E+02)	8.810E-01 (3.170E+00)	< -2.090E-01 (4.160E+00)	3.410E+00 (7.040E-01)	NR	2.530E+02 (1.500E+02)	9.880E+02 (1.050E+02)
MEAN		2.145E+02	8.460E+02	1.075E+00	-2.063E-01	1.443E+00	5.563E+01	1.923E+02	1.063E+03
MINIMUM		1.530E+02	2.030E+02	< -2.530E+00	< -9.970E-01	3.230E-01	1.730E+01	9.000E+01	1.990E+02
MAXIMUM		3.230E+02	2.370E+03	4.050E+00	9.240E-01	3.410E+00	1.270E+02	2.530E+02	2.860E+03
2STD. ERR		7.488E+01	1.024E+03	2.743E+00	8.198E-01	1.973E+00	7.143E+01	7.120E+01	1.254E+03

2131 WEST LAKE (SURFACE , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
01/02/1996		7.320E+00 (1.370E+00)	1.880E+02 (2.060E+01)	3.993E+02 (3.039E+01)
04/02/1996		7.580E+00 (1.560E+00)	1.910E+02 (2.230E+01)	3.976E+02 (3.222E+01)
07/01/1996	1	1.180E+02 (1.600E+01)	2.670E+03 (3.140E+02)	5.648E+03 (4.609E+02)
10/15/1996	2	3.750E+01 (4.630E+00)	9.250E+02 (9.800E+01)	1.951E+03 (1.437E+02)
MEAN		4.260E+01	9.935E+02	2.099E+03
MINIMUM		7.320E+00	1.880E+02	3.976E+02
MAXIMUM		1.180E+02	2.670E+03	5.648E+03
2STD. ERR		5.222E+01	1.170E+03	2.477E+03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 WATER YELLOW AND SLIMMY WITH WHITE WIGGLERS IN IT.

SR-90 NOT ENOUGH SAMPLE TO PERFORM THE SR-90 ANALYSIS.

2 TC-99 REFER TO 1/2/97 INCIDENT REPORT REGARDING LOST ANALYSIS.

2141 RIVERVIEW CANAL (IRRIGATION , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L	U-235 PCI/L
05/08/1996		3.810E-01 (4.730E-01)	1.920E+00 (1.560E+00)	< -2.960E-01 (1.570E+00)	< -6.580E-01 (1.060E+00)	7.810E-02 (4.290E-02)	4.020E+01 (9.800E+00)	3.180E-01 (6.050E-02)	9.530E-03 (1.130E-02)
05/31/1996		3.020E-01 (3.850E-01)	1.420E+00 (1.470E+00)	< -2.970E-01 (1.260E+00)	1.230E-01 (1.020E+00)	1.270E-01 (4.740E-02)	3.300E+01 (8.540E+00)	2.310E-01 (5.070E-02)	9.800E-03 (1.090E-02)
07/02/1996		9.170E-01 (9.640E-01)	3.840E-01 (1.400E+00)	1.410E+00 (8.590E-01)	< -5.980E-01 (1.190E+00)	7.080E-02 (3.900E-02)	3.430E+01 (8.810E+00)	3.430E-01 (7.090E-02)	1.320E-02 (1.440E-02)
MEAN		5.333E-01	1.241E+00	2.723E-01	-3.777E-01	9.197E-02	3.583E+01	2.973E-01	1.084E-02
MINIMUM		3.020E-01	3.840E-01	< -2.970E-01	< -6.580E-01	7.080E-02	3.300E+01	2.310E-01	9.530E-03
MAXIMUM		9.170E-01	1.920E+00	1.410E+00	1.230E-01	1.270E-01	4.020E+01	3.430E-01	1.320E-02
2STD. ERR		3.864E-01	9.046E-01	1.138E+00	5.019E-01	3.529E-02	4.431E+00	6.789E-02	2.362E-03

2141 RIVERVIEW CANAL (IRRIGATION , RAW GRAB , UNFILTERED)

OFF DATE	COM	U-238 PCI/L	UISO_TOTAL PCI/L
05/08/1996		2.400E-01 (5.010E-02)	5.675E-01 (7.936E-02)
05/31/1996		1.440E-01 (3.780E-02)	3.848E-01 (6.417E-02)
07/02/1996		2.610E-01 (5.890E-02)	6.172E-01 (9.329E-02)
MEAN		2.150E-01	5.232E-01
MINIMUM		1.440E-01	3.848E-01
MAXIMUM		2.610E-01	6.172E-01
2STD. ERR		7.203E-02	1.413E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

Table W-1. Preliminary USGS Columbia River Water Quality Data for Vernita Bridge Near Priest Rapids Dam, Washington

	Discharge	Specific Conductance	pH	Temperature	Turbidity	Oxygen, Dissolved	Oxygen, Dissolved	Coliform, Fecal	Streptococci, Fecal	Hardness, Total	Hardness, Noncarbonate
Date	(cfs)	(uS/cm)		(oC)	(NTU)	(mg/L)	(% saturation)	(colonies/100 mL)	(colonies/100 mL)	(mg/L as CaCO3)	(mg/L as CaCO3)
01/17/96	161,000	140	8.0	4.5	0.6	13.4	104	NA (a)	NA	66	8
05/06/96	190,000	141	8.1	9.5	1.4	13.4	118	NA	NA	62	3
06/04/96	185,000	131	8.0	12.0	1	13.2	123	NA	NA	56	2
09/04/96	87,000	132	7.7	19.0	0.4	12.6	138	NA	NA	59	4
10/28/96	60,900	135	8	12	0.4	11	104	NA	NA	62	9
12/2/96	150,000	135	8	8	0.5	11.6	99	NA	NA	62	9

	Calcium, Dissolved	Magnesium, Dissolved	Sodium, Dissolved	Sodium, Percent	Sodium Adsorption Ratio	Potassium, Dissolved	Alkalinity	Bicarbonate	Carbonate	Sulfate, Dissolved	Chloride, Dissolved
Date	(mg/L)	(mg/L)	(mg/L)			(mg/L)	(mg/L as CaCO3)	(mg/L as CaCO3)	(mg/L as CaCO3)	(mg/L)	(mg/L)
01/17/96	19	4.5	2.2	7	0.1	0.8	58	71	0	7.5	1.3
05/06/96	18	4.2	2.3	7	0.1	0.7	59	72	0	8.6	1
06/04/96	16	3.9	2.3	8	0.1	0.8	54	66	0	7.9	0.9
09/04/96	17	4	1.9	6	0.1	0.7	55	67	0	8.6	0.9
10/28/96	18	4.2	1.9	6	0.1	0.7	53	65	0	9	0.9
12/2/96	18	4.1	1.9	6	0.1	0.7	53	65	0	8.5	0.7

	Fluoride, Dissolved	Silica, Dissolved	Solids, Residue at 180oC, Dissolved	Solids, Sum of Constituents, Dissolved	Solids, Dissolved	Solids, Dissolved	Nitrogen, Nitrite, Dissolved	Nitrogen, NO2+NO3, Total	Nitrogen, NO2+NO3, Dissolved	Nitrogen, Ammonia, Dissolved	Nitrogen Ammonia + Organic Total
Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(T/ao-ft)	(T/d)	(mg/L as N)	(mg/L as N)	(mg/L as N)	(mg/L as N)	(mg/L as N)
01/17/96	0.1	6.4	84	77	0.11	36,500	<0.01	NA	0.14	<0.015	<0.2
05/06/96	<0.1	7.5	83	78	0.11	42,600	<0.01	NA	0.12	0.02	<0.2
06/04/96	<0.1	7.6	95	72	0.13	47,500	<0.01	NA	0.1	0.02	<0.2
09/04/96	<0.1	4.3	73	71	0.1	17,100	<0.01	NA	0.09	<0.015	<0.2
10/28/96	<0.1	4.6	86	72	0.12	14100	0.02	NA	0.14	0.03	<0.2
12/2/96	0.1	4.6	100	71	0.14	40500	<0.01	NA	0.1	<0.002	<0.2

	Phosphorus, Total	Phosphorus, Dissolved	Phosphorus, Ortho, Dissolved	Aluminum, Dissolved	Barium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Iron, Dissolved	Lithium, Dissolved	Manganese, Dissolved	Molybdenum, Dissolved
Date	(mg/L as P)	(mg/L as P)	(mg/L as P)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/17/96	0.01	<0.01	0.002	3	33	NA	<1	4	4	<1	<1
05/06/96	0.05	<0.01	0.001	6	31	NA	<1	15	<4	2	<1
06/04/96	<0.01	<0.01	0.001	12	32	NA	<1	12	<4	1	<1
09/04/96	<0.01	<0.01	<0.001	4	26	NA	<1	7	<4	<1	<1
10/28/96	<0.01	<0.01	<0.001	4	26	NA	<1	4	<4	1	<1
12/2/96	<0.01	<0.01	<0.001	4	27	NA	<1	<3	<4	<1	<1

	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Strontium, Dissolved	Vanadium, Dissolved	Carbon, Organic, Dissolved	Sediment, Suspended	Sediment Discharge, Suspended
Date	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(T/d)
01/17/96	<1	<1	<1	79	<6	1.4	3	1300
05/06/96	4	<1	<1	80	<6	2.2	3	1540
06/04/96	<1	<1	<1	82	<6	2.1	5	2500
09/04/96	4	<1	<1	100	<6	1.7	3	705
10/28/96	2	<1	<1	94	<6	1.5	2	329
12/2/96	1	<1	<1	96	<6	1.3	2	810

(a) NA signifies constituent was not analyzed.

Table W-2. Preliminary USGS Columbia River Water Quality Data for Richland, Washington Near the Richland Pump House

Date	Discharge (cfs)	Specific Conductance (uS/cm)	pH	Temperature (°C)	Turbidity (NTU)	Oxygen, Dissolved (mg/L)	Oxygen, Dissolved (% saturation)	Coliform, Fecal (colonies/100 mL)	Streptococci, Fecal (colonies/100 mL)	Hardness, Total (mg/L as CaCO ₃)	Hardness, Noncarbonate (mg/L as CaCO ₃)
01/18/96	NR(a)	141	8	3.5	0.6	13.2	100	NA(b)	NA	67	7
05/07/96	NR	141	8	9.5	1.2	13.2	116	NA	NA	57	0
06/05/96	NR	130	8.1	13	1.6	12.5	119	NA	NA	60	5
9/5/96	NR	135	8	18.5	0.5	9.5	102	NA	NA	59	4
12/6/96	NR	138	8	7.5	0.4	11.3	96	NA	NA	63	9

Date	Calcium, Dissolved (mg/L)	Magnesium, Dissolved (mg/L)	Sodium, Dissolved (mg/L)	Sodium, Percent	Sodium Adsorption Ratio	Potassium, Dissolved (mg/L)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate (mg/L as CaCO ₃)	Carbonate (mg/L as CaCO ₃)	Sulfate, Dissolved (mg/L)	Chloride, Dissolved (mg/L)
01/18/96	19	4.7	NA	NA	NA	NA	60	73	0	7.5	1.4
05/07/96	16	4.1	NA	NA	NA	NA	60	73	0	7.7	1.1
06/05/96	17	4.2	NA	NA	NA	NA	55	67	0	7.8	1
9/5/96	17	4	NA	NA	NA	NA	55	67	0	8.9	1.1
12/6/96	18	4.5	NA	NA	NA	NA	55	67	0	8.3	0.8

Date	Fluoride, Dissolved (mg/L)	Silica, Dissolved (mg/L)	Solids, Residue at 180°C, Dissolved (mg/L)	Solids, Sum of Constituents, Dissolved (mg/L)	Solids, Dissolved (T/ac-ft)	Solids, Dissolved (T/d)	Nitrogen, Nitrite Dissolved (mg/L as N)	Nitrogen, NO ₂ +NO ₃ , Total (mg/L as N)	Nitrogen, NO ₂ +NO ₃ , Dissolved (mg/L as N)	Nitrogen, Ammonia, Dissolved (mg/L as N)	Nitrogen Ammonia + Organic Total (mg/L as N)
01/18/96	0.2	NA	85	NA	NA	NA	<0.01	NA	0.12	<0.015	<0.2
05/07/96	0.1	NA	87	NA	NA	NA	<0.01	NA	0.13	0.02	0.2
06/05/96	<0.1	NA	96	NA	NA	NA	<0.01	NA	0.09	0.03	<0.2
9/5/96	<0.1	NA	63	NA	NA	NA	<0.01	NA	0.11	<0.015	<0.2
12/6/96	<0.1	NA	75	NA	NA	NA	0.02	NA	0.13	<0.015	<0.2

Date	Phosphorus, Total (mg/L as P)	Phosphorus, Dissolved (mg/L as P)	Phosphorus, Ortho, Dissolved (mg/L as P)	Aluminum, Dissolved (ug/L)	Barium, Dissolved (ug/L)	Chromium, Dissolved (ug/L)	Cobalt, Dissolved (ug/L)	Iron, Dissolved (ug/L)	Lithium, Dissolved (ug/L)	Manganese, Dissolved (ug/L)	Molybdenum, Dissolved (ug/L)
01/18/96	0.01	NA	<0.01	NA	NA	<1	NA	8	NA	NA	NA
05/07/96	0.02	NA	<0.01	NA	NA	<1	NA	12	NA	NA	NA
06/05/96	0.01	NA	<0.01	NA	NA	<1	NA	16	NA	NA	NA
9/5/96	<0.01	NA	<0.01	NA	NA	11	NA	46	NA	NA	NA
12/6/96	0.02	NA	<0.01	NA	NA	<1	NA	6	NA	NA	NA

Date	Nickel, Dissolved (ug/L)	Selenium, Dissolved (ug/L)	Silver, Dissolved (ug/L)	Strontium, Dissolved (ug/L)	Vanadium, Dissolved (ug/L)	Carbon, Organic, Dissolved (mg/L)	Sediment, Suspended (mg/L)	Sediment Discharge, Suspended (T/d)
01/18/96	NA	NA	NA	NA	NA	1.3	4	NA
05/07/96	NA	NA	NA	NA	NA	2.2	6	NA
06/05/96	NA	NA	NA	NA	NA	2	5	NA
9/5/96	NA	NA	NA	NA	NA	1.5	2	NA
12/6/96	NA	NA	NA	NA	NA	1.2	1	NA

(a) Not Reported.

(b) NA signifies constituent was not analyzed.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996

Location	Sample Date	1,1,1-T	1,1,2-T	1,1-DCL	1,2-DCL	14DICLBENZ	1BUTANOL	ACETONE	BENZENE	CARBIDE	CARBETET	CHLOROFO	CISDCE	ETHCYANID	HEXONE	METHONE
Columbia River Transects																
300 AREA-1	09/20/96	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U	0.38	U
300 AREA-2	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-3	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-4	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-5	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-6	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-7	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-8	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-9	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
300 AREA-10	09/20/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
Water, 3																
100 N-1	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-2	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-3	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-4	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-5	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-6	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-7	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-8	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-9	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 N-10	09/25/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-1	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-2	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-3	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-4	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-5	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-6	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-7	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-8	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-9	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
100 F-10	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-1	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-2	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-3	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-4	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-5	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-6	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-7	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-8	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-9	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
HANFORD TOWNSITE-10	09/30/96	U	0.36	U	0.53	U	0.37	U	0.43	U	0.5	U	0.25	U	1.4	U
RICHLAND PUMPHOUSE-1	03/18/96	U	0.28	U	0.19	U	0.22	U	0.24	U	0.02	U	0.84	U	4.7	U
RICHLAND PUMPHOUSE-2	03/18/96	U	0.28	U	0.19	U	0.22	U	0.24	U	0.02	U	0.84	U	4.7	U

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRCL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996 (contd)

Location	Sample Date	METHYCH	M-XYLE	PERCENE	TETHYDF	TOLUENE	TRANDCE	TRICELN	VINYLDE
µg/L									
Columbia River Transects									
300 AREA -1	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -2	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -3	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -4	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	L 0.71	U 1.3
300 AREA -5	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -6	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -7	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -8	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -9	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
300 AREA -10	09/20/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
Water.4									
100 N -1	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -2	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -3	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -4	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -5	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -6	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -7	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -8	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -9	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 N -10	09/25/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -1	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -2	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -3	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -4	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -5	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -6	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -7	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -8	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -9	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
100 F -10	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-1	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-2	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-3	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-4	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-5	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-6	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-7	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-8	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-9	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
HANFORD TOWNSITE-10	09/30/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3
RICHLAND PUMPHOUSE-1	03/18/96	B 0.88	U 0.57	U 0.24	U 0.45	L 0.43	U 0.14	L 0.48	U 0.33
RICHLAND PUMPHOUSE-2	03/18/96	B 0.85	U 0.57	U 0.24	U 0.45	U 0.13	U 0.14	U 0.24	U 0.33

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996 (contd)

Location	Sample Date	1,1,1-T	1,1,2-T	1,1-DCL	1,2-DCL	1,4-DICBENZ	1-BUTANOL	ACETONE	BENZENE	CARBIDE	CARBET	CHLOROFO	CISDCE	ETHYANID	HEXONE	METHONE
µg/L																
RICHLAND PUMPHOUSE-3	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-4	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-5	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-6	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-7	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-8	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-9	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PMPHOUSE-10	03/18/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	12	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
RICHLAND PUMPHOUSE-1	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-2	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	L 1.5	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-3	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-4	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-5	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-6	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-7	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-8	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-9	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PMPHOUSE-10	06/07/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-1	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-2	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-3	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-4	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-5	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-6	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-7	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-8	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-9	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PMPHOUSE-10	09/20/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-1	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-2	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-3	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-4	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-5	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	16	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-6	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-7	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-8	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	L 3.6	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PUMPHOUSE-9	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
RICHLAND PMPHOUSE-10	12/09/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	L 4.5	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-1	03/14/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	L 9.5	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
VERNITA-2	03/14/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
VERNITA-3	03/14/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	U 4.7	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9
VERNITA-4	03/14/96	U 0.28	U 0.19	U 0.22	U 0.24	U 0.2	U 84	L 6.2	U 0.14	U 0.65	U 0.22	U 0.21	U 0.17	U 2.7	U 0.65	U 3.9

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996 (contd)

Location	Sample Date																
		METHYCH		M-XYLE		PERCENE		TETHYDF		TOLUENE		TRANDCE		TRICELN		VINYDE	
		µg/L															
RICHLAND PUMPHOUSE-3	03/18/96	B	0.85	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-4	03/18/96	B	0.84	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-5	03/18/96	B	0.92	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-6	03/18/96	B	0.93	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-7	03/18/96	B	0.92	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-8	03/18/96	B	0.85	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-9	03/18/96	B	0.82	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PMPHOUSE-10	03/18/96	B	0.91	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
RICHLAND PUMPHOUSE-1	06/07/96	B	0.84	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-2	06/07/96	B	0.81	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-3	06/07/96	B	0.86	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-4	06/07/96	B	0.84	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-5	06/07/96	B	0.77	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-6	06/07/96	B	0.82	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-7	06/07/96	B	0.84	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-8	06/07/96	B	0.87	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-9	06/07/96	B	0.76	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PMPHOUSE-10	06/07/96	B	0.82	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-1	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-2	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-3	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-4	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-5	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-6	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-7	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-8	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-9	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PMPHOUSE-10	09/20/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-1	12/09/96	B	0.46	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-2	12/09/96	B	0.38	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-3	12/09/96	B	0.41	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-4	12/09/96	B	0.46	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-5	12/09/96	B	0.42	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-6	12/09/96	B	0.39	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-7	12/09/96	B	0.41	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-8	12/09/96	B	0.37	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PUMPHOUSE-9	12/09/96	U	0.35	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
RICHLAND PMPHOUSE-10	12/09/96	B	0.39	U	1.3	U	0.35	U	2.5	U	0.44	U	0.48	U	0.39	U	1.3
VERNITA-1	03/14/96	U	0.62	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
VERNITA-2	03/14/96	U	0.62	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
VERNITA-3	03/14/96	U	0.62	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33
VERNITA-4	03/14/96	U	0.62	U	0.57	U	0.24	U	0.45	U	0.13	U	0.14	U	0.24	U	0.33

Water.6

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996 (contd)

Location	Sample Date	1,1,1-T	1,1,2-T	1,1-DCL	1,2-DCL	1,4-DICL BENZ	1-BUTANOL	ACETONE	BENZENE	CARBIDE	CARB TET	CHLOROFO	CISDCE	ETHYANID	HEXONE	METHONE
µg/L																
VERNITA-1	06/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-2	06/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-3	06/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-4	06/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-1	09/19/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-2	09/19/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-3	09/19/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-4	09/19/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-1	12/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	L 5.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-2	12/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	11	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-3	12/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
VERNITA-4	12/06/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	L 6.3	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
Riverbank Springs																
Water. 7 100 N SPRING 8-13	11/04/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	L 1.5	U 0.47	U 2.1	U 1.1	U 3.4
100-B SPRING	11/04/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
100-D SPRING	11/04/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	L 0.68	U 0.47	U 2.1	U 1.1	U 3.4
100-F SPRING	11/11/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4
HANFORD SPRING 28-2	11/11/96	U 0.36	U 0.53	U 0.37	U 0.43	U 0.5	U 25	U 1.4	U 0.38	U 0.33	U 0.35	U 0.41	U 0.47	U 2.1	U 1.1	U 3.4

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-3. Volatile Organic Compound Data for Columbia River Transects and Riverbank Springs, 1996 (contd)

Location	Sample Date	µg/L									
		METHYCH	M-XYLE	PERCENE	TETHYDF	TOLUENE	TRANDCE	TRICELN	VINYDE		
VERNITA-1	06/06/96	B 0.86	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-2	06/06/96	B 0.89	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-3	06/06/96	B 0.82	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-4	06/06/96	B 0.87	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-1	09/19/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	L 0.58	U 1.3		
VERNITA-2	09/19/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-3	09/19/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-4	09/19/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-1	12/06/96	B 0.58	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-2	12/06/96	B 0.52	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-3	12/06/96	B 0.36	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
VERNITA-4	12/06/96	B 0.45	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
Riverbank Springs											
100 N SPRING 8-13	11/04/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
100-B SPRING	11/04/96	B 0.35	U 1.3	U 0.35	L 4	U 0.44	U 0.48	L 0.52	U 1.3		
100-D SPRING	11/04/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
100-F SPRING	11/11/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		
HANFORD SPRING 28-2	11/11/96	U 0.35	U 1.3	U 0.35	U 2.5	U 0.44	U 0.48	U 0.39	U 1.3		

Water. 8

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996

Water.9

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl ⁻	Co	Cr	Cu	Cn	Fe	F ⁻	Hg	K
										µg/L								
300 AREA -1	09/20/96	U 4.5	BL 72 (19)	U 2.6	B 28 (13)	U 0.2	U 15	19000 (3420)	U 0.31	1100 (198)	U 5	BL 3.7 (2)	U 8.7		36 (3)	130 (51)		B 1200 (252)
300 AREA -2	09/20/96	U 4.5	BL 78 (21)	U 2.6	B 27 (13)	U 0.2	U 15	17000 (3060)	U 0.31	850 (153)	U 5	BL 2.6 (1)	U 8.7		48 (4)	L 99 (39)		B 1500 (315)
300 AREA -3	09/20/96	U 4.5	BL 79 (21)	U 2.6	B 26 (13)	L 0.33 0	U 15	17000 (3060)	U 0.31	760 (137)	U 5	BL 3.2 (1)	U 8.7		32 (3)	120 (47)		B 1600 (336)
300 AREA -4	09/20/96	U 4.5	BL 53 (14)	U 2.6	B 26 (13)	L 0.28 0	U 15	17000 (3060)	U 0.31	800 (144)	U 5	U 1.8	U 8.7		38 (3)	110 (43)		B 2400 (504)
300 AREA -5	09/20/96	L 4.8 (2)	BL 70 (19)	U 2.6	B 27 (13)	L 0.21 0	U 15	17000 (3060)	U 0.31	810 (146)	U 5	BL 2.6 (1)	U 8.7		39 (4)	110 (43)		BL 880 (185)
300 AREA -6	09/20/96	L 6.4 (3)	BL 71 (19)	U 2.6	B 27 (13)	U 0.2	U 15	17000 (3060)	U 0.31	940 (169)	U 5	BL 4.2 (2)	U 8.7		40 (4)	100 (39)		B 1800 (378)
300 AREA -7	09/20/96	U 4.5	BL 51 (14)	U 2.6	B 27 (13)	L 0.2 0	U 15	18000 (3240)	U 0.31	970 (175)	U 5	U 1.8	U 8.7		95 (9)	110 (43)		B 1600 (336)
300 AREA -8	09/20/96	U 4.5	BL 78 (21)	U 2.6	B 27 (13)	U 0.2	U 15	17000 (3060)	U 0.31	990 (178)	U 5	BL 4.8 (2)	U 8.7		65 (6)	110 (43)		B 1700 (357)
300 AREA -9	09/20/96	U 4.5	BL 45 (12)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	1100 (198)	U 5	U 1.8	U 8.7		170 (15)	120 (47)		B 1200 (252)
300 AREA -10	09/20/96	U 4.5	BL 74 (20)	U 2.6	B 28 (13)	U 0.2	U 15	19000 (3420)	U 0.31	1500 (270)	U 5	U 1.8	U 8.7		58 (5)	120 (47)		B 2200 (462)
100 N-1	09/25/96	U 4.5	L 27 (7)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	710 (128)	U 5	U 1.8	U 8.7		45 (4)	120 (47)		BL 970 (204)
100 N-2	09/25/96	U 4.5	U 15	U 2.6	24 (12)	U 0.2	U 15	17000 (3060)	U 0.31	720 (130)	U 5	U 1.8	U 8.7		37 (3)	120 (47)		B 1000 (210)
100 N-3	09/25/96	U 4.5	U 15	U 2.6	24 (12)	U 0.2	U 15	17000 (3060)	U 0.31	710 (128)	U 5	U 1.8	U 8.7		36 (3)	120 (47)		BL 280 (59)
100 N-4	09/25/96	U 4.5	U 15	U 2.6	23 (11)	U 0.2	U 15	17000 (3060)	U 0.31	720 (130)	U 5	U 1.8	U 8.7		33 (3)	120 (47)		BL 620 (130)
100 N-5	09/25/96	U 4.5	L 37 (10)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	720 (130)	U 5	L 2.4 (1)	U 8.7		36 (3)	120 (47)		B 1200 (252)
100 N-6	09/25/96	U 4.5	L 30 (8)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	750 (135)	U 5	U 1.8	U 8.7		42 (4)	160 (62)		BL 710 (149)
100 N-7	09/25/96	U 4.5	L 27 (7)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	1300 (234)	U 5	U 1.8	U 8.7		30 (3)	310 (121)		BL 460 (97)
100 N-8	09/25/96	U 4.5	U 15	U 2.6	24 (12)	U 0.2	U 15	17000 (3060)	U 0.31	860 (155)	U 5	U 1.8	U 8.7		33 (3)	130 (51)		BL 64 (13)

() - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	µg/L																	
		Mg	Mn	Na	Ni	No ₃ ⁻	No ₂ ⁻	Pb	Po ₄ ⁻³	Sb	Se	Sn	Sr	So ₄ ⁻²	Ti	V	Zn		
300 AREA -1	09/20/96	B 4300 (903)	BL 4.8 (1)	2700 (729)	U 7.4	3900 (819)	U 11	U 1.7	U 83	BL 51 (110)	U 3.8	U 17	100	D 9700 (3490)	U 3.7	U 1.7	U 7.7		
300 AREA -2	09/20/96	B 4000 (840)	BL 4.7 (1)	1900 (513)	U 7.4	530 (111)	U 11	U 1.7	U 83	BL 63 (136)	U 3.8	U 17	94	9300 (3350)	U 3.7	L 3.3 (2)	U 7.7		
300 AREA -3	09/20/96	B 4000 (840)	B 5.2 (1)	1900 (513)	U 7.4	380 (80)	U 11	U 1.7	U 83	BL 46 (99)	U 3.8	U 17	93	9000 (3240)	U 3.7	L 2 (1)	U 7.7		
300 AREA -4	09/20/96	B 4100 (861)	B 5.2 (1)	2000 (540)	L 8.7 (2)	440 (92)	U 11	U 1.7	U 83	BL 54 (117)	U 3.8	U 17	95	9200 (3310)	U 3.7	L 5 (3)	U 7.7		
300 AREA -5	09/20/96	B 4200 (882)	B 5.5 (1)	2100 (567)	U 7.4	370 (78)	L 15 (8)	L 2.1 (1)	U 83	U 43	U 3.8	U 17	96	9300 (3350)	U 3.7	U 1.7	U 7.7		
300 AREA -6	09/20/96	B 4300 (903)	BL 4.7 (1)	2400 (648)	L 22 (5)	440 (92)	U 11	L 2 (1)	U 83	BL 46 (99)	U 3.8	U 17	97	9800 (3530)	U 3.7	L 3.8 (2)	U 7.7		
300 AREA -7	09/20/96	B 4300 (903)	B 5.1 (1)	2400 (648)	L 14 (3)	480 (101)	L 14 (8)	U 1.7	U 83	U 43	U 3.8	U 17	99	9800 (3530)	U 3.7	L 2.2 (1)	U 7.7		
300 AREA -8	09/20/96	B 4300 (903)	B 6 (1)	2400 (648)	L 12 (3)	540 (113)	U 11	U 1.7	U 83	U 43	U 3.8	L 26 (23)	97	9900 (3560)	U 3.7	U 1.7	U 7.7		
300 AREA -9	09/20/96	B 4400 (924)	B 6 (1)	2600 (702)	L 11 (3)	550 (116)	L 22 (12)	U 1.7	U 83	U 43	U 3.8	U 17	99	D 10000 (3600)	U 3.7	L 2 (1)	U 7.7		
300 AREA -10	09/20/96	B 5100 (1070)	BL 6.4 (1)	3800 (1030)	L 8.7 (2)	750 (158)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	110	D 11000 (3960)	U 3.7	U 1.7	U 7.7		
100 N -1	09/25/96	4000 (840)	L 4.8 (1)	1900 (513)	U 7.4	380 (80)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 95	8900 (3200)	U 3.7	U 1.7	U 7.7		
100 N -2	09/25/96	4000 (840)	5.3 (1)	1900 (513)	U 7.4	450 (95)	L 14 (8)	U 1.7	U 83	U 43	U 3.8	U 17	B 96	8800 (3170)	U 3.7	U 1.7	U 7.7		
100 N -3	09/25/96	4000 (840)	L 4.8 (1)	1800 (486)	U 7.4	390 (82)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 95	8800 (3170)	U 3.7	U 1.7	U 7.7		
100 N -4	09/25/96	3900 (819)	5 (1)	1800 (486)	U 7.4	380 (80)	L 13 (7)	U 1.7	U 83	U 43	U 3.8	U 17	B 91	8800 (3170)	U 3.7	U 1.7	U 7.7		
100 N -5	09/25/96	3900 (819)	5.3 (1)	1800 (486)	U 7.4	390 (82)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 95	8900 (3200)	U 3.7	U 1.7	U 7.7		
100 N -6	09/25/96	3800 (798)	L 4.4 (1)	1800 (486)	U 7.4	390 (82)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 94	8900 (3200)	U 3.7	U 1.7	U 7.7		
100 N -7	09/25/96	3900 (819)	L 4.2 (1)	1800 (486)	U 7.4	480 (101)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 94	9100 (3280)	U 3.7	U 1.7	U 7.7		
100 N -8	09/25/96	4100 (861)	L 4.6 (1)	2200 (594)	U 7.4	390 (82)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 93	9200 (3310)	U 3.7	U 1.7	U 7.7		

Water.10

{ } - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Water.10

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl ⁻	Co	Cr	Cu	Cn	Fe	F ⁻	Hg	K
										µg/L								
100 N-9	09/25/96	U 4.5	L 18 (5)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	970 (175)	U 5	U 1.8	U 8.7		38 (3)	130 (51)		B 1500 (315)
100 N-10	09/25/96	U 4.5	L 39 (11)	U 2.6	25 (12)	U 0.2	U 15	17000 (3060)	U 0.31	1200 (216)	L 7.5 (2)	U 1.8	U 8.7		L 29 (3)	130 (51)		B 1000 (210)
100 F-1	09/30/96	U 4.5	BL 89 (24)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	740 (133)	U 5	BL 2.9 (1)	U 8.7		36 (3)	120 (47)	0.000246	B 1000 (210)
100 F-2	09/30/96	U 4.5	BL 67 (18)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	740 (133)	U 5	U 1.8	U 8.7		33 (3)	110 (43)	0.000223	B 1700 (357)
100 F-3	09/30/96	L 6.4 (3)	BL 49 (13)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	740 (133)	U 5	BL 4.5 (2)	U 8.7		L 29 (3)	110 (43)	0.000269	B 1000 (210)
100 F-4	09/30/96	U 4.5	BL 83 (22)	U 2.6	B 26 (13)	U 0.2	U 15	18000 (3240)	U 0.31	750 (135)	U 5	BL 4.2 (2)	U 8.7		37 (3)	110 (43)	0.000328	B 1800 (378)
100 F-5	09/30/96	L 6.9 (3)	BL 57 (15)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	740 (133)	U 5	BL 3.5 (1)	U 8.7		L 26 (2)	100 (39)	0.000191	B 2200 (462)
100 F-6	09/30/96	U 4.5	BL 72 (19)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	760 (137)	U 5	BL 2.1 (1)	U 8.7		31 (3)	110 (43)	0.000265	B 1200 (252)
100 F-7	09/30/96	U 4.5	BL 65 (18)	U 2.6	B 26 (13)	U 0.2	U 15	18000 (3240)	U 0.31	750 (135)	U 5	BL 3.2 (1)	U 8.7		L 28 (3)	100 (39)	0.000276	B 2000 (420)
100 F-8	09/30/96	L 7.4 (3)	BL 94 (25)	U 2.6	B 26 (13)	L 0.25 0	U 15	18000 (3240)	U 0.31	740 (133)	U 5	BL 4.2 (2)	U 8.7		42 (4)	100 (39)	0.000454	B 1500 (315)
100 F-9	09/30/96	U 4.5	BL 69 (19)	U 2.6	B 27 (13)	L 0.2 0	U 15	18000 (3240)	U 0.31	760 (137)	U 5	BL 3.1 (1)	U 8.7		32 (3)	100 (39)	0.000247	B 1400 (294)
100 F-10	09/30/96	L 4.8 (2)	BL 91 (25)	U 2.6	B 27 (13)	L 0.41 0	U 15	18000 (3240)	U 0.31	780 (140)	U 5	BL 3.7 (2)	U 8.7		L 29 (3)	110 (43)	0.000263	B 2000 (420)
HANFORD TOWNSITE-1	09/30/96	L 7.4 (3)	BL 60 (16)	U 2.6	B 29 (14)	U 0.2	U 15	20000 (3600)	U 0.31	1600 (288)	U 5	BL 4.8 (2)	U 8.7		L 24 (2)	110 (43)		B 1600 (336)
HANFORD TOWNSITE-2	09/30/96	U 4.5	BL 42 (11)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	750 (135)	U 5	BL 2.1 (1)	U 8.7		38 (3)	L 95 (37)		B 2000 (420)
HANFORD TOWNSITE-3	09/30/96	L 4.8 (2)	BL 75 (20)	U 2.6	B 27 (13)	L 0.25 0	U 15	18000 (3240)	U 0.31	710 (128)	U 5	BL 2.9 (1)	U 8.7		32 (3)	L 97 (38)		B 1700 (357)
HANFORD TOWNSITE-4	09/30/96	U 4.5	BL 72 (19)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	730 (131)	U 5	BL 1.9 (1)	U 8.7		L 29 (3)	100 (39)		B 1700 (357)
HANFORD TOWNSITE-5	09/30/96	U 4.5	BL 62 (17)	U 2.6	B 26 (13)	L 0.28 0	U 15	18000 (3240)	U 0.31	720 (130)	U 5	BL 4.2 (2)	U 8.7		39 (4)	L 93 (36)		B 1800 (378)
HANFORD TOWNSITE-6	09/30/96	U 4.5	BL 99 (27)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	730 (131)	U 5	BL 4 (2)	U 8.7		34 (3)	L 92 (36)		B 1100 (231)

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Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Mg	Mn	Na	Ni	No ₃ ⁻	No ₂ ⁻	Pb	PO ₄ ⁻³	Sb	Se	Sn	Sr	SO ₄ ⁻²	Ti	V	Zn
									µg/L								
100 N-9	09/25/96	4000 {840}	L 4.1 {1}	2200 {594}	U 7.4	410 {86}	L 18 {10}	U 1.7	U 83	U 43	U 3.8	U 17	B 96	9600 {3460}	U 3.7	U 1.7	U 7.7
100 N-10	09/25/96	4100 {861}	L 3.8 {1}	2700 {729}	U 7.4	500 {105}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 97	D 10000 {3600}	U 3.7	U 1.7	U 7.7
100 F-1	09/30/96	B 4100 {861}	5.1 {1}	1800 {486}	BL 11 {3}	380 {80}	L 17 {9}	U 1.7	U 83	L 46 {99}	U 3.8	U 17	B 95	D 9000 {3240}	U 3.7	L 2.8 {2}	U 7.7
100 F-2	09/30/96	B 4200 {882}	L 4.7 {1}	1800 {486}	BL 8.7 {2}	430 {90}	L 26 {14}	U 1.7	U 83	U 43	U 3.8	U 17	B 97	9200 {3310}	U 3.7	L 4.4 {3}	U 7.7
100 F-3	09/30/96	B 4200 {882}	5.2 {1}	1900 {513}	U 7.4	370 {78}	U 11	U 1.7	U 83	L 49 {106}	U 3.8	U 17	B 97	9200 {3310}	U 3.7	U 1.7	U 7.7
100 F-4	09/30/96	B 4100 {861}	5.5 {1}	1900 {513}	BL 11 {3}	420 {88}	L 13 {7}	U 1.7	U 83	L 77 {166}	U 3.8	U 17	B 95	9200 {3310}	U 3.7	L 4.1 {2}	U 7.7
100 F-5	09/30/96	B 4100 {861}	L 4.7 {1}	1900 {513}	BL 11 {3}	410 {86}	U 11	U 1.7	U 83	L 54 {117}	U 3.8	U 17	B 96	9100 {3280}	U 3.7	L 3.3 {2}	U 7.7
100 F-6	09/30/96	B 4200 {882}	L 4.8 {1}	1900 {513}	BL 16 {4}	390 {82}	U 11	U 1.7	U 83	L 52 {112}	U 3.8	L 30 {27}	B 97	9100 {3280}	U 3.7	U 1.7	U 7.7
100 F-7	09/30/96	B 4200 {882}	L 4.8 {1}	1900 {513}	BL 11 {3}	350 {74}	L 12 {6}	U 1.7	U 83	L 57 {123}	U 3.8	U 17	B 95	9200 {3310}	U 3.7	L 3.2 {2}	U 7.7
100 F-8	09/30/96	B 4200 {882}	L 4.5 {1}	1900 {513}	BL 17 {4}	360 {76}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 96	9100 {3280}	U 3.7	U 1.7	U 7.7
100 F-9	09/30/96	B 4200 {882}	L 4.7 {1}	1900 {513}	BL 10 {2}	420 {88}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 97	9200 {3310}	L 4.6 {1}	L 3.1 {2}	U 7.7
100 F-10	09/30/96	B 4200 {882}	L 4.8 {1}	2000 {540}	U 7.4	370 {78}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 96	9200 {3310}	U 3.7	L 4.4 {3}	U 7.7
HANFORD TOWNSITE-1	09/30/96	B 4700 {987}	L 4.3 {1}	3200 {864}	U 7.4	2600 {546}	L 17 {9}	U 1.7	U 83	L 54 {117}	U 3.8	U 17	B 110	D 12000 {4320}	U 3.7	L 2.5 {2}	U 7.7
HANFORD TOWNSITE-2	09/30/96	B 4200 {882}	L 4 {1}	1900 {513}	BL 15 {4}	430 {90}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 98	9200 {3310}	U 3.7	L 2.2 {1}	11 {4}
HANFORD TOWNSITE-3	09/30/96	B 4200 {882}	L 4.3 {1}	1900 {513}	BL 19 {5}	360 {76}	U 11	U 1.7	U 83	L 46 {99}	U 3.8	U 17	B 97	9100 {3280}	U 3.7	L 1.9 {1}	U 7.7
HANFORD TOWNSITE-4	09/30/96	B 4100 {861}	L 4.5 {1}	1900 {513}	U 7.4	360 {76}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 95	9000 {3240}	U 3.7	L 1.8 {1}	U 7.7
HANFORD TOWNSITE-5	09/30/96	B 4100 {861}	L 4.5 {1}	1900 {513}	BL 15 {4}	360 {76}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 96	9100 {3280}	U 3.7	L 3 {2}	U 7.7
HANFORD TOWNSITE-6	09/30/96	B 4200 {882}	L 4.8 {1}	1900 {513}	BL 12 {3}	350 {74}	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 98	9100 {3280}	U 3.7	U 1.7	U 7.7

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BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl ⁻	Co	Cr	Cu	Cn	Fe	F ⁻	Hg	K
										µg/L								
HANFORD TOWNSITE-7	09/30/96	U 4.5	BL 48 (13)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	750 (135)	U 5	BL 2.4 (1)	U 8.7		L 29 (3)	L 97 (38)		BL 970 (204)
HANFORD TOWNSITE-8	09/30/96	U 4.5	B 110 (30)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	760 (137)	U 5	BL 5 (2)	U 8.7		53 (5)	L 97 (38)		B 1300 (273)
HANFORD TOWNSITE-9	09/30/96	U 4.5	L 90 (24)	U 2.6	B 27 (13)	L 0.25 Ø	U 15	18000 (3240)	U 0.31	760 (137)	U 5	BL 4.8 (2)	U 8.7		33 (3)	L 96 (37)		B 1500 (315)
HANFORD TOWNSITE-10	09/30/96	L 4.8 (2)	L 83 (22)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	770 (139)	U 5	BL 1.8 (1)	U 8.7		36 (3)	L 97 (38)		B 1600 (336)
RICHLAND PUMPHOUSE-1	03/18/96	U 5.5	550 (149)	U 2.6	33 (16)	U 0.63	U 72	18000 (3240)	U 0.98	980 (176)	U 5.3	U 3.7	U 2.1		420 (38)	260 (101)		L 640 (134)
RICHLAND PUMPHOUSE-2	03/18/96	U 5.5	370 (100)	U 2.6	33 (16)	U 0.63	U 72	18000 (3240)	U 0.98	980 (176)	U 5.3	U 3.7	U 2.1		320 (29)	290 (113)		L 540 (113)
RICHLAND PUMPHOUSE-3	03/18/96	U 5.5	520 (140)	U 2.6	33 (16)	U 0.63	U 72	18000 (3240)	L 0.98 Ø	990 (178)	L 5.6 (2)	U 3.7	U 2.1		400 (36)	290 (113)		L 990 (208)
RICHLAND PUMPHOUSE-4	03/18/96	U 5.5	520 (140)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	L 1.9 (1)	1000 (180)	U 5.3	U 3.7	U 2.1		410 (37)	240 (94)		1300 (273)
RICHLAND PUMPHOUSE-5	03/18/96	U 5.5	540 (146)	U 2.6	33 (16)	U 0.63	U 72	18000 (3240)	U 0.98	1000 (180)	L 7.3 (2)	U 3.7	U 2.1		430 (39)	270 (105)		L 930 (195)
RICHLAND PUMPHOUSE-6	03/18/96	U 5.5	550 (149)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	U 0.98	990 (178)	U 5.3	U 3.7	U 2.1		410 (37)	270 (105)		L 840 (176)
RICHLAND PUMPHOUSE-7	03/18/96	U 5.5	590 (159)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	L 1.1 Ø	1000 (180)	U 5.3	U 3.7	U 2.1		450 (41)	250 (98)		1200 (252)
RICHLAND PUMPHOUSE-8	03/18/96	U 5.5	550 (149)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	U 0.98	990 (178)	U 5.3	L 4.1 (2)	U 2.1		420 (38)	280 (109)		L 990 (208)
RICHLAND PUMPHOUSE-9	03/18/96	U 5.5	590 (159)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	U 0.98	1000 (180)	U 5.3	U 3.7	U 2.1		450 (41)	290 (113)		L 830 (174)
RICHLAND PUMPHOUSE-10	03/18/96	U 5.5	580 (157)	U 2.6	34 (16)	U 0.63	U 72	18000 (3240)	U 0.98	1200 (216)	U 5.3	U 3.7	U 2.1		450 (41)	260 (101)		1400 (294)
RICHLAND PUMPHOUSE-1	06/07/96	U 4.5	180 (43)	U 2.6	30 (13)	U 0.2	U 15	16000 (2700)	U 3.2	1100 (198)	U 5	BL 2.2 (1)	U 8.7		140 (11)	220 (86)		L 550 (103)
RICHLAND PUMPHOUSE-2	06/07/96	U 4.5	120 (27)	U 2.6	29 (13)	U 0.2	U 15	16000 (2700)	U 3.2	890 (160)	U 5	U 1.8	U 8.7		100 (8)	140 (55)		L 120 (21)
RICHLAND PUMPHOUSE-3	06/07/96	U 4.5	100 (25)	U 2.6	27 (12)	U 0.2	U 15	16000 (2700)	U 3.2	900 (162)	U 5	U 1.8	U 8.7		150 (13)	150 (59)		U 18
RICHLAND PUMPHOUSE-4	06/07/96	U 4.5	120 (30)	U 2.6	28 (13)	U 0.2	U 15	16000 (2520)	U 3.2	920 (166)	U 5	U 1.8	U 8.7		110 (9)	140 (55)		L 40 (8)

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BL - Combination of B and L qualifiers.

Water: 13

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Mg	Mn	Na	Ni	NO ₃ ⁻	NO ₂ ⁻	Pb	PO ₄ ⁻³	Sb	Se	Sn	Sr	SO ₄ ⁻²	Ti	V	Zn
									µg/L								
HANFORD TOWNSITE-7	09/30/96	B 4200 (882)	L 4.8 (1)	1900 (513)	BL 15 (4)	370 (78)	U 11	U 1.7	U 83	U 43	U 3.8	U 17	B 97	9200 (3310)	U 3.7	U 1.7	U 7.7
HANFORD TOWNSITE-8	09/30/96	B 4100 (861)	5.1 (1)	1900 (513)	U 7.4	470 (99)	U 11	U 1.7	U 83	L 52 (112)	U 3.8	U 17	B 95	9200 (3310)	U 3.7	L 2.5 (2)	U 7.7
HANFORD TOWNSITE-9	09/30/96	B 4300 (903)	5.2 (1)	2000 (540)	BL 16 (4)	360 (76)	U 11	U 1.7	U 83	L 60 (130)	U 3.8	U 17	B 98	9200 (3310)	U 3.7	U 1.7	U 7.7
HANFORD TOWNSITE-10	09/30/96	B 4200 (882)	5.2 (1)	2000 (540)	U 7.4	340 (71)	U 11	U 1.7	U 83	L 54 (117)	U 3.8	U 17	B 96	9200 (3310)	5.1 (2)	L 3.5 (2)	U 7.7
RICHLAND PUMPHOUSE-1	03/18/96	4500 (945)	B 8.4 (1)	2100 (567)	U 11	870 (183)	U 140	L 1.8 (1)	U 340	U 24	U 3.8	U 30	85	D 8500 (3060)	U 3.7	U 1.9	L 6.7 (2)
RICHLAND PUMPHOUSE-2	03/18/96	4500 (945)	B 7.8 (1)	2100 (567)	U 11	810 (170)	U 140	L 2.3 (1)	U 340	U 24	U 3.8	U 30	86	8800 (3170)	U 3.7	U 1.9	12 (4)
RICHLAND PUMPHOUSE-3	03/18/96	4500 (945)	B 8.5 (1)	2200 (594)	U 11	840 (176)	U 140	L 1.8 (1)	U 340	U 24	U 3.8	U 30	86	8900 (3200)	U 3.7	L 3 (2)	L 9.5 (3)
RICHLAND PUMPHOUSE-4	03/18/96	4500 (945)	B 8.5 (1)	2100 (567)	U 11	800 (168)	U 140	U 1.7	U 340	L 30 (65)	U 3.8	U 30	86	8900 (3200)	U 3.7	L 3 (2)	13 (4)
RICHLAND PUMPHOUSE-5	03/18/96	4500 (945)	B 8.6 (1)	2100 (567)	U 11	790 (166)	U 140	U 1.7	U 340	L 39 (84)	U 3.8	U 30	86	8900 (3200)	U 3.7	U 1.9	L 9.5 (3)
RICHLAND PUMPHOUSE-6	03/18/96	4500 (945)	B 8.6 (1)	2200 (594)	U 11	770 (162)	U 140	U 1.7	U 340	U 24	U 3.8	U 30	87	8900 (3200)	U 3.7	L 2.6 (2)	L 8.7 (3)
RICHLAND PUMPHOUSE-7	03/18/96	4500 (945)	B 8.8 (1)	2200 (594)	U 11	790 (166)	U 140	U 1.7	U 340	U 24	U 3.8	U 30	86	8900 (3200)	U 3.7	L 2.6 (2)	15 (5)
RICHLAND PUMPHOUSE-8	03/18/96	4500 (945)	B 8.6 (1)	2200 (594)	U 11	800 (168)	U 140	U 1.7	U 340	U 24	U 3.8	U 30	87	9000 (3240)	U 3.7	U 1.9	L 9.1 (3)
RICHLAND PUMPHOUSE-9	03/18/96	4600 (966)	B 8.9 (1)	2200 (594)	U 11	820 (172)	U 140	U 1.7	U 340	U 24	U 3.8	U 30	88	9000 (3240)	U 3.7	L 2.3 (1)	L 9.1 (3)
RICHLAND PMPHOUSE-10	03/18/96	4700 (987)	B 9.4 (1)	2500 (675)	U 11	960 (202)	U 140	L 2.1 (1)	U 340	U 24	U 3.8	U 30	89	9500 (3420)	U 3.7	U 1.9	L 9.1 (3)
RICHLAND PUMPHOUSE-1	06/07/96	4200 (777)	9.9 (1)	2600 (621)	BL 12 (3)	410 (86)	U 11	U 1.7	U 83	U 43	U 3.8	BL 45 (36)	77	7900 (2840)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-2	06/07/96	4000 (756)	8.6 (1)	2400 (567)	U 7.4	320 (67)	U 11	U 1.7	U 83	U 43	U 3.8	BL 60 (49)	76	7600 (2740)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-3	06/07/96	4000 (756)	8.9 (1)	2300 (567)	U 7.4	320 (67)	U 11	U 1.7	U 83	U 43	U 3.8	BL 48 (39)	76	7500 (2700)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-4	06/07/96	3900 (735)	8.2 (1)	2200 (540)	U 7.4	300 (63)	U 11	U 1.7	U 83	U 43	U 3.8	BL 35 (28)	75	7600 (2740)	U 3.7	U 1.7	U 7.7

Water: 14

{ } - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl ⁻	Co	Cr	Cu	Cn	Fe	F ⁻	Hg	K
										µg/L								
RICHLAND PUMPHOUSE-5	06/07/96	U 4.5	130 (30)	U 2.6	29 (13)	U 0.2	U 15	16000 (2700)	U 3.2	890 (160)	U 5	BL 2.2 (1)	U 8.7		100 (8)	140 (55)		U 18
RICHLAND PUMPHOUSE-6	06/07/96	U 4.5	130 (30)	U 2.6	29 (13)	U 0.2	U 15	16000 (2700)	L 3.4 (1)	900 (162)	U 5	U 1.8	U 8.7		110 (9)	140 (55)		L 400 (76)
RICHLAND PUMPHOUSE-7	06/07/96	U 4.5	140 (35)	U 2.6	29 (13)	U 0.2	U 15	16000 (2700)	U 3.2	910 (164)	L 6 (1)	U 1.8	U 8.7		130 (10)	140 (55)		L 210 (40)
RICHLAND PUMPHOUSE-8	06/07/96	U 4.5	120 (30)	U 2.6	29 (13)	U 0.2	U 15	16000 (2520)	U 3.2	850 (153)	U 5	U 1.8	U 8.7		96 (8)	120 (47)		L 66 (13)
RICHLAND PUMPHOUSE-9	06/07/96	U 4.5	150 (35)	U 2.6	28 (12)	U 0.2	U 15	16000 (2700)	U 3.2	880 (158)	L 5.2 (1)	U 1.8	U 8.7		100 (8)	120 (47)		L 340 (63)
RICHLAND PUMPHOUSE-10	06/07/96	U 4.5	130 (30)	U 2.6	27 (12)	U 0.2	U 15	16000 (2700)	U 3.2	870 (157)	U 5	U 1.8	U 8.7		99 (8)	130 (51)		L 150 (27)
RICHLAND PUMPHOUSE-1	09/20/96	U 4.5	BL 48 (13)	U 2.6	B 27 (13)	L 0.34 ()	U 15	18000 (3240)	U 0.31	780 (140)	U 5	U 1.8	U 8.7	U 2.4	33 (3)	110 (43)		BL 900 (169)
RICHLAND PUMPHOUSE-2	09/20/96	U 4.5	BL 36 (10)	U 2.6	B 26 (13)	U 0.2	U 15	17000 (3060)	U 0.31	740 (133)	U 5	U 1.8	U 8.7	U 2.4	40 (4)	110 (43)		B 2100 (441)
RICHLAND PUMPHOUSE-3	09/20/96	U 4.5	BL 33 (9)	U 2.6	B 27 (13)	L 0.28 ()	U 15	17000 (3060)	U 0.31	850 (153)	U 5	BL 3.7 (2)	U 8.7	U 2.4	38 (3)	170 (66)	0.000914	B 2300 (483)
RICHLAND PUMPHOUSE-4	09/20/96	L 6.4 (3)	BL 82 (22)	U 2.6	B 27 (13)	L 0.28 ()	U 15	17000 (3060)	U 0.31	750 (135)	U 5	BL 3.4 (1)	U 8.7	U 2.4	46 (4)	110 (43)	0.000494	B 2300 (483)
RICHLAND PUMPHOUSE-5	09/20/96	L 5.3 (2)	B 110 (30)	U 2.6	B 28 (13)	U 0.2	U 15	18000 (3240)	U 0.31	760 (137)	U 5	BL 4.8 (2)	U 8.7	U 2.4	45 (4)	110 (43)	0.000467	B 1900 (399)
RICHLAND PUMPHOUSE-6	09/20/96	U 4.5	BL 56 (15)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	790 (142)	U 5	U 1.8	U 8.7	U 2.4	38 (3)	120 (47)	0.00039	B 1900 (399)
RICHLAND PUMPHOUSE-7	09/20/96	L 5.8 (2)	B 100 (27)	U 2.6	B 28 (13)	U 0.2	U 15	18000 (3240)	U 0.31	770 (139)	U 5	BL 4.2 (2)	U 8.7	U 2.4	45 (4)	110 (43)	0.000362	B 1400 (294)
RICHLAND PUMPHOUSE-8	09/20/96	U 4.5	BL 77 (21)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	780 (140)	U 5	BL 3.2 (1)	U 8.7	U 2.4	68 (6)	110 (43)	0.0004	B 1900 (399)
RICHLAND PUMPHOUSE-9	09/20/96	U 4.5	BL 63 (17)	U 2.6	B 27 (13)	U 0.2	U 15	18000 (3240)	U 0.31	810 (146)	U 5	BL 1.8 (1)	U 8.7	U 2.4	57 (5)	110 (43)	0.000381	B 1400 (294)
RICHLAND PUMPHOUSE-10	09/20/96	U 4.5	BL 86 (23)	U 2.6	B 36 (17)	U 0.2	U 15	24000 (4320)	U 0.31	1300 (234)	U 5	BL 4 (2)	U 8.7	U 2.4	92 (8)	120 (47)	0.000433	B 2300 (483)
RICHLAND PUMPHOUSE-1	12/09/96	U 4.5	L 31 (8)	U 2.6	30 (14)	U 0.2	U 15	18000 (3240)	U 0.31	820 (148)	U 5	U 1.8	U 8.7		BL 29 (3)	120 (47)		B 1300 (273)

Water. 15

() - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Mg	Mn	Na	Ni	No ₃ ⁻	No ₂ ⁻	Pb	Po ₄ ⁻³	Sb	Se	Sn	Sr	So ₄ ⁻²	Ti	V	Zn	
		µg/L																
RICHLAND PUMPHOUSE-5	06/07/96	4000 (756)	8.7 (1)	2300 (540)	U 7.4	290 (61)	U 11	U 1.7	U 83	U	43	U 3.8	L 18 (16)	76	7500 (2700)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-6	06/07/96	4000 (756)	8.6 (1)	2300 (540)	U 7.4	290 (61)	U 11	U 1.7	U 83	U	43	5.3 (2)	BL 48 (39)	76	7500 (2700)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-7	06/07/96	4000 (756)	8.7 (1)	2300 (540)	U 7.4	290 (61)	U 11	U 1.7	U 83	U	43	U 3.8	BL 42 (34)	75	7600 (2740)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-8	06/07/96	3900 (735)	8.6 (1)	2200 (540)	BL 8.6 (2)	310 (65)	U 11	U 1.7	U 83	BL	59 (114)	U 3.8	BL 44 (35)	75	7400 (2660)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-9	06/07/96	4000 (756)	8.6 (1)	2200 (540)	BL 8.6 (2)	250 (53)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	76	7400 (2660)	U 3.7	U 1.7	U 7.7
RICHLAND PMPHOUSE-10	06/07/96	4000 (756)	8.1 (1)	2200 (540)	U 7.4	260 (55)	U 11	U 1.7	U 83	U	43	U 3.8	BL 47 (38)	76	7500 (2700)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-1	09/20/96	B 4200 (882)	BL 4.7 (1)	2000 (540)	L 8.7 (2)	390 (82)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	96	9100 (3280)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-2	09/20/96	B 4100 (861)	BL 4.5 (1)	1900 (513)	L 8.7 (2)	380 (80)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	94	9000 (3240)	U 3.7	L 3.7 (2)	U 7.7
RICHLAND PUMPHOUSE-3	09/20/96	B 4000 (840)	B 5.3 (1)	1800 (486)	L 16 (4)	320 (67)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	94	9100 (3280)	U 3.7	L 3.7 (2)	U 7.7
RICHLAND PUMPHOUSE-4	09/20/96	B 4100 (861)	B 5.5 (1)	1900 (513)	L 10 (2)	320 (67)	U 11	U 1.7	U 83	1998.7	59.4 (123)	U 3.8	U 17	96	9100 (3280)	U 3.7	L 4.3 (3)	U 7.7
RICHLAND PUMPHOUSE-5	09/20/96	B 4200 (882)	B 5.6 (1)	2000 (540)	L 20 (5)	340 (71)	U 11	U 1.7	U 83	1998.7	51.4 (106)	U 3.8	U 17	97	9100 (3280)	U 3.7	L 3.2 (2)	U 7.7
RICHLAND PUMPHOUSE-6	09/20/96	B 4100 (861)	BL 4.9 (1)	2000 (540)	U 7.4	350 (74)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	96	9100 (3280)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-7	09/20/96	B 4200 (882)	B 5.7 (1)	2000 (540)	L 16 (4)	690 (145)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	97	9200 (3310)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-8	09/20/96	B 4200 (882)	B 5.6 (1)	2000 (540)	L 11 (3)	350 (74)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	97	9200 (3310)	U 3.7	U 1.7	U 7.7
RICHLAND PUMPHOUSE-9	09/20/96	B 4300 (903)	B 5.6 (1)	2100 (567)	U 7.4	410 (86)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	98	9300 (3350)	U 3.7	U 1.7	U 7.7
RICHLAND PMPHOUSE-10	09/20/96	B 6200 (1300)	B 7.3 (1)	4300 (1160)	L 11 (3)	900 (189)	U 11	L 1.9 (1)	U 83	1999	45.4	U 3.8	U 17	130	D 11000 (3960)	U 3.7	L 4.4 (3)	L 8.7 (3)
RICHLAND PUMPHOUSE-1	12/09/96	4400 (924)	L 2.4 (0)	2000 (540)	U 7.4	1500 (315)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 93	D 9500 (3420)	U 3.7	U 1.7	U 7.7

Water. 16

{ } - Total Propagated Analytical Uncertainty.

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L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl	Co	Cr	Cu	Cn	Fe	F	Hg	K
										µg/L								
RICHLAND PUMPHOUSE-2	12/09/96	U 4.5	L 47 (13)	U 2.6	29 (14)	U 0.2	U 15	18000 (3240)	U 0.31	770 (139)	U 5	U 1.8	U 8.7		B 42 (4)	120 (47)		BL 980 (206)
RICHLAND PUMPHOUSE-3	12/09/96	U 4.5	L 34 (9)	U 2.6	32 (15)	U 0.2	U 15	18000 (3240)	U 0.31	790 (142)	U 5	80 (34)	U 8.7		B 340 (31)	110 (43)		BL 400 (84)
RICHLAND PUMPHOUSE-4	12/09/96	U 4.5	L 15 (4)	U 2.6	33 (16)	U 0.2	U 15	18000 (3240)	U 0.31	800 (144)	U 5	47 (20)	U 8.7		B 230 (21)	120 (47)		BL 400 (84)
RICHLAND PUMPHOUSE-5	12/09/96	L 5 (2)	250 (68)	U 2.6	30 (14)	U 0.2	U 15	19000 (3420)	U 0.31	810 (146)	U 5	U 1.8	U 8.7		B 240 (22)	120 (47)		B 1800 (378)
RICHLAND PUMPHOUSE-6	12/09/96	U 4.5	L 17 (5)	U 2.6	29 (14)	U 0.2	U 15	18000 (3240)	U 0.31	800 (144)	U 5	U 1.8	U 8.7		B 44 (4)	110 (43)		BL 550 (116)
RICHLAND PUMPHOUSE-7	12/09/96	L 5.5 (2)	L 42 (11)	U 2.6	30 (14)	U 0.2	U 15	18000 (3240)	U 0.31	800 (144)	U 5	U 1.8	U 8.7		B 50 (5)	110 (43)		BL 860 (181)
RICHLAND PUMPHOUSE-8	12/09/96	U 4.5	L 55 (15)	U 2.6	30 (14)	U 0.2	U 15	19000 (3420)	U 0.31	820 (148)	U 5	U 1.8	U 8.7		B 44 (4)	110 (43)		BL 550 (116)
RICHLAND PUMPHOUSE-9	12/09/96	U 4.5	L 39 (11)	U 2.6	30 (14)	U 0.2	U 15	19000 (3420)	U 0.31	860 (155)	U 5	U 1.8	U 8.7		B 56 (5)	110 (43)		B 1500 (315)
RICHLAND PMPHOUSE-10	12/09/96	U 4.5	L 65 (18)	U 2.6	31 (15)	U 0.2	U 15	20000 (3600)	U 0.31	1400 (252)	U 5	U 1.8	U 8.7		B 66 (6)	120 (47)		U 18
VERNITA-1	03/14/96	U 5.5	190 (51)	U 2.6	30 (14)	U 0.63	U 72	18000 (3240)	U 0.98	950 (171)	U 5.3	U 3.7	U 2.1		150 (14)	110 (43)		L 670 (141)
VERNITA-2	03/14/96	U 5.5	490 (132)	U 2.6	32 (15)	U 0.63	U 72	18000 (3240)	U 0.98	950 (171)	U 5.3	U 3.7	U 2.1		390 (35)	110 (43)		U 390
VERNITA-3	03/14/96	U 5.5	330 (89)	U 2.6	31 (15)	U 0.63	U 72	18000 (3240)	U 0.98	960 (173)	U 5.3	U 3.7	U 2.1		250 (23)	110 (43)		L 800 (168)
VERNITA-4	03/14/96	U 5.5	200 (54)	U 2.6	30 (14)	U 0.63	U 72	18000 (3240)	U 0.98	1100 (198)	U 5.3	U 3.7	L 2.8 (1)		170 (15)	120 (47)		L 720 (151)
VERNITA-1	06/06/96	U 4.5	130 (35)	L 2.9 (2)	28 (13)	U 0.2	U 15	15000 (2700)	U 3.2	870 (157)	U 5	U 1.8	U 8.7		150 (14)	270 (105)		L 590 (124)
VERNITA-2	06/06/96	U 4.5	160 (43)	U 2.6	27 (13)	U 0.2	U 15	15000 (2700)	U 3.2	850 (153)	U 5	U 1.8	U 8.7		160 (14)	250 (98)		L 350 (74)
VERNITA-3	06/06/96	U 4.5	160 (43)	U 2.6	28 (13)	U 0.2	U 15	15000 (2700)	U 3.2	870 (157)	L 7.4 (2)	U 1.8	U 8.7		140 (13)	240 (94)		L 61 (13)
VERNITA-4	06/06/96	U 4.5	L 75 (20)	U 2.6	26 (13)	U 0.2	U 15	15000 (2700)	U 3.2	910 (164)	U 5	U 1.8	U 8.7		100 (9)	240 (94)		L 510 (107)
VERNITA-1	09/19/96	U 4.5	L 69 (19)	U 2.6	27 (13)	U 0.2	U 15	20000 (3600)	U 0.31	720 (130)	U 5	BL 2.2 (1)	U 8.7	U 2.4	43 (4)	110 (43)	0.000373	B 1900 (399)

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B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	µg/L																	
		Mg	Mn	Na	Ni	NO ₃ ⁻	NO ₂ ⁻	Pb	PO ₄ ⁻³	Sb	Se	Sn	Sr	SO ₄ ⁻²	Tl	V	Zn		
RICHLAND PUMPHOUSE-2	12/09/96	4400 (924)	L 3 0	1900 (513)	U 7.4	630 (132)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 93	9000 (3240)	U 3.7	U 1.7	U 7.7	
RICHLAND PUMPHOUSE-3	12/09/96	4400 (924)	44 (7)	1900 (513)	37 (9)	660 (139)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 91	9000 (3240)	U 3.7	U 1.7	15 (5)	
RICHLAND PUMPHOUSE-4	12/09/96	4400 (924)	30 (5)	1900 (513)	L 14 (3)	660 (139)	U 11	L 1.9 (1)	U 83	U	43	U 3.8	U 17	B 93	9000 (3240)	U 3.7	U 1.7	16 (5)	
RICHLAND PUMPHOUSE-5	12/09/96	4500 (945)	12 (2)	2000 (540)	U 7.4	980 (206)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 94	9100 (3280)	U 3.7	BL 2 (1)	U 7.7	
RICHLAND PUMPHOUSE-6	12/09/96	4400 (924)	L 2.7 0	1900 (513)	U 7.4	660 (139)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 93	9000 (3240)	U 3.7	U 1.7	U 7.7	
RICHLAND PUMPHOUSE-7	12/09/96	4400 (924)	L 3.3 0	2000 (540)	U 7.4	660 (139)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 93	9000 (3240)	U 3.7	U 1.7	U 7.7	
RICHLAND PUMPHOUSE-8	12/09/96	4600 (966)	L 3.1 0	2000 (540)	U 7.4	670 (141)	U 11	L 1.9 (1)	U 83	U	43	U 3.8	U 17	B 96	9100 (3280)	U 3.7	U 1.7	U 7.7	
RICHLAND PUMPHOUSE-9	12/09/96	4500 (945)	L 2.8 0	2100 (567)	U 7.4	780 (164)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 95	9200 (3310)	U 3.7	BL 3.9 (2)	13 (4)	
RICHLAND PMPHOUSE-10	12/09/96	5100 (1070)	L 3 0	3400 (918)	U 7.4	1400 (294)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 100	D 12000 (4320)	U 3.7	U 1.7	U 7.7	
VERNITA-1	03/14/96	4500 (945)	5.7 (1)	2100 (567)	U 11	730 (153)	U 140	U 1.7	U 340	U	24	U 3.8	U 30	87	9000 (3240)	U 3.7	U 1.9	10 (3)	
VERNITA-2	03/14/96	4500 (945)	7.1 (1)	2200 (594)	U 11	920 (193)	U 140	U 1.7	U 340	U	24	U 3.8	U 30	87	9000 (3240)	5.1 (2)	U 1.9	L 8.9 (3)	
VERNITA-3	03/14/96	4500 (945)	6.7 (1)	2200 (594)	U 11	830 (174)	U 140	U 1.7	U 340	U	24	U 3.8	U 30	87	9000 (3240)	L 4 (1)	U 1.9	L 9.6 (3)	
VERNITA-4	03/14/96	4500 (945)	5.7 (1)	2300 (621)	U 11	800 (168)	U 140	U 1.7	U 340	U	24	U 3.8	U 30	86	9200 (3310)	U 3.7	U 1.9	12 (4)	
VERNITA-1	06/06/96	3700 (777)	B 8.7 (1)	2000 (540)	U 7.4	410 (86)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	71	7400 (2660)	U 3.7	U 1.7	U 7.7	
VERNITA-2	06/06/96	3600 (756)	B 8.2 (1)	2000 (540)	U 7.4	270 (57)	U 11	U 1.7	U 83	U	43	U 3.8	L 33 (30)	69	7200 (2590)	U 3.7	U 1.7	U 7.7	
VERNITA-3	06/06/96	3600 (756)	B 8.2 (1)	2000 (540)	U 7.4	280 (59)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	71	7400 (2660)	U 3.7	U 1.7	U 7.7	
VERNITA-4	06/06/96	3600 (756)	B 7.4 (1)	2100 (567)	U 7.4	390 (82)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	70	7600 (2740)	U 3.7	U 1.7	L 9.2 (3)	
VERNITA-1	09/19/96	4700 (987)	B 6.4 (1)	2200 (594)	BL 11 (3)	380 (80)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	96	D 8900 (3200)	U 3.7	L 2.3 (1)	U 7.7	

Water: 18

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L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Ag	Al	As	Ba	Be	Br	Ca	Cd	Cl ⁻	Co	Cr	Cu	Cn	Fe	F ⁻	Hg	K
										µg/L								
VERNITA-2	09/19/96	U 4.5	L 66 (18)	U 2.6	26 (13)	L 0.34 0	U 15	19000 (3420)	U 0.31	700 (126)	U 5	BL 4.4 (2)	U 8.7	U 2.4	45 (4)	110 (43)	0.000476	B 1900 (399)
VERNITA-3	09/19/96	U 4.5	L 21 (6)	U 2.6	26 (13)	L 0.26 0	U 15	20000 (3600)	L 0.34 0	730 (131)	U 5	U 1.8	U 8.7	U 2.4	48 (4)	100 (39)	0.00043	B 1200 (252)
VERNITA-4	09/19/96	U 4.5	L 41 (11)	U 2.6	27 (13)	L 0.29 0	U 15	20000 (3600)	U 0.31	790 (142)	U 5	BL 3.3 (1)	U 8.7	U 2.4	43 (4)	110 (43)	0.000337	B 1900 (399)
VERNITA-1	12/06/96	U 4.5	L 47 (13)	L 2.9 (2)	32 (15)	U 0.2	U 15	19000 (3420)	U 0.31	730 (131)	U 5	U 1.8	U 8.7		B 40 (4)	120 (47)		BL 450 (95)
VERNITA-2	12/06/96	U 4.5	L 85 (23)	U 2.6	30 (14)	L 0.26 0	U 15	19000 (3420)	U 0.31	750 (135)	U 5	U 1.8	U 8.7		B 37 (3)	110 (43)		B 1600 (336)
VERNITA-3	12/06/96	U 4.5	120 (32)	U 2.6	30 (14)	L 0.48 0	U 15	20000 (3600)	U 0.31	750 (135)	U 5	U 1.8	U 8.7		B 39 (4)	100 (39)		B 1500 (315)
VERNITA-4	12/06/96	U 4.5	110 (30)	U 2.6	30 (14)	L 0.56 0	U 15	20000 (3600)	U 0.31	830 (149)	U 5	U 1.8	U 8.7		B 34 (3)	110 (43)		B 1900 (399)

Water.19

() - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-4. Data for Anions and Total Recoverable Metals, Columbia River Transects Water, 1996 (contd)

Location	Sample Date	Mg	Mn	Na	Ni	NO ₃ ⁻	NO ₂ ⁻	Pb	PO ₄ ⁻³	Sb	Se	Sn	Sr	SO ₄ ⁻²	Tl	V	Zn	
									µg/L									
VERNITA-2	09/19/96	4600 (966)	B 6.4 (1)	2100 (567)	BL 10 (2)	330 (69)	U 11	U 1.7	U 83	1999	45.4	U 3.8	L 24 (22)	96	8800 (3170)	U 3.7	L 2.1 (1)	U 7.7
VERNITA-3	09/19/96	4700 (987)	B 6.7 (1)	2200 (594)	BL 11 (3)	340 (71)	U 11	7.5 (2)	U 83	1999	45.4	U 3.8	U 17	97	9000 (3240)	U 3.7	U 1.7	U 7.7
VERNITA-4	09/19/96	4800 (1010)	B 7.2 (1)	2400 (648)	BL 8.9 (2)	370 (78)	U 11	U 1.7	U 83	1999	45.4	U 3.8	U 17	100	9100 (3280)	U 3.7	L 4.3 (3)	11 (4)
VERNITA-1	12/06/96	4500 (945)	L 3.7 (1)	1900 (513)	U 7.4	590 (124)	L 21 (11)	U 1.7	U 83	U	43	U 3.8	U 17	B 97	D 9400 (3380)	U 3.7	U 1.7	U 7.7
VERNITA-2	12/06/96	4600 (966)	L 3.4 (1)	1900 (513)	U 7.4	610 (128)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 94	8800 (3170)	U 3.7	BL 2.1 (1)	U 7.7
VERNITA-3	12/06/96	4700 (987)	L 3.8 (1)	2000 (540)	U 7.4	620 (130)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 95	9000 (3240)	U 3.7	BL 3.2 (2)	U 7.7
VERNITA-4	12/06/96	4800 (1010)	L 3.7 (1)	2100 (567)	U 7.4	640 (134)	U 11	U 1.7	U 83	U	43	U 3.8	U 17	B 95	9100 (3280)	U 3.7	BL 5.1 (3)	L 8.2 (3)

Water.20

{ } - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table W-5. Data for Anions and Total Recoverable Metals, Columbia Riverbank Springs, 1996

Location	Sample Date	Ag	Al	As	Ba	Be	Br ⁻	Ca	Cd	Cl ⁻	Co
µg/L											
100 N SPRING 8-13	11/04/96	U 4.50E+00	B 4.00E+02 {1.08E+02}	L 3.60E+00 {2.38E+00}	3.90E+01 {1.87E+01}	U 2.00E-01	L 2.10E+01 {2.52E+00}	2.80E+04 {5.04E+03}	U 3.10E-01	3.60E+03 {6.48E+02}	U 5.00E+00
100-B SPRING	11/04/96	U 4.50E+00	B 1.80E+02 {4.86E+01}	U 2.60E+00	6.40E+01 {3.07E+01}	U 2.00E-01	L 6.20E+01 {7.44E+00}	4.50E+04 {8.10E+03}	7.20E-01 {2.38E-01}	7.00E+03 {1.26E+03}	U 5.00E+00
100-D SPRING	11/04/96	U 4.50E+00	B 1.80E+02 {4.86E+01}	U 2.60E+00	6.10E+01 {2.93E+01}	U 2.00E-01	L 3.90E+01 {4.68E+00}	2.80E+04 {5.04E+03}	U 3.10E-01	4.60E+03 {8.28E+02}	U 5.00E+00
100-F SPRING	11/11/96	U 4.50E+00	B 2.00E+04 {5.40E+03}	1.80E+01 {1.19E+01}	B 2.70E+02 {1.30E+02}	L 1.10E+00 {1.98E-01}	L 9.00E+01 {1.08E+01}	7.30E+04 {1.31E+04}	4.80E+00 {1.58E+00}	D 9.30E+03 {1.67E+03}	L 2.00E+01 {5.40E+00}
HANFORD SPRING 28-2	11/11/96	U 4.50E+00	B 9.40E+02 {2.54E+02}	L 4.40E+00 {2.90E+00}	B 5.30E+01 {2.54E+01}	L 2.70E-01 {4.86E-02}	U 1.50E+01	2.60E+04 {4.68E+03}	U 3.10E-01	4.10E+03 {7.38E+02}	U 5.00E+00
300 AREA SPRING 42-2	11/21/96	U 4.50E+00	B 3.10E+03 {8.37E+02}	nra	1.20E+02 {5.76E+01}	L 2.30E-01 {4.14E-02}	L 9.90E+01 {1.19E+01}	3.00E+04 {5.40E+03}	nra	4.80E+03 {8.64E+02}	L 8.30E+00 {2.24E+00}

{ } - Total Propagated Analytical Uncertainty.

nra - Not routine analyzed.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

D - Analyte identified in an analysis at secondary dilution factor.

Table W-5. Data for Anions and Total Recoverable Metals, Columbia Riverbank Springs, 1996 (contd)

Location	Sample Date	Cr	CR+6	Cu	Fe	F ⁻	K	Mg	Mn	Na	Ni	NO ₃ ⁻
µg/L												
100 N SPRING 8-13	11/04/96	L 4.20E+00 {1.76E+00}	1.05E+01	U 8.70E+00	B 3.90E+02 {3.51E+01}	1.60E+02 {6.24E+01}	3.00E+03 {6.30E+02}	6.90E+03 {1.45E+03}	6.30E+01 {9.45E+00}	5.10E+03 {1.38E+03}	U 7.40E+00	D 1.00E+04 {2.10E+03}
100-B SPRING	11/04/96	2.10E+01 {8.82E+00}	1.98E+01	U 8.70E+00	B 2.00E+02 {1.80E+01}	2.00E+02 {7.80E+01}	3.90E+03 {8.19E+02}	7.00E+03 {1.47E+03}	1.60E+01 {2.40E+00}	9.40E+03 {2.54E+03}	L 8.10E+00 {1.94E+00}	D 1.10E+04 {2.31E+03}
100-D SPRING	11/04/96	6.30E+01 {2.65E+01}	1.37E+02	U 8.70E+00	B 1.60E+02 {1.44E+01}	1.20E+02 {4.68E+01}	1.90E+03 {3.99E+02}	5.90E+03 {1.24E+03}	2.70E+01 {4.05E+00}	3.70E+03 {9.99E+02}	U 7.40E+00	8.00E+03 {1.68E+03}
100-F SPRING	11/11/96	9.90E+01 {4.16E+01}	6.59E+01	8.50E+01 {3.57E+01}	2.10E+04 {1.89E+03}	2.90E+02 {1.13E+02}	8.00E+03 {1.68E+03}	1.80E+04 {3.78E+03}	4.70E+02 {7.05E+01}	1.70E+04 {4.59E+03}	3.10E+01 {7.44E+00}	D 3.30E+04 {6.93E+03}
HANFORD SPRING 28-2	11/11/96	L 2.50E+00 {1.05E+00}	2.53E+00	U 8.70E+00	1.60E+03 {1.44E+02}	2.80E+02 {1.09E+02}	2.30E+03 {4.83E+02}	7.40E+03 {1.55E+03}	7.90E+01 {1.19E+01}	9.60E+03 {2.59E+03}	U 7.40E+00	D 1.10E+04 {2.31E+03}
300 AREA SPRING 42-2	11/21/96	L 6.40E+00 {2.69E+00}	1.50E+00 {0.00E+00}	L 1.40E+01 {5.88E+00}	B 4.70E+03 {4.23E+02}	2.10E+02 {8.19E+01}	B 1.90E+03 {3.99E+02}	7.30E+03 {1.53E+03}	2.20E+02 {3.30E+01}	8.10E+03 {2.19E+03}	U 7.40E+00	6.60E+03 {1.39E+03}

{ } - Total Propagated Analytical Uncertainty.

nra - Not routine analyzed.

U - Analyzed but not detected, represented by

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

D - Analyte identified in an analysis at secondary dilution factor.

Water.23

{ } - Total Propagated Analytical Uncertainty.
nra - Not routine analyzed.
U - Analyzed but not detected, represented by
L - Below CRQL but above or at MDL.
B - Analyte found in related blank as well as sample.
D - Analyte identified in an analysis at secondary dilution factor.

Drinking Water

2189 100 B AREA-RIVER (DRINKING , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	SR-90 PCI/L	LO TRITIUM PCI/L
02/13/1996		2.460E-01 (4.370E-01)	7.690E-01 (1.500E+00)	9.340E-02 (4.080E-02)	7.570E+01 (1.180E+01)
05/06/1996		1.190E-01 (3.270E-01)	< -1.120E-01 (1.430E+00)	8.370E-02 (5.520E-02)	4.480E+01 (1.020E+01)
07/30/1996		< -1.730E-01 (2.190E-01)	2.310E+00 (1.660E+00)	1.180E-01 (4.790E-02)	1.090E+02 (1.510E+01)
10/22/1996		2.860E-01 (4.500E-01)	1.940E+00 (1.490E+00)	1.050E-01 (4.460E-02)	1.150E+02 (1.510E+01)
MEAN		1.195E-01	1.227E+00	1.000E-01	8.613E+01
MINIMUM		< -1.730E-01	< -1.120E-01	8.370E-02	4.480E+01
MAXIMUM		2.860E-01	2.310E+00	1.180E-01	1.150E+02
2STD. ERR		2.076E-01	1.108E+00	1.481E-02	3.252E+01

2190 100 D AREA (DRINKING , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	SR-90 PCI/L	TRITIUM PCI/L
02/23/1996		2.540E-01 (4.350E-01)	< -2.630E-01 (1.220E+00)	7.740E-02 (3.600E-02)	9.970E+01 (1.390E+02)
05/06/1996		< -1.470E-02 (2.380E-01)	1.680E+00 (1.630E+00)	8.900E-02 (5.160E-02)	2.560E+00 (1.330E+02)
07/30/1996		3.190E-01 (4.260E-01)	1.590E+00 (1.520E+00)	4.530E-02 (3.810E-02)	1.210E+02 (1.350E+02)
10/22/1996		2.390E-01 (4.090E-01)	8.830E-01 (1.360E+00)	1.140E-01 (4.020E-02)	1.050E+02 (1.480E+02)
MEAN		1.993E-01	9.725E-01	8.143E-02	8.207E+01
MINIMUM		< -1.470E-02	< -2.630E-01	4.530E-02	2.560E+00
MAXIMUM		3.190E-01	1.680E+00	1.140E-01	1.210E+02
2STD. ERR		1.468E-01	8.975E-01	2.852E-02	5.377E+01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2194 FFTF (DRINKING , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	SR-90 PCI/L	TRITIUM PCI/L	I-129 PCI/L
02/13/1996		< -1.850E-01 { 2.960E-01}	5.090E+00 { 1.900E+00}	< -3.650E-03 { 2.380E-02}	5.880E+03 { 5.320E+02}	nra
05/06/1996	1	6.700E-02 { 5.090E-01}	3.490E+00 { 1.960E+00}	1.990E-02 { 6.350E-02}	5.590E+03 { 5.100E+02}	nra
07/30/1996		2.360E-01 { 6.980E-01}	6.410E+00 { 2.160E+00}	2.600E-02 { 6.050E-02}	5.820E+03 { 5.230E+02}	1.096E-02 { 9.204E-04}
10/22/1996		< -1.360E-01 { 3.630E-01}	7.740E+00 { 2.240E+00}	7.690E-01 { 1.600E-01}	5.480E+03 { 5.110E+02}	nra
MEAN		-4.500E-03	5.683E+00	2.028E-01	5.693E+03	1.096E-02
MINIMUM		< -1.850E-01	3.490E+00	< -3.650E-03	5.480E+03	1.096E-02
MAXIMUM		2.360E-01	7.740E+00	7.690E-01	5.880E+03	1.096E-02
2STD. ERR		1.939E-01	1.818E+00	3.777E-01	1.889E+02	.000E+00

2198 FIRING RANGE (DRINKING , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	SR-90 PCI/L	TRITIUM PCI/L
02/13/1996		5.220E-01 { 5.950E-01}	4.180E+00 { 1.780E+00}	< -4.200E-03 { 2.840E-02}	5.890E+01 { 1.370E+02}
05/06/1996		4.700E-01 { 5.400E-01}	3.200E+00 { 1.810E+00}	4.570E-03 { 2.690E-02}	< -8.290E+01 { 1.290E+02}
07/31/1996		7.860E-01 { 7.000E-01}	3.330E+00 { 1.750E+00}	1.110E-02 { 2.940E-02}	3.990E+01 { 1.310E+02}
10/21/1996		1.430E+00 { 1.030E+00}	4.330E+00 { 1.870E+00}	< -7.020E-03 { 2.670E-02}	< -1.890E+01 { 1.430E+02}
MEAN		8.020E-01	3.760E+00	1.113E-03	-7.500E-01
MINIMUM		4.700E-01	3.200E+00	< -7.020E-03	< -8.290E+01
MAXIMUM		1.430E+00	4.330E+00	1.110E-02	5.890E+01
2STD. ERR		4.409E-01	5.773E-01	8.288E-03	6.400E+01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 SR-90 REFER TO INCIDENT REPORT 7/2/96, SR-90 SAMPLE HAD LOW CHEMICAL YIELD.

2191 YAKIMA BARRICADE (DRINKING , RAW GRAB , UNFILTERED)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	SR-90 PCI/L	TRITIUM PCI/L
02/13/1996		3.460E+00	4.970E+00	< -2.430E-03	< .000E+00
		{ 1.640E+00}	{ 1.960E+00}	{ 2.750E-02}	{ 1.330E+02}
05/06/1996	1	1.400E+00	5.160E+00	6.420E-02	5.630E+00
		{ 1.210E+00}	{ 2.070E+00}	{ 7.480E-02}	{ 1.340E+02}
07/30/1996		1.750E+00	5.590E+00	9.400E-03	2.920E+01
		{ 1.290E+00}	{ 2.110E+00}	{ 3.450E-02}	{ 1.300E+02}
10/22/1996		5.780E-01	7.410E+00	3.460E-03	< -5.170E+01
		{ 1.090E+00}	{ 2.230E+00}	{ 2.990E-02}	{ 1.400E+02}
MEAN		1.797E+00	5.783E+00	1.866E-02	-4.218E+00
MINIMUM		5.780E-01	4.970E+00	< -2.430E-03	< -5.170E+01
MAXIMUM		3.460E+00	7.410E+00	6.420E-02	2.920E+01
2STD. ERR		1.213E+00	1.116E+00	3.074E-02	3.409E+01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 { } - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 SR-90 REFER TO INCIDENT REPORT 7/2/96, SR-90 HAD LOW CHEMICAL YIELD.

2196 300 AREA (UNFILTERED , CUMULATIVE , DRINKING)

OFF DATE	COM	ALPHA PCI/L	BETA PCI/L	CO-60 PCI/L	CS-137 PCI/L	SR-90 PCI/L	TC-99 PCI/L	LO-TRITIUM PCI/L	U-234 PCI/L
03/27/1996		2.750E-01	2.180E+00	4.530E-01	< -4.000E-02	9.870E-02	8.100E-04	6.690E+01	2.280E-01
		(4.500E-01)	(1.490E+00)	(1.430E+00)	(1.110E+00)	(5.330E-02)	(5.360E-01)	(1.140E+01)	(5.140E-02)
06/19/1996		2.880E-01	6.640E-02	< -1.110E+00	< -3.750E-01	7.640E-02	7.300E-02	6.820E+01	2.930E-01
		(3.960E-01)	(1.400E+00)	(1.470E+00)	(1.100E+00)	(4.270E-02)	(5.190E-01)	(1.140E+01)	(6.280E-02)
10/09/1996		9.400E-01	3.230E+00	9.000E-01	< -4.890E-01	1.070E-01	5.050E-02	2.050E+02	5.310E-01
		(6.850E-01)	(1.690E+00)	(1.200E+00)	(1.030E+00)	(4.800E-02)	(5.290E-01)	(2.250E+01)	(9.300E-02)
01/06/1997		1.220E+00	2.480E+00	6.040E-01	< -5.310E-01	2.470E-01	3.360E-01	1.950E+02	4.930E-01
		(7.410E-01)	(1.580E+00)	(1.240E+00)	(1.070E+00)	(6.790E-02)	(5.500E-01)	(2.130E+01)	(1.520E-01)
MEAN		6.808E-01	1.989E+00	2.118E-01	-3.588E-01	1.323E-01	1.151E-01	1.338E+02	3.863E-01
MINIMUM		2.750E-01	6.640E-02	< -1.110E+00	< -5.310E-01	7.640E-02	8.100E-04	6.690E+01	2.280E-01
MAXIMUM		1.220E+00	3.230E+00	9.000E-01	< -4.000E-02	2.470E-01	3.360E-01	2.050E+02	5.310E-01
2STD. ERR		4.750E-01	1.356E+00	9.005E-01	2.225E-01	7.757E-02	1.503E-01	7.658E+01	1.484E-01

2196 300 AREA (UNFILTERED , CUMULATIVE , DRINKING)

OFF DATE	COM	U-235 PCI/L	U-238 PCI/L	UIISO_TOTAL PCI/L
03/27/1996		7.820E-03	2.300E-01	4.658E-01
		(1.160E-02)	(5.090E-02)	(7.326E-02)
06/19/1996		1.310E-02	2.550E-01	5.611E-01
		(1.260E-02)	(5.690E-02)	(8.568E-02)
10/09/1996		1.840E-02	5.500E-01	1.099E+00
		(1.480E-02)	(9.470E-02)	(1.336E-01)
01/06/1997		3.120E-02	4.480E-01	9.722E-01
		(3.830E-02)	(1.410E-01)	(2.108E-01)
MEAN		1.763E-02	3.708E-01	7.746E-01
MINIMUM		7.820E-03	2.300E-01	4.658E-01
MAXIMUM		3.120E-02	5.500E-01	1.099E+00
2STD. ERR		1.002E-02	1.542E-01	3.085E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

Thermoluminescent Dosimeters (TLDs)

2400 BASIN CITY SCHOOL

2389 BENTON CITY

2399 EDWIN MARKHAM SCHOOL

2382 KENNEWICK-ELY STREET

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/21/1996		2.080E-01 (.000E+00)	03/27/1996		2.050E-01 (3.000E-03)	03/21/1996		2.180E-01 (1.000E-02)	03/21/1996		2.160E-01 (7.000E-03)
06/26/1996		2.150E-01 (1.700E-02)	06/24/1996		1.920E-01 (1.000E-03)	06/26/1996		2.110E-01 (1.000E-03)	06/26/1996		2.010E-01 (8.000E-03)
09/19/1996		2.130E-01 (2.000E-03)	09/26/1996		2.420E-01 (1.500E-02)	09/19/1996		1.980E-01 (5.000E-03)	09/19/1996		2.000E-01 (2.000E-03)
12/12/1996		2.090E-01 (1.000E-03)	12/19/1996		2.170E-01 (4.000E-03)	12/12/1996		2.050E-01 (4.000E-03)	12/12/1996		2.110E-01 (7.000E-03)
MEAN		2.113E-01			2.140E-01			2.080E-01			2.070E-01
MINIMUM		2.080E-01			1.920E-01			1.980E-01			2.000E-01
MAXIMUM		2.150E-01			2.420E-01			2.180E-01			2.160E-01
2STD. ERR		3.304E-03			2.128E-02			8.524E-03			7.789E-03

2402 LESLIE GROVES-RCHLND

2413 MATTAWA

2792 OTHELLO

2381 PASCO

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/20/1996		2.210E-01 (1.000E-03)	03/20/1996		2.230E-01 (6.000E-03)	03/20/1996		2.210E-01 (3.000E-03)	03/21/1996		2.510E-01 (1.000E-03)
06/25/1996		2.160E-01 (8.000E-03)	06/25/1996		2.080E-01 (6.000E-03)	06/25/1996		2.100E-01 (1.000E-03)	06/26/1996		2.460E-01 (8.000E-03)
09/18/1996		2.150E-01 (3.000E-03)	09/18/1996		1.990E-01 (3.000E-03)	09/18/1996		2.100E-01 (1.200E-02)	09/19/1996		2.320E-01 (4.000E-03)
12/11/1996		2.130E-01 (2.000E-03)	12/11/1996		2.010E-01 (1.100E-02)	12/11/1996	1	NR	12/12/1996		2.460E-01 (1.000E-03)
MEAN		2.163E-01			2.078E-01			2.137E-01			2.438E-01
MINIMUM		2.130E-01			1.990E-01			2.100E-01			2.320E-01
MAXIMUM		2.210E-01			2.230E-01			2.210E-01			2.510E-01
2STD. ERR		3.403E-03			1.087E-02			7.333E-03			8.180E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
1 NO SAMPLE. TLD MISSING.

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2827 TOPPENISH

2388 YAKIMA

2383 100 D AREA

2384 100 K AREA

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/27/1996		2.050E-01	03/27/1996		2.090E-01	03/26/1996		2.610E-01	03/26/1996		2.070E-01
	{	3.000E-03}		{	1.500E-02}		{	.000E+00}		{	1.400E-02}
06/19/1996		1.970E-01	06/19/1996		1.990E-01	06/18/1996		2.320E-01	06/18/1996		1.950E-01
	{	5.000E-03}		{	1.800E-02}		{	8.000E-03}		{	2.000E-03}
09/26/1996		1.960E-01	09/26/1996		1.890E-01	09/24/1996		2.320E-01	09/24/1996		1.890E-01
	{	1.100E-02}		{	4.000E-03}		{	5.000E-03}		{	1.000E-03}
12/19/1996		1.880E-01	12/19/1996		1.840E-01	12/17/1996		2.370E-01	12/17/1996		1.980E-01
	{	2.000E-03}		{	2.000E-03}		{	4.000E-03}		{	.000E+00}
MEAN		1.965E-01			1.953E-01			2.405E-01			1.973E-01
MINIMUM		1.880E-01			1.840E-01			2.320E-01			1.890E-01
MAXIMUM		2.050E-01			2.090E-01			2.610E-01			2.070E-01
2STD. ERR		6.952E-03			1.109E-02			1.387E-02			7.500E-03

2394 200 ESE

2395 200 TEL. EXCHANGE

2396 200 W SE

2408 300 NE

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/19/1996		2.500E-01	03/19/1996		2.220E-01	03/19/1996		2.310E-01	03/27/1996		2.400E-01
	{	3.000E-03}		{	2.000E-03}		{	1.000E-03}		{	1.000E-03}
06/24/1996		2.420E-01	06/24/1996		2.170E-01	06/24/1996		2.160E-01	06/19/1996		2.260E-01
	{	1.000E-02}		{	1.000E-03}		{	2.000E-03}		{	.000E+00}
09/17/1996		2.360E-01	09/17/1996		2.160E-01	09/17/1996		2.260E-01	09/25/1996		2.300E-01
	{	3.000E-03}		{	8.000E-03}		{	4.000E-03}		{	4.000E-03}
12/10/1996		2.290E-01	12/10/1996		2.240E-01	12/10/1996		2.200E-01	12/18/1996		2.300E-01
	{	4.000E-03}		{	5.000E-03}		{	1.000E-02}		{	1.000E-03}
MEAN		2.393E-01			2.198E-01			2.233E-01			2.315E-01
MINIMUM		2.290E-01			2.160E-01			2.160E-01			2.260E-01
MAXIMUM		2.500E-01			2.240E-01			2.310E-01			2.400E-01
2STD. ERR		8.921E-03			3.862E-03			6.602E-03			5.972E-03

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

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2406 300 SOUTH GATE

2407 300 SOUTHWEST GATE

2403 300 TRENCH

2405 300 WATER INTAKE

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/27/1996		2.370E-01 (1.000E-03)	03/27/1996		2.240E-01 (8.000E-03)	03/27/1996		2.250E-01 (.000E+00)	03/27/1996		2.430E-01 (2.000E-03)
06/19/1996		2.130E-01 (6.000E-03)	06/19/1996		2.160E-01 (3.000E-03)	06/19/1996		2.240E-01 (1.600E-02)	06/19/1996		2.300E-01 (6.000E-03)
09/25/1996		2.070E-01 (1.000E-03)	09/25/1996		2.050E-01 (1.000E-03)	09/25/1996		2.170E-01 (3.000E-03)	09/25/1996		2.180E-01 (1.000E-03)
12/18/1996		2.160E-01 (6.000E-03)	12/18/1996		2.070E-01 (.000E+00)	12/18/1996		2.170E-01 (1.000E-03)	12/18/1996		2.290E-01 (4.000E-03)
MEAN		2.183E-01			2.130E-01			2.208E-01			2.300E-01
MINIMUM		2.070E-01			2.050E-01			2.170E-01			2.180E-01
MAXIMUM		2.370E-01			2.240E-01			2.250E-01			2.430E-01
2STD. ERR		1.305E-02			8.756E-03			4.349E-03			1.023E-02

2404 3705 BLDG. 300 AREA

2409 400 E

2410 400 N

2411 400 S

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/27/1996		2.260E-01 (4.000E-03)	03/26/1996		2.300E-01 (2.000E-03)	03/26/1996		2.250E-01 (.000E+00)	03/26/1996		2.430E-01 (4.000E-03)
06/19/1996		2.140E-01 (1.000E-03)	06/18/1996		2.150E-01 (1.000E-02)	06/18/1996		2.170E-01 (3.000E-03)	06/18/1996		2.220E-01 (1.300E-02)
09/25/1996		2.120E-01 (4.000E-03)	09/24/1996	1	NR	09/24/1996		2.190E-01 (1.000E-02)	09/24/1996		2.220E-01 (.000E+00)
12/18/1996		2.180E-01 (.000E+00)	12/17/1996		2.140E-01 (3.000E-03)	12/17/1996		2.290E-01 (1.600E-02)	12/17/1996		2.260E-01 (1.200E-02)
MEAN		2.175E-01			2.197E-01			2.225E-01			2.283E-01
MINIMUM		2.120E-01			2.140E-01			2.170E-01			2.220E-01
MAXIMUM		2.260E-01			2.300E-01			2.290E-01			2.430E-01
2STD. ERR		6.191E-03			1.035E-02			5.508E-03			1.001E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

1 NO SAMPLE. TLD MISSING DUE TO CONSTRUCTION IN AREA.

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2412 400 W

2393 B POND

2392 E OF 200 E

2391 N OF 200 E

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/26/1996		2.420E-01 { 4.000E-03}	03/19/1996		2.520E-01 { 2.000E-03}	03/19/1996		2.340E-01 { 9.000E-03}	03/19/1996		2.420E-01 { 2.000E-03}
06/18/1996		2.270E-01 { .000E+00}	06/24/1996		2.560E-01 { 3.000E-03}	06/24/1996		2.310E-01 { 4.000E-03}	06/24/1996		2.390E-01 { 1.000E-03}
09/24/1996		2.300E-01 { 4.000E-03}	09/17/1996		2.550E-01 { 2.000E-03}	09/17/1996		2.250E-01 { 2.000E-03}	09/17/1996		2.390E-01 { 5.000E-03}
12/17/1996		2.350E-01 { .000E+00}	12/10/1996		2.470E-01 { 4.000E-03}	12/10/1996		2.270E-01 { 9.000E-03}	12/10/1996		2.600E-01 { 5.000E-03}
MEAN		2.335E-01			2.525E-01			2.293E-01			2.450E-01
MINIMUM		2.270E-01			2.470E-01			2.250E-01			2.390E-01
MAXIMUM		2.420E-01			2.560E-01			2.340E-01			2.600E-01
2STD. ERR		6.557E-03			4.041E-03			4.031E-03			1.010E-02

2390 S OF 200 E

2375 US ECOLOGY NE CORNER

2377 US ECOLOGY NW CORNER

2376 US ECOLOGY SE CORNER

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/19/1996		2.580E-01 { 4.000E-03}	03/29/1996		2.360E-01 { 6.000E-03}	03/29/1996		2.280E-01 { .000E+00}	03/29/1996	2	2.560E-01 { 2.000E-03}
06/24/1996		2.510E-01 { 1.000E-03}	06/26/1996		2.320E-01 { 8.000E-03}	06/26/1996	1	2.500E-01 { 2.000E-03}	06/26/1996		2.440E-01 { 9.000E-03}
09/17/1996		2.490E-01 { 4.000E-03}	09/27/1996		2.300E-01 { 4.000E-03}	09/27/1996		2.350E-01 { 1.000E-03}	09/27/1996		2.690E-01 { 2.000E-03}
12/10/1996		2.520E-01 { 5.000E-03}	12/13/1996		2.270E-01 { 7.000E-03}	12/13/1996		2.290E-01 { 1.000E-03}	12/13/1996		2.360E-01 { 5.000E-03}
MEAN		2.525E-01			2.313E-01			2.355E-01			2.513E-01
MINIMUM		2.490E-01			2.270E-01			2.280E-01			2.360E-01
MAXIMUM		2.580E-01			2.360E-01			2.500E-01			2.690E-01
2STD. ERR		3.873E-03			3.775E-03			1.015E-02			1.441E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

1 TLD TLD COLLECTED ON 6/26/96 BUT MISPLACED AT LAB UNTIL 7/5/96. TLD RECEIVED 9 DAYS OF LAB BACKGROUND AND WAS ADDED TO THE NUMBER OF DAYS TLD WAS IN THE FIELD.

2 TLD MISSING FROM POST, LOCATED ON GROUND 20 FT FROM POST.

2378 US ECOLOGY SW CORNER			2379 WPPSS 1; S OF WNP 2			2398 BYERS LANDING			2397 RINGOLD MET TOWER		
OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/29/1996		3.580E-01 (8.000E-03)	03/29/1996		2.350E-01 (1.000E-03)	03/21/1996		2.540E-01 (.000E+00)	03/21/1996		2.400E-01 (2.000E-03)
06/26/1996		3.650E-01 (4.000E-03)	06/26/1996		2.300E-01 (7.000E-03)	06/26/1996		2.540E-01 (5.000E-03)	06/26/1996		2.420E-01 (3.000E-03)
09/27/1996		3.770E-01 (7.000E-03)	09/27/1996		2.310E-01 (4.000E-03)	09/19/1996		2.410E-01 (9.000E-03)	09/19/1996	1	2.480E-01 (2.000E-03)
12/13/1996		4.120E-01 (6.000E-03)	12/13/1996		2.420E-01 (6.000E-03)	12/12/1996		2.470E-01 (4.000E-03)	12/12/1996		2.440E-01 (1.000E-02)
MEAN		3.780E-01			2.345E-01			2.490E-01			2.435E-01
MINIMUM		3.580E-01			2.300E-01			2.410E-01			2.400E-01
MAXIMUM		4.120E-01			2.420E-01			2.540E-01			2.480E-01
2STD. ERR		2.399E-02			5.447E-03			6.272E-03			3.416E-03

2380 WPPSS 4; WPS WAREHSE			2374 WPPSS 8; FIR ROAD			2362 100 F FLOOD PLAIN			2346 100 N TRENCH SPRING		
OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/29/1996		2.080E-01 (7.000E-03)	03/21/1996		2.860E-01 (.000E+00)	03/29/1996	2	NR	03/28/1996		4.750E-01 (1.000E-02)
06/26/1996		1.980E-01 (3.000E-03)	06/26/1996		2.610E-01 (2.000E-03)	06/27/1996	3	1.610E-01 (3.000E-03)	06/27/1996	4	4.830E-01 (1.400E-02)
09/27/1996		2.000E-01 (5.000E-03)	09/19/1996		2.550E-01 (6.000E-03)	09/27/1996		2.070E-01 (5.000E-03)	09/26/1996		4.830E-01 (1.000E-03)
12/13/1996		2.110E-01 (1.900E-02)	12/12/1996		2.610E-01 (1.000E-03)	12/13/1996		2.410E-01 (1.000E-02)	01/03/1997		4.520E-01 (2.000E-03)
MEAN		2.043E-01			2.658E-01			2.030E-01			4.733E-01
MINIMUM		1.980E-01			2.550E-01			1.610E-01			4.520E-01
MAXIMUM		2.110E-01			2.860E-01			2.410E-01			4.830E-01
2STD. ERR		6.238E-03			1.379E-02			4.636E-02			1.466E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
1 TLD FOUND ON GROUND
2 NO SAMPLE. TLD MISSING DUE TO HIGH WATER.
3 HIGH WATER LEVEL PREVENTS TAKING GM READING.
4 HIGH WATER LEVEL PREVENTS TAKING GM READING.

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2368 100-D ISLAND

2365 ABOVE 100 B AREA

2364 ABOVE 1K BOAT RAMP

2345 ABOVE TIP 100N BERM

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/28/1996		2.240E-01 (2.000E-03)	03/28/1996		2.050E-01 (6.000E-03)	03/28/1996		2.290E-01 (3.000E-03)	03/28/1996		2.920E-01 (4.000E-03)
06/27/1996		2.120E-01 (1.300E-02)	06/27/1996	1	1.490E-01 (.000E+00)	06/27/1996		2.320E-01 (1.300E-02)	06/27/1996	2	2.850E-01 (1.300E-02)
09/26/1996		2.080E-01 (1.200E-02)	09/26/1996		2.050E-01 (2.000E-03)	09/26/1996		2.180E-01 (1.600E-02)	09/26/1996		3.060E-01 (1.000E-02)
01/03/1997		2.100E-01 (4.000E-03)	01/03/1997		2.410E-01 (3.000E-03)	01/03/1997		2.230E-01 (9.000E-03)	01/03/1997		3.120E-01 (1.800E-02)
MEAN		2.135E-01			2.000E-01			2.255E-01			2.988E-01
MINIMUM		2.080E-01			1.490E-01			2.180E-01			2.850E-01
MAXIMUM		2.240E-01			2.410E-01			2.320E-01			3.120E-01
2STD. ERR		7.188E-03			3.800E-02			6.245E-03			1.242E-02

2367 BELOW 100 D AREA

2373 BELOW 100 F

2366 BELOW 100B RET BASIN

2343 BELOW 100N OUTFALL

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/28/1996		2.210E-01 (2.000E-03)	03/28/1996		2.180E-01 (.000E+00)	03/28/1996		2.390E-01 (7.000E-03)	03/28/1996		3.420E-01 (2.000E-03)
06/27/1996		1.960E-01 (8.000E-03)	06/27/1996		1.780E-01 (7.000E-03)	06/27/1996	3	1.780E-01 (4.000E-03)	06/27/1996	5	2.900E-01 (2.000E-02)
09/27/1996		2.360E-01 (3.000E-03)	09/26/1996		2.090E-01 (3.000E-03)	09/26/1996		2.570E-01 (6.000E-03)	09/26/1996		3.560E-01 (4.000E-03)
01/03/1997		2.400E-01 (1.000E-03)	01/03/1997		2.150E-01 (1.200E-02)	01/03/1997	4	3.290E-01 (8.000E-03)	01/03/1997		3.650E-01 (7.000E-03)
MEAN		2.233E-01			2.050E-01			2.508E-01			3.383E-01
MINIMUM		1.960E-01			1.780E-01			1.780E-01			2.900E-01
MAXIMUM		2.400E-01			2.180E-01			3.290E-01			3.650E-01
2STD. ERR		1.992E-02			1.838E-02			6.216E-02			3.353E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
1 HIGH WATER LEVEL PREVENTS TAKING GM READING.
2 HIGH WATER LEVEL PREVENTS TAKING GM READING.
3 HIGH WATER LEVEL PREVENTS TAKING GM READING.
4 RAD. SURVEY READINGS TAKEN 10 FT. FROM TLD LOCATION DUE TO BAD FOOTING.
5 HIGH WATER LEVEL PREVENTS TAKING GM READING.

2344 BELOW 100N STACK

2369 BELOW OFF 100 D

2348 HANF POWERLINE XING

2349 HANFORD FERRY LND.

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/28/1996	1	NR	03/28/1996		2.240E-01 (4.000E-03)	04/04/1996		2.390E-01 (8.000E-03)	04/04/1996		1.910E-01 (5.000E-03)
06/27/1996		2.850E-01 (1.100E-02)	06/27/1996		2.320E-01 (2.000E-03)	06/28/1996		2.560E-01 (6.000E-03)	06/28/1996	3	NR
09/26/1996		3.120E-01 (3.000E-03)	09/26/1996		2.240E-01 (2.000E-03)	09/27/1996		2.500E-01 (3.000E-03)	09/27/1996	4	NR
01/03/1997		3.000E-01 (7.000E-03)	01/03/1997	2	2.200E-01 (4.000E-03)	01/03/1997		2.490E-01 (2.000E-03)	01/03/1997	5	NR
MEAN		2.990E-01			2.250E-01			2.485E-01			
MINIMUM		2.850E-01			2.200E-01			2.390E-01			
MAXIMUM		3.120E-01			2.320E-01			2.560E-01			
2STD. ERR		1.562E-02			5.033E-03			7.047E-03			

2350 HANFORD RR TRACK

2363 HANFORD SLOUGH

2361 ISL DS BATEMAN ISL

2359 ISLAND NEAR 300 AREA

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
04/04/1996		2.090E-01 (1.000E-02)	03/29/1996		2.310E-01 (3.000E-03)	04/04/1996		2.550E-01 (6.000E-03)	04/04/1996		2.030E-01 (7.000E-03)
06/28/1996		2.240E-01 (3.000E-03)	06/26/1996		2.040E-01 (8.000E-03)	06/28/1996	7	2.760E-01 (2.600E-02)	06/28/1996	9	1.610E-01 (2.000E-03)
09/27/1996	6	NR	09/27/1996		2.350E-01 (3.000E-03)	09/27/1996	8	NR	09/27/1996		2.210E-01 (3.000E-03)
01/03/1997		2.470E-01 (3.000E-03)	12/13/1996		2.620E-01 (2.100E-02)	01/03/1997		2.500E-01 (1.000E-03)	01/03/1997		2.400E-01 (5.000E-03)
MEAN		2.267E-01			2.330E-01			2.603E-01			2.063E-01
MINIMUM		2.090E-01			2.040E-01			2.500E-01			1.610E-01
MAXIMUM		2.470E-01			2.620E-01			2.760E-01			2.400E-01
2STD. ERR		2.210E-02			2.373E-02			1.593E-02			3.374E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

1 NO SAMPLE. TLD MISSING.

2 TLD P0190 ASSIGNED TO THIS LOCATION, BUT P0196 WAS PICKED UP FROM THIS LOCATION ON 1/3/97.

TLD REFER TO SAMPLE COMMENT. RESULT REPORTED FOR BOJT26 AND BOJT29 WERE SWITCHED ACCORDINGLY.

3 NO SAMPLE. TLD MISSING. HIGH WATER LEVEL PREVENTS TAKING GM READING.

4 NO SAMPLE. TLD MISSING.

5 NO SAMPLE. TLD MISSING.

6 NO SAMPLE. TLD MISSING.

7 TIN FOIL WRAPPED AROUND TLD WAS MISSING.

8 NO SAMPLE. TLD MISSING.

9 HIGH WATER LEVEL PREVENTS TAKING GM READING.

2358 ISLND ABOVE 300 AREA 2370 LO END LOCKE ISL 2354 N END WOODED ISLAND 2360 PORT OF BENTON-RIVER

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
04/04/1996		2.440E-01 (.000E+00)	03/28/1996		2.400E-01 (.000E+00)	04/04/1996		2.460E-01 (1.000E-03)	04/04/1996		2.100E-01 (1.000E-03)
06/28/1996		2.590E-01 (4.000E-03)	06/27/1996		2.300E-01 (1.200E-02)	06/28/1996		2.600E-01 (4.000E-03)	06/28/1996	1	2.860E-01 (4.400E-02)
09/27/1996		2.620E-01 (1.000E-03)	09/26/1996		2.230E-01 (9.000E-03)	09/27/1996		2.440E-01 (1.000E-03)	09/27/1996		2.120E-01 (4.000E-03)
01/03/1997		2.670E-01 (1.900E-02)	01/03/1997		2.470E-01 (1.000E-02)	01/03/1997		2.460E-01 (5.000E-03)	01/03/1997		2.340E-01 (4.000E-03)
MEAN		2.580E-01			2.350E-01			2.490E-01			2.355E-01
MINIMUM		2.440E-01			2.230E-01			2.440E-01			2.100E-01
MAXIMUM		2.670E-01			2.470E-01			2.600E-01			2.860E-01
2STD. ERR		9.899E-03			1.061E-02			7.394E-03			3.538E-02

2353 POWERLINE CROSSING 2352 RINGOLD ISLAND 2357 S END WOODED ISLAND 2351 SAVAGE ISL SLOUGH

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
04/04/1996	2	2.220E-01 (1.000E-03)	04/04/1996		2.240E-01 (.000E+00)	04/04/1996		2.370E-01 (6.000E-03)	04/04/1996		1.990E-01 (4.000E-03)
06/28/1996		2.110E-01 (7.000E-03)	06/28/1996		2.490E-01 (1.400E-02)	06/28/1996		2.480E-01 (5.000E-03)	06/28/1996	3	1.800E-01 (1.000E-02)
09/27/1996		2.270E-01 (1.000E-03)	09/27/1996		2.230E-01 (9.000E-03)	09/27/1996		2.090E-01 (3.000E-03)	09/27/1996		1.980E-01 (3.000E-03)
01/03/1997		2.210E-01 (.000E+00)	01/03/1997		2.230E-01 (7.000E-03)	01/03/1997		2.460E-01 (1.000E-02)	01/03/1997		2.110E-01 (9.000E-03)
MEAN		2.203E-01			2.298E-01			2.350E-01			1.970E-01
MINIMUM		2.110E-01			2.230E-01			2.090E-01			1.800E-01
MAXIMUM		2.270E-01			2.490E-01			2.480E-01			2.110E-01
2STD. ERR		6.702E-03			1.284E-02			1.798E-02			1.278E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

1 TLD FOUND ON GROUND.

TLD THE GLOW CURVES WERE ANALYZED BY LAB AND FOUND TO BE ABNORMAL. THE APPARENT EFFECT WAS FROM EXTREME HEAT.

2 TLD ON GROUND 5 FEET FROM POST.

3 HIGH WATER LEVEL PREVENTS TAKING GM READING.

2372 WHITE BLUFFS FY LND.

2371 WHITE BLUFFS SLOUGH

OFF DATE	COM	RESULT	OFF DATE	COM	RESULT
03/28/1996		2.190E-01	03/28/1996		2.150E-01
	{	8.000E-03}		{	5.000E-03}
06/26/1996		2.100E-01	06/26/1996		1.830E-01
	{	5.000E-03}		{	1.300E-02}
09/26/1996		2.300E-01	09/27/1996		2.420E-01
	{	1.500E-02}		{	1.500E-02}
01/03/1997	1	2.170E-01	01/03/1997		2.840E-01
	{	2.000E-03}		{	1.300E-02}
MEAN		2.190E-01			2.310E-01
MINIMUM		2.100E-01			1.830E-01
MAXIMUM		2.300E-01			2.840E-01
2STD. ERR		8.287E-03			4.278E-02

- < - Result less than the 2 sigma Total Propagated Analytical Uncertainty

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

1 TLD PO196 ASSIGNED TO THIS LOCATION, BUT PO190 WAS PICKED UP FROM THIS LOCATION ON 1/3/97.

TLD REFER TO SAMPLE COMMENT. RESULT REPORTED FOR B0JT26 AND B0JT29 WERE SWITCHED ACCORDINGLY.

Foodstuffs

2335 SAGEMOOR COMPOSITE (COW , Milk)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	SR-90 PCI/L
01/25/1996		2.000E+00 { 2.040E+01}	< -3.390E+00 { 3.070E+00}	7.080E-02 { 2.400E+00}	2.260E+00 { 2.820E+00}	1.560E+00 { 9.280E+00}	1.270E+03 { 1.810E+02}	1.050E+00 { 5.180E-01}
04/18/1996		< -1.280E+01 { 2.030E+01}	1.590E+00 { 2.830E+00}	1.450E+00 { 2.430E+00}	1.120E+00 { 2.520E+00}	8.220E-01 { 9.800E+00}	1.240E+03 { 1.780E+02}	4.620E-01 { 3.500E-01}
07/11/1996		< -5.000E+00 { 2.470E+01}	1.280E+00 { 3.840E+00}	2.610E+00 { 2.940E+00}	5.350E-01 { 3.310E+00}	< -7.340E+00 { 1.100E+01}	1.400E+03 { 1.990E+02}	4.850E-01 { 3.490E-01}
10/03/1996		2.030E+00 { 2.500E+01}	< -3.390E+00 { 3.470E+00}	1.370E+00 { 2.750E+00}	1.020E+00 { 2.880E+00}	< -1.680E+00 { 9.830E+00}	1.360E+03 { 1.880E+02}	4.880E-01 { 3.650E-01}
MEAN		-3.443E+00	-9.775E-01	1.375E+00	1.234E+00	-1.660E+00	1.318E+03	6.213E-01
MINIMUM		< -1.280E+01	< -3.390E+00	7.080E-02	5.350E-01	< -7.340E+00	1.240E+03	4.620E-01
MAXIMUM		2.030E+00	1.590E+00	2.610E+00	2.260E+00	1.560E+00	1.400E+03	1.050E+00
2STD. ERR		7.061E+00	2.789E+00	1.038E+00	7.303E-01	4.033E+00	7.500E+01	2.861E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2337 SAGEMOOR COMPOSITE (COW , Milk)

OFF DATE	COM	I-129 PCI/L
04/18/1996		3.850E-04 (6.622E-05)
10/03/1996		4.747E-04 (5.696E-05)

MEAN		4.299E-04
MINIMUM		3.850E-04
MAXIMUM		4.747E-04
2STD. ERR		8.970E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis

2340 SUNNYSIDE AREA (COW , Milk)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	SR-90 PCI/L
02/01/1996		< -2.610E+01 { 2.510E+01 }	9.760E-01 { 3.450E+00 }	< -4.110E+00 { 3.050E+00 }	9.280E-01 { 3.350E+00 }	2.650E+00 { 1.100E+01 }	1.190E+03 { 1.770E+02 }	5.090E-01 { 4.150E-01 }
04/25/1996		5.100E+00 { 2.160E+01 }	< -4.250E+00 { 3.410E+00 }	2.380E-01 { 2.460E+00 }	< -7.120E-01 { 2.390E+00 }	1.680E+00 { 9.060E+00 }	1.090E+03 { 1.670E+02 }	3.560E-01 { 4.070E-01 }
07/18/1996		1.980E+01 { 2.280E+01 }	6.760E-01 { 3.670E+00 }	< -2.000E+00 { 3.170E+00 }	< -1.370E+00 { 3.640E+00 }	< -2.040E-01 { 1.140E+01 }	1.120E+03 { 1.760E+02 }	3.220E-01 { 3.070E-01 }
10/10/1996		2.860E+01 { 2.070E+01 }	2.990E+00 { 3.000E+00 }	< -2.770E+00 { 2.820E+00 }	2.400E-01 { 2.790E+00 }	< -1.110E+01 { 1.060E+01 }	1.370E+03 { 1.760E+02 }	3.380E-01 { 3.190E-01 }
MEAN		6.850E+00	9.800E-02	-2.161E+00	-2.285E-01	-1.744E+00	1.193E+03	3.813E-01
MINIMUM		< -2.610E+01	< -4.250E+00	< -4.110E+00	< -1.370E+00	< -1.110E+01	1.090E+03	3.220E-01
MAXIMUM		2.860E+01	2.990E+00	2.380E-01	9.280E-01	2.650E+00	1.370E+03	5.090E-01
2STD. ERR		2.401E+01	3.075E+00	1.821E+00	1.016E+00	6.349E+00	1.255E+02	8.629E-02

2341 SUNNYSIDE AREA (COW , Milk)

OFF DATE	COM	I-129 PCI/L
04/25/1996		3.839E-04 { 5.682E-05 }
10/10/1996		1.718E-04 { 2.989E-05 }
MEAN		2.779E-04
MINIMUM		1.718E-04
MAXIMUM		3.839E-04
2STD. ERR		2.121E-04

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
{ } - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2338 WAHLUKE AREA COMP (COW , Milk)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	SR-90 PCI/L
01/03/1996		1.620E+01 (2.050E+01)	2.110E+00 (3.240E+00)	< -7.220E-01 (2.670E+00)	< -5.190E+00 (3.290E+00)	< -1.230E+01 (1.040E+01)	1.350E+03 (1.840E+02)	1.340E+00 (6.190E-01)
05/02/1996		< -2.300E+00 (2.100E+01)	2.210E+00 (2.700E+00)	< -5.010E-01 (2.520E+00)	1.750E+00 (2.540E+00)	1.680E+00 (9.050E+00)	1.200E+03 (1.700E+02)	8.900E-01 (4.710E-01)
07/25/1996		< -1.130E+00 (2.170E+01)	< -1.240E+00 (3.360E+00)	< -1.000E+00 (2.700E+00)	1.770E+00 (2.900E+00)	< -3.910E+00 (1.020E+01)	1.400E+03 (1.820E+02)	7.820E-01 (4.320E-01)
10/17/1996		6.350E+00 (2.190E+01)	< -8.120E-01 (3.220E+00)	< -1.280E+00 (2.550E+00)	1.760E-01 (2.950E+00)	< -5.500E-01 (9.090E+00)	1.550E+03 (1.920E+02)	4.780E-01 (6.600E-01)
MEAN		4.780E+00	5.670E-01	-8.758E-01	-3.735E-01	-3.770E+00	1.375E+03	8.725E-01
MINIMUM		< -2.300E+00	< -1.240E+00	< -1.280E+00	< -5.190E+00	< -1.230E+01	1.200E+03	4.780E-01
MAXIMUM		1.620E+01	2.210E+00	< -5.010E-01	1.770E+00	1.680E+00	1.550E+03	1.340E+00
2STD. ERR		8.523E+00	1.848E+00	3.381E-01	3.297E+00	6.133E+00	1.443E+02	3.572E-01

2339 WAHLUKE AREA COMP (COW , Milk)

OFF DATE	COM	I-129 PCI/L
05/02/1996		3.491E-04 (4.608E-05)
10/17/1996		3.046E-04 (4.447E-05)
MEAN		3.269E-04
MINIMUM		3.046E-04
MAXIMUM		3.491E-04
2STD. ERR		4.450E-05

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2468 EAST WAHLUKE AREA (LEAFY VEGETABLES , STM-LV)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
09/05/1996		< -2.250E-01 (1.980E-01)	1.330E-02 (3.120E-02)	3.150E-03 (2.430E-02)	< -2.590E-02 (2.600E-02)	3.100E-02 (9.580E-02)	4.640E+00 (1.050E+00)	1.200E-02 (4.400E-03)

2471 RIVERVIEW AREA (LEAFY VEGETABLES , STM-LV)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
08/09/1996		< -2.840E-02 (8.230E-02)	2.780E-03 (1.120E-02)	1.680E-03 (9.420E-03)	2.980E-03 (1.130E-02)	< -2.610E-02 (4.380E-02)	2.630E+00 (5.400E-01)	8.680E-03 (4.410E-03)

2470 SAGEMOOR AREA (LEAFY VEGETABLES , STM-LV)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
08/28/1996		3.270E-02 (7.040E-02)	< -4.050E-04 (1.080E-02)	8.530E-03 (8.900E-03)	< -2.980E-03 (1.020E-02)	1.100E-02 (2.810E-02)	1.880E+00 (3.750E-01)	< -5.300E-04 (1.970E-03)

2472 SUNNYSIDE AREA (LEAFY VEGETABLES , STM-LV)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
08/01/1996		5.220E-02 (8.130E-02)	3.410E-03 (7.660E-03)	6.030E-03 (7.820E-03)	< -3.410E-03 (8.990E-03)	2.270E-02 (3.010E-02)	2.630E+00 (4.450E-01)	6.410E-04 (2.200E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2651 HORN RAPIDS AREA (POTATO , Tuber)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
07/29/1996	1	NR	NR	NR	NR	NR	NR	NR

2650 RIVERVIEW AREA (POTATO , Tuber)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
08/09/1996		< -4.020E-02 (6.640E-02)	< -7.570E-03 (1.230E-02)	< -9.160E-03 (8.520E-03)	< -3.830E-03 (7.700E-03)	< -1.870E-02 (3.140E-02)	3.520E+00 (5.430E-01)	2.940E-03 (3.590E-03)

2653 SUNNYSIDE AREA (POTATO , Tuber)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
08/01/1996		3.740E-04 (4.670E-02)	< -1.100E-02 (8.910E-03)	< -3.700E-03 (6.080E-03)	2.650E-03 (6.080E-03)	6.880E-03 (1.870E-02)	4.230E+00 (5.310E-01)	< -4.620E-04 (3.420E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 NO SAMPLE. SAMPLE UNAVAILABLE.

3011 EAST WAHLUKE AREA (CHERRIES , Fruit)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
07/12/1996		3.770E-02 (5.150E-02)	2.500E-03 (8.050E-03)	< -6.900E-03 (6.970E-03)	1.110E-03 (6.880E-03)	< -1.350E-03 (2.550E-02)	2.630E+00 (3.940E-01)	1.350E-05 (2.170E-03)

3012 RIVERVIEW AREA (CHERRIES , Fruit)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
06/25/1996		< -1.570E-02 (5.390E-02)	< -6.470E-03 (9.410E-03)	1.410E-04 (6.160E-03)	1.040E-03 (7.430E-03)	< -4.500E-02 (3.020E-02)	1.810E+00 (3.210E-01)	< -2.320E-04 (1.820E-03)

2618 SAGEMOOR AREA (CHERRIES , Fruit)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
06/19/1996		1.480E-02 (5.110E-02)	< -7.460E-03 (8.180E-03)	< -4.210E-04 (5.900E-03)	7.080E-04 (7.090E-03)	2.310E-02 (2.080E-02)	2.380E+00 (4.060E-01)	< -7.850E-04 (2.130E-03)

2619 SUNNYSIDE AREA (CHERRIES , Fruit)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G	SR-90 PCI/G
06/19/1996		2.330E-03 (6.400E-02)	5.550E-03 (7.340E-03)	< -3.070E-03 (7.070E-03)	8.070E-04 (7.130E-03)	< -1.860E-02 (2.710E-02)	2.080E+00 (3.700E-01)	9.160E-05 (2.040E-03)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

2727 COLUMBIA BASIN (WINE , Red Wine)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	TRITIUM PCI/L
01/20/1997	1	2.270E+01 (2.660E+01)	2.480E+00 (2.890E+00)	< -1.110E+00 (2.590E+00)	3.500E-01 (2.840E+00)	< -6.240E+00 (1.030E+01)	1.460E+03 (1.860E+02)	2.820E+01 (1.170E+01)
	2	< -3.430E+00 (3.140E+01)	< -1.630E+00 (3.490E+00)	< -5.860E-02 (2.900E+00)	< -1.970E+00 (3.160E+00)	2.050E+00 (1.030E+01)	1.270E+03 (1.870E+02)	2.760E+01 (1.170E+01)
MEAN		9.635E+00	4.250E-01	-5.843E-01	-8.100E-01	-2.095E+00	1.365E+03	2.790E+01
MINIMUM		< -3.430E+00	< -1.630E+00	< -1.110E+00	< -1.970E+00	< -6.240E+00	1.270E+03	2.760E+01
MAXIMUM		2.270E+01	2.480E+00	< -5.860E-02	3.500E-01	2.050E+00	1.460E+03	2.820E+01
2STD. ERR		2.613E+01	4.110E+00	1.051E+00	2.320E+00	8.290E+00	1.900E+02	6.000E-01

2725 YAKIMA VALLEY (WINE , Red Wine)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	TRITIUM PCI/L
01/20/1997	3	< -2.780E+00 (4.340E+01)	2.990E+00 (3.350E+00)	< -1.200E+00 (2.930E+00)	7.200E-01 (2.940E+00)	4.830E+00 (1.110E+01)	1.690E+03 (2.100E+02)	1.890E+01 (7.880E+00)
	4	< -3.750E+01 (4.460E+01)	1.370E-01 (3.620E+00)	< -1.480E+00 (3.060E+00)	3.850E+00 (3.010E+00)	5.570E+00 (9.630E+00)	1.690E+03 (2.120E+02)	1.970E+01 (7.850E+00)
MEAN		-2.014E+01	1.564E+00	-1.340E+00	2.285E+00	5.200E+00	1.690E+03	1.930E+01
MINIMUM		< -3.750E+01	1.370E-01	< -1.480E+00	7.200E-01	4.830E+00	1.690E+03	1.890E+01
MAXIMUM		< -2.780E+00	2.990E+00	< -1.200E+00	3.850E+00	5.570E+00	1.690E+03	1.970E+01
2STD. ERR		3.472E+01	2.853E+00	2.800E-01	3.130E+00	7.400E-01	.000E+00	8.000E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 1996 GORDON BROTHERS VINEYARD (SNAKERIVER).

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

2 1996 GORDON BROTHERS VINEYARD (SNAKERIVER).

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

3 1996 SETH RYAN CABERNET FRANC, HOGUE VINEYARDS, PROSSER.

4 1996 SETH RYAN CABERNET FRANC, HOGUE VINEYARDS, PROSSER.

2728 COLUMBIA BASIN (WINE , White Wine)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	TRITIUM PCI/L
01/20/1997	1	1.200E+01	9.500E-01	< -3.370E+00	1.740E+00	3.210E-01	7.100E+02	5.020E+01
		{ 2.910E+01 }	{ 3.260E+00 }	{ 2.830E+00 }	{ 2.740E+00 }	{ 9.110E+00 }	{ 1.280E+02 }	{ 1.320E+01 }
	2	8.490E+00	1.880E+00	< -1.740E+00	1.710E+00	5.810E+00	4.950E+02	4.230E+01
		{ 3.530E+01 }	{ 4.000E+00 }	{ 3.780E+00 }	{ 3.790E+00 }	{ 1.190E+01 }	{ 1.680E+02 }	{ 1.260E+01 }
MEAN		1.025E+01	1.415E+00	-2.555E+00	1.725E+00	3.066E+00	6.025E+02	4.625E+01
MINIMUM		8.490E+00	9.500E-01	< -3.370E+00	1.710E+00	3.210E-01	4.950E+02	4.230E+01
MAXIMUM		1.200E+01	1.880E+00	< -1.740E+00	1.740E+00	5.810E+00	7.100E+02	5.020E+01
2STD. ERR		3.510E+00	9.300E-01	1.630E+00	3.000E-02	5.489E+00	2.150E+02	7.900E+00

2726 YAKIMA VALLEY (WINE , White Wine)

OFF DATE	COM	BE-7 PCI/L	CO-60 PCI/L	CS-134 PCI/L	CS-137 PCI/L	EU-154 PCI/L	K-40 PCI/L	TRITIUM PCI/L
01/20/1997	3	< -1.210E+01	4.400E+00	< -2.920E-02	4.830E-01	1.730E+00	4.380E+02	1.510E+01
		{ 3.100E+01 }	{ 3.050E+00 }	{ 2.830E+00 }	{ 3.190E+00 }	{ 8.460E+00 }	{ 1.290E+02 }	{ 1.090E+01 }
	4	1.800E+01	2.770E+00	< -4.250E+00	< -6.850E-02	1.500E-01	4.980E+02	2.200E+01
		{ 3.230E+01 }	{ 3.610E+00 }	{ 3.090E+00 }	{ 3.140E+00 }	{ 1.030E+01 }	{ 1.310E+02 }	{ 1.130E+01 }
MEAN		2.950E+00	3.585E+00	-2.140E+00	2.073E-01	9.400E-01	4.680E+02	1.855E+01
MINIMUM		< -1.210E+01	2.770E+00	< -4.250E+00	< -6.850E-02	1.500E-01	4.380E+02	1.510E+01
MAXIMUM		1.800E+01	4.400E+00	< -2.920E-02	4.830E-01	1.730E+00	4.980E+02	2.200E+01
2STD. ERR		3.010E+01	1.630E+00	4.221E+00	5.515E-01	1.580E+00	6.000E+01	6.900E+00

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 1996 SAGEMOOR, SAUVIGNON BLANC.

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

2 1996 SAGEMOOR, SAUVIGNON BLANC.

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

3 1996 CARPENTER RIESLING, 3 MILES N. OF GRANGER.

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

4 1996 CARPENTER RIESLING, 3 MILES N. OF GRANGER.

TRITIUM ANALYTICAL LAB USING NEW MORE SENSITIVE ANALYSIS METHOD FOR TRITIUM IN WINE.

Wildlife

2611 100 F SLOUGH (BASS , Carcass)

OFF DATE	COM	SR-90 PCI/G	U-234 PCI/G	U-235 PCI/G	U-238 PCI/G	UIISO_TOTAL PCI/G
05/20/1996		2.410E-02	8.930E-04	< -9.070E-05	< -6.150E-04	1.873E-04
		(7.920E-03)	(1.770E-03)	(6.760E-04)	(7.730E-04)	(2.046E-03)
		2.690E-02	6.500E-04	< -2.510E-04	9.620E-04	1.361E-03
		(8.180E-03)	(1.760E-03)	(8.720E-04)	(1.270E-03)	(2.339E-03)
		1.970E-02	1.140E-03	4.660E-04	1.180E-03	2.786E-03
		(6.500E-03)	(1.950E-03)	(1.040E-03)	(1.580E-03)	(2.717E-03)
		1.860E-02	1.840E-03	4.920E-04	< -1.330E-04	2.199E-03
		(6.470E-03)	(1.920E-03)	(9.850E-04)	(9.070E-04)	(2.341E-03)
		2.350E-02	1.660E-03	< -1.050E-04	1.000E-03	2.555E-03
		(9.350E-03)	(1.890E-03)	(5.500E-04)	(1.510E-03)	(2.481E-03)
MEAN		2.256E-02	1.237E-03	1.023E-04	4.788E-04	1.818E-03
MINIMUM		1.860E-02	6.500E-04	< -2.510E-04	< -6.150E-04	1.873E-04
MAXIMUM		2.690E-02	1.840E-03	4.920E-04	1.180E-03	2.786E-03
2STD. ERR		3.032E-03	4.505E-04	3.128E-04	7.166E-04	9.480E-04

2610 100 F SLOUGH (BASS , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
05/20/1996		2.740E-03	< -5.880E-03	6.260E-03	4.990E-03	1.250E-02	3.480E+00
		(1.000E-01)	(1.530E-02)	(1.150E-02)	(1.370E-02)	(3.640E-02)	(5.630E-01)
		< -3.190E-03	1.810E-02	< -4.360E-03	1.640E-02	< -1.340E-02	2.510E+00
		(1.080E-01)	(1.580E-02)	(1.300E-02)	(1.480E-02)	(4.890E-02)	(5.620E-01)
		7.590E-02	6.120E-03	< -2.100E-04	2.100E-02	< -1.110E-03	3.870E+00
		(1.120E-01)	(1.500E-02)	(1.420E-02)	(1.670E-02)	(4.520E-02)	(6.350E-01)
		2.330E-02	< -1.850E-03	< -2.460E-03	5.210E-03	1.000E-02	3.300E+00
		(9.940E-02)	(1.210E-02)	(1.240E-02)	(1.380E-02)	(4.340E-02)	(6.220E-01)
		4.840E-02	7.750E-03	< -1.780E-02	< -6.520E-04	< -5.310E-02	3.610E+00
		(9.990E-02)	(1.300E-02)	(1.460E-02)	(1.500E-02)	(4.790E-02)	(5.900E-01)
MEAN		2.943E-02	4.848E-03	-3.714E-03	9.390E-03	-9.022E-03	3.354E+00
MINIMUM		< -3.190E-03	< -5.880E-03	< -1.780E-02	< -6.520E-04	< -5.310E-02	2.510E+00
MAXIMUM		7.590E-02	1.810E-02	6.260E-03	2.100E-02	1.250E-02	3.870E+00
2STD. ERR		2.944E-02	8.314E-03	7.901E-03	8.020E-03	2.387E-02	4.611E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2622 100-N - 100-D (CARP , Carcass)

OFF DATE	COM	SR-90 PCI/G	U-234 PCI/G	U-235 PCI/G	U-238 PCI/G	UIISO_TOTAL PCI/G
10/28/1996		1.560E-02 (5.650E-03) 3.820E-02 (8.640E-03)	8.290E-04 (1.930E-03) 1.430E-02 (4.480E-03)	6.290E-04 (1.180E-03) 7.560E-04 (1.280E-03)	2.330E-04 (1.210E-03) 1.250E-02 (4.020E-03)	1.691E-03 (2.565E-03) 2.756E-02 (6.154E-03)
MEAN		2.690E-02	7.564E-03	6.925E-04	6.366E-03	1.462E-02
MINIMUM		1.560E-02	8.290E-04	6.290E-04	2.330E-04	1.691E-03
MAXIMUM		3.820E-02	1.430E-02	7.560E-04	1.250E-02	2.756E-02
2STD. ERR		2.260E-02	1.347E-02	1.270E-04	1.227E-02	2.586E-02

2621 100-N - 100-D (CARP , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
10/28/1996		< -2.810E-02 (4.840E-02) < -1.880E-02 (6.280E-02)	< -3.100E-03 (8.170E-03) 4.490E-03 (9.270E-03)	< -5.020E-04 (5.630E-03) 3.250E-04 (7.490E-03)	3.190E-03 (6.860E-03) 1.070E-02 (7.770E-03)	8.890E-03 (2.140E-02) 3.270E-02 (2.500E-02)	2.900E+00 (4.000E-01) 3.370E+00 (5.020E-01)
MEAN		-2.345E-02	6.950E-04	-8.850E-05	6.945E-03	2.079E-02	3.135E+00
MINIMUM		< -2.810E-02	< -3.100E-03	< -5.020E-04	3.190E-03	8.890E-03	2.900E+00
MAXIMUM		< -1.880E-02	4.490E-03	3.250E-04	1.070E-02	3.270E-02	3.370E+00
2STD. ERR		9.300E-03	7.590E-03	8.270E-04	7.510E-03	2.381E-02	4.700E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

3003 HANFORD SLOUGH (BASS , Carcass)

OFF DATE	COM	SR-90 PCI/G	U-234 PCI/G	U-235 PCI/G	U-238 PCI/G	UIISO_TOTAL PCI/G
06/14/1996		2.310E-02 { 7.050E-03}	< -2.610E-04 { 8.260E-04}	< -3.870E-05 { 3.960E-04}	< -3.990E-05 { 6.780E-04}	< -3.396E-04 { 1.140E-03}

3002 HANFORD SLOUGH (BASS , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
06/14/1996		< -6.710E-02 { 1.080E-01}	< -4.040E-04 { 1.540E-02}	3.840E-03 { 1.250E-02}	1.890E-02 { 1.320E-02}	< -1.760E-02 { 4.770E-02}	3.560E+00 { 5.960E-01}

< - Result less than the 2 sigma Total Propagated

Analytical Uncertainty

which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

3005 VANTAGE (BASS , Carcass)

OFF DATE	COM	SR-90 PCI/G	U-234 PCI/G	U-235 PCI/G	U-238 PCI/G	UIISO_TOTAL PCI/G
07/21/1996		1.800E-02 (5.350E-03) 1.750E-02 (5.470E-03)	2.300E-03 (1.930E-03) 1.310E-03 (1.660E-03)	2.680E-05 (7.250E-04) < -1.470E-04 (7.950E-04)	8.140E-04 (1.390E-03) 1.140E-03 (1.310E-03)	3.141E-03 (2.486E-03) 2.303E-03 (2.259E-03)
MEAN		1.775E-02	1.805E-03	-6.010E-05	9.770E-04	2.722E-03
MINIMUM		1.750E-02	1.310E-03	< -1.470E-04	8.140E-04	2.303E-03
MAXIMUM		1.800E-02	2.300E-03	2.680E-05	1.140E-03	3.141E-03
2STD. ERR		5.000E-04	9.900E-04	1.738E-04	3.260E-04	8.378E-04

3004 VANTAGE (BASS , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
07/21/1996		< -6.010E-02 (3.240E-01) 1.190E-01 (2.550E-01)	2.470E-02 (3.710E-02) < -1.460E-02 (3.050E-02)	< -6.650E-03 (3.440E-02) < -1.620E-03 (2.770E-02)	8.990E-03 (3.720E-02) 8.800E-04 (3.210E-02)	< -1.630E-01 (1.280E-01) 1.130E-02 (8.910E-02)	4.670E+00 (1.300E+00) 4.180E+00 (1.050E+00)
MEAN		2.945E-02	5.050E-03	-4.135E-03	4.935E-03	-7.585E-02	4.425E+00
MINIMUM		< -6.010E-02	< -1.460E-02	< -6.650E-03	8.800E-04	< -1.630E-01	4.180E+00
MAXIMUM		1.190E-01	2.470E-02	< -1.620E-03	8.990E-03	1.130E-02	4.670E+00
2STD. ERR		1.791E-01	3.930E-02	5.030E-03	8.110E-03	1.743E-01	4.900E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

2626 VANTAGE (CARP , Carcass)

OFF DATE	COM	SR-90 PCI/G	U-234 PCI/G	U-235 PCI/G	U-238 PCI/G	UIISO_TOTAL PCI/G
07/21/1996		3.060E-02 (8.210E-03) 3.510E-02 (8.090E-03)	8.370E-03 (3.850E-03) 2.650E-02 (6.060E-03)	4.140E-04 (1.180E-03) 1.180E-03 (1.370E-03)	5.830E-03 (3.090E-03) 2.300E-02 (5.460E-03)	1.461E-02 (5.076E-03) 5.068E-02 (8.271E-03)
MEAN		3.285E-02	1.743E-02	7.970E-04	1.442E-02	3.265E-02
MINIMUM		3.060E-02	8.370E-03	4.140E-04	5.830E-03	1.461E-02
MAXIMUM		3.510E-02	2.650E-02	1.180E-03	2.300E-02	5.068E-02
2STD. ERR		4.500E-03	1.813E-02	7.660E-04	1.717E-02	3.607E-02

2625 VANTAGE (CARP , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
07/21/1996		< -1.360E-02 (4.430E-02) 4.570E-02 (6.050E-02)	< -3.360E-03 (5.240E-03) < -2.570E-04 (8.250E-03)	1.530E-03 (4.500E-03) 1.280E-03 (6.450E-03)	< -3.300E-03 (6.330E-03) 5.730E-03 (7.300E-03)	6.770E-03 (2.070E-02) < -3.480E-03 (2.530E-02)	2.820E+00 (3.830E-01) 1.950E+00 (3.390E-01)
MEAN		1.605E-02	-1.809E-03	1.405E-03	1.215E-03	1.645E-03	2.385E+00
MINIMUM		< -1.360E-02	< -3.360E-03	1.280E-03	< -3.300E-03	< -3.480E-03	1.950E+00
MAXIMUM		4.570E-02	< -2.570E-04	1.530E-03	5.730E-03	6.770E-03	2.820E+00
2STD. ERR		5.930E-02	3.103E-03	2.500E-04	9.030E-03	1.025E-02	8.700E-01

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2712 100-D TO 100-H (PHEASANT , Bones)

OFF DATE	COM	SR-90 PCI/G
12/23/1996		6.990E-02 (3.160E-02)

2710 100-D TO 100-H (PHEASANT , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
12/23/1996		< -1.240E-01 (1.310E-01)	3.550E-03 (1.130E-02)	< -4.100E-03 (1.060E-02)	< -3.240E-03 (1.110E-02)	< -7.400E-03 (3.730E-02)	3.110E+00 (5.650E-01)

2715 100-H TO 100-F (PHEASANT , Bones)

OFF DATE	COM	SR-90 PCI/G
12/02/1996		7.520E-02 (3.310E-02)

2713 100-H TO 100-F (PHEASANT , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
12/02/1996		1.060E-02 (4.990E-02)	< -7.590E-04 (1.020E-02)	1.650E-03 (8.280E-03)	4.710E-03 (9.970E-03)	< -7.560E-03 (3.130E-02)	3.050E+00 (4.800E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2721 100 N AREA (MULE DEER , Bones)

		SR-90
OFF DATE	COM	PCI/G

11/11/1996		2.260E-01
		{ 6.370E-02}

2719 100 N AREA (MULE DEER , Muscle)

		BE-7	CO-60	CS-134	CS-137	EU-154	K-40
OFF DATE	COM	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G

11/11/1996		4.320E-02	3.340E-03	6.460E-03	6.410E-03	2.250E-02	2.790E+00
		{ 5.960E-02}	{ 7.620E-03}	{ 5.740E-03}	{ 7.940E-03}	{ 1.910E-02}	{ 4.050E-01}

2724 200 PONDS (MULE DEER , Bones)

		SR-90
OFF DATE	COM	PCI/G

11/08/1996		1.380E-01
		{ 5.380E-02}

2722 200 PONDS (MULE DEER , Muscle)

		BE-7	CO-60	CS-134	CS-137	EU-154	K-40
OFF DATE	COM	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G

11/08/1996		2.070E-02	< -6.150E-03	1.420E-02	< -3.140E-03	< -4.490E-04	2.860E+00
		{ 1.080E-01}	{ 1.130E-02}	{ 1.010E-02}	{ 1.070E-02}	{ 3.330E-02}	{ 5.060E-01}

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis

2821 BACKGROUND (MULE DEER , Bones)

OFF DATE	COM	SR-90 PCI/G
11/24/1996	1	9.420E-01 (1.990E-01)

2819 BACKGROUND (MULE DEER , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
11/24/1996	1	2.920E-02 (1.420E-01)	5.010E-03 (2.170E-02)	< -7.240E-03 (1.940E-02)	1.240E-01 (3.210E-02)	2.550E-02 (7.290E-02)	2.820E+00 (7.560E-01)

2734 NORTHEAST (MULE DEER , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
01/16/1996		< -6.140E-02 (6.730E-02)	< -3.650E-04 (9.060E-03)	< -1.040E-03 (7.220E-03)	5.100E-03 (7.010E-03)	< -1.230E-03 (2.530E-02)	2.540E+00 (4.080E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 BACKGROUND DEER COLLECTED AT VAIL PROVIDED BY DOH.

3038 NORTHWEST (MULE DEER , Bones)

OFF DATE	COM	SR-90 PCI/G
10/14/1996	1	1.620E+00 (2.970E-01)

3037 NORTHWEST (MULE DEER , Muscle)

OFF DATE	COM	BE-7 PCI/G	CO-60 PCI/G	CS-134 PCI/G	CS-137 PCI/G	EU-154 PCI/G	K-40 PCI/G
10/14/1996	1	2.580E-02 (4.720E-02)	3.260E-03 (6.940E-03)	4.000E-03 (5.070E-03)	4.990E-03 (6.470E-03)	2.600E-04 (2.290E-02)	2.780E+00 (4.150E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error
() - Total Propagated Analytical Uncertainty.
NR - No result reported.
nra - Not routinely analyzed or analyzed on a less frequent basis
1 EAR TAG 0001. SAMPLE WAS A ROADKILL BUT WILL BE ACCOUNTED FOR AS A 100 N AREA SAMPLE.

3036 SOUTHEAST ((MULE DEER , Bones)

		SR-90
OFF DATE	COM	PCI/G

09/10/1996		3.720E-01
		{ 8.440E-02}
12/03/1996		4.210E-01
		{ 9.600E-02}

MEAN		3.965E-01
MINIMUM		3.720E-01
MAXIMUM		4.210E-01
2STD. ERR		4.900E-02

2614 SOUTHEAST (MULE DEER , Muscle)

		BE-7	CO-60	CS-134	CS-137	EU-154	K-40
OFF DATE	COM	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G	PCI/G

09/10/1996		< -4.030E-02	< -6.200E-03	9.580E-03	6.160E-03	2.200E-02	2.700E+00
		{ 4.580E-02}	{ 7.360E-03}	{ 5.710E-03}	{ 6.430E-03}	{ 2.190E-02}	{ 3.820E-01}
12/03/1996		< -1.470E-02	< -2.410E-03	< -7.970E-03	6.240E-03	< -6.550E-04	2.760E+00
		{ 5.000E-02}	{ 6.770E-03}	{ 6.730E-03}	{ 5.710E-03}	{ 2.350E-02}	{ 3.930E-01}

MEAN		-2.750E-02	-4.305E-03	8.050E-04	6.200E-03	1.067E-02	2.730E+00
MINIMUM		< -4.030E-02	< -6.200E-03	< -7.970E-03	6.160E-03	< -6.550E-04	2.700E+00
MAXIMUM		< -1.470E-02	< -2.410E-03	9.580E-03	6.240E-03	2.200E-02	2.760E+00
2STD. ERR		2.560E-02	3.790E-03	1.755E-02	8.000E-05	2.265E-02	6.000E-02

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

Table W-1. Metals in Deer Liver Collected from the Hanford Site, 1996

Sample Number	Location ^(a)	Tissue	Ag	Cd	Cr	Cu	Fe	Hg	Ni	Zn
			µg/g (dry weight)							
Minimum Detectable Level			0.22	0.081	0.08	1.2	3	0.001	0.25	1.37
1004-34	Southern Region	Liver	U 0.22	1.75	0.324	125	698	0.045	0.990	127
1004-40	Northern Region	Liver	U 0.22	0.718	0.445	38.9	590	U 0.001	0.302	183
1004-41	Northern Region	Liver	U 0.22	0.674	0.340	62.7	277	0.004	0.564	145
1004-44	Northern Region	Liver	U 0.22	0.556	0.394	29.9	614	U 0.001	0.321	129
1004-45	Northern Region	Liver	U 0.22	0.237	0.431	23.9	309	U 0.001	U 0.25	157

U - Analyzed but not detected, represented by analytical detection limit.

(a) Tiller, B. L., G. E. Dagle, L. L. Cadwell, T. M. Poston, and A. Oganessian. 1997, Investigation of Anatomical Anomalies in Hanford Site Mule Deer. PNL-11518, Pacific Northwest National Laboratory, Richland, Washington.

Table W-2. Metals in Heron Liver Collected from the Hanford Reach, 1996

Sample Number	Location	Tissue	Cd	Cr	Cu	Hg	Ni	Pb	Se	Zn
			µg/g (dry weight)							
Minimum Detectable Level			0.081	0.08	1.2	0.001	0.25	0.08	1.31	1.37
1004-5	White Bluffs	Liver	0.146	0.675	60.2	3.30	0.548	U 0.08	5.88	480
1004-7	White Bluffs	Liver	U 0.081	0.494	11.8	1.06	U 0.25	U 0.08	3.74	118
1004-15	White Bluffs	Liver	0.155	0.376	24.2	3.39	0.258	U 0.08	5.08	177
1004-20	White Bluffs	Liver	U 0.081	0.444	10.8	1.88	U 0.25	U 0.08	6.89	376
1004-24	Savage Island	Liver	U 0.081	0.430	35.3	1.48	0.305	U 0.08	4.62	150
1004-25	Savage Island	Liver	0.184	0.462	63.6	1.04	0.546	U 0.08	5.30	198
1004-31	Nest # 33	Liver	U 0.081	0.445	15.4	1.70	U 0.25	0.086	6.94	177
1004-32	Nest # 37	Liver	U 0.081	0.524	25.4	0.463	U 0.25	U 0.08	4.07	164
1004-33	Sample # 1	Liver	U 0.081	0.526	158	4.17	1.44	U 0.08	6.19	161
1004-36	Hanford Townsite	Liver	0.353	0.489	79.1	3.81	0.739	U 0.08	6.16	344
1004-37	White Bluffs	Liver	U 0.081	0.529	143	2.72	1.26	U 0.08	7.55	272
1004-38	White Bluffs	Liver	U 0.081	0.443	84.9	1.86	0.816	U 0.08	6.69	213

U - Analyzed but not detected, represented by analytical detection limit.

Sediment

2669 100 F SLOUGH (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/20/1996	1	3.340E-02 (1.090E-02)	4.720E-01 (5.330E-02)	4.440E-02 (2.710E-02)	3.260E-02 (2.640E-02)	2.760E-04 (2.630E-04)	2.390E-03 (7.190E-04)	6.150E-03 (4.740E-03)	< .000E+00 (1.130E-01)

2669 100 F SLOUGH (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/20/1996	1	1.390E+00 (4.070E-01)

2672 100 N SPRING 8-13 (0 , 0)

OFF DATE	COM	CO-60	CS-137	EU-154	EU-155	SR-90	U_235_LEPS	U_238_LEPS
07/05/1996	2	NR	NR	NR	NR	NR	NR	NR

2822 100-B SPRING (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G	U_238_LEPS PCI/G
11/04/1996		1.030E-02 (1.150E-02)	2.370E-02 (1.320E-02)	< .000E+00 (3.560E-02)	7.410E-02 (3.570E-02)	2.670E-03 (3.260E-03)	1.010E-01 (7.970E-02)	1.250E+00 (3.790E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
 which includes the 2 sigma counting error and analytical error
 () - Total Propagated Analytical Uncertainty.
 NR - No result reported.
 nra - Not routinely analyzed or analyzed on a less frequent basis
 1 4 FT. DEPTH.
 2 NO SAMPLE. NO SEDIMENT AVAILABLE AT SPRING.

2834 100-F SPRING (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G	U_238_LEPS PCI/G
11/11/1996		3.980E-02 (2.050E-02)	3.240E-01 (4.030E-02)	3.010E-02 (3.700E-02)	5.510E-02 (3.140E-02)	9.650E-03 (9.960E-03)	1.650E-01 (7.560E-02)	1.420E+00 (5.380E-01)

2833 100-K SPRING (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G	U_238_LEPS PCI/G
07/05/1996	1	NR	NR	NR	NR	NR	NR	NR

2674 300 AREA SPRING 42-2 (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G	U_238_LEPS PCI/G
11/21/1996		4.780E-03 (1.150E-02)	1.500E-01 (2.560E-02)	4.430E-03 (3.230E-02)	4.500E-02 (3.160E-02)	7.340E-03 (1.080E-02)	7.270E-02 (7.090E-02)	1.220E+00 (4.760E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 NO SAMPLE. SPRING WAS NOT FLOWING, NO SEDIMENT COLLECTED.

2670 HANFORD SLOUGH (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/20/1996	1	2.720E-01 (4.600E-02)	5.930E-01 (6.770E-02)	1.480E-02 (5.170E-02)	8.320E-02 (4.480E-02)	1.490E-03 (5.000E-04)	7.580E-03 (1.380E-03)	1.630E-02 (9.000E-03)	1.600E-01 (1.460E-01)

2670 HANFORD SLOUGH (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/20/1996	1	1.690E+00 (6.610E-01)

2673 HANFORD SPRING 28-2 (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G	U_238_LEPS PCI/G
11/11/1996		5.860E-02 (1.610E-02)	1.690E-01 (2.350E-02)	9.210E-03 (3.250E-02)	6.820E-02 (3.380E-02)	7.920E-03 (4.950E-03)	2.540E-02 (7.660E-02)	1.320E+00 (3.600E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 18 FT. DEPTH. HIGHLY VEGETATED.

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2661 MCNARY-1/3 OR. SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/16/1996	1	3.300E-02 (2.070E-02)	4.700E-01 (5.720E-02)	3.900E-02 (5.070E-02)	7.530E-02 (4.270E-02)	1.170E-03 (7.040E-04)	9.700E-03 (2.480E-03)	2.240E-02 (6.770E-03)	< -8.830E-04 (1.860E-01)

2661 MCNARY-1/3 OR. SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/16/1996	1	9.680E-01 (7.490E-01)

2662 MCNARY-2/3 OR. SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/16/1996	2	6.290E-02 (2.110E-02)	4.360E-01 (5.810E-02)	< -1.230E-02 (5.380E-02)	2.700E-02 (4.470E-02)	1.090E-03 (7.360E-04)	8.320E-03 (2.280E-03)	2.850E-02 (8.010E-03)	< -1.930E-02 (1.380E-01)

2662 MCNARY-2/3 OR. SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/16/1996	2	1.890E+00 (7.860E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
- 2 PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

2660 MCNARY-OREGON SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/16/1996	1	8.080E-03 { 1.730E-02 }	2.840E-01 { 4.680E-02 }	< -2.640E-02 { 5.010E-02 }	8.980E-02 { 4.250E-02 }	5.170E-04 { 5.240E-04 }	6.680E-03 { 1.840E-03 }	2.410E-02 { 6.490E-03 }	1.220E-01 { 1.550E-01 }

2660 MCNARY-OREGON SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/16/1996	1	2.320E+00 { 8.110E-01 }

2663 MCNARY-WASH. SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/16/1996	2	6.930E-02 { 1.470E-02 }	5.360E-01 { 6.060E-02 }	3.430E-02 { 3.610E-02 }	5.360E-02 { 3.380E-02 }	1.390E-04 { 2.940E-04 }	7.750E-03 { 2.570E-03 }	4.770E-02 { 1.130E-02 }	4.500E-02 { 1.340E-01 }

2663 MCNARY-WASH. SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/16/1996	2	1.350E+00 { 9.860E-01 }

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

- 1 PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
- PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
- 2 PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.
- PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

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2665 PRD-1/3 GRANT SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/15/1996	1	< -8.520E-03 (9.800E-03)	1.700E-01 (2.370E-02)	< -3.400E-02 (3.070E-02)	1.090E-02 (2.810E-02)	2.440E-04 (2.510E-04)	3.120E-03 (9.260E-04)	5.330E-03 (2.760E-03)	9.850E-02 (1.140E-01)

2665 PRD-1/3 GRANT SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/15/1996	1	9.810E-01 (4.020E-01)

2666 PRD-2/3 GRANT SHORE (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/15/1996	2	< -1.940E-02 (1.190E-02)	4.110E-01 (5.090E-02)	2.180E-03 (4.220E-02)	4.640E-02 (3.740E-02)	2.540E-04 (4.710E-04)	7.790E-03 (2.250E-03)	1.150E-02 (4.200E-03)	< -2.480E-02 (1.370E-01)

2666 PRD-2/3 GRANT SHORE (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/15/1996	2	1.540E+00 (5.640E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 12 FT. DEPTH.

2 69 FT. DEPTH.

PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

2664 PRD-GRANT COUNTY (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/15/1996	1	1.800E-03 (1.380E-02)	2.960E-01 (4.340E-02)	1.700E-02 (4.100E-02)	6.270E-02 (3.900E-02)	1.150E-03 (6.140E-04)	6.950E-03 (1.690E-03)	1.940E-02 (5.800E-03)	< -2.310E-02 (1.430E-01)

2664 PRD-GRANT COUNTY (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/15/1996	1	9.850E-01 (5.310E-01)

2667 PRD-YAKIMA CNTY SHOR (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/15/1996	2	2.190E-03 (1.420E-02)	6.740E-01 (7.730E-02)	1.180E-03 (4.620E-02)	4.840E-02 (4.140E-02)	1.230E-03 (9.230E-04)	1.390E-02 (3.640E-03)	1.430E-02 (4.690E-03)	1.680E-01 (1.550E-01)

2667 PRD-YAKIMA CNTY SHOR (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/15/1996	2	7.670E-01 (8.460E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

() - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 25 FT. DEPTH.

PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

2 24 FT. DEPTH.

PU-238 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

PU-239/240 REFER TO 10/08/96 INCIDENT REPORT. SAMPLE HAD CHEMICAL YIELD LESS THAN 20 PERCENT.

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2671 RICHLAND-RIVER (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/20/1996		3.860E-02 (1.900E-02)	2.430E-01 (3.290E-02)	1.500E-02 (4.020E-02)	3.040E-02 (3.630E-02)	1.030E-03 (4.490E-04)	2.040E-03 (6.840E-04)	5.040E-03 (3.470E-03)	6.830E-02 (1.330E-01)

2671 RICHLAND-RIVER (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/20/1996		2.090E+00 (5.380E-01)

2668 WHITE BLUFFS SLOUGH (0 , 0)

OFF DATE	COM	CO-60 PCI/G	CS-137 PCI/G	EU-154 PCI/G	EU-155 PCI/G	PU-238 PCI/G	PU-239/240 PCI/G	SR-90 PCI/G	U_235_LEPS PCI/G
08/20/1996	1	1.980E-01 (3.120E-02)	4.600E-01 (5.330E-02)	< -3.670E-02 (3.640E-02)	6.470E-02 (3.380E-02)	3.630E-04 (2.270E-04)	4.920E-03 (9.700E-04)	1.030E-02 (5.720E-03)	1.370E-01 (1.390E-01)

2668 WHITE BLUFFS SLOUGH (0 , 0)

OFF DATE	COM	U_238_LEPS PCI/G
08/20/1996	1	1.870E+00 (5.160E-01)

< - Result less than the 2 sigma Total Propagated Analytical Uncertainty
which includes the 2 sigma counting error and analytical error

{ } - Total Propagated Analytical Uncertainty.

NR - No result reported.

nra - Not routinely analyzed or analyzed on a less frequent basis

1 10 FT. DEPTH.

Table S-1. Metals in Columbia River and Riverbank Springs Sediments, 1996

Location	Sample Date	Ag	Al	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe
µg/kg dry weight											
Columbia River Sediment											
PRD-GRANT COUNTY	08/15/96	U 5.20E+02	2.20E+06 (6.60E+05)	2.20E+04 (7.92E+03)	L 7.60E+01 (9.12E+00)	B 2.20E+06 (1.19E+06)	B 1.60E+03 (1.78E+03)	L 8.00E+02 (3.12E+02)	B 4.80E+03 (2.45E+03)	6.60E+03 (1.58E+03)	3.70E+06 (1.11E+06)
PRD-1/3 GRANT SHORE	08/15/96	U 5.20E+02	5.60E+06 (1.68E+06)	3.90E+04 (1.40E+04)	L 1.90E+02 (2.28E+01)	B 2.60E+06 (1.40E+06)	B 2.10E+03 (2.33E+03)	4.30E+03 (1.68E+03)	B 9.90E+03 (5.05E+03)	8.80E+03 (2.11E+03)	1.20E+07 (3.60E+06)
PRD-2/3 GRANT SHORE	08/15/96	U 5.20E+02	7.00E+06 (2.10E+06)	5.70E+04 (2.05E+04)	2.30E+02 (2.76E+01)	B 3.10E+06 (1.67E+06)	B 2.30E+03 (2.55E+03)	4.30E+03 (1.68E+03)	B 1.60E+04 (8.16E+03)	1.40E+04 (3.36E+03)	1.10E+07 (3.30E+06)
PRD-YAKIMA CNTY SHOR	08/15/96	U 5.20E+02	9.00E+06 (2.70E+06)	7.10E+04 (2.56E+04)	2.80E+02 (3.36E+01)	B 3.80E+06 (2.05E+06)	B 3.40E+03 (3.77E+03)	4.80E+03 (1.87E+03)	B 1.70E+04 (8.67E+03)	1.60E+04 (3.84E+03)	1.40E+07 (4.20E+06)
MCNARY-OREGON SHORE	08/16/96	U 5.20E+02	1.00E+07 (3.00E+06)	7.60E+04 (2.74E+04)	3.70E+02 (4.44E+01)	3.20E+06 (1.73E+06)	8.60E+02 (9.55E+02)	4.80E+03 (1.87E+03)	1.30E+04 (6.63E+03)	1.50E+04 (3.60E+03)	B 1.40E+07 (4.20E+06)
MCNARY-1/3 OR. SHORE	08/16/96	U 5.20E+02	8.30E+06 (2.49E+06)	6.20E+04 (2.23E+04)	2.90E+02 (3.48E+01)	2.70E+06 (1.46E+06)	1.00E+03 (1.11E+03)	3.70E+03 (1.44E+03)	1.20E+04 (6.12E+03)	1.20E+04 (2.88E+03)	B 1.20E+07 (3.60E+06)
MCNARY-2/3 OR. SHORE	08/16/96	U 5.20E+02	7.90E+06 (2.37E+06)	5.90E+04 (2.12E+04)	2.90E+02 (3.48E+01)	2.60E+06 (1.40E+06)	1.20E+03 (1.33E+03)	4.30E+03 (1.68E+03)	1.10E+04 (5.61E+03)	1.30E+04 (3.12E+03)	B 1.10E+07 (3.30E+06)
MCNARY-WASH. SHORE	08/16/96	U 5.20E+02	7.40E+06 (2.22E+06)	5.90E+04 (2.12E+04)	2.80E+02 (3.36E+01)	3.10E+06 (1.67E+06)	7.10E+02 (7.88E+02)	4.50E+03 (1.76E+03)	1.10E+04 (5.61E+03)	8.00E+03 (1.92E+03)	B 1.40E+07 (4.20E+06)
100 F SLOUGH	08/20/96	U 5.20E+02	5.10E+06 (1.53E+06)	4.90E+04 (1.76E+04)	2.20E+02 (2.64E+01)	4.30E+06 (2.32E+06)	7.30E+02 (8.10E+02)	(5.40E+03) (2.11E+03)	1.00E+04 (5.10E+03)	1.00E+04 (2.40E+03)	B 2.00E+07 (6.00E+06)
HANFORD SLOUGH	08/20/96	U 5.20E+02	5.80E+06 (1.74E+06)	4.20E+04 (1.51E+04)	L 1.90E+02 (2.28E+01)	2.70E+06 (1.46E+06)	3.40E+03 (3.77E+03)	4.40E+03 (1.72E+03)	1.40E+04 (7.14E+03)	1.50E+04 (3.60E+03)	B 9.70E+06 (2.91E+06)
RICHLAND-RIVER	08/20/96	U 5.20E+02	5.70E+06 (1.71E+06)	4.50E+04 (1.62E+04)	2.20E+02 (2.64E+01)	3.20E+06 (1.73E+06)	1.20E+03 (1.33E+03)	3.70E+03 (1.44E+03)	1.20E+04 (6.12E+03)	1.30E+04 (3.12E+03)	B 1.20E+07 (3.60E+06)
WHITE BLUFFS SLOUGH	08/20/96	U 5.20E+02	4.70E+06 (1.41E+06)	3.20E+04 (1.15E+04)	L 1.60E+02 (1.92E+01)	2.60E+06 (1.40E+06)	2.10E+03 (2.33E+03)	3.70E+03 (1.44E+03)	1.30E+04 (6.63E+03)	1.50E+04 (3.60E+03)	B 9.80E+06 (2.94E+06)

{ } - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Sediment.1

Table S-1. Metals in Columbia River and Riverbank Springs Sediments, 1996 (contd)

Location	Sample Date	K	Mg	Mn	Na	Ni	Sb	Sn	Sr	V	Zn
Columbia River Sediment											
PRD-GRANT COUNTY	08/15/96	3.00E+05 {8.10E+04}	1.20E+06 {6.12E+05}	7.80E+04 {3.28E+04}	1.20E+05 {2.52E+04}	4.70E+03 {1.27E+03}	L 3.30E+03 {6.93E+02}	BL 3.80E+03 {2.05E+03}	B 1.20E+04	1.00E+04 {5.40E+03}	B 1.10E+05 {3.30E+04}
PRD-1/3 GRANT SHORE	08/15/96	7.60E+05 {2.05E+05}	2.50E+06 {1.28E+06}	1.40E+05 {5.88E+04}	2.20E+05 {4.62E+04}	9.10E+03 {2.46E+03}	L 2.70E+03 {5.67E+02}	B 1.20E+04 {6.48E+03}	B 1.60E+04	3.40E+04 {1.84E+04}	B 1.70E+05 {5.10E+04}
PRD-2/3 GRANT SHORE	08/15/96	8.80E+05 {2.38E+05}	3.80E+06 {1.94E+06}	1.90E+05 {7.98E+04}	3.00E+05 {6.30E+04}	1.70E+04 {4.59E+03}	U 2.10E+03	B 1.10E+04 {5.94E+03}	B 2.30E+04	2.70E+04 {1.46E+04}	B 2.50E+05 {7.50E+04}
PRD-YAKIMA CNTY SHOR	08/15/96	1.20E+06 {3.24E+05}	4.00E+06 {2.04E+06}	2.10E+05 {8.82E+04}	3.80E+05 {7.98E+04}	1.60E+04 {4.32E+03}	U 2.10E+03	B 1.10E+04 {5.94E+03}	B 2.70E+04	3.60E+04 {1.94E+04}	B 2.30E+05 {6.90E+04}
MCNARY-OREGON SHORE	08/16/96	1.20E+06 {3.24E+05}	3.00E+06 {1.53E+06}	2.80E+05 {1.18E+05}	3.30E+05 {6.93E+04}	B 1.20E+04 {3.24E+03}	L 3.90E+03 {8.19E+02}	L 9.10E+03 {4.91E+03}	B 2.40E+04	3.10E+04 {1.67E+04}	B 8.50E+04 {2.55E+04}
MCNARY-1/3 OR. SHORE	08/16/96	1.00E+06 {2.70E+05}	2.70E+06 {1.38E+06}	2.90E+05 {1.22E+05}	3.00E+05 {6.30E+04}	B 1.10E+04 {2.97E+03}	U 2.10E+03	L 7.70E+03 {4.16E+03}	B 2.10E+04	2.50E+04 {1.35E+04}	B 1.10E+05 {3.30E+04}
MCNARY-2/3 OR. SHORE	08/16/96	8.90E+05 {2.40E+05}	2.60E+06 {1.33E+06}	2.60E+05 {1.09E+05}	2.60E+05 {5.46E+04}	1.00E+04 {2.70E+03}	L 4.10E+03 {8.61E+02}	1.00E+04 {5.40E+03}	B 2.00E+04	2.30E+04 {1.24E+04}	B 1.10E+05 {3.30E+04}
MCNARY-WASH. SHORE	08/16/96	1.10E+06 {2.97E+05}	3.20E+06 {1.63E+06}	2.40E+05 {1.01E+05}	3.10E+05 {6.51E+04}	B 1.10E+04 {2.97E+03}	L 7.20E+03 {1.51E+03}	1.10E+04 {5.94E+03}	B 2.10E+04	3.40E+04 {1.84E+04}	B 8.90E+04 {2.67E+04}
100 F SLOUGH	08/20/96	6.70E+05 {1.81E+05}	3.60E+06 {1.84E+06}	2.30E+05 {9.66E+04}	4.20E+05 {8.82E+04}	B 8.10E+03 {2.19E+03}	L 5.90E+03 {1.24E+03}	1.50E+04 {8.10E+03}	B 1.80E+04	5.90E+04 {3.19E+04}	B 1.10E+05 {3.30E+04}
HANFORD SLOUGH	08/20/96	7.50E+05 {2.03E+05}	2.50E+06 {1.28E+06}	1.10E+05 {4.62E+04}	2.50E+05 {5.25E+04}	B 1.30E+04 {3.51E+03}	L 2.80E+03 {5.88E+02}	L 8.00E+03 {4.32E+03}	B 2.00E+04	2.40E+04 {1.30E+04}	B 4.20E+05 {1.26E+05}
RICHLAND-RIVER	08/20/96	8.60E+05 {2.32E+05}	3.00E+06 {1.53E+06}	1.30E+05 {5.46E+04}	2.30E+05 {4.83E+04}	B 9.30E+03 {2.51E+03}	L 5.40E+03 {1.13E+03}	L 9.30E+03 {5.02E+03}	B 2.00E+04	3.00E+04 {1.62E+04}	B 1.90E+05 {5.70E+04}
WHITE BLUFFS SLOUGH	08/20/96	5.50E+05 {1.49E+05}	2.30E+06 {1.17E+06}	9.40E+04 {3.95E+04}	2.60E+05 {5.46E+04}	B 1.20E+04 {3.24E+03}	U 2.10E+03	L 7.90E+03 {4.27E+03}	B 1.70E+04	2.50E+04 {1.35E+04}	B 2.90E+05 {8.70E+04}

{ } - Total Propagated Analytical Uncertainty

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table S-1. Metals in Columbia River and Riverbank Springs Sediments, 1996 (contd)

Location	Sample Date	Ag	Al	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe
Riverbank Springs											
100-B SPRING	11/04/96	U 5.20E+02	3.30E+06 {9.90E+05}	2.90E+04 {1.04E+04}	L 1.20E+02 {1.44E+01}	B 2.00E+06 {1.08E+03}	1.10E+03 {1.22E+03}	2.30E+03 {8.97E+02}	2.30E+04 {1.17E+04}	5.90E+03 {1.42E+03}	B 5.60E+06 {1.68E+03}
100-F SPRING	11/11/96	U 5.20E+02	6.30E+06 {1.89E+03}	4.00E+04 {1.44E+04}	2.10E+02 {2.52E+01}	B 3.50E+06 {1.89E+03}	1.40E+03 {1.55E+03}	4.40E+03 {1.72E+03}	2.30E+04 {1.17E+04}	1.40E+04 {3.36E+03}	1.30E+07 {3.90E+03}
HANFORD SPRING 28-2	11/11/96	U 5.20E+02	5.20E+06 {1.56E+04}	6.50E+04 {2.34E+02}	2.10E+02 {2.52E+01}	B 3.20E+06 {1.73E+04}	1.10E+03 {1.22E+03}	4.70E+03 {1.83E+03}	1.20E+04 {6.12E+03}	9.50E+03 {2.28E+03}	1.40E+07 {4.20E+04}
300 AREA SPRING 42-2	11/21/96	U 5.20E+02	6.30E+06 {1.89E+03}	6.30E+04 {2.27E+04}	2.20E+02 {2.64E+01}	B 3.20E+06 {1.73E+03}	L 4.00E+02 {4.44E+02}	4.70E+03 {1.83E+03}	1.00E+04 {5.10E+03}	8.20E+03 {1.97E+03}	1.40E+07 {4.20E+03}

µg/kg dry weight

{ } - Total Propagated Analytical Uncertainty.

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Table S-1. Metals in Columbia River and Riverbank Springs Sediments, 1996 (contd)

Location	Sample Date	K	Mg	Mn	Na	Ni	Sb	Sn	Sr	V	Zn
Riverbank Springs											
100-B SPRING	11/04/96	6.10E+05 {1.65E+05}	1.60E+06 {8.16E+05}	7.50E+04 {3.15E+01}	1.60E+05 {3.36E+04}	7.00E+03 {1.89E+03}	U 2.10E+03	L 4.30E+03 {2.32E+03}	1.30E+04	1.20E+04 {6.48E+03}	4.90E+04 {1.47E+04}
100-F SPRING	11/11/96	9.00E+05 {2.43E+05}	3.20E+06 {1.63E+03}	1.50E+05 {8.30E+01}	2.50E+05 {5.25E+04}	9.90E+03 {2.67E+03}	U 2.10E+03	L 7.50E+03 {4.05E+03}	2.40E+04	3.20E+04 {1.73E+04}	1.50E+05 {4.50E+04}
HANFORD SPRING 28-2	11/11/96	5.50E+05 {1.49E+05}	2.90E+06 {1.48E+04}	4.40E+05 {1.85E+03}	2.00E+05 {4.20E+04}	1.00E+04 {2.70E+03}	U 2.10E+03	L 7.50E+03 {4.05E+03}	2.10E+04	4.00E+04 {2.16E+02}	1.00E+05 {3.00E+02}
300 AREA SPRING 42-2	11/21/96	9.30E+05 {2.51E+05}	3.30E+06 {1.63E+03}	2.20E+05 {9.24E+01}	B 2.40E+05 {5.04E+04}	8.80E+03 {2.38E+03}	1.00E+04 {2.10E+03}	L 6.60E+03 {3.56E+03}	2.60E+04	3.50E+04 {1.89E+04}	6.70E+04 {2.01E+04}

µg/kg dry weight

Sediment.4

{ } - Total Propagated Analytical Uncertainty

U - Analyzed but not detected, represented by analytical detection limit.

L - Below CRQL but above or at MDL.

B - Analyte found in related blank as well as sample.

BL - Combination of B and L qualifiers.

Dose Calculation Information

Table D-1. Distribution of Population in 80-km Radius of the 100-N Area by Grid Sector^(a)

Direction	Number of People						Totals
	0-8 km	8-16 km	16-32 km	32-48 km	48-64 km	64-80 km	
N	0	92	548	559	1497	8376	11072
NNE	0	35	563	691	20440	1784	23513
NE	0	7	829	1761	2111	451	5159
ENE	0	0	799	6161	1292	306	8558
E	0	0	573	1099	1409	677	3758
ESE	0	0	477	1596	892	571	3536
SE	0	0	47	2485	37108	10229	49869
SSE	0	0	0	22090	50126	5662	77878
S	0	0	269	4419	1613	166	6467
SSW	0	0	177	1602	14573	525	16877
SW	0	0	582	5382	18241	780	24985
WSW	0	0	672	1885	7608	18468	28633
W	0	76	622	1257	4249	91485	97689
WNW	0	123	536	637	876	4928	7100
NW	0	135	548	802	600	681	2766
NNW	0	130	548	683	979	5049	7389
Totals	0	598	7790	53109	163614	150138	375249

(a) Based on 1990 census data (Beck, et al. 1991, Hanford Area 1990 Population and 50-Year Projections (PNL-7803, Pacific Northwest Laboratory, Richland, Washington).

Table D-2. Distribution of Population in 80-km Radius of the 200 Areas by Grid Sector^(a)

Direction	Number of People						Totals
	0-8 km	8-16 km	16-32 km	32-48 km	48-64 km	64-80 km	
N	0	0	434	822	969	2418	4643
NNE	0	0	268	1030	5220	17567	24085
NE	0	0	393	6176	2658	1145	10372
ENE	0	0	423	1217	1652	664	3956
E	0	0	452	1373	1416	751	3992
ESE	0	0	289	1674	270	767	3000
SE	0	0	1141	35519	73156	4918	114734
SSE	0	0	2796	8309	2394	5891	19390
S	0	0	2842	1622	237	1144	5845
SSW	0	0	713	11983	503	738	13937
SW	0	0	1308	19589	1132	637	22666
WSW	0	0	1956	5406	16336	7525	31223
W	0	0	771	1295	6269	94203	102538
WNW	0	0	641	1087	1189	2375	5292
NW	0	0	548	738	784	809	2879
NNW	0	0	544	909	876	4979	7308
Totals	0	0	15519	98749	115061	146531	375860

(a) Based on 1990 census data (Beck, et al. 1991, Hanford Area 1990 Population and 50-Year Projections (PNL-7803, Pacific Northwest Laboratory, Richland, Washington).

Table D-3. Distribution of Population in 80-km Radius of the 300 Area by Grid Sector^(a)

Direction	Number of People										Totals
	0-1.6 km	1.6-3.2 km	3.2-4.8 km	4.8-6.4 km	6.4-8 km	8-16 km	16-32 km	32-48 km	48-64 km	64-80 km	
N	0	0	0	2	6	85	602	4203	2894	9998	17790
NNE	0	3	16	25	33	277	678	2242	2411	1218	6903
NE	1	11	18	25	33	277	827	1094	590	306	3182
ENE	2	11	18	25	33	277	754	741	480	535	2876
E	3	11	18	25	33	276	170	255	761	1001	2553
ESE	2	11	18	25	33	264	117	454	878	10548	12350
SE	2	11	18	25	33	277	15318	3337	1322	3257	23600
SSE	0	7	18	25	121	616	57047	4098	3779	4785	70496
S	0	0	3	198	2231	17726	12449	123	13473	10913	57116
SSW	0	0	0	0	297	3518	3788	288	651	1859	10401
SW	0	0	0	0	59	2364	2916	1619	311	763	8032
WSW	0	0	0	0	0	967	3238	5812	13516	713	24246
W	0	0	0	0	0	0	730	1669	16968	12843	32210
WNW	0	0	0	0	0	0	0	417	1703	2120	4240
NW	0	0	0	0	0	0	0	181	1279	1428	2888
NNW	0	0	0	0	0	0	0	273	1277	1153	2703
Totals	10	65	127	375	2912	26924	98634	26806	62293	63440	281586

Dose 2

(a) Based on 1990 census data (Beck, et al. 1991, Hanford Area 1990 Population and 50-Year Projections (PNL-7803, Pacific Northwest Laboratory, Richland, Washington).

Table D-4. Distribution of Population in 80-km Radius of the 400 Area by Grid Sector^(a)

Direction	Number of People						Totals
	0-8 km	8-16 km	16-32 km	32-48 km	48-64 km	64-80 km	
N	0	0	189	1234	1413	15906	18742
NNE	0	56	655	6078	2503	1803	11095
NE	0	177	680	1192	1083	321	3453
ENE	0	266	995	1148	841	399	3649
E	3	277	727	227	560	1006	2800
ESE	0	268	511	260	789	1210	3038
SE	0	1082	27517	18278	1627	2690	51194
SSE	0	6360	48564	11354	3280	9199	78757
S	0	2350	5382	1037	6254	11030	26053
SSW	0	1836	2822	504	263	1557	6982
SW	0	118	2632	6356	427	830	10363
WSW	0	0	1659	8677	17820	723	28879
W	0	0	175	3473	6265	16502	26415
WNW	0	0	0	930	1732	3125	5787
NW	0	0	0	636	1205	1235	3076
NNW	0	0	0	562	1214	1169	2945
Totals	3	12790	92508	61946	47276	68705	283228

(a) Based on 1990 census data (Beck, et al. 1991, Hanford Area 1990 Population and 50-Year Projection (PNL-7803, Pacific Northwest Laboratory, Richland, Washington).

Table D-5. Annual Average Dispersion Factor ($\bar{X}/Q'$) Around the 100 Areas during 1996 for a 10-Meter Release Height^(a)

Direction	$\bar{X}/Q'$									
	0.8 km	2.4 km	4.0 km	5.6 km	7.2 km	12 km	24 km	40 km	56 km	72 km
N	2.63E-06	5.17E-07	2.43E-07	1.49E-07	1.04E-07	5.05E-08	1.94E-08	9.68E-09	6.17E-09	4.42E-09
NNE	2.26E-06	4.58E-07	2.17E-07	1.34E-07	9.34E-08	4.57E-08	1.77E-08	8.91E-09	5.71E-09	4.10E-09
NE	3.21E-06	6.54E-07	3.10E-07	1.91E-07	1.34E-07	6.58E-08	2.56E-08	1.29E-08	8.29E-09	5.96E-09
ENE	5.40E-06	1.12E-06	5.35E-07	3.31E-07	2.32E-07	1.14E-07	4.47E-08	2.26E-08	1.45E-08	1.05E-08
E	7.51E-06	1.60E-06	7.66E-07	4.75E-07	3.34E-07	1.65E-07	6.45E-08	3.27E-08	2.10E-08	1.51E-08
ESE	6.20E-06	1.29E-06	6.18E-07	3.83E-07	2.69E-07	1.32E-07	5.17E-08	2.62E-08	1.68E-08	1.21E-08
SE	4.40E-06	9.24E-07	4.42E-07	2.74E-07	1.92E-07	9.52E-08	3.74E-08	1.90E-08	1.23E-08	8.84E-09
SSE	2.82E-06	5.79E-07	2.76E-07	1.71E-07	1.20E-07	5.94E-08	2.34E-08	1.19E-08	7.69E-09	5.56E-09
S	2.57E-06	5.17E-07	2.46E-07	1.52E-07	1.07E-07	5.26E-08	2.07E-08	1.05E-08	6.78E-09	4.89E-09
SSW	2.80E-06	5.65E-07	2.68E-07	1.66E-07	1.16E-07	5.73E-08	2.24E-08	1.14E-08	7.32E-09	5.28E-09
SW	3.41E-06	6.95E-07	3.31E-07	2.05E-07	1.44E-07	7.09E-08	2.78E-08	1.41E-08	9.09E-09	6.56E-09
WSW	3.85E-06	8.03E-07	3.84E-07	2.38E-07	1.67E-07	8.26E-08	3.24E-08	1.64E-08	1.06E-08	7.63E-09
W	5.31E-06	1.12E-06	5.35E-07	3.32E-07	2.33E-07	1.15E-07	4.50E-08	2.28E-08	1.47E-08	1.06E-08
WNW	4.48E-06	8.84E-07	4.16E-07	2.56E-07	1.79E-07	8.74E-08	3.38E-08	1.70E-08	1.09E-08	7.82E-09
NW	3.74E-06	7.08E-07	3.30E-07	2.02E-07	1.40E-07	6.79E-08	2.60E-08	1.30E-08	8.27E-09	5.92E-09
NNW	3.17E-06	6.05E-07	2.83E-07	1.73E-07	1.20E-07	5.80E-08	2.21E-08	1.10E-08	6.97E-09	4.97E-09

Dose 4

(a) Calculated from meteorological data collected at the 100-N Area Hanford Meteorology Tower.

Table D-6. Annual Average Dispersion Factor ($\bar{X}/Q'$) Around the 200 Areas during 1996 for a 89-Meter Release Height^(a)

Direction	$\bar{X}/Q'$									
	0.8 km	2.4 km	4.0 km	5.6 km	7.2 km	12 km	24 km	40 km	56 km	72 km
N	3.15E-08	2.77E-08	2.17E-08	1.69E-08	1.37E-08	8.40E-09	4.09E-09	2.34E-09	1.62E-09	1.22E-09
NNE	8.83E-08	4.27E-08	3.12E-08	2.36E-08	1.88E-08	1.13E-08	5.31E-09	2.98E-09	2.03E-09	1.52E-09
NE	7.84E-08	3.36E-08	2.41E-08	1.83E-08	1.46E-08	8.89E-09	4.30E-09	2.46E-09	1.70E-09	1.28E-09
ENE	6.16E-08	2.98E-08	2.19E-08	1.66E-08	1.32E-08	7.86E-09	3.71E-09	2.10E-09	1.44E-09	1.09E-09
E	8.17E-08	4.55E-08	3.53E-08	2.73E-08	2.19E-08	1.33E-08	6.33E-09	3.60E-09	2.48E-09	1.87E-09
ESE	2.61E-08	1.80E-08	1.45E-08	1.13E-08	9.02E-09	5.39E-09	2.48E-09	1.36E-09	9.17E-10	6.79E-10
SE	3.58E-08	4.19E-08	3.67E-08	2.96E-08	2.42E-08	1.50E-08	7.18E-09	4.05E-09	2.76E-09	2.07E-09
SSE	6.57E-08	4.12E-08	3.35E-08	2.69E-08	2.21E-08	1.41E-08	7.08E-09	4.13E-09	2.87E-09	2.17E-09
S	3.50E-08	2.45E-08	1.99E-08	1.57E-08	1.28E-08	8.00E-09	3.92E-09	2.25E-09	1.55E-09	1.17E-09
SSW	2.85E-08	2.18E-08	1.83E-08	1.46E-08	1.20E-08	7.42E-09	3.59E-09	2.05E-09	1.41E-09	1.06E-09
SW	4.52E-08	2.65E-08	2.25E-08	1.83E-08	1.51E-08	9.54E-09	4.72E-09	2.72E-09	1.88E-09	1.42E-09
WSW	3.77E-08	2.77E-08	2.49E-08	2.08E-08	1.75E-08	1.14E-08	5.82E-09	3.44E-09	2.41E-09	1.83E-09
W	2.37E-08	2.85E-08	2.73E-08	2.36E-08	2.03E-08	1.38E-08	7.44E-09	4.50E-09	3.19E-09	2.45E-09
WNW	4.09E-08	6.99E-08	6.66E-08	5.64E-08	4.76E-08	3.11E-08	1.58E-08	9.17E-09	6.34E-09	4.79E-09
NW	1.11E-07	9.18E-08	7.82E-08	6.39E-08	5.33E-08	3.46E-08	1.78E-08	1.05E-08	7.37E-09	5.62E-09
NNW	1.07E-07	5.76E-08	4.56E-08	3.63E-08	2.98E-08	1.89E-08	9.56E-09	5.62E-09	3.93E-09	2.99E-09

Dose.5

(a) Calculated from meteorological data collected at the Hanford Meteorology Tower.

Table D-7. Annual Average Dispersion Factor ($\bar{X}/Q'$) Around the 300 Area during 1996 for a 10-Meter Release Height^(a)

Direction	$\bar{X}/Q'$									
	0.8 km	2.4 km	4.0 km	5.6 km	7.2 km	12 km	24 km	40 km	56 km	72 km
N	4.20E-06	8.57E-07	4.06E-07	2.50E-07	1.75E-07	8.59E-08	3.33E-08	1.67E-08	1.07E-08	7.70E-09
NNE	1.77E-06	3.46E-07	1.63E-07	1.00E-07	6.99E-08	3.43E-08	1.33E-08	6.74E-09	4.33E-09	3.12E-09
NE	8.97E-07	1.67E-07	7.83E-08	4.81E-08	3.36E-08	1.65E-08	6.46E-09	3.28E-09	2.12E-09	1.53E-09
ENE	8.98E-07	1.71E-07	8.06E-08	4.96E-08	3.48E-08	1.71E-08	6.73E-09	3.44E-09	2.22E-09	1.61E-09
E	1.26E-06	2.48E-07	1.18E-07	7.26E-08	5.10E-08	2.52E-08	9.88E-09	5.04E-09	3.25E-09	2.35E-09
ESE	3.03E-06	6.04E-07	2.86E-07	1.76E-07	1.23E-07	6.06E-08	2.36E-08	1.19E-08	7.68E-09	5.53E-09
SE	4.92E-06	1.04E-06	5.00E-07	3.10E-07	2.18E-07	1.08E-07	4.24E-08	2.16E-08	1.39E-08	1.00E-08
SSE	3.74E-06	7.86E-07	3.75E-07	2.33E-07	1.63E-07	8.06E-08	3.15E-08	1.60E-08	1.03E-08	7.41E-09
S	3.76E-06	7.65E-07	3.63E-07	2.24E-07	1.57E-07	7.72E-08	3.01E-08	1.52E-08	9.73E-09	7.00E-09
SSW	3.06E-06	6.16E-07	2.92E-07	1.80E-07	1.26E-07	6.20E-08	2.41E-08	1.22E-08	7.83E-09	5.64E-09
SW	3.10E-06	6.31E-07	3.00E-07	1.85E-07	1.30E-07	6.39E-08	2.49E-08	1.26E-08	8.10E-09	5.83E-09
WSW	2.49E-06	4.99E-07	2.36E-07	1.46E-07	1.02E-07	5.00E-08	1.94E-08	9.78E-09	6.27E-09	4.51E-09
W	2.25E-06	4.63E-07	2.20E-07	1.36E-07	9.54E-08	4.68E-08	1.82E-08	9.17E-09	5.88E-09	4.22E-09
WNW	2.42E-06	4.84E-07	2.28E-07	1.41E-07	9.83E-08	4.80E-08	1.86E-08	9.31E-09	5.95E-09	4.27E-09
NW	4.28E-06	8.93E-07	4.26E-07	2.63E-07	1.85E-07	9.07E-08	3.52E-08	1.78E-08	1.14E-08	8.18E-09
NNW	5.55E-06	1.14E-06	5.41E-07	3.34E-07	2.33E-07	1.14E-07	4.42E-08	2.22E-08	1.42E-08	1.02E-08

Dose 6

(a) Calculated from meteorological data collected at the 300 Area and the Hanford Meteorology Tower.

Table D-8. Annual Average Dispersion Factor ($\bar{X}/Q'$) Around the 300 Area during 1996 for a 61-Meter Release Height^(a)

Direction	$\bar{X}/Q'$									
	0.8 km	2.4 km	4.0 km	5.6 km	7.2 km	12 km	24 km	40 km	56 km	72 km
N	1.59E-07	1.69E-07	1.19E-07	8.87E-08	6.95E-08	4.08E-08	1.88E-08	1.04E-08	6.95E-09	5.15E-09
NNE	1.34E-07	1.10E-07	7.76E-08	5.76E-08	4.51E-08	2.65E-08	1.23E-08	6.79E-09	4.57E-09	3.39E-09
NE	1.06E-07	6.19E-08	4.33E-08	3.22E-08	2.52E-08	1.49E-08	6.88E-09	3.81E-09	2.57E-09	1.91E-09
ENE	9.88E-08	4.96E-08	3.33E-08	2.43E-08	1.89E-08	1.10E-08	5.03E-09	2.77E-09	1.86E-09	1.38E-09
E	1.26E-07	8.03E-08	5.50E-08	4.04E-08	3.15E-08	1.84E-08	8.47E-09	4.68E-09	3.15E-09	2.34E-09
ESE	1.62E-07	1.10E-07	7.63E-08	5.66E-08	4.46E-08	2.65E-08	1.25E-08	6.99E-09	4.74E-09	3.53E-09
SE	1.90E-07	1.40E-07	1.03E-07	7.85E-08	6.31E-08	3.89E-08	1.90E-08	1.09E-08	7.45E-09	5.59E-09
SSE	1.46E-07	1.28E-07	9.19E-08	6.90E-08	5.45E-08	3.25E-08	1.53E-08	8.58E-09	5.81E-09	4.33E-09
S	1.27E-07	1.23E-07	9.27E-08	7.12E-08	5.70E-08	3.46E-08	1.65E-08	9.23E-09	6.25E-09	4.66E-09
SSW	1.48E-07	1.14E-07	8.44E-08	6.43E-08	5.12E-08	3.09E-08	1.46E-08	8.14E-09	5.51E-09	4.10E-09
SW	1.45E-07	1.19E-07	8.54E-08	6.37E-08	5.01E-08	2.94E-08	1.35E-08	7.42E-09	4.98E-09	3.68E-09
WSW	1.04E-07	1.02E-07	7.16E-08	5.29E-08	4.12E-08	2.39E-08	1.09E-08	5.98E-09	4.00E-09	2.96E-09
W	6.22E-08	6.48E-08	4.62E-08	3.45E-08	2.71E-08	1.60E-08	7.42E-09	4.11E-09	2.77E-09	2.05E-09
WNW	9.21E-08	8.75E-08	5.84E-08	4.18E-08	3.20E-08	1.80E-08	7.91E-09	4.26E-09	2.82E-09	2.07E-09
NW	1.04E-07	1.32E-07	9.19E-08	6.72E-08	5.21E-08	2.99E-08	1.35E-08	7.34E-09	4.90E-09	3.61E-09
NNW	1.25E-07	1.61E-07	1.14E-07	8.49E-08	6.65E-08	3.91E-08	1.81E-08	1.00E-08	6.74E-09	5.00E-09

Dose 7

(a) Calculated from meteorological data collected at the 300 Area and the Hanford Meteorology Tower.

Table D-9. Annual Average Dispersion Factor ($\bar{X}/Q'$) Around the 400 Area during 1996 for a 10-Meter Release Height^(a)

Direction	$\bar{X}/Q'$									
	0.8 km	2.4 km	4.0 km	5.6 km	7.2 km	12 km	24 km	40 km	56 km	72 km
N	2.71E-06	5.68E-07	2.71E-07	1.68E-07	1.18E-07	5.81E-08	2.27E-08	1.15E-08	7.42E-09	5.34E-09
NNE	2.69E-06	5.86E-07	2.82E-07	1.75E-07	1.24E-07	6.12E-08	2.41E-08	1.22E-08	7.89E-09	5.70E-09
NE	1.46E-06	2.98E-07	1.42E-07	8.79E-08	6.18E-08	3.06E-08	1.20E-08	6.13E-09	3.96E-09	2.86E-09
ENE	9.39E-07	1.95E-07	9.32E-08	5.78E-08	4.06E-08	2.01E-08	7.90E-09	4.02E-09	2.59E-09	1.87E-09
E	1.06E-06	2.08E-07	9.83E-08	6.05E-08	4.24E-08	2.08E-08	8.12E-09	4.11E-09	2.64E-09	1.91E-09
ESE	1.27E-06	2.38E-07	1.11E-07	6.77E-08	4.72E-08	2.29E-08	8.83E-09	4.43E-09	2.83E-09	2.03E-09
SE	2.29E-06	4.37E-07	2.05E-07	1.25E-07	8.75E-08	4.26E-08	1.65E-08	8.28E-09	5.30E-09	3.81E-09
SSE	3.17E-06	6.41E-07	3.04E-07	1.88E-07	1.31E-07	6.46E-08	2.51E-08	1.27E-08	8.15E-09	5.87E-09
S	3.83E-06	7.64E-07	3.62E-07	2.23E-07	1.56E-07	7.67E-08	2.99E-08	1.51E-08	9.70E-09	6.98E-09
SSW	4.03E-06	8.10E-07	3.84E-07	2.37E-07	1.66E-07	8.16E-08	3.18E-08	1.61E-08	1.03E-08	7.45E-09
SW	2.74E-06	5.49E-07	2.61E-07	1.61E-07	1.13E-07	5.55E-08	2.17E-08	1.09E-08	7.03E-09	5.06E-09
WSW	2.06E-06	3.99E-07	1.87E-07	1.15E-07	8.03E-08	3.92E-08	1.51E-08	7.58E-09	4.85E-09	3.48E-09
W	1.95E-06	3.95E-07	1.87E-07	1.16E-07	8.11E-08	3.99E-08	1.55E-08	7.84E-09	5.04E-09	3.62E-09
WNW	2.79E-06	5.55E-07	2.62E-07	1.61E-07	1.12E-07	5.47E-08	2.10E-08	1.05E-08	6.71E-09	4.81E-09
NW	4.55E-06	9.06E-07	4.27E-07	2.62E-07	1.83E-07	8.95E-08	3.45E-08	1.73E-08	1.10E-08	7.92E-09
NNW	3.79E-06	7.66E-07	3.62E-07	2.23E-07	1.56E-07	7.64E-08	2.96E-08	1.49E-08	9.53E-09	6.84E-09

Dose:8

(a) Calculated from meteorological data collected at the 400 Area and the Hanford Meteorology Tower.

Quality Assurance

Table Q-1. Quanterra Environmental Services (QES) Performance Data on Surface Environmental Surveillance Project Blind Samples, 1996 (contd)

Matrix	Radionuclide	True Value	Reported Value	% Bias
Air Filter	Be-7	6.23E-11 pCi/filter	4.57E+00 pCi/filter	<100
	Be-7	1.33E-12 pCi/filter	-1.62E+01 pCi/filter	<100
	Co-60	5.91E+01 pCi/filter	7.35E+01 pCi/filter	24.41
	Co-60	1.41E+02 pCi/filter	1.15E+02 pCi/filter	-18.33
	Cs-134	1.59E+01 pCi/filter	1.78E+01 pCi/filter	11.97
	Cs-137	1.05E+02 pCi/filter	1.44E+02 pCi/filter	36.60
	Cs-137	2.07E+02 pCi/filter	2.39E+02 pCi/filter	15.82
	Pu-239	4.16E+00 pCi/filter	3.63E+00 pCi/filter	-12.69
	Pu-239	1.09E+00 pCi/filter	1.22E+00 pCi/filter	12.19
	Sr-90	1.82E+00 pCi/filter	1.31E+00 pCi/filter	-27.96
	Sr-90	7.94E+00 pCi/filter	8.64E+00 pCi/filter	8.75
Soil	Cs-137	3.49E+00 pCi/g	3.77E+00 pCi/g	7.95
	Cs-137	7.68E-01 pCi/g	6.60E-01 pCi/g	-14.04
	K-40	1.01E+01 pCi/g	1.11E+01 pCi/g	9.80
	K-40	7.48E+00 pCi/g	6.15E+00 pCi/g	-17.78
	Pu-238	2.95E-01 pCi/g	2.42E-01 pCi/g	-18.05
	Pu-239	9.19E-02 pCi/g	7.68E-02 pCi/g	-16.42
	Pu-239	3.80E-01 pCi/g	4.03E-01 pCi/g	6.08
	Sr-90	2.12E-01 pCi/g	2.15E-01 pCi/g	1.21
	Sr-90	1.16E+00 pCi/g	1.18E+00 pCi/g	1.56
	U-234	7.95E-01 pCi/g	1.88E-01 pCi/g	-76.34
	U-234	7.90E-01 pCi/g	2.46E-01 pCi/g	-68.86
	U-238	8.11E-01 pCi/g	1.85E-01 pCi/g	-77.19
	U-238	7.90E-01 pCi/g	2.35E-01 pCi/g	-70.25
Vegetation	Cs-137	1.57E+00 pCi/g	2.34E+00 pCi/g	48.68
	Cs-137	1.37E+00 pCi/g	1.39E+00 pCi/g	1.09
	K-40	3.11E+01 pCi/g	4.09E+01 pCi/g	31.58
	K-40	2.61E+01 pCi/g	2.44E+01 pCi/g	-6.51
	Pu-238	1.04E-01 pCi/g	9.66E-02 pCi/g	-7.34
	Pu-239	3.78E-02 pCi/g	2.59E-02 pCi/g	-31.54
	Pu-239	2.20E-02 pCi/g	1.07E-02 pCi/g	-51.35
	Sr-90	4.29E+00 pCi/g	5.06E+00 pCi/g	17.81
	Sr-90	3.20E+00 pCi/g	3.65E+00 pCi/g	14.21
Water	Co-60	6.52E+03 pCi/L	6.82E+03 pCi/L	4.53
	Co-57	2.27E+02 pCi/L	2.36E+02 pCi/L	3.96
	Co-60	2.31E+03 pCi/L	2.67E+03 pCi/L	15.53
	Cs-134	1.56E+03 pCi/L	1.66E+03 pCi/L	6.22
	Cs-137	3.93E+03 pCi/L	4.09E+03 pCi/L	3.95
	Cs-137	9.31E+03 pCi/L	9.98E+03 pCi/L	7.17
	H-3	6.77E+03 pCi/L	7.44E+03 pCi/L	9.97
	H-3	7.78E+04 pCi/L	8.67E+04 pCi/L	11.49
	Mn-54	1.03E+02 pCi/L	1.05E+02 pCi/L	2.10
	Pu-239	2.09E+01 pCi/L	2.09E+01 pCi/L	0.05
	Pu-239	2.95E+01 pCi/L	2.65E+01 pCi/L	-10.04
	Sr-90	1.99E+02 pCi/L	2.16E+02 pCi/L	8.39

Table Q-1. Quanterra Environmental Services (QES) Performance Data on Surface Environmental Surveillance Project Blind Samples, 1996 (contd)

<u>Matrix</u>	<u>Radionuclide</u>	<u>True Value</u>	<u>Reported Value</u>	<u>% Bias</u>
	Sr-90	2.35E+02 pCi/L	2.66E+02 pCi/L	12.96
	U-234	5.92E+00 pCi/L	1.19E+00 pCi/L	-79.90
	U-234	6.38E+00 pCi/L	6.36E+00 pCi/L	-0.30
	U-238	5.92E+00 pCi/L	1.24E+00 pCi/L	-79.05
	U-238	6.60E+00 pCi/L	7.05E+00 pCi/L	6.89

**Table Q-2. Quanterra Environmental Services (QES) Performance Data on EPA
Intercomparison Program Samples, 1996**

<u>Matrix</u>	<u>Radionuclide</u>	<u>QES Average Concentration(a)</u>	<u>EPA Known Concentration(a)</u>	<u>% Bias</u>	<u>Out of Control Limits</u>
Water (pCi/L)	Ba-133	61.00 ± 1.73	64.0 ± 6.0	-4.69	
	Ba-133	714.67 ± 22.01	745.0 ± 75.0	-4.07	
	Co-60	15.33 ± 1.15	15.0 ± 5.0	2.20	
	Co-60	32.00 ± 0.00	31.0 ± 5.0	3.23	
	Co-60	43.33 ± 2.31	44.0 ± 5.0	-1.52	
	Co-60	98.00 ± 0.00	99.0 ± 5.0	-1.01	
	Cs-134	9.33 ± 0.58	11.0 ± 5.0	-15.18	
	Cs-134	18.00 ± 1.00	20.0 ± 5.0	-10.00	
	Cs-134	42.33 ± 2.08	46.0 ± 5.0	-7.98	
	Cs-134	71.33 ± 0.58	79.0 ± 5.0	-9.71	
	Cs-137	20.33 ± 0.58	19.0 ± 5.0	7.00	
	Cs-137	30.67 ± 1.15	30.0 ± 5.0	2.23	
	Cs-137	52.67 ± 2.08	50.0 ± 5.0	5.34	
	Cs-137	203.00 ± 4.58	197.0 ± 10.0	3.05	
	Gross Alpha	5.60 ± 1.04	10.3 ± 5.0	-45.63	
	Gross Alpha	9.70 ± 1.13	12.1 ± 5.0	-19.83	
	Gross Alpha	17.80 ± 0.87	24.4 ± 6.1	-27.05	
	Gross Alpha	48.87 ± 3.04	59.1 ± 14.8	-17.31	
	Gross Alpha	59.07 ± 5.43	74.8 ± 18.7	-21.03	
	Gross Beta	7.47 ± 0.29	7.0 ± 5.0	6.71	
	Gross Beta	37.33 ± 1.31	34.6 ± 5.0	7.89	
	Gross Beta	39.83 ± 0.47	44.8 ± 5.0	-11.09	
	Gross Beta	119.67 ± 1.53	111.8 ± 16.8	7.04	
	Gross Beta	160.70 ± 2.04	166.9 ± 25.0	-3.71	
	I-131	37.00 ± 2.00	27.0 ± 6.0	37.04	
	I-131	66.67 ± 2.08	67.0 ± 7.0	-0.49	
	Ra-226	3.00 ± 0.10	3.0 ± 0.5	0.00	
	Ra-226	4.77 ± 0.21	4.9 ± 0.7	-2.65	
	Ra-226	9.60 ± 0.72	9.9 ± 1.5	-3.03	
	Ra-226	13.17 ± 0.15	14.0 ± 2.1	-5.93	
	Ra-226	18.47 ± 0.50	20.1 ± 3.0	-8.11	
	Ra-228	3.57 ± 0.23	5.0 ± 1.3	-28.60	Below Control Limit
	Ra-228	4.07 ± 0.25	4.7 ± 1.2	-13.40	
	Ra-228	4.57 ± 0.21	5.1 ± 1.3	-10.39	
	Ra-228	9.07 ± 0.06	9.0 ± 2.3	0.78	
	Ra-228	9.87 ± 0.23	10.2 ± 2.6	-3.24	
	Sr-89	16.67 ± 1.15	10.0 ± 5.0	66.70	
	Sr-89	25.33 ± 0.58	25.0 ± 5.0	1.32	
	Sr-89	35.3 ± 1.2	43.0 ± 5.0	-17.84	
	Sr-89	67.00 ± 1.00	73.0 ± 5.0	-8.22	
	Sr-90	4.00 ± 0.00	5.0 ± 5.0	-20.00	
	Sr-90	10.67 ± 0.58	12.0 ± 5.0	-11.08	
	Sr-90	11.00 ± 0.00	16.0 ± 5.0	-31.25	
	Sr-90	21.33 ± 0.58	25.0 ± 5.0	-14.68	

(a) Concentrations are ± 2 sigma total propagated analytical uncertainty.

Table Q-2. Quanterra Environmental Services (QES) Performance Data on EPA Intercomparison Program Samples, 1996 (contd)

<u>Matrix</u>	<u>Radionuclide</u>	<u>QES Average Concentration(a)</u>	<u>EPA Known Concentration(a)</u>	<u>% Bias</u>	<u>Out of Control Limits</u>
	Tritium	10706.67 ± 50.33	10879.0 ± 1088.0	-1.58	
	Tritium	20393.33 ± 255.37	22002.0 ± 2200.0	-7.31	
	Uranium	40.10 ± 0.10	40.9 ± 4.1	-1.96	
	Uranium	4.83 ± 0.15	5.0 ± 3.0	-3.40	
	Uranium	10.30 ± 0.00	10.1 ± 3.0	1.98	
	Uranium	20.57 ± 0.06	20.2 ± 3.0	1.83	
	Uranium	48.30 ± 0.20	58.4 ± 5.8	-17.29	
	Zn-65	36.67 ± 1.53	35.0 ± 5.0	4.77	
	Zn-65	321.00 ± 1.00	300.0 ± 30.0	7.00	

(a) Concentrations are ± 2 sigma total propagated analytical uncertainty.

Table Q-3. Quanterra Environmental Services (QES) Performance Data on the DOE Quality Assessment Program Samples, 1996

Matrix	Radionuclide	True Value	Reported Value	Control Limit Evaluation
Water	Am-241	2.07E+01 pCi/L	2.27E+01 pCi/L	Acceptable
	Co-60	8.86E+02 pCi/L	1.00E+03 pCi/L	Acceptable w/warning
	Cs-137	1.04E+03 pCi/L	1.25E+03 pCi/L	Acceptable w/warning
	Gross Alpha	5.00E+04 pCi/L	4.54E+04 pCi/L	Acceptable
	Gross Beta	2.01E+04 pCi/L	2.39E+04 pCi/L	Acceptable
	H-3	6.78E+03 pCi/L	5.65E+03 pCi/L	Acceptable w/warning
	Mn-54	1.04E+03 pCi/L	1.26E+03 pCi/L	Acceptable w/warning
	Pu-238	2.65E+01 pCi/L	2.70E+01 pCi/L	Acceptable
	Pu-239	2.09E+01 pCi/L	2.55E+01 pCi/L	Acceptable w/warning
	Sr-90	3.92E+01 pCi/L	3.95E+01 pCi/L	Acceptable
	U-UG	2.20E-02 pCi/L	2.28E+01 pCi/L	Not Acceptable
Vegetation	Am-241	1.51E-01 pCi/g	1.66E-01 pCi/g	Acceptable
	Cm-244	1.20E-01 pCi/g	1.21E-01 pCi/g	Acceptable
	Co-60	1.61E+00 pCi/g	1.97E+00 pCi/g	Acceptable
	Cs-137	2.55E+01 pCi/g	3.38E+01 pCi/g	Acceptable w/warning
	K-40	2.78E+01 pCi/g	3.68E+01 pCi/g	Acceptable w/warning
	Pu-239	2.65E-01 pCi/g	2.43E-01 pCi/g	Acceptable
	Sr-90	3.51E+01 pCi/g	4.19E+01 pCi/g	Acceptable w/warning
Soil	Am-241	9.97E-02 pCi/g	9.27E-02 pCi/g	Acceptable
	Cs-137	9.70E+00 pCi/g	1.17E+01 pCi/g	Acceptable
	K-40	1.26E+01 pCi/g	1.46E+01 pCi/g	Acceptable
	Pu-238	1.16E+00 pCi/g	8.35E-01 pCi/g	Acceptable
	Pu-239	2.49E-01 pCi/g	1.75E-01 pCi/g	Acceptable w/warning
	Sr-90	3.62E+01 pCi/g	2.97E+01 pCi/g	Acceptable
	U-UG	2.90E+00 pCi/g	2.25E+00 pCi/g	Acceptable
Air Filter	Am-241	5.11E+00 pCi/filter	4.68E+00 pCi/filter	Acceptable
	Ce-144	9.00E+02 pCi/filter	5.41E+02 pCi/filter	Not Acceptable
	Co-57	2.41E+02 pCi/filter	1.58E+02 pCi/filter	Acceptable w/warning
	Co-60	7.97E+02 pCi/filter	6.19E+02 pCi/filter	Acceptable w/warning
	CS-134	3.97E+02 pCi/filter	3.08E+02 pCi/filter	Acceptable w/warning
	Cs-137	1.79E+02 pCi/filter	1.36E+02 pCi/filter	Acceptable w/warning
	Gross Alpha	4.38E+01 pCi/filter	5.03E+01 pCi/filter	Acceptable
	Gross Beta	4.78E+01 pCi/filter	8.08E+01 pCi/filter	Acceptable w/warning
	Mn-54	9.30E+01 pCi/filter	7.03E+01 pCi/filter	Acceptable w/warning
	Pu-238	2.59E+00 pCi/filter	2.46E+00 pCi/filter	Acceptable
	Pu-239	2.51E+00 pCi/filter	2.57E+00 pCi/filter	Acceptable
	Ru-106	3.14E+02 pCi/filter	2.61E+02 pCi/filter	Acceptable
	SB-125	2.64E+02 pCi/filter	2.20E+02 pCi/filter	Acceptable
	Sr-90	2.86E+01 pCi/filter	2.86E+01 pCi/filter	Acceptable
	U-UG	4.31E+00 pCi/filter	4.69E+00 pCi/filter	Acceptable
Water	Am-241	2.92E+01 pCi/L	2.81E+01 pCi/L	Acceptable
	Co-60	1.65E+03 pCi/L	1.78E+03 pCi/L	Acceptable

Table Q-3. Quanterra Environmental Services (QES) Performance Data on the DOE Quality Assessment Program Samples, 1996 (contd)

Matrix	Radionuclide	True Value	Reported Value	Control Limit Evaluation
	Cs-137	2.42E+03 pCi/L	2.59E+03 pCi/L	Acceptable
	Fe-55	6.22E+03 pCi/L	6.78E+03 pCi/L	Acceptable
	Gross Alpha	3.27E+04 pCi/L	2.28E+04 pCi/L	Acceptable w/warning
	Gross Beta	1.46E+04 pCi/L	1.18E+04 pCi/L	Acceptable
	H-3	1.59E+04 pCi/L	1.25E+04 pCi/L	Acceptable w/warning
	Mn-54	1.64E+03 pCi/L	1.76E+03 pCi/L	Acceptable
	Pu-238	5.16E+01 pCi/L	5.32E+01 pCi/L	Acceptable
	Pu-239	2.27E+01 pCi/L	2.38E+01 pCi/L	Acceptable
	Sr-90	7.32E+01 pCi/L	8.11E+01 pCi/L	Acceptable
	U-UG	3.90E-02 pCi/L	4.00E-02 pCi/L	Acceptable
Vegetation	Am-241	3.32E-02 pCi/g	3.22E-02 pCi/g	Acceptable
	Cm-244	2.24E-02 pCi/g	2.11E-02 pCi/g	Acceptable
	Co-60	2.95E-01 pCi/g	3.65E-01 pCi/g	Acceptable w/warning
	Cs-137	5.14E+00 pCi/g	6.62E+00 pCi/g	Acceptable w/warning
	K-40	2.68E+01 pCi/g	3.22E+01 pCi/g	Acceptable
	Pu-239	5.30E-02 pCi/g	7.32E-02 pCi/g	Acceptable w/warning
	Sr-90	3.76E+01 pCi/g	4.16E+01 pCi/g	Acceptable w/warning
Soil	Am-241	3.65E-01 pCi/g	3.92E-01 pCi/g	Acceptable
	Cm-244	8.43E-03 pCi/g	7.03E-03 pCi/g	Acceptable
	Co-60	7.89E-02 pCi/g	1.15E-01 pCi/g	Acceptable w/warning
	Cs-137	4.19E+01 pCi/g	5.38E+01 pCi/g	Acceptable w/warning
	K-40	8.11E+00 pCi/g	1.01E+01 pCi/g	Acceptable
	Pu-238	3.05E-02 pCi/g	2.27E-02 pCi/g	Acceptable
	Pu-239	5.89E-01 pCi/g	5.68E-01 pCi/g	Acceptable
	Sr-90	1.89E+00 pCi/g	1.86E+00 pCi/g	Acceptable
	U-234	1.06E+00 pCi/g	1.07E+00 pCi/g	Acceptable
	U-238	1.12E+00 pCi/g	1.01E+00 pCi/g	Acceptable
	U-UG	3.36E+00 pCi/g	3.03E+00 pCi/g	Acceptable
Air Filter	Am-241	6.00E+00 pCi/filter	5.41E+00 pCi/filter	Acceptable
	Co-57	4.00E+02 pCi/filter	3.70E+02 pCi/filter	Acceptable
	Co-60	2.34E+02 pCi/filter	2.26E+02 pCi/filter	Acceptable
	CS-134	2.92E+02 pCi/filter	2.73E+02 pCi/filter	Acceptable
	Cs-137	2.30E+02 pCi/filter	2.11E+02 pCi/filter	Acceptable
	Gross Alpha	3.11E+01 pCi/filter	3.00E+01 pCi/filter	Acceptable
	Gross Beta	1.35E+01 pCi/filter	2.54E+01 pCi/filter	Not Acceptable
	Mn-54	1.72E+02 pCi/filter	1.72E+02 pCi/filter	Acceptable
	Pu-238	3.19E+00 pCi/filter	3.24E+00 pCi/filter	Acceptable
	Ru-106	2.92E+02 pCi/filter	2.78E+02 pCi/filter	Acceptable
	Sb-125	2.92E+02 pCi/filter	3.00E+02 pCi/filter	Acceptable
	Sr-90	1.42E+01 pCi/filter	1.49E+01 pCi/filter	Acceptable
	U-234	2.16E+00 pCi/filter	2.59E+00 pCi/filter	Acceptable
	U-238	2.11E+01 pCi/filter	1.84E+01 pCi/filter	Acceptable w/warning
	U-UG	6.40E+00 pCi/filter	8.30E+00 pCi/filter	Acceptable

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