**U.S. DEPARTMENT OF ENERGY PORTSMOUTH
ANNUAL ENVIRONMENTAL REPORT
DATA FOR 1995**

Date Published: April 1997

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under contract no. DE-AC05-84OR21400

MASTER

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Acronyms and Abbreviations

AMAD	activity median aerodynamic diameter
°C	degrees celsius
Ci	curie
cm	centimeter
cm ²	square centimeter
cm ³	cubic centimeter
Cr	chromium
DCA	dichloroethane
DCE	dichloroethene
DCG	derived concentration guide
DOE	U.S. Department of Energy
EDE	effective dose equivalent
ENE	east-northeast
g	gram
kg	kilogram
km	kilometer
L	liter
m	meter
max	maximum
μg	microgram
μCi	microcurie
μg	microgram
μm	micrometer
mCi	millicurie
mg	milligram
Mgd	million gallons per day
min	minimum
mrem	millirem
NA	not applicable
NPDES	National Pollutant Discharge Elimination System
Pa	protactinium
PCB	polychlorinated biphenyl
pCi	picocurie

s	second
SU	standard unit
Tc	technetium
TCA	trichloroethane
TCE	trichloroethene
Th	thorium
U	uranium
USEC	United States Enrichment Corporation

Introduction

Environmental monitoring on the Portsmouth Gaseous Diffusion Plant site is conducted throughout the year. Monitoring ensures that the site is a safe place to work, that plant operations do not adversely affect neighboring communities, and that activities comply with federal and state regulations.

This document is a compilation of the environmental monitoring data for calendar year 1995 and is intended as a tool for analysts in environmental monitoring, environmental restoration, and other related disciplines. The data in this document form the basis for the summary information in the *Portsmouth Annual Environmental Report for 1995* (POEF-LMES-85).

1. Effluent Monitoring

Table 1.1. Uranium concentrations in water samples for 1995

NPDES ^a outfall	Number of samples	Concentration			
		Maximum (mg/L)	Minimum (mg/L)	Average (mg/L)	Standard deviation
012	12	<0.002	<0.001	<0.001	0.25
013	12	<0.002	<0.001	<0.001	0.28

^aNational Pollutant Discharge Elimination System.

Table 1.2. Radioactivity concentrations in water samples for 1995

Table 1.2. Radioactivity concentrations in water samples for 1999						
NPDES ^a outfall	Number of samples	Concentration				Standard deviation
		Maximum (pCi/L)	Minimum (pCi/L)	Average (pCi/L) (% DCG ^b)		
<i>Gross alpha</i>						
012	12 (12) ^c	<6	<3	<4.4	0.98	0.759
013	12 (12) ^c	<12	<4	<6.2	1.14	2.511
<i>⁹⁹Tc</i>						
012	12	<24	<22	<22.5	0.22	0.866
013	12	<24	<22	<22.3	0.22	0.745
<i>Gross beta</i>						
012	12	<11	<8	<9.2	NA ^d	1.344
013	12	<11	<8	<9.0	NA	1.291

^aNational Pollutant Discharge Elimination System.^bDerived concentration guide.^cNumber in parentheses indicates the number of samples that were below the detection limit for gross alpha activity.^dNot applicable.

Table 1.3. DOE/PORTS NPDES* permit summary for 1995

Effluent characteristics		Monitoring requirements		Discharge limitations			
Parameter	Units	Measurement frequency	Sample type	Concentration		Loading	
				30 day	Daily	30 day	Daily
Outfall 609 (X-624 carbon filtration facility) ^e							
Flow rate	Mgd	Daily	24-hour total				
Trichloroethene	µg/L	1/2 weeks	Grab	10	10		
Polychlorinated biphenyls ^b	µg/L	1/quarter	Grab				
Outfall 606 (X-701E/X-623 filtration facility) ^d							
Flow rate	Mgd	1/day	24-hour total				
pH	SU	1/week	Grab				
Total zinc	µg/L	1/2 weeks	Grab				
Trichloroethene	µg/L	1/2 weeks	Grab		10		
1,2-trans-dichloroethene	µg/L	1/2 weeks	Grab	25	66		
Outfall 607 (X-700 air stripper) ^e							
Flow rate	Mgd	1/day	24-hour total				
pH	SU	1/week	Grab				
Trichloroethene	µg/L	1/2 weeks	Grab	26	69		
Outfall 608 (X-622 carbon filtration facility)							
Flow rate	Mgd	1/day	24-hour total				
pH	SU	1/week	Grab				
Total zinc	µg/L	1/2 weeks	Grab				
Trichloroethene	µg/L	1/2 weeks	Grab		10		
1,2-trans-dichloroethene	µg/L	1/2 weeks	Grab	25	66		
Outfall 611 (X-622T carbon treatment facility) ^f							
Flow rate	Mgd	1/day	24-hour total				
Trichloroethene	µg/L	1/2 weeks	Grab		10		
Outfall 006 (X-611A north lime sludge lagoon)							
Flow rate	Mgd	1/week	24-hour total ^g				
pH	SU	1/week	Grab		6.5-9.0		
Total suspended solids	mg/L	1/week	Grab	10	15		
Polychlorinated biphenyls ^b	µg/L	1/quarter	Grab				
Outfall 007 (X-611A middle lime sludge lagoon)							
Flow rate	Mgd	1/week	24-hour total ^g				
pH	SU	1/week	Grab		6.5-9.0		
Total suspended solids	mg/L	1/week	Grab	10	15		
Polychlorinated biphenyls ^b	µg/L	1/quarter	Grab				
Outfall 008 (X-611A south lime sludge lagoon)							
Flow rate	Mgd	1/week	24-hour total				
pH	SU	1/week	Grab		6.5-9.0		
Total suspended solids	mg/L	1/week	Grab	10	15		
Polychlorinated biphenyls ^b	µg/L	1/quarter	Grab				

Table 1.3. DOE/PORTS NPDES^a permit summary for 1995 (continued)

Effluent characteristics		Monitoring requirements		Discharge limitations			
Parameter	Units	Measurement frequency	Sample type	Concentration		Loading	
				30 day	Daily	30 day	Daily
Outfall 012 (X-2230M holding pond)							
Flow rate	Mgd	1/day	24-hour total ^a				
pH	SU	1/2 weeks	Grab		6.5-9.0		
Total suspended solids	mg/L	1/2 weeks	Grab	30	45		
Oil and grease	mg/L	1/2 weeks	Grab	10	20	11	23
Total residual chlorine ^b	mg/L	1/2 weeks	Grab				
Phosphorus	mg/L	1/2 weeks	Grab				
Hexavalent chromium	μg/L	1/2 weeks	Grab				
Total chromium	μg/L	1/2 weeks	Grab				
Trichloroethene	μg/L	1/2 weeks	Grab				
Polychlorinated biphenyls ^c	μg/L	1/quarter	Grab				
Outfall 013 (X-2230N holding pond)							
Flow rate	Mgd	1/day	24-hour total				
pH	SU	1/2 weeks	Grab		6.5-9.0		
Total suspended solids	mg/L	1/2 weeks	Grab	30	45		
Oil and grease	mg/L	1/2 weeks	Grab	10	20	11	23
Total residual chlorine ^b	mg/L	1/2 weeks	Grab				
Phosphorus	mg/L	1/2 weeks	Grab				
Hexavalent chromium	μg/L	1/2 weeks	Grab				
Total chromium	μg/L	1/2 weeks	Grab				
Polychlorinated biphenyls ^c	μg/L	1/quarter	Grab				

^aNational Pollutant Discharge Elimination System.^bNo detectable polychlorinated biphenyls without a numerical limit specified.^cOutfall number changed to 615 effective 9/1/95.^dOutfall number changed to 610 effective 9/1/95.^eRemoved from permit effective 9/1/95.^fOutfall established 9/1/95.^gEstimated.^hSummer only.

Table 1.4. NPDES^a discharge and compliance rates for 1995

Parameter	NPDES compliance rate (%)	Number of samples	Concentrations/loadings			Standard deviation	Units
			Minimum	Maximum	Average		
Outfall 006 (X-611A north lime sludge lagoon)							
Flow rate	b	10	0.003	0.072	0.031	0.026	Mgd
pH	c	10	8.200	8.900	8.500	0.200	SU
Total suspended solids	c	10	2.000	52.000	9.700	14.500	mg/L
30-day average	c	4	2.280	33.000	11.160	12.650	mg/L
Polychlorinated biphenyls	d	0	0.000	0.000	0.000	0.000	µg/L
Outfall 007 (X-611A middle lime sludge lagoon)*							
Flow rate	b	0	0.000	0.000	0.000	0.000	Mgd
pH	c	0	0.000	0.000	0.000	0.000	SU
Total suspended solids	c	0	0.000	0.000	0.000	0.000	mg/L
30-day average	c	0	0.000	0.000	0.000	0.000	mg/L
Polychlorinated biphenyls	d	0	0.000	0.000	0.000	0.000	µg/L
Outfall 008 (X-611A south lime sludge lagoon)							
Flow rate	b	4	0.002	0.048	0.016	0.019	Mgd
pH	c	4	7.400	8.700	8.280	0.510	SU
Total suspended solids	c	4	3.000	7.000	4.800	1.800	mg/L
30-day average	c	2	3.750	6.490	5.120	1.370	mg/L
Polychlorinated biphenyls	d	1	1.000	1.000	1.000	0.000	µg/L
Outfall 012 (X-2230M holding pond)							
Flow rate	b	245	0.000	28.388	0.580	2.321	Mgd
pH	100	23	7.200	8.500	7.800	0.400	SU
Total suspended solids	96	23	2.000	117.000	12.170	22.920	mg/L
30-day average	92	12	1.430	116.620	17.270	30.550	mg/L
Oil and grease	100	23	5.000	12.000	5.300	1.430	mg/L
30-day average	100	12	1.830	11.230	5.250	2.000	mg/L
daily loading	97	23	0.000	537.240	29.440	108.770	kg/day
30-day average loading	92	12	0.860	269.560	28.310	73.040	kg
Phosphorus	f	23	0.030	0.100	0.040	0.020	mg/L
Hexavalent chromium	f	24	0.010	0.010	0.010	0.000	µg/L
Total chromium	f	23	2.400	9.000	3.020	1.410	µg/L
Trichloroethylene	f	23	1.000	2.400	1.060	0.290	µg/L
Total residual chlorine	f	10	0.019	0.019	0.019	0.000	mg/L
Polychlorinated biphenyls	d	4	1.000	1.000	1.000	0.000	µg/L
Outfall 013 (X-2230N holding pond)							
Flow rate	b	249	0.000	15.244	0.451	1.669	Mgd
pH	100	24	7.300	8.800	7.900	0.400	SU
Total suspended solids	100	25	2.000	29.000	8.640	8.150	mg/L
30-day average	100	12	2.000	23.840	10.160	7.830	mg/L
Oil and grease	100	25	5.000	6.000	5.040	0.200	mg/L
30-day average	100	12	5.000	5.850	5.070	0.230	mg/L
daily loading	96	25	0.020	249.620	15.020	49.170	kg/day
30-day average loading	92	12	0.090	124.820	16.370	34.110	kg
Phosphorus	f	25	0.030	0.130	0.060	0.030	mg/L
Hexavalent chromium	f	25	0.010	0.010	0.010	0.000	µg/L
Total chromium	f	25	2.400	73.000	6.500	13.850	µg/L
Total residual chlorine	f	9	0.019	0.019	0.019	0.000	mg/L
Polychlorinated biphenyls	d	4	1.000	1.000	1.000	0.000	µg/L
Outfall 022, alternate effluent limits (X-2230M holding pond)							
Flow rate	b	4	0.000	14.435	7.277	7.158	Mgd
pH	c	2	6.800	7.900	7.400	0.600	SU
Total suspended solids	c	2	42.000	50.000	46.000	4.000	mg/L
30-day average	c	2	42.000	50.000	46.000	4.000	mg/L
Oil and grease	c	2	5.000	5.000	5.000	0.000	mg/L
30-day average	c	2	5.000	5.000	5.000	0.000	mg/L
daily loading	c	2	4.520	273.180	138.850	134.330	kg/day
30-day average loading	c	2	4.520	273.180	138.850	134.330	kg
Phosphorus	f	2	0.080	0.100	0.090	0.010	mg/L
Hexavalent chromium	f	2	0.010	0.010	0.010	0.000	µg/L
Total chromium	f	2	7.000	11.000	9.000	2.000	µg/L
Trichloroethylene	f	2	1.000	1.000	1.000	0.000	µg/L
Total residual chlorine	f	0	0.000	0.000	0.000	0.000	mg/L
Polychlorinated biphenyls	d	0	0.000	0.000	0.000	0.000	µg/L

Table 1.4. NPDES^a discharge and compliance rates for 1995 (continued)

Parameter	NPDES compliance rate (%)	Number of samples	Concentrations/loadings			Standard deviation	Units
			Minimum	Maximum	Average		
Outfall 023, alternate effluent limits (X-2230N holding pond)							
Flow rate	b	0	0.000	0.000	0.000	0.000	Mgd
pH	c	0	0.000	0.000	0.000	0.000	SU
Total suspended solids	c	0	0.000	0.000	0.000	0.000	mg/L
30-day average	c	0	0.000	0.000	0.000	0.000	mg/L
Oil and grease	c	0	0.000	0.000	0.000	0.000	mg/L
30-day average	c	0	0.000	0.000	0.000	0.000	mg/L
daily loading	c	0	0.000	0.000	0.000	0.000	kg/day
30-day average loading	c	0	0.000	0.000	0.000	0.000	kg
Phosphorus	f	0	0.000	0.000	0.000	0.000	mg/L
Hexavalent chromium	f	0	0.000	0.000	0.000	0.000	µg/L
Total chromium	f	0	0.000	0.000	0.000	0.000	µg/L
Total residual chlorine	f	0	0.000	0.000	0.000	0.000	mg/L
Polychlorinated biphenyls	d	0	0.000	0.000	0.000	0.000	µg/L
Outfall 038, alternate effluent limits (X-611A south lime sludge lagoon)							
Flow rate	b	0	0.000	0.000	0.000	0.000	Mgd
pH	c	0	0.000	0.000	0.000	0.000	SU
Total suspended solids	c	0	0.000	0.000	0.000	0.000	mg/L
30-day average	c	0	0.000	0.000	0.000	0.000	mg/L
Polychlorinated biphenyls	d	0	0.000	0.000	0.000	0.000	µg/L
Outfall 606 (X-701/X-623 carbon filtration facility)							
Flow rate	b	92	0.000	0.026	0.002	0.004	Mgd
pH	100	9	8.100	9.600	8.800	0.400	SU
Trichloroethylene	c	7	1.00	26.400	4.840	8.810	µg/L
1,2-trans-dichloroethylene	c	7	1.000	1.000	1.000	0.000	µg/L
30-day average	c	3	0.200	1.000	0.730	0.380	µg/L
Total zinc	f	7	1.000	88.000	38.990	34.800	µg/L
Outfall 607 (X-700 air stripper) ^e							
Flow rate	b	0	0.00	0.00	0.00	0.00	Mgd
pH	c	0	0.00	0.00	0.00	0.00	SU
Trichloroethylene	c	0	0.00	0.00	0.00	0.00	µg/L
30-day average	c	0	0.00	0.00	0.00	0.00	µg/L
Outfall 608 (X-622 carbon filtration facility)							
Flow rate	b	365	0.008	0.039	0.017	0.005	Mgd
pH	100	49	6.600	7.600	7.200	0.200	SU
Trichloroethylene	100	27	1.000	1.000	1.000	0.000	µg/L
1,2-trans-dichloroethylene	100	27	1.000	9.200	3.360	2.760	µg/L
30-day average	92	12	1.000	9.080	3.330	2.730	µg/L
Total zinc	f	26	7.900	105.000	33.130	26.830	µg/L
Outfall 609 (X-624 carbon filtration facility)							
Flow rate	b	365	0.000	0.031	0.008	0.007	Mgd
Trichloroethylene	96	24	1.000	15.500	2.670	3.060	µg/L
30-day average	100	12	1.000	9.160	2.660	2.270	µg/L
Outfall 611, outfall established effective 9/1/95 (X-622T carbon filtration facility)							
Flow rate	b	123	0.013	0.031	0.025	0.003	Mgd
Trichloroethylene	c	9	1.000	1.000	1.000	0.000	µg/L
30-day average	c	5	1.000	1.000	1.000	0.000	µg/L

^aNational Pollutant Discharge Elimination System.^bFlow does not have a numerical limit, no compliance rates are generated.^cInsufficiently frequent flow to calculate useful compliance rate.^dThe permit specifies no detectable polychlorinated biphenyls in the effluent without setting a numerical limit of detection.^eNo flow throughout entire calendar year.^fMonitoring only required.

2. Dose

Table 2.1. Committed effective dose rate conversion factors^a

Radionuclide (solubility)	Inhalation (rem/ μ Ci)	Ingestion (rem/ μ Ci)	Immersion (mrem/year per μ Ci/cm ³)	Ground surfaces (mrem/year per μ Ci/cm ²)
⁹⁹ Tc (D) ^b	1.03×10^{-3}	1.45×10^{-3}	2.55×10^3	6.03×10^{-1}
²³⁴ U (D)	2.67	2.74×10^{-1}	7.46×10^5	8.00×10^2
²³⁵ U (D)	2.54	2.64×10^{-1}	7.51×10^8	1.67×10^5
²³⁶ U (D)	2.53	2.60×10^{-1}	5.90×10^5	7.27×10^2
²³⁸ U (D)	2.40	2.47×10^{-1}	5.06×10^5	6.41×10^2
²³¹ Th (W) ^b	9.62×10^{-4}	1.35×10^{-3}	5.82×10^1	1.91
²³⁴ Th (W)	3.06×10^{-2}	1.37×10^{-2}	3.73×10^7	9.71×10^3
^{234m} Pa (W)	3.77×10^{-6}	5.90×10^{-6}	5.93×10^7	1.12×10^4

^aFactors taken from the ALLRAD88 data file provided with CAP-88.^bD = soluble in blood; W = moderately soluble in blood.Table 2.2. Release point parameters and receptor locations
used in 1995 dose calculations

Name	Type	Release height (m)	Inner diameter (m)	Gas exit velocity (m/s)	Gas exit tempera- ture (°C)	Distance (m) and direction to receptor ^a
Stack 1	Point	50	0.25	18	Ambient	1370 SE
Stack 2	Point	20	0.97	24	Ambient	1530 E
Stack 3 ^b	Point	3	0.1	13.2	Ambient	1410 ESE
Stack 4 ^b	Point	20	0.2	30.5	Ambient	1450 ESE

^aReceptor is residence of maximally exposed member of public.^bDOE source.

Table 2.3. Activities (Ci), solubilities, and AMAD^a (μm) of radionuclides released from DOE Sources at Portsmouth for 1995

Radionuclide (solubility)	AMAD ^a (μm)	Stack 1 (USEC-1) ^b Activity (Ci)	Stack 2 (USEC-2) ^b Activity (Ci)	Stack 3 (DOE-1) Activity (Ci)	Stack 4 (DOE-2) Activity (Ci)
⁹⁹ Tc (D) ^c	1	1.298 E-2	4.809 E-4	1.198 E-3	3.422 E-5
²³⁴ U (D)	1	8.651 E-3	1.686 E-5	1.285 E-4	1.130 E-5
²³⁵ U (D)	1	7.301 E-4	4.43 E-7	3.480 E-6	2.562 E-7
²³⁶ U (D)	1	8.68 E-7	1.206 E-9	1.100 E-8	6.917 E-10
²³⁸ U (D)	1	1.889 E-4	5.49 E-7	2.044 E-6	2.598 E-8
²³¹ Th (W) ^c	1	2.301 E-4	4.47 E-7	3.480 E-6	2.562 E-7
²³⁴ Th (W)	1	1.888 E-4	5.48 E-7	2.044 E-6	2.598 E-8
^{234m} Pa (W)	1	1.888 E-4	5.48 E-7	2.044 E-6	2.598 E-8

^aActivity median aerodynamic diameter.

^bDOE fraction only

^cD = soluble in blood; W = moderately soluble in blood.

Table 2.4. Predicted radiation doses from airborne releases at DOE/PORTS for 1995

Effective dose equivalent (EDE) to:	EDE
Maximum exposed individual ^a	0.13 mrem
Population ^b	1.2 person-rem
Nearest community ^c	0.02 person-rem

^aMaximum exposed individual resides on the reservation boundary, 1770 m (5807 ft) ENE of plant center.

^bCollective EDE to general population within 80 km (50 miles) of plant site.

^cCollective EDE to residents of nearest community (Piketon, Ohio).

3. Groundwater

Table 3.1. DOE/PORTS groundwater monitoring for 1995:
results for trichloroethene at X-701B

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X701-50B	Trichloroethene	2.00 U	2.00 U			µg/L
X701-58B	Trichloroethene	2.00 U	2.00 U			µg/L
X701-61B	Trichloroethene	2.00 U	2.00 U			µg/L
<i>Gallia Wells</i>						
LBC-PZ03	Trichloroethene	370.00	820.00	595.00	318.20	µg/L
LBC-PZ06	Trichloroethene	2.00 U	2.00 U			µg/L
X701-02G	Trichloroethene	3.00	5.00	4.00	0.82	µg/L
X701-05G	Trichloroethene	5.00	8.00	7.25	1.50	µg/L
X701-06G	Trichloroethene	110.00	120.00	117.50	5.00	µg/L
X701-08G	Trichloroethene	440000.00	550000.00	486666.67	56862.41	µg/L
X701-10G	Trichloroethene	1900.00	2400.00	2150.00	208.17	µg/L
X701-14G	Trichloroethene	210000.00	480000.00	332500.00	125000.00	µg/L
X701-15G	Trichloroethene	4.00	11.00	7.25	3.30	µg/L
X701-16G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-19G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-21G	Trichloroethene	32.00	47.00	37.00	7.07	µg/L
X701-23G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-24G	Trichloroethene	30000.00	48000.00	42000.00	8485.28	µg/L
X701-25G	Trichloroethene	2.00 U	7.00 U			µg/L
X701-30G	Trichloroethene	17.00	20.00	18.25	1.50	µg/L
X701-31G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-32G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-38G	Trichloroethene	2.00 U	5.00			µg/L
X701-48G	Trichloroethene	2.00 U	4.00 U			µg/L
X701-49G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-BW1G	Trichloroethene	2.00 U	2.00 U			µg/L
X701-BW4G	Trichloroethene	2.00 U	2.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample.

Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

DOE/PORTS

Table 3.2. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-701B holding pond

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X701-50B	Gross Alpha	10.00 U	21.00	17.50	5.07	pCi/L
	Gross Beta	10.00	21.00	16.00	4.69	pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	3.80	2.05	1.34	µg/L
X701-58B	Gross Alpha	14.00	17.00	15.50	2.12	pCi/L
	Gross Beta	17.00	21.00	19.00	2.83	pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.80	2.80	2.30	0.71	µg/L
X701-61B	Gross Alpha	22.00 U	180.00			pCi/L
	Gross Beta	22.00	126.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.70	1.80	1.71	0.03	µg/L
<i>Gallia Wells</i>						
LBC-PZ03	Gross Alpha	5.00 U	5.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
LBC-PZ06	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	4.90	2.15	1.85	µg/L
X701-02G	Gross Alpha	5.00 U	10.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-05G	Gross Alpha	5.00 U	10.00			pCi/L
	Gross Beta	8.00 U	12.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L

Table 3.2. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-701B holding pond (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X701-05G	Uranium	1.00 U	1.00 U			µg/L
X701-06G	Gross Alpha	1.00 U	6.00 U			pCi/L
	Gross Beta	21.00	51.00	37.25	12.66	pCi/L
	Technetium	28.00	56.00	44.25	14.06	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-08G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	109.00	172.00	144.33	32.19	pCi/L
	Technetium	165.00	227.00	200.00	31.76	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-10G	Gross Alpha	5.60 U	6.00 U			pCi/L
	Gross Beta	8.00 U	31.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.80			µg/L
X701-14G	Gross Alpha	5.00 U	6.00 U			pCi/L
	Gross Beta	134.00	142.00	136.75	3.59	pCi/L
	Technetium	165.00	189.00	177.75	13.05	pCi/L
	Uranium	0.44 U	1.00 U			µg/L
X701-15G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	8.00 U	10.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-16G	Gross Alpha	4.00 U	6.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.50			µg/L
X701-19G	Gross Alpha	3.90 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L

DOE/PORTS

Table 3.2. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-701B holding pond (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X701-19G	Uranium	1.00 U	1.00 U			µg/L
X701-21G	Gross Alpha	8.00 U	8.00 U			pCi/L
	Gross Beta	20.00	32.00	26.00	5.89	pCi/L
	Technetium	34.00	58.00	45.75	11.15	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-23G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-24G	Gross Alpha	4.00 U	53.00			pCi/L
	Gross Beta	20.00	93.00	40.50	35.09	pCi/L
	Technetium	23.00	62.00	35.50	17.97	pCi/L
	Uranium	1.00 U	8.90			µg/L
X701-25G	Gross Alpha	7.00 U	8.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-30G	Gross Alpha	6.00 U	8.00			pCi/L
	Gross Beta	11.00 U	20.00	13.25	4.50	pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-31G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-32G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L

Table 3.2. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-701B holding pond (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X701-32G	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-38G	Gross Alpha	5.70 U	7.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-48G	Gross Alpha	4.00 U	8.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-49G	Gross Alpha	5.00 U	11.00	8.67	3.21	pCi/L
	Gross Beta	8.00 U	10.00	8.67	1.15	pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.60	3.00	2.20	0.72	µg/L
X701-BW1G	Gross Alpha	6.00 U	6.00 U			pCi/L
	Gross Beta	8.00 U	8.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-BW4G	Gross Alpha	9.00 U	9.00 U			pCi/L
	Gross Beta	27.00	55.00	36.75	12.45	pCi/L
	Technetium	28.00	53.00	42.25	12.28	pCi/L
	Uranium	1.00 U	1.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample.
Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X749-14B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-50B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	3.00	7.00	4.50	1.73	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	4.00	2.50	1.00	µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
X749-51B	Trichloroethene	2.00 U	2.00 U			µg/L
	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
X749-54B	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells (cont)</i>						
X749-54B	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-60B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-64B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
<i>Gallia Wells</i>						
X120-08G	1,1,1-Trichloroethane	10.00 U	55.00	42.25	21.55	µg/L
	1,1-Dichloroethane	15.00	18.00	16.50	1.73	µg/L
	1,1-Dichloroethene	72.00	78.00	75.00	3.46	µg/L
	1,2-Dichloroethane	3.00	10.00 U			µg/L
	Chloroform	2.00	10.00 U			µg/L
	Freon 113	5.00	10.00 U			µg/L
	Trichloroethene	12.00	12.00	12.00	0.00	µg/L
X749-04G	1,1,1-Trichloroethane	20.00 U	20.00 U			µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-04G	1,1-Dichloroethane	20.00 U	20.00 U			µg/L
	1,1-Dichloroethene	20.00 U	20.00 U			µg/L
	1,2-Dichloroethane	20.00 U	20.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	20.00 U	20.00 U			µg/L
	Chloroform	20.00 U	20.00 U			µg/L
	Freon 113	20.00 U	20.00 U			µg/L
	Trichloroethene	210.00	430.00	290.00	121.66	µg/L
X749-06G	1,1,1-Trichloroethane	3200.00	3900.00	3500.00	355.90	µg/L
	1,1-Dichloroethane	1500.00	1800.00	1625.00	150.00	µg/L
	1,1-Dichloroethene	1600.00	2100.00	1750.00	238.05	µg/L
	1,2-Dichloroethane	200.00 U	400.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	300.00	300.00	300.00		µg/L
	Chloroform	200.00 U	400.00 U			µg/L
	Freon 113	480.00	600.00	530.00	60.00	µg/L
X749-07G	Trichloroethene	4700.00	5800.00	5100.00	522.81	µg/L
	1,1,1-Trichloroethane	1200.00	1200.00	1200.00	0.00	µg/L
	1,1-Dichloroethane	610.00	1600.00	990.00	533.57	µg/L
	1,1-Dichloroethene	600.00	680.00	640.00	40.00	µg/L
	1,2-Dichloroethane	260.00	620.00	393.33	197.32	µg/L
	1,2-Dichloroethenes (cis & t)	200.00 U	200.00 U			µg/L
	Chloroform	100.00 U	200.00 U			µg/L
X749-08G	Freon 113	200.00 U	240.00	216.67	20.82	µg/L
	Trichloroethene	1300.00	1800.00	1533.33	251.66	µg/L
	1,1,1-Trichloroethane	700.00	820.00	740.00	48.99	µg/L
	1,1-Dichloroethane	25.00	100.00 U	56.00	40.22	µg/L
	1,1-Dichloroethene	100.00 U	540.00	420.00	181.52	µg/L
	1,2-Dichloroethane	20.00 U	100.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	51.00	51.00	51.00		µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-08G	Chloroform	20.00 U	100.00 U			µg/L
	Freon 113	100.00	110.00	106.00	5.48	µg/L
	Trichloroethene	460.00	530.00	494.00	32.09	µg/L
X749-09G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	22.00	27.00	24.25	2.06	µg/L
	1,1-Dichloroethene	8.00	11.00	8.75	1.50	µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	4.00	4.00	4.00		µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-10G	1,1,1-Trichloroethane	33.00	270.00	161.00	119.64	µg/L
	1,1-Dichloroethane	9.00	200.00 U	78.33	105.71	µg/L
	1,1-Dichloroethene	9.00	200.00 U	96.67	96.46	µg/L
	1,2-Dichloroethane	2.00 U	200.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	10.00	10.00	10.00		µg/L
	Chloroform	2.00 U	200.00 U			µg/L
	Freon 113	4.00	200.00 U			µg/L
	Trichloroethene	81.00	340.00	230.33	133.98	µg/L
X749-13G	1,1,1-Trichloroethane	120.00	140.00	130.00	10.00	µg/L
	1,1-Dichloroethane	6.00	100.00	42.00	50.71	µg/L
	1,1-Dichloroethene	20.00 U	120.00	80.00	52.92	µg/L
	1,2-Dichloroethane	4.00 U	20.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	20.00 U	20.00 U			µg/L
	Chloroform	7.00	20.00 U			µg/L
	Freon 113	35.00	46.00	41.33	5.69	µg/L
	Trichloroethene	170.00	200.00	183.33	15.28	µg/L
X749-21G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-21G	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-23G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
X749-24G	Trichloroethene	2.00 U	2.00 U			µg/L
	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
X749-25G	Trichloroethene	2.00 U	2.00 U			µg/L
	1,1,1-Trichloroethane	86.00	110.00	94.00	13.86	µg/L
	1,1-Dichloroethane	3.00	4.00	3.67	0.58	µg/L
	1,1-Dichloroethene	65.00	86.00	72.67	11.59	µg/L
	1,2-Dichloroethane	2.00 U	4.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	9.00	9.00	9.00		µg/L
	Chloroform	3.00	4.00	3.67	0.58	µg/L
	Freon 113	20.00	28.00	23.33	4.16	µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-25G	Trichloroethene	94.00	120.00	104.33	13.80	µg/L
X749-26G	1,1,1-Trichloroethane	130.00	200.00 U	147.50	35.00	µg/L
	1,1-Dichloroethane	220.00	300.00	240.00	40.00	µg/L
	1,1-Dichloroethene	94.00	200.00 U	120.50	53.00	µg/L
	1,2-Dichloroethane	93.00	200.00 U	119.75	53.50	µg/L
	Chloroform	20.00 U	200.00 U			µg/L
	Freon 113	48.00	200.00 U	86.00	76.00	µg/L
	Trichloroethene	320.00	390.00	337.50	35.00	µg/L
X749-32G	1,1,1-Trichloroethane	1100.00	1400.00	1200.00	173.21	µg/L
	1,1-Dichloroethane	320.00	390.00	343.33	40.41	µg/L
	1,1-Dichloroethene	780.00	890.00	816.67	63.51	µg/L
	1,2-Dichloroethane	100.00 U	200.00 U			µg/L
	Chloroform	100.00 U	200.00 U			µg/L
	Freon 113	290.00	340.00	306.67	28.87	µg/L
	Trichloroethene	1400.00	1600.00	1466.67	115.47	µg/L
X749-36G	1,1,1-Trichloroethane	580.00	660.00	633.33	46.19	µg/L
	1,1-Dichloroethane	130.00	140.00	136.67	5.77	µg/L
	1,1-Dichloroethene	470.00	490.00	483.33	11.55	µg/L
	1,2-Dichloroethane	20.00 U	20.00 U			µg/L
	Chloroform	20.00 U	20.00 U			µg/L
	Freon 113	94.00	110.00	104.67	9.24	µg/L
	Trichloroethene	280.00	360.00	333.33	46.19	µg/L
X749-37G	1,1,1-Trichloroethane	420.00	510.00	453.33	49.33	µg/L
	1,1-Dichloroethane	110.00	130.00	116.67	11.55	µg/L
	1,1-Dichloroethene	360.00	420.00	383.33	32.15	µg/L
	1,2-Dichloroethane	20.00 U	20.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	20.00 U	20.00 U			µg/L
	Chloroform	20.00 U	20.00 U			µg/L

DOE/PORTS

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-37G	Freon 113	68.00	84.00	74.67	8.33	µg/L
	Trichloroethene	320.00	390.00	346.67	37.86	µg/L
X749-43G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-44G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-45G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	3.00			µg/L
	Trichloroethene	4.00	8.00	5.33	2.31	µg/L
X749-PZ02G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L

Table 3.3. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-PZ02G	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-PZ03G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X749-PZ04G	1,1,1-Trichloroethane	18.00	21.00	19.25	1.26	µg/L
	1,1-Dichloroethane	35.00	44.00	38.75	3.77	µg/L
	1,1-Dichloroethene	19.00	22.00	19.75	1.50	µg/L
	1,2-Dichloroethane	11.00	12.00	11.25	0.50	µg/L
	1,2-Dichloroethenes (cis & t)	11.00	11.00	11.00		µg/L
	Chloroform	6.00	6.00	6.00	0.00	µg/L
	Freon 113	46.00	51.00	47.75	2.36	µg/L
	Trichloroethene	130.00	150.00	135.00	10.00	µg/L
X749-PZ05G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	1,2-Dichloroethane	2.00 U	2.00 U			µg/L
	1,2-Dichloroethenes (cis & t)	2.00 U	2.00 U			µg/L
	Chloroform	2.00 U	2.00 U			µg/L
	Freon 113	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

Table 3.4. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-749

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
Berea Wells (cont)						
X749-14B	Gross Alpha	4.00 U	5.00	4.86	0.38	pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-50B	Gross Alpha	9.50 U	25.00	2.18	1.52	pCi/L
	Gross Beta	12.00 U	25.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00	4.20			µg/L
X749-51B	Gross Alpha	5.00	7.00	6.00	1.15	pCi/L
	Gross Beta	9.00	14.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-54B	Gross Alpha	10.00	75.00	34.33	35.44	pCi/L
	Gross Beta	12.00	35.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-60B	Gross Alpha	18.00	23.00	19.67	2.89	pCi/L
	Gross Beta	12.00	17.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.30	1.50			µg/L
X749-64B	Gross Alpha	24.00 U	42.00	33.67	9.07	pCi/L
	Gross Beta	22.00	45.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.50	2.80			µg/L
Gallia Wells						
X120-08G	Gross Alpha	3.00 U	4.00	1.90	0.69	pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.30	2.50			µg/L

Table 3.4. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-04G	Gross Alpha	7.00 U	9.00 U			pCi/L
	Gross Beta	8.00 U	8.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-06G	Gross Alpha	4.00 U	7.00			pCi/L
	Gross Beta	55.00	88.00	72.00	18.49	pCi/L
	Technetium	64.00	104.00	87.75	19.74	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-07G	Gross Alpha	7.00	12.00	9.00	2.65	pCi/L
	Gross Beta	152.00	305.00	208.67	83.86	pCi/L
	Technetium	214.00	407.00	281.00	109.19	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-08G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	112.00	133.00	117.40	8.85	pCi/L
	Technetium	119.00	170.00	132.00	21.53	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-09G	Gross Alpha	5.00 U	26.00			pCi/L
	Gross Beta	9.00 U	11.20 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-10G	Gross Alpha	6.00 U	9.00 U			pCi/L
	Gross Beta	8.00 U	10.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	2.20	4.50	3.30	1.15	µg/L
X749-13G	Gross Alpha	4.00 U	9.00			pCi/L
	Gross Beta	76.00	107.00	94.33	16.26	pCi/L
	Technetium	126.00	151.00	140.33	12.90	pCi/L
	Uranium	1.00 U	1.00 U			µg/L

DOE/PORTS

Table 3.4. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-21G	Gross Alpha	3.00 U	4.00 U			pCi/L
	Gross Beta	9.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.80	1.43	0.40	µg/L
X749-23G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	9.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00			µg/L
X749-24G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-25G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	44.00	89.00	71.67	24.21	pCi/L
	Technetium	82.00	122.00	96.67	22.03	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-26G	Gross Alpha	3.90 U	4.00 U			pCi/L
	Gross Beta	101.00	106.00	102.25	2.50	pCi/L
	Technetium	120.00	141.00	125.25	10.50	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-32G	Gross Alpha	4.00 U	4.00	4.00	0.00	pCi/L
	Gross Beta	144.00	154.00	150.67	5.77	pCi/L
	Technetium	174.00	186.00	178.00	6.93	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-36G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	16.00	18.00	16.67	1.15	pCi/L
	Technetium	23.00	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L

Table 3.4. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-37G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	21.00	27.00	23.67	3.06	pCi/L
	Technetium	22.00	42.00	29.33	11.02	pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-43G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	8.00 U	9.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	2.80	1.97	0.91	µg/L
X749-44G	Gross Alpha	4.00 U	6.00			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.20			µg/L
X749-45G	Gross Alpha	4.00 U	6.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.70	1.33	0.35	µg/L
X749-PZ02G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X749-PZ03G	Gross Alpha	3.00 U	4.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00			µg/L
X749-PZ04G	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	75.00	89.00	78.75	6.85	pCi/L
	Technetium	101.00	134.00	114.75	13.84	pCi/L
	Uranium	1.00 U	1.00 U			µg/L

DOE/PORTS

Table 3.4. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-749 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X749-PZ05G	Gross Alpha	5.00 U	9.00	6.33	2.31	pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	5.60	9.10	6.83	1.97	µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample.
Mean and standard deviation functions not calculated if at least 50% of the results for the parameter
were below detection.

Table 3.5. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-231B

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X231B-24B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-32B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-33B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-34B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
<i>Gallia Wells</i>						
X231B-02G	1,1,1-Trichloroethane	82.00	200.00 U			µg/L
	1,1-Dichloroethene	48.00	200.00 U			µg/L
	Trichloroethene	1600.00	2400.00	1966.67	404.15	µg/L
X231B-03G	1,1,1-Trichloroethane	120.00	200.00 U	153.33	41.63	µg/L
	1,1-Dichloroethene	110.00	200.00 U	143.33	49.33	µg/L
	Trichloroethene	600.00	760.00	673.33	80.83	µg/L
X231B-04G	1,1,1-Trichloroethane	20.00 U	20.00 U			µg/L
	1,1-Dichloroethene	20.00 U	20.00 U			µg/L
	Trichloroethene	360.00	610.00	496.67	126.62	µg/L
X231B-06G	1,1,1-Trichloroethane	160.00	180.00	170.00	10.00	µg/L
	1,1-Dichloroethene	20.00 U	130.00	83.33	56.86	µg/L
	Trichloroethene	160.00	240.00	193.33	41.63	µg/L
X231B-14G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	41.00	49.00	44.80	3.63	µg/L

DOE/PORTS

Table 3.5. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-231B (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X231B-15G	1,1,1-Trichloroethane	2.00 U	2.00 U	59.8	31.36	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	5.00	85.00			µg/L
X231B-16G	1,1,1-Trichloroethane	2.00 U	2.00 U	23.40	1.82	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-23G	1,1,1-Trichloroethane	2.00 U	2.00 U	23.40	1.82	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	21.00	26.00			µg/L
X231B-27G	1,1,1-Trichloroethane	2.00 U	2.00 U	23.40	1.82	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-28G	1,1,1-Trichloroethane	2.00 U	2.00 U	23.40	1.82	µg/L
	1,1-Dichloroethene	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X231B-37G	1,1,1-Trichloroethane	2.00 U	2.00 U	8.60	0.89	µg/L
	1,1-Dichloroethene	8.00	10.00			µg/L
	Trichloroethene	64.00	70.00			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample.
Mean and standard deviation functions not calculated if at least 50% of the results for the parameter
were below detection.

Table 3.6. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-231B

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X231B-24B	Gross Alpha	13.00	17.00 U			pCi/L
	Gross Beta	12.00 U	21.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00	1.50	1.31	0.23	µg/L
X231B-32B	Gross Alpha	13.00	23.00 U			pCi/L
	Gross Beta	16.70 U	32.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	3.20			µg/L
X231B-33B	Gross Alpha	10.00 U	11.00			pCi/L
	Gross Beta	12.00 U	17.00	2.71	1.89	pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-34B	Gross Alpha	19.00	28.00	25.43	3.55	pCi/L
	Gross Beta	9.00	18.00	13.57	2.70	pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.50	3.20	2.76	0.65	µg/L
<i>Gallia Wells</i>						
X231B-02G	Gross Alpha	5.00 U	5.00U			pCi/L
	Gross Beta	11.00 U	14.00	12.00	1.73	pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-03G	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-04G	Gross Alpha	6.00 U	29.00			pCi/L
	Gross Beta	11.00 U	19.00	16.33	4.62	pCi/L

Table 3.6. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-231B (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X231B-04G	Technetium	22.00 U	27.00			pCi/L
	Uranium	2.40	4.90	3.53	1.27	µg/L
X231B-06G	Gross Alpha	8.00	27.00	16.67	9.61	pCi/L
	Gross Beta	162.00	441.00	267.33	151.53	pCi/L
	Technetium	229.00	551.00	345.00	178.87	pCi/L
	Uranium	2.20	4.60	3.00	1.39	µg/L
X231B-14G	Gross Alpha	3.90 U	4.00 U			pCi/L
	Gross Beta	8.00 U	26.00			pCi/L
	Technetium	22.00 U	33.00			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-15G	Gross Alpha	8.00 U	9.00 U			pCi/L
	Gross Beta	8.00 U	12.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-16G	Gross Alpha	5.00 U	21.00 U			pCi/L
	Gross Beta	8.80 U	32.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X231B-23G	Gross Alpha	6.00	9.00 U			pCi/L
	Gross Beta	8.00 U	15.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	2.50			µg/L
X231B-27G	Gross Alpha	3.90 U	4.00 U			pCi/L
	Gross Beta	8.00 U	8.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.20	1.11	0.11	µg/L
X231B-28G	Gross Alpha	8.80 U	9.00 U			pCi/L
	Gross Beta	8.00 U	12.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L

Table 3.6. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-231B (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X231B-28G	Uranium	1.00 U	1.00 U			µg/L
X231B-37G	Gross Alpha	5.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	35.00			pCi/L
	Uranium	1.00 U	1.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

DOE/PORTS

Table 3.7. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-616

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X616-19B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-20B	1,1,1-Trichloroethane	2.00 U	5.00 U			µg/L
	Trichloroethene	15.00	18.00	16.33	1.53	µg/L
X616-24B	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	3.00			µg/L
X616-28B	1,1,1-Trichloroethane	2.00 U	4.00			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
<i>Gallia Wells</i>						
X616-05G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-09G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00	2.00	2.00	0.00	µg/L
X616-10G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-13G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-14G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-16G	1,1,1-Trichloroethane	2.00 U	5.00 U			µg/L
	Trichloroethene	4.00	5.00	4.67	0.58	µg/L
X616-17G	1,1,1-Trichloroethane	2.00 U	5.00 U			µg/L
	Trichloroethene	2.00 U	5.00 U			µg/L
X616-21G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-22G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
X616-25G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L

Table 3.7. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at X-616 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X616-25G	Trichloroethene	2.00 U	2.00 U			µg/L
X616-26G	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

**Table 3.8. DOE/PORTS groundwater monitoring for 1995:
results for dissolved and total chromium at X-616**

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X616-19B	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	25.20	25.80 U			µg/L
X616-20B	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	7.10	25.80 U			µg/L
X616-24B	Chromium (Dissolved)	7.10	25.80 U			µg/L
	Chromium (Total)	14.30	25.80 U			µg/L
X616-28B	Chromium (Dissolved)	3.00	25.80 U			µg/L
	Chromium (Total)	2.20 U	25.80 U			µg/L
<i>Gallia Wells</i>						
X616-05G	Chromium (Dissolved)	124.00	236.00	180.00	79.20	µg/L
	Chromium (Total)	266.00	3840.00	2053.00	2527.20	µg/L
X616-09G	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	2.40	25.80 U			µg/L
X616-10G	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	2.20 U	25.80 U			µg/L
X616-13G	Chromium (Dissolved)	4.40 U	25.80 U			µg/L
	Chromium (Total)	2.20 U	25.80 U			µg/L
X616-14G	Chromium (Dissolved)	4.40 U	125.00 U			µg/L
	Chromium (Total)	4.40 U	125.00 U			µg/L
X616-16G	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	2.20 U	60.00			µg/L
X616-17G	Chromium (Dissolved)	2.20 U	25.80 U			µg/L
	Chromium (Total)	48.40	64.60	56.50	11.46	µg/L
X616-21G	Chromium (Dissolved)	3.50	12.50 U			µg/L
	Chromium (Total)	7.10	12.50 U			µg/L
X616-22G	Chromium (Dissolved)	5.50	12.50 U			µg/L
	Chromium (Total)	11.20	18.70	14.95	5.30	µg/L
X616-25G	Chromium (Dissolved)	2.20 U	22.40 U			µg/L
	Chromium (Total)	21.40	76.20	48.80	38.75	µg/L

**Table 3.8. DOE/PORTS groundwater monitoring for 1995:
results for dissolved and total chromium at X-616 (continued)**

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X616-26G	Chromium (Dissolved)	4.40 U	4.40 U			µg/L
	Chromium (Total)	4.40 U	4.40 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

**Table 3.9. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at surface water monitoring locations**

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
BRCSW01	Gross Alpha	5.00 U	11.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.70	1.27	0.34	µg/L
BRCSW02	Gross Alpha	6.00 U	11.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.90	1.47	0.38	µg/L
EDDSW01	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	1.50	1.22	0.22	µg/L
LBCSW01	Gross Alpha	4.00 U	7.00	5.50	1.29	pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.10	1.60	1.40	0.22	µg/L
LBCSW02	Gross Alpha	4.00 U	5.00	4.75	0.50	pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00	1.90	1.48	0.40	µg/L
LBCSW03	Gross Alpha	4.00 U	10.00	6.75	2.50	pCi/L
	Gross Beta	8.00 U	11.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.10	2.70	1.85	0.70	µg/L
LBCSW04	Gross Alpha	8.00	10.00	9.00	0.82	pCi/L
	Gross Beta	10.00	18.00	13.00	3.56	pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	2.00	3.90	3.10	0.88	µg/L

**Table 3.9. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at surface water monitoring locations (continued)**

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
NHPSW01	Gross Alpha	5.00 U	8.00	6.25	1.50	pCi/L
	Gross Beta	8.00 U	9.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	4.10	8.70	7.10	2.08	µg/L
UNDSW01	Gross Alpha	5.00 U	6.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.90	2.10	2.00	0.08	µg/L
UNDSW02	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	11.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.20	2.30	1.73	0.56	µg/L
WDD-SW01	Gross Alpha	4.00 U	5.00			pCi/L
	Gross Beta	8.00 U	9.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	2.10	3.60	2.78	0.61	µg/L
WDD-SW02	Gross Alpha	5.00 U	8.00 U			pCi/L
	Gross Beta	8.00 U	12.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	1.00 U	3.40			µg/L
WDD-SW03	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	8.00 U	9.00 U			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	2.20	5.20	3.50	1.12	µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

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Table 3.10. DOE/PORTS groundwater monitoring for 1995:
results for volatile organic compounds at surface water monitoring locations

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
BRCSW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
BRCSW02	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
EDDSW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
LBCSW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
LBCSW02	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
LBCSW03	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
LBCSW04	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
NHPSW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
UNDSW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	3.00	5.00	4.00	0.82	µg/L
UNDSW02	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
WDD-SW01	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
WDD-SW02	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L
WDD-SW03	1,1,1-Trichloroethane	2.00 U	2.00 U			µg/L
	Trichloroethene	2.00 U	2.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

Table 3.11. DOE/PORTS groundwater monitoring for 1995:
results for trichloroethene at X-701C

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells</i>						
X701-68G	Trichloroethene	44.00	47.00	45.50	2.12	µg/L
X701-69G	Trichloroethene	1400.00	1800.00	1600.00	282.84	µg/L
X701-70G	Trichloroethene	250.00	280.00	272.50	15.00	µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

DOE/PORTS**Table 3.12. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-701C**

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells</i>						
X701-68G	Gross Alpha	5.00 U	11.00 U			pCi/L
	Gross Beta	12.00	18.00	15.00	4.24	pCi/L
	Technetium	22.00 U	25.00			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X701-69G	Gross Alpha	11.00 U	17.00 U			pCi/L
	Gross Beta	17.00 U	21.00			pCi/L
	Technetium	22.00 U	22.00 U			pCi/L
	Uranium	5.20	6.10	5.65	0.64	µg/L
X701-70G	Gross Alpha	5.00 U	6.00 U			pCi/L
	Gross Beta	35.00	43.00	39.00	5.66	pCi/L
	Technetium	42.00	43.00	42.50	0.71	pCi/L
	Uranium	2.70	3.00	2.85	0.21	µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

Table 3.13. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-735

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X735-16B	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	21.00 U	21.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-17B	Gross Alpha	5.00 U	5.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	24.00 U	24.00 U			pCi/L
	Uranium	1.90	1.90	1.90		µg/L
X735-18B	Gross Alpha	17.00	17.00	17.00		pCi/L
	Gross Beta	16.00	16.00	16.00		pCi/L
	Technetium	24.00 U	24.00 U			pCi/L
	Uranium	3.30	3.30	3.30		µg/L
X735-20B	Gross Alpha	15.00	15.00	15.00		pCi/L
	Gross Beta	18.00	18.00	18.00		pCi/L
	Technetium	24.00 U	24.00 U			pCi/L
	Uranium	9.50	9.50	9.50		µg/L
<i>Gallia Wells</i>						
X735-01GA	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-02GA	Gross Alpha	3.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-03GA	Gross Alpha	4.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L

Table 3.13. DOE/PORTS groundwater monitoring for 1995:
results for radionuclide parameters at X-735 (continued)

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Gallia Wells (cont)</i>						
X735-03GA	Uranium	1.00 U	1.00 U			µg/L
X735-04GA	Gross Alpha	3.00 U	4.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-05GA	Gross Alpha	4.00 U	5.00 U			pCi/L
	Gross Beta	11.00 U	11.00 U			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-06GA	Gross Alpha	4.00	5.00	4.50	0.71	pCi/L
	Gross Beta	11.00 U	17.00			pCi/L
	Technetium	22.00 U	25.00			pCi/L
	Uranium	1.00 U	1.00 U			µg/L
X735-13GA	Gross Alpha	5.00	12.00	8.50	4.95	pCi/L
	Gross Beta	11.00 U	15.00			pCi/L
	Technetium	22.00 U	24.00 U			pCi/L
	Uranium	4.90	9.20	7.05	3.04	µg/L
X735-19G	Gross Alpha	13.00	13.00	13.00		pCi/L
	Gross Beta	13.00	13.00	13.00		pCi/L
	Technetium	24.00 U	24.00 U			pCi/L
	Uranium	18.80	18.80	18.80		µg/L
X735-21G	Gross Alpha	22.00	22.00	22.00		pCi/L
	Gross Beta	14.00	14.00	14.00		pCi/L
	Technetium	24.00 U	24.00 U			pCi/L
	Uranium	5.60	5.60	5.60		µg/L

Data Qualifer (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.

Table 3.14. DOE/PORTS groundwater monitoring for 1995:
results for trichloroethene at X-735

Well	Parameter	Min	Max	Mean	Standard Deviation	Units
<i>Berea Wells</i>						
X735-16B	Trichloroethene	2.00 U	2.00 U			µg/L
X735-17B	Trichloroethene	2.00 U	2.00 U			µg/L
X735-18B	Trichloroethene	2.00 U	2.00 U			µg/L
X735-20B	Trichloroethene	2.00 U	2.00 U			µg/L
<i>Gallia Wells</i>						
X735-01GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-02GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-03GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-04GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-05GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-06GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-13GA	Trichloroethene	2.00 U	2.00 U			µg/L
X735-19G	Trichloroethene	2.00 U	2.00 U			µg/L
X735-21G	Trichloroethene	2.00 U	2.00 U			µg/L

Data Qualifier (U)--Parameter not detected. Result is attainable detection limit for the sample. Mean and standard deviation functions not calculated if at least 50% of the results for the parameter were below detection.