WSRC-RP-89-59-1
Volume II
Figures and Data Tables

SAVANNAH RIVER SITE ENVIRONMENTAL REPORT FOR 1988

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

SAFETY • RESPONSIBILITY • SECURITY

SRS

SAVANNAH RIVER SITE

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY UNDER CONTROL CONTRACT NO. DE-AC09-88SR18035

WSRC-RP-89-59-1
Volume II
Figures and
Data Tables

Savannah River Site

Environmental Report

for 1988 (U)

By

H. Allen Davis
Donna K. Martin
James L. Todd

Co-edited by:

Carol L. Cummins
Craig S. Hetrick
Dennis A. Stevenson

Derivative Classifier: Dennis A Stevenson
Dennis A. Stevenson, Manager, Environmental Monitoring

Prepared for the United States Department of Energy by the Environmental Monitoring Section of the Environmental and Health Protection Department,
Westinghouse Savannah River Company
Savannah River Site, Aiken, SC

ACKNOWLEDGMENTS

The authors acknowledge with appreciation the efforts of a number of individuals and groups who contributed technical data and oversite in the preparation and reporting of environmental data.

Custodians of groundwater sites, SRS
Environmental Monitoring Section, Environmental and Health Protection Department, SRS
Environmental Technology, Savannah River Laboratory, SRS
Health Protection Operations, Environmental and Health Protection Department, SRS
Laboratories Section, SRS
Power Technology, SRS
Savannah River Ecology Laboratory

Envirodyne Engineers, Inc.
Environmental and Chemical Sciences/Normandeau Associates Inc., New Ellenton, SC
Exploration Software, Athens, GA
James H. Carr & Associates, St. Louis, MO
United States Geological Survey
Weston Analytic, Lionville, PA
Zedek Corporation, Durham, NC

Special appreciation is given to the following personnel who were instrumental in the preparation and review of the data tables for this report:

Eric B. Andersen
Carol L. Cummins
David A. Filler
Craig S. Hetrick
Moheb Khalil
Aparajita S. Morrison
Dennis A. Stevenson
William M. Fay, Exploration Software
Michael R. Rainer, Exploration Software
Marilynn A. Harper, Exploration Software
John T. Marsh, Exploration Software

Contents

Tables

Chapter 4

Figures

Tables

Chapter 5

Figures

Tables

Chapter 6

Figures

Tables

Chapter 7

Tables

Chapter 8

Figures

Tables

Chapter 9

Figures

Tables

Chapter 10

Tables

PART III - ENVIRONMENTAL MANAGEMENT AND RESEARCH PROGRAMS

Chapter 14

Figures

Tables

Introduction

This volume of *Savannah River Site Environmental Report for 1988* (WSRC-RP-89-59-1) contains the figures and tables referenced in Volume I. The figures contain graphic illustrations of sample locations and/or data. The tables contain summaries of the following types of data:

- Federal and State standards and guides applicable to SRS operations
- concentrations of radioactivity in environmental media
- the quantity of radioactivity released to the environment from SRS operations
- offsite radiation dose commitments from SRS operations
- measurements of physical properties, chemicals, and metals concentrations in environmental media
- interlaboratory comparison of analytical results

The figures and tables in this report contain information about the routine environmental monitoring program at SRS unless otherwise indicated. No attempt has been made to include all data from environmental research programs. Variations in content from year to year reflect changes in the routine environmental monitoring program or the inability to obtain samples from

Executive Summary

TABLE ES-1
INDIVIDUAL AND COLLECTIVE (POPULATION) DOSES - 1988

Location/Source	Calculated Individual Dose, mrem[a]		Size	Calculated Collective Dose person-rem[a]
SRS Boundary	Average	Maximum		
SRS Atmospheric Releases	0.18	0.46[b]	-	-
SRS Liquid Releases	-	0.79[c]	-	-
Within 80 km of SRS				
Dose From Atmospheric Releases	0.04[d]	-	555,100	21.0
Water Treatment Plants Downstream of SRS				
Beaufort-Jasper Plant	0.07	0.13	51,000	3.0
Port Wentworth Plant	0.06	0.12	20,000	1.3
River Fish and Recreation				
Consuming River Fish	-	-	555,100	1.9
Recreation	-	-	555,100	<0.1
SRS Releases Total				27.2

Other Sources[g]	Annual Dose,mrem	Collective Dose, person-rem	
Natural Radioactivity[e]			
Cosmic Radiation	28		
External Terrestrial	28		
Internal	39		
Radon in Homes	200		
		555,100(within 80 km)	164,000
		71,000(water plants)	20,900
Subtotal (Natural)	295		185,000
Medical Radiation[e,f,g]	53		
		555,100(within 80 km)	29,400
		71,000(water plants)	3,800
Subtotal (Medical)	53		33,200
Consumer Products[g]	10		
		555,100 (within 80 km)	5,600
		71,000 (water plants)	700
Subtotal (Consumer Products)	10		6,300
Weapons Test Fallout	<1.0		
		555,100(within 80 km)	600
		71,000(water plants)	100
Subtotal (weapons Tests)	<1.0		700
Other	<1.0		
		555,100 (within 80 km)	600
		71,000 (water plants)	100
Subtotal (Other)	<1.0		700
Other Sources Total	360		225,000

---

[a] Committed effective dose equivalent.

[b] Based on a hypothetical individual with maximum dietary habits located on the plant perimeter at locations of highest exposure. No such individual is known to exist.

[c] Based on a hypothetical individual with maximum dietary habits who lives on the shore of the Savannah River. No such individual is known to exist.

[d] Based on atmospheric dispersion of SRS releases as described in Table 2-2.

[e] Average values for the United States.

[f] Dose is prorated over the U. S. population. This is a means of arriving at an average dose, which when multiplied by the population size, produces an estimate of population exposure. It does not mean that every member of the population received radiation exposure from these sources.

[g] NCRP Report No. 93.

- Not applicable.

Part I

Environmental Monitoring Methods

Chapter 1

Sample Collection, Analytical Procedures, and Data Analysis

TABLE 1-1
SAMPLE MEDIA DATA

Sample Matrix or Media	Sample Size	Representative Aliquot
Gross Alpha:		
Water	1 L	1 L
Vegetation	1-2 kg	2 g
Rain (collection pan)	0.37 m^2	0.093 m^2 (1/4 total sample)
Air	whole filter	800 m^3
Nonvolatile Beta:		
Water	1 L	1 L
Vegetation	1-2 kg	2 g
Air	whole filter	800 m^3
Strontium-89,90:		
River water	7 L	7 L
Rain	0.37 m^2	0.031 m^2 (1/12 total sample)
Streams	1 L	1 L
Air composites		
plant perimeter	20,000 m^3	8,000 m^3
25-mile radius	18,000 m^3	7,200 m^3
100-mile radius	6,000 m^3	2,400 m^3
Strontium-90:		
River water	7 L	7 L
Streams	6 L	3 L (duplicates)
Milk	0.5 L	0.5 L
Food	20 g	20 g
Rain	0.37 m^2	0.031 m^2 (1/12 total sample)
Chemical Cesium:		
Streams	1 L	1 L

TABLE 1-2
GAS-FLOW PROPORTIONAL COUNTING DATA

Lower Limits of Detection (LLD) for Gas-Flow Proportional Counters

Analysis	Counting Interval (minutes)	LLD (pCi)	Yield ± 1 sigma
Gross Alpha	20	0.57	100%[a]
Nonvolatile Beta	20	1.60	100%[a]
Chemical Cesium	20	2.22	72% ± 31%
Strontium-89,90	20	2.05	62% ± 15%
Strontium-90	20	1.62	78% ± 12%

[a] No correction for source self-absorption is made. 100% recovery (yield) in chemical preparation assumed.

TABLE 1-3
LIQUID SCINTILLATION COUNTING DATA

Lower Limits of Detection (LLD)
Liquid Scintillation Analyses for Weak Beta Emitters

Nuclide	Counting Interval (minutes)	Routine Aliquot	Average % Recovery	LLD (pCi/mL)
Tritium ("short count")[a]	20	5 mL	100%	1.09
Tritium ("long count")[b]	150	5 mL	100%	0.40
Tritium ("long count")[b]	300	5 mL	100%	0.28
Phosphorus-32	20	25 mL	81%	0.17
Sulfur-35	20	200 mL	87%	0.02
Promethium-147	20	100 mL	70% (approx.)	0.05

[a] Routine environmental samples (e.g. stream samples) are analyzed for tritium using a 20-minute short count

[b] Environmental samples such as air silica gel and rainwater are counted once for 150 minutes; all drinking water, river water, milk, and foodstuffs are counted twice, for a total of 300 minutes

TABLE 1-4
ALPHA SPECTROMETER COUNTING DATA

Alpha Spectrometer Semiconductor Detectors

Analyses for plutonium in environmental samples are performed in batches on multiple silicon surface barrier detector systems. The counting process is identical for each sample, but due to differences in the methods for preparing the samples for counting, and variations in actual collected sample aliquots, Lower Limit of Detection (LLD) values are not directly comparable between sample types. The table below presents some typical (averages of actual) LLD values for several sample types.

Sample Type	Nuclide	Counting Interval (minutes)	Routine Aliquot	Lower Limit of Detection
Air Filters:				
Single Area Stations (F- and H- Areas, Burial Ground North and South)				
	Pu-238	5000	--varies	25 aCi/m^3
	Pu-239	5000	--varies	30 aCi/m^3
Plant Perimeter composite				
	Pu-238	5000	--varies	1 aCi/m^3
	Pu-239	5000	--varies	1 aCi/m^3
25-Mile-Radius composite				
	Pu-238	5000	--varies	2 aCi/m^3
	Pu-239	5000	--varies	3 aCi/m^3
100-Mile-Radius composite				
	Pu-238	5000	--varies	4 aCi/m^3
	Pu-239	5000	--varies	5 aCi/m^3
Rain Ion Columns:				
	Pu-238	5000	0.031 m^2	0.3 pCi/m^2
	Pu-239	5000	0.031 m^2	0.3 pCi/m^2
River Water:				
	Pu-238	5000	6 L	0.67 fCi/L
	Pu-239	5000	6 L	0.67 fCi/L
Soil and Sediment:				
	Pu-238	5000	10 g	6 fCi/g
	Pu-239	5000	10 g	6 fCi/g
Foodstuff:				
	Pu-238	5000	100 g	0.6 fCi/g
	Pu-239	5000	100 g	0.6 fCi/g

NOTE: Several sample types are routinely prepared with replicates, but no statistical consideration is given to the accompanying improvement in the LLD.

TABLE 1-5
LOWER LIMITS OF DETECTION (LLD) FOR HPGE GAMMA SPECTROMETRY SYSTEMS FOR STREAM ION COLUMNS

Routine sample aliquot: Varies between 3 L and 6 L
Routine counting interval: 5,000 seconds

Nuclide	LLD (pCi/total sample)
Be-7	140.
K-40	210.
Cr-51	150.
Mn-54	16.
Mn-56	21.
Co-57	12.
Co-58	16.
Co-60	17.
Zn-65	34.
Se-75	17.
Y-88	11.
Nb-95	15.
Zr-95	28.
Ru-103	16.
Ru-106	140.
Sb-124	15.
Sb-125	44.
I-131	17.
Te-132	14.
I-133	15.
Cs-134	16.
Cs-137	17.
Ba-140	39.
La-140	13.
Ce-141	22.
Ce-144	98.
Eu-154	25.
Eu-155	42.
Pb-212	38.
Pb-214	41.
U-235	27.

NOTE: The values listed in this table DO NOT include decay-correction factors; the LLDs are indicative only of the minimum counter sensitivities for activities present in the sample at the time of the sample count. Recovery (or yield) for all nuclides is assumed to be 100%. These LLD values are averages derived from actual sample analyses performed using Canberra Industries' APOGEE gamma spectrum analysis sotfware.

TABLE 1-6
LOWER LIMITS OF DETECTION (LLD) FOR HPGE GAMMA SPECTROMETRY SYSTEMS FOR RIVER ION COLUMNS

Nuclide	Counter LLD (pCi/sample)	8 liters LLD (pCi/L)	25 liters LLD (pCi/L)
Be-7	270.	34.	11.
K-40	280.	35.	11.
Cr-51	420.	52.	17.
Mn-54	29.	3.6	1.2
Co-57	16.	2.0	0.64
Co-58	29.	3.7	1.2
Co-60	18.	2.2	0.72
Zn-65	51.	6.4	2.1
Se-75	26.	3.3	1.1
Nb-95	34.	4.3	1.4
Zr-95	49.	6.1	1.9
Ru-103	31.	3.9	1.2
Ru-106	200.	25.	7.9
Sb-124	30.	3.7	1.2
Sb-125	65.	8.1	2.6
I-131	290.	36.	12.
Cs-134	22.	2.7	0.86
Cs-137	23.	2.9	0.91
Ce-141	52.	6.5	2.1
Ce-144	140.	17.	5.5
U-235	34.	4.3	1.4

NOTE: LLD values are reported at the 95% Confidence Level (CL), as calculated by Canberra Industries' APOGEE gamma spectrum analysis software. These LLD values were obtained by averaging actual sample analysis reports, including typical decay-correction factors.

TABLE 1-7
LOWER LIMITS OF DETECTION (LLD) FOR HPGE GAMMA SPECTROMETRY SYSTEMS FOR VEGETATION

Average sample aliquot: 37 g
Routine counting interval: 5,000 seconds

Nuclide	LLD (pCi/g)
Be-7	46.
K-40	15.
Cr-51	330.
Co-57	1.1
Co-58	3.1
Co-60	0.87
Zn-65	2.6
Se-75	2.4
Y-88	1.4
Nb-95	16.
Zr-95	6.0
Ru-103	10.
Ru-106	9.5
Sb-124	3.0
Sb-125	2.8
Cs-134	0.87
Cs-137	1.0
Ce-141	32.
Ce-144	8.0
Pb-212	1.9
Pb-214	2.2
Ra-226	23.
U-235	1.5
U-238	130.

NOTE: These values are averages derived from actual analyses performed on typical composite vegetation samples. The quoted values are decay-corrected to the time of sample collection. Analyses were performed using Canberra Industries' APOGEE gamma spectrum analysis software.

TABLE 1-8
LOWER LIMITS OF DETECTION (LLD) FOR HPGE GAMMA SPECTROMETRY SYSTEMS USING APOGEE SOFTWARE

Routine counting interval: 5,000 seconds

Nuclide	Geometry #5 LLD[a] (pCi/sample)	Geometry #3 LLD[b] (pCi/sample)	Geometry #2 LLD[c] (pCi/sample)
Be-7	270.	140.	140.
K-40	410.	220.	210.
Cr-51	310.	170.	150.
Mn-54	30.	16.	16.
Mn-56	37.	21.	21.
Co-57	31.	14.	12.
Co-58	27.	16.	16.
Co-60	30.	19.	17.
Zn-65	60.	37.	34.
Se-75	43.	20.	17.
Y-88	21.	11.	11.
Nb-95	31.	17.	15.
Zr-95	54.	30.	28.
Ru-103	30.	16.	16.
Ru-106	270.	160.	140.
Sb-124	30.	16.	15.
Sb-125	96.	51.	44.
I-131	37.	18.	17.
Te-132	29.	16.	14.
I-133	31.	16.	15.
Cs-134	29.	18.	16.
Cs-137	34.	21.	17.
Ba-140	78.	40.	39.
La-140	26.	16.	13.
Ce-141	53.	25.	22.
Ce-144	240.	110.	98.
Eu-154	65.	30.	25.
Eu-155	120.	52.	42.
Pb-212	71.	41.	38.
Pb-214	89.	45.	41.
U-235	56.	30.	27.

NOTE: These are average LLD values derived from actual sample analyses performed using Canberra Industries' APOGEE gamma spectrum analysis software, without correction for decay.

[a] Geometry #5 = 500 mL.

[b] Geometry #3 = 1000 mL.

[c] Geometry #2 = 200 mL.

Chapter 2

Methods for Calculating Offsite Radiation Dose

TABLE 2-1
AGE-SPECIFIC PARAMETERS FOR ATMOSPHERIC RELEASES

	Average Individual				Maximum Individual			
Pathway	Infant	Child	Teen	Adult	Infant	Child	Teen	Adult
Fruits, vegetables, and grains (kg/yr)	-	200	240	190	-	520	630	520
Leafy vegetables (kg/yr)	-	10	20	30	-	26	42	64
Milk (L/yr)	170	170	200	110	330	330	400	310
Meat and poultry (kg/yr)	-	37	59	95	-	41	65	110
Inhalation (m^3/yr)	1,400	3,700	8,000	8,000	1,400	3,700	8,000	8,000
External exposure transmission factor	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7

TABLE 2-2
AGE-SPECIFIC PARAMETERS FOR LIQUID RELEASES

Average Individual	Infant	Child	Teen	Adult
Water consumption (L/yr)	260	260	260	370
Fish consumption (kg/yr)[a]	-	3.6	8.5	11.3
Other seafood (kg/yr)[a]	-	0.33	0.75	1.0
Boating (person-hr)[b]	-	-	-	232,000
Swimming (person-hr)[b]	-	-	-	1,080
Shoreline recreation (man-hr)[b]	-	-	-	108,400
Maximum Individual				
Water consumption (L/yr)[c]	260 (330)	260 (510)	260 (510)	370 (730)
Fish consumption (kg/yr)[a]	-	11.2	25.9	34
Other seafood (kg/yr)[a]	-	1.7	3.8	5
Shoreline recreation (hr/yr)[a]	-	14	67	20
Swimming (hr/yr)[a]	-	10	10	10
Boating (hr/yr)[a]	-	60	60	60

[a] Values determined by SRL for the Savannah River.

[b] For population dose calculations. Values developed by SRL are used for the Savannah River.

[c] Values shown in parentheses are those used to calculate dose from maximized water consumption by Beaufort-Jasper and Port Wentworth water treatment plant customers.

TABLE 2-3
DEMOGRAPHIC DATA

Population Group	Population Size	Age Distribution, %		
		Children	Teens	Adults
80-km radius	555,100	18.6	11.1	70.3
Beaufort-Jasper	51,000	21	10	69
Port Wentworth	20,000	-	-	100

TABLE 2-4
METEROLOGICAL DATA FOR 1982 - 1986

USNRC COMPUTER CODE - XOQDOQ, VERSION 2.0 RUN DATA: 87.072 (SRL 6/29/83 VERSION)
38193 WIND STATS H-AREA 60 MIN 62M 82-86 STABILITY FROM SIGMA A

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS A

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.372	0.317	0.356	0.372	0.361	0.249	0.275	0.275	0.296	0.306	0.351	0.374	0.382	0.388	0.335	0.291	5.299
4.00	0.450	0.589	0.751	0.783	0.728	0.573	0.482	0.495	0.521	0.636	0.780	1.008	0.825	0.683	0.466	0.382	10.154
6.00	0.105	0.094	0.126	0.181	0.128	0.136	0.071	0.099	0.110	0.162	0.217	0.241	0.249	0.160	0.134	0.097	2.309
8.00	0.008	0.010	0.003	0.008	0.008	0.003	0.008	0.016	0.013	0.008	0.026	0.010	0.029	0.013	0.018	0.016	0.196
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.003	0.010	0.003	0.000	0.005	0.005	0.000	0.003	0.034
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.000	0.000	0.008
TOTAL	0.93	1.01	1.24	1.34	1.23	0.96	0.84	0.89	0.94	1.12	1.38	1.64	1.49	1.25	0.95	0.79	18.00

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS B

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.055	0.071	0.065	0.094	0.055	0.055	0.058	0.050	0.058	0.097	0.073	0.092	0.094	0.081	0.079	0.073	1.149
4.00	0.178	0.291	0.390	0.450	0.312	0.272	0.230	0.199	0.325	0.278	0.414	0.602	0.419	0.330	0.189	0.141	5.019
6.00	0.115	0.162	0.330	0.278	0.152	0.128	0.102	0.073	0.170	0.217	0.278	0.422	0.377	0.233	0.110	0.086	3.234
8.00	0.016	0.000	0.018	0.010	0.003	0.010	0.010	0.010	0.024	0.026	0.047	0.034	0.097	0.084	0.071	0.016	0.477
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.003	0.013	0.013	0.008	0.010	0.055
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.36	0.52	0.80	0.83	0.52	0.47	0.40	0.33	0.58	0.63	0.81	1.15	1.00	0.74	0.46	0.33	9.93

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS C

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.073	0.076	0.113	0.162	0.065	0.050	0.052	0.055	0.063	0.102	0.126	0.123	0.115	0.144	0.071	0.063	1.453
4.00	0.285	0.539	0.817	0.791	0.479	0.374	0.319	0.356	0.429	0.474	0.597	0.681	0.566	0.458	0.319	0.202	7.687
6.00	0.173	0.471	0.966	0.542	0.306	0.241	0.225	0.223	0.388	0.537	0.490	0.649	0.566	0.424	0.244	0.144	6.588
8.00	0.050	0.079	0.207	0.052	0.037	0.031	0.037	0.034	0.079	0.170	0.157	0.204	0.319	0.275	0.084	0.092	1.906
12.00	0.003	0.003	0.005	0.003	0.000	0.000	0.008	0.010	0.016	0.016	0.018	0.081	0.110	0.126	0.024	0.021	0.442
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
TOTAL	0.58	1.17	2.11	1.55	0.89	0.70	0.64	0.68	0.97	1.30	1.39	1.74	1.68	1.43	0.74	0.52	18.08

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS D

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.068	0.071	0.086	0.063	0.060	0.045	0.031	0.063	0.079	0.089	0.079	0.102	0.183	0.102	0.060	0.047	1.228
4.00	0.380	0.631	1.136	0.940	0.717	0.600	0.513	0.683	0.712	0.717	0.728	0.723	0.751	0.626	0.361	0.322	10.541
6.00	0.304	0.741	1.351	0.785	0.547	0.505	0.644	0.869	0.945	0.859	0.780	0.861	0.961	1.089	0.442	0.244	11.929
8.00	0.110	0.178	0.278	0.123	0.050	0.139	0.186	0.249	0.317	0.270	0.207	0.267	0.432	0.364	0.152	0.065	3.385
12.00	0.031	0.031	0.042	0.000	0.005	0.013	0.058	0.050	0.029	0.050	0.071	0.115	0.202	0.165	0.034	0.013	0.909
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.003	0.003	0.000	0.000	0.008
TOTAL	0.89	1.65	2.89	1.91	1.38	1.30	1.43	1.91	2.08	1.99	1.86	2.07	2.53	2.35	1.05	0.69	28.00

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS E

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.031	0.026	0.050	0.037	0.021	0.037	0.042	0.068	0.047	0.047	0.050	0.050	0.063	0.050	0.042	0.050	0.710
4.00	0.262	0.333	0.503	0.469	0.442	0.437	0.495	0.634	0.529	0.442	0.463	0.372	0.461	0.327	0.304	0.191	6.664
6.00	0.372	0.655	1.089	0.851	0.702	0.552	0.833	1.066	1.060	0.940	1.050	0.827	0.751	0.702	0.385	0.223	12.057
8.00	0.029	0.052	0.058	0.063	0.071	0.055	0.029	0.060	0.141	0.120	0.123	0.152	0.081	0.039	0.018	0.018	1.110
12.00	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.008
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.69	1.07	1.70	1.42	1.24	1.09	1.40	1.83	1.78	1.55	1.69	1.40	1.36	1.12	0.75	0.48	20.55

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS F

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.003	0.008	0.008	0.000	0.003	0.003	0.005	0.042	0.013	0.024	0.010	0.005	0.005	0.003	0.010	0.013	0.154
4.00	0.037	0.063	0.084	0.052	0.050	0.089	0.071	0.126	0.086	0.097	0.073	0.052	0.034	0.045	0.016	0.045	1.019
6.00	0.194	0.372	0.374	0.317	0.204	0.173	0.144	0.293	0.275	0.259	0.301	0.275	0.131	0.063	0.063	0.071	3.508
8.00	0.005	0.037	0.042	0.063	0.058	0.037	0.016	0.031	0.055	0.037	0.034	0.042	0.024	0.008	0.000	0.003	0.490
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.24	0.48	0.51	0.43	0.31	0.30	0.24	0.49	0.43	0.42	0.42	0.37	0.19	0.12	0.09	0.13	5.17

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS G

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
2.00	0.000	0.005	0.016	0.000	0.003	0.010	0.000	0.005	0.013	0.005	0.005	0.005	0.000	0.000	0.000	0.005	0.073
4.00	0.008	0.000	0.003	0.000	0.003	0.003	0.003	0.000	0.005	0.000	0.000	0.003	0.003	0.000	0.000	0.003	0.031
6.00	0.000	0.034	0.029	0.008	0.008	0.005	0.008	0.013	0.003	0.008	0.010	0.005	0.005	0.000	0.000	0.000	0.136
8.00	0.000	0.003	0.003	0.005	0.003	0.003	0.000	0.003	0.000	0.000	0.005	0.003	0.000	0.000	0.000	0.000	0.026
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.01	0.04	0.05	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.00	0.00	0.001	0.27

TABLE 2-5
80-KM-RADIUS POPULATION DISTRIBUTION AROUND SRS

Site Population Data

Dir(miles)	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.	TOTAL
N	0.0	0.0	0.0	0.0	0.0	1.000E+00	3.689E+03	8.272E+03	4.836E+03	1.261E+04	2.941E+04
NNE	0.0	0.0	0.0	0.0	0.0	2.000E+00	6.880E+02	1.521E+03	3.794E+03	9.094E+03	1.510E+04
NE	0.0	0.0	0.0	0.0	0.0	0.0	4.355E+03	2.790E+03	4.797E+03	9.300E+03	2.124E+04
ENE	0.0	0.0	0.0	0.0	0.0	2.000E+00	1.125E+03	5.798E+03	5.096E+03	4.009E+04	5.211E+04
E	0.0	0.0	0.0	0.0	0.0	1.000E+00	7.572E+03	6.334E+03	7.831E+03	4.792E+03	2.653E+04
ESE	0.0	0.0	0.0	0.0	0.0	3.500E+01	1.665E+03	1.946E+03	2.366E+03	2.463E+03	8.475E+03
SE	0.0	0.0	0.0	0.0	0.0	4.400E+01	6.500E+02	5.709E+03	5.723E+03	7.559E+03	1.969E+04
SSE	0.0	0.0	0.0	0.0	0.0	4.200E+01	4.130E+02	1.072E+03	1.071E+03	3.288E+03	5.886E+03
S	0.0	0.0	0.0	0.0	0.0	4.000E+00	5.040E+02	1.337E+03	6.682E+03	3.387E+03	1.191E+04
SSW	0.0	0.0	0.0	0.0	0.0	0.0	1.066E+03	2.139E+03	6.143E+03	2.925E+03	1.227E+04
SW	0.0	0.0	0.0	0.0	0.0	0.0	9.270E+02	1.855E+03	2.031E+03	2.735E+03	7.548E+03
WSW	0.0	0.0	0.0	0.0	0.0	0.0	8.710E+02	7.273E+03	1.480E+03	7.775E+03	1.740E+04
W	0.0	0.0	0.0	0.0	0.0	6.000E+01	6.440E+02	7.705E+03	2.534E+03	7.138E+03	1.808E+04
WNW	0.0	0.0	0.0	0.0	0.0	2.690E+02	2.220E+03	1.029E+05	3.444E+04	9.105E+03	1.490E+05
NW	0.0	0.0	0.0	0.0	0.0	9.700E+01	5.676E+03	8.846E+04	1.487E+04	1.580E+03	1.107E+05
NNW	0.0	0.0	0.0	0.0	0.0	2.610E+02	9.546E+03	2.708E+04	6.341E+03	6.636E+03	4.987E+04
TOTAL	0.0	0.0	0.0	0.0	0.0	8.180E+02	4.161E+04	2.722E+05	1.100E+05	1.305E+05	5.551E+05

DENSITY (/M**2) = 2.87E-05

TABLE 2-6
80-KM-RADIUS MILK, MEAT, AND VEGETATION PRODUCTION

80-km-Radius (50 Miles) Milk Production Around SRS

Site Annual Milk Production, (L)

Dir	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.	TOTAL
N	0.0	0.0	0.0	0.0	0.0	1.639E+04	1.032E+05	1.720E+05	1.410E+06	5.574E+06	7.276E+06
NNE	0.0	0.0	0.0	0.0	0.0	1.306E+04	1.032E+05	1.720E+05	3.676E+05	6.061E+05	1.262E+06
NE	0.0	0.0	0.0	0.0	0.0	5.732E+03	1.217E+05	1.325E+06	2.147E+06	1.388E+06	4.987E+06
ENE	0.0	0.0	0.0	0.0	0.0	1.577E+03	1.802E+05	1.918E+06	4.823E+06	5.458E+06	1.238E+07
E	0.0	0.0	0.0	0.0	0.0	1.848E+03	1.802E+05	1.739E+06	4.145E+06	5.755E+06	1.182E+07
ESE	0.0	0.0	0.0	0.0	0.0	4.507E+01	1.802E+05	9.313E+05	2.839E+06	1.459E+06	5.410E+06
SE	0.0	0.0	0.0	0.0	0.0	0.0	1.212E+05	4.516E+04	1.803E+05	3.996E+05	7.463E+05
SSE	0.0	0.0	0.0	0.0	0.0	0.0	9.384E+04	2.406E+05	3.521E+05	5.643E+05	1.251E+06
S	0.0	0.0	0.0	0.0	0.0	0.0	3.305E+05	5.740E+05	7.696E+05	9.972E+05	2.671E+06
SSW	0.0	0.0	0.0	0.0	0.0	0.0	3.582E+05	1.890E+06	6.404E+06	7.609E+06	1.626E+07
SW	0.0	0.0	0.0	0.0	0.0	7.653E+03	3.871E+05	6.711E+05	3.070E+06	2.835E+06	6.971E+06
WSW	0.0	0.0	0.0	0.0	0.0	2.467E+03	3.528E+05	6.678E+05	1.050E+06	2.398E+06	4.471E+06
W	0.0	0.0	0.0	0.0	0.0	1.161E+04	1.813E+05	3.788E+05	1.009E+06	1.744E+06	3.355E+06
WNW	0.0	0.0	0.0	0.0	0.0	1.381E+04	1.793E+05	3.456E+05	6.128E+05	8.552E+05	2.007E+06
NW	0.0	0.0	0.0	0.0	0.0	1.745E+04	1.032E+05	4.236E+05	1.160E+06	7.811E+05	2.485E+06
NNW	0.0	0.0	0.0	0.0	0.0	1.794E+04	1.032E+05	2.949E+05	1.481E+06	3.140E+06	5.037E+06
TOTAL	0.0	0.0	0.0	0.0	0.0	1.096E+05	3.079E+06	1.179E+07	3.182E+07	4.159E+07	8.839E+07

DENSITY (/M**2) = 4.42E-03

80-km-Radius (50 Miles) Meat Production Around SRS

Site Annual Meat Production, (kg)

Dir	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20	20.-30.	30.-40.	40.-50.	TOTAL
N	0.0	0.0	0.0	0.0	0.0	8.321E+04	5.240E+05	8.733E+05	1.414E+06	3.154E+06	6.049E+06
NNE	0.0	0.0	0.0	0.0	0.0	6.630E+04	5.240E+05	8.733E+05	2.286E+06	4.059E+06	7.809E+06
NE	0.0	0.0	0.0	0.0	0.0	2.374E+04	4.707E+05	7.797E+05	1.707E+06	3.013E+06	5.994E+06
ENE	0.0	0.0	0.0	0.0	0.0	2.645E+03	3.022E+05	5.502E+05	8.868E+05	1.058E+06	2.800E+06
E	0.0	0.0	0.0	0.0	0.0	3.099E+03	3.022E+05	4.743E+05	6.889E+05	1.034E+06	2.502E+06
ESE	0.0	0.0	0.0	0.0	0.0	7.558E+01	3.022E+05	4.657E+05	6.140E+05	7.099E+05	2.092E+06
SE	0.0	0.0	0.0	0.0	0.0	0.0	2.740E+05	3.819E+05	6.559E+05	1.002E+06	2.314E+06
SSE	0.0	0.0	0.0	0.0	0.0	0.0	2.349E+05	4.352E+05	6.192E+05	9.877E+05	2.277E+06
S	0.0	0.0	0.0	0.0	0.0	0.0	1.753E+05	4.583E+05	7.318E+05	1.020E+06	2.385E+06
SSW	0.0	0.0	0.0	0.0	0.0	0.0	1.568E+05	3.930E+05	1.131E+06	1.581E+06	3.262E+06
SW	0.0	0.0	0.0	0.0	0.0	2.289E+03	1.332E+05	2.007E+05	5.756E+05	7.566E+05	1.668E+06
WSW	0.0	0.0	0.0	0.0	0.0	1.060E+04	1.747E+05	1.998E+05	3.093E+05	6.652E+05	1.360E+06
W	0.0	0.0	0.0	0.0	0.0	5.897E+04	1.657E+05	1.189E+05	2.907E+05	5.110E+05	1.145E+06
WNW	0.0	0.0	0.0	0.0	0.0	7.010E+04	1.749E+05	1.089E+05	1.763E+05	2.448E+05	7.750E+05
NW	0.0	0.0	0.0	0.0	0.0	8.858E+04	5.240E+05	6.984E+05	5.833E+05	7.014E+05	2.596E+06
NNW	0.0	0.0	0.0	0.0	0.0	9.107E+04	5.240E+05	8.197E+05	7.138E+05	1.450E+06	3.599E+06
TOTAL	0.0	0.0	0.0	0.0	0.0	5.007E+05	4.963E+06	7.831E+06	1.338E+07	2.195E+07	4.863E+07

DENSITY (/M**2) = 2.43E-03

TABLE 2-6
80-KM-RADIUS MILK, MEAT, AND VEGETATION PRODUCTION, CONT'D.

80-km-Radius (50 Miles) Vegetation Production Around SRS

Site Annual Vegetation Production, (kg)

Dir	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.	TOTAL
N	0.0	0.0	0.0	0.0	0.0	7.385E+04	4.650E+05	7.751E+05	2.158E+06	3.106E+06	6.578E+06
NNE	0.0	0.0	0.0	0.0	0.0	5.885E+04	4.650E+05	7.751E+05	1.177E+06	1.609E+06	4.085E+06
NE	0.0	0.0	0.0	0.0	0.0	4.126E+04	9.712E+05	1.082E+06	1.586E+06	1.931E+06	5.611E+06
ENE	0.0	0.0	0.0	0.0	0.0	2.253E+04	2.574E+06	2.885E+06	2.205E+06	2.783E+06	1.047E+07
E	0.0	0.0	0.0	0.0	0.0	2.639E+04	2.574E+06	3.010E+06	2.718E+06	3.030E+06	1.136E+07
ESE	0.0	0.0	0.0	0.0	0.0	6.438E+02	2.574E+06	3.818E+06	3.443E+06	9.655E+05	1.080E+07
SE	0.0	0.0	0.0	0.0	0.0	0.0	2.731E+06	4.967E+06	4.699E+06	2.893E+06	1.529E+07
SSE	0.0	0.0	0.0	0.0	0.0	0.0	2.653E+06	3.712E+06	5.011E+06	3.160E+06	1.454E+07
S	0.0	0.0	0.0	0.0	0.0	0.0	1.355E+06	1.694E+06	2.501E+06	3.266E+06	8.816E+06
SSW	0.0	0.0	0.0	0.0	0.0	0.0	1.151E+06	1.330E+06	1.861E+06	2.511E+06	6.893E+06
SW	0.0	0.0	0.0	0.0	0.0	1.511E+04	9.195E+05	1.325E+06	1.807E+06	1.970E+06	6.037E+06
WSW	0.0	0.0	0.0	0.0	0.0	1.010E+04	7.213E+05	1.314E+06	1.857E+06	2.406E+06	6.308E+06
W	0.0	0.0	0.0	0.0	0.0	5.234E+04	1.863E+05	3.170E+05	1.184E+06	2.768E+06	4.508E+06
WNW	0.0	0.0	0.0	0.0	0.0	6.222E+04	1.935E+05	1.698E+05	4.890E+04	1.355E+06	1.829E+06
NW	0.0	0.0	0.0	0.0	0.0	7.862E+04	4.650E+05	1.585E+06	4.197E+06	2.265E+06	8.591E+06
NNW	0.0	0.0	0.0	0.0	0.0	8.083E+04	4.650E+05	1.249E+06	5.695E+06	6.379E+06	1.387E+07
TOTAL	0.0	0.0	0.0	0.0	0.0	5.227E+05	2.046E+07	3.001E+07	4.215E+07	4.244E+07	1.356E+08

DENSITY (/M**2) = 6.78E-03

Agricultural Productivity

Product	Cap use	Production	Export	Total Population Served
Vegetation	1.97E+02	1.36E+08	2.74E+07	6.87E+05
Milk	1.31E+02	8.84E+07	1.65E+07	6.74E+05
Meat	8.02E+01	4.86E+07	4.68E+07	6.06E+05

TABLE 2-7
SITE PARAMETERS USED IN LIQUID DOSE CALCULATIONS

River flow rate at SRS, cfs (1988)	5,151
River dilution in estuary	3
Transit time, process areas to river (hr)	24
Transit time, SRS to water treatment plants (hr)	72
Water treatment time (hr)	24
Aquatic food harvest (kg/hr)	
Fish - sport	103,700
Fish - commercial	31,800
Invertebrates - salt water	299,000
Irrigation	None
Shore width factor	0.2
Fish bioaccumulation factor for cesium	3,000

Part II

Environmental Monitoring Programs

Chapter 3

Air Monitoring Program

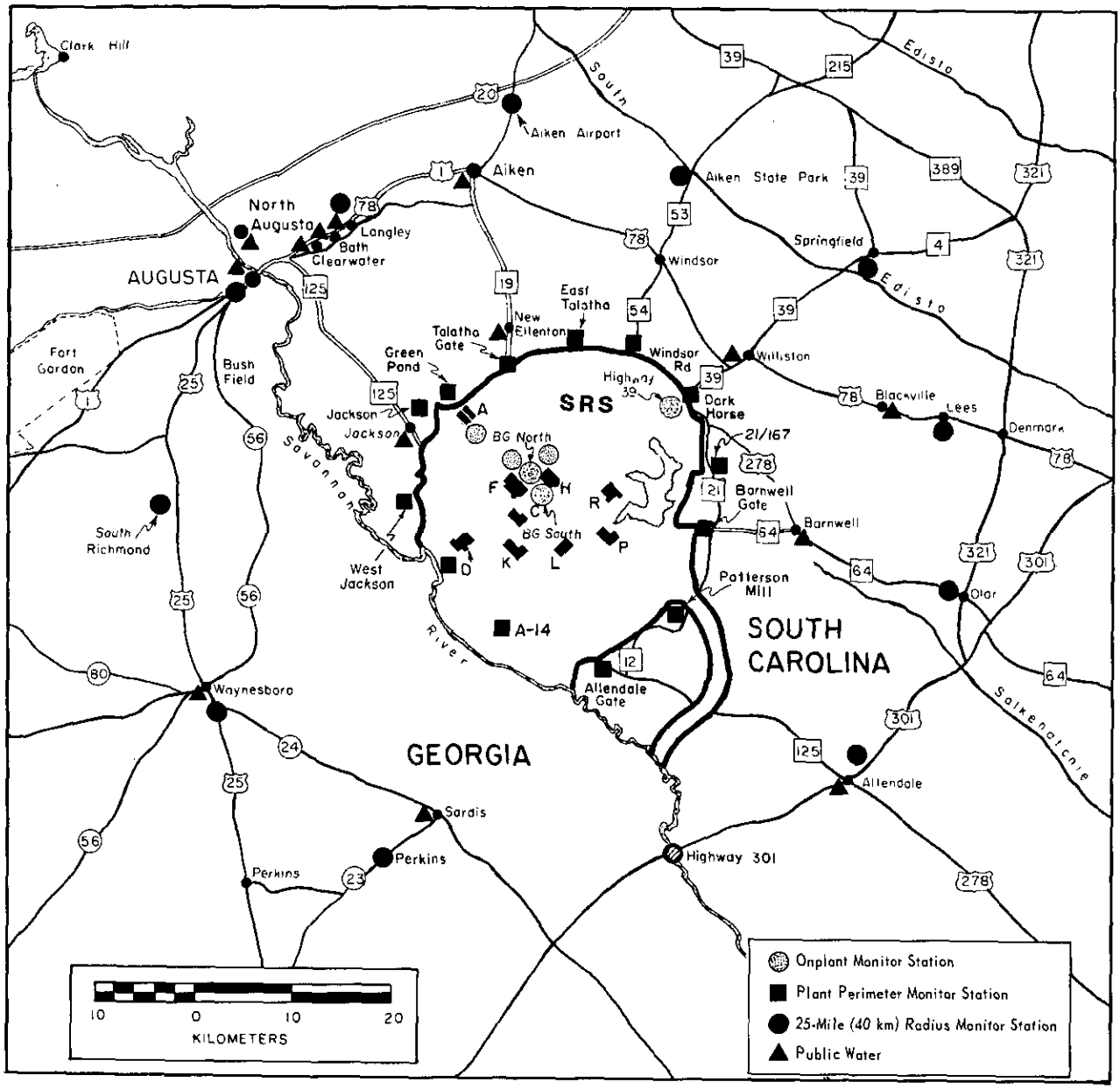


Figure 3-1. Continuous air monitoring stations and public water sample locations

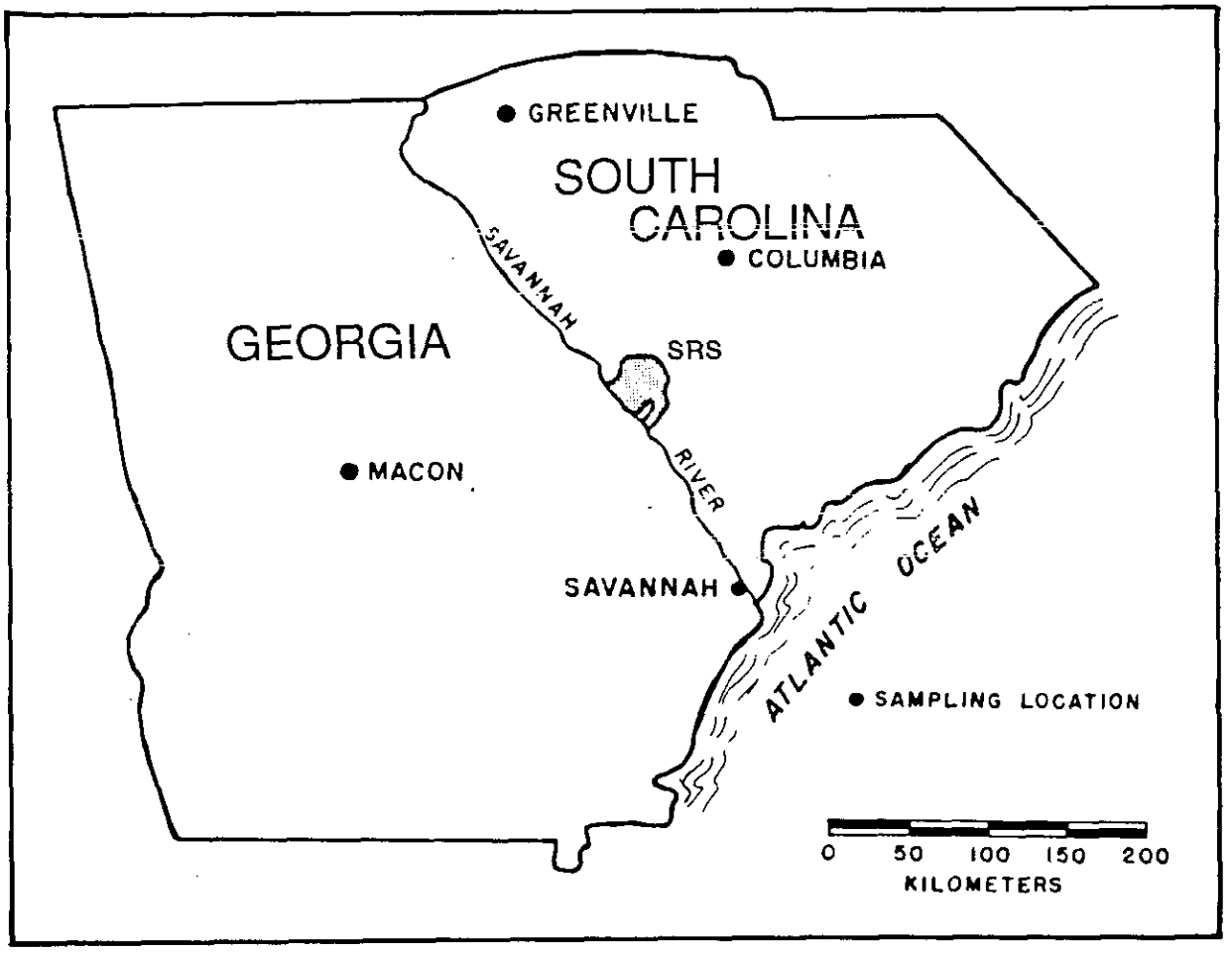


Figure 3-2. Distant air monitoring stations

Figure 3-3. SRS TLD plant perimeter locations

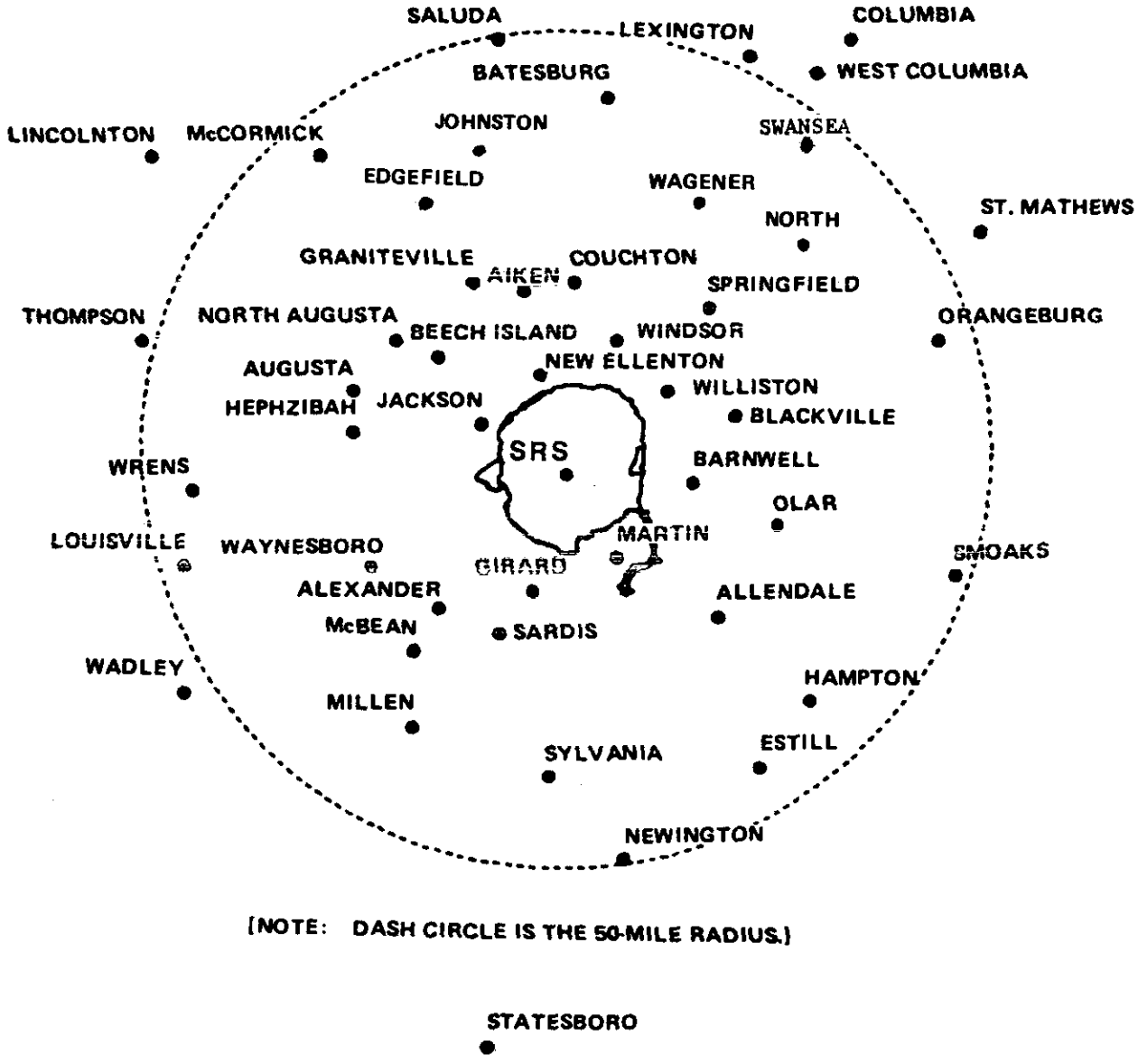


Figure 3-4. TLD monitoring locations in cities and towns near SRS

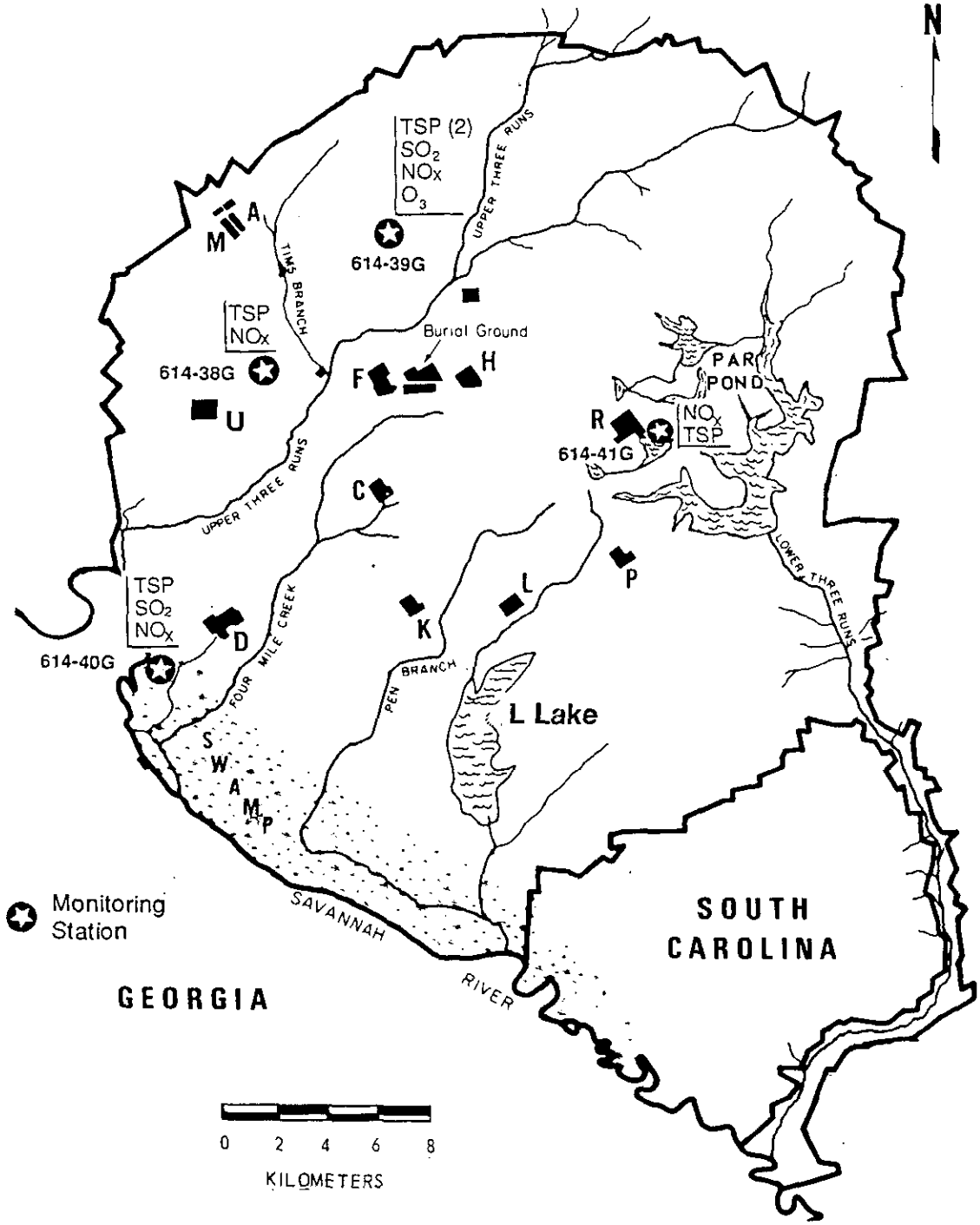


Figure 3-5. Ambient air quality monitoring locations

TABLE 3-1
RADIOACTIVITY IN AIR

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Alpha, fCi/m^3				
ONPLANT							
A AREA	52	3.0	±1.3	0.13	±0.26	1.1	±1.1
BURIAL GROUND NORTH[a]	19	2.3	±1.0	0.38	±0.44	1.1	±1.2
BURIAL GROUND SOUTH	53	3.0	±1.2	0	±0.36	1.1	±1.1
F AREA	53	10[b]	±4.0	0.32	±0.47	1.4	±2.7
H AREA	53	20[b]	±10	0.11	±0.22	1.5	±5.3
PLANT PERIMETER							
ALLENDALE GATE	53	3.1	±2.6	0.25	±0.51	1.3	±1.3
A-14	52	2.6	±1.1	-0.12	±0.63	0.97	±1.2
BARNWELL GATE	52	4.0	±4.6	0.28	±0.96	1.2	±1.6
D AREA	52	20[b]	±10	0.23	±0.46	1.5	±5.3
DARKHORSE	52	3.3	±1.4	0	±0.62	1.2	±1.2
EAST TALATHA	52	3.1	±1.2	0.22	±0.70	1.2	±1.1
HIGHWAY 39	52	3.2	±1.3	0.22	±0.45	1.1	±1.1
GREEN POND	52	2.8	±1.2	0.21	±0.66	1.1	±1.0
HIGHWAY 21/167	53	3.1	±1.2	0	±0.33	1.0	±1.3
JACKSON	53	20[b]	±5.0	0.17	±0.41	1.4	±5.3
PATTERSON MILL	53	4.1	±2.1	0	±0.36	1.2	±1.4
TALATHA GATE	52	3.0	±1.2	0.24	±0.47	1.2	±1.1
WEST JACKSON	53	20[b]	±10	0.34	±0.51	1.5	±5.3
WINDSOR ROAD	52	3.0	±1.3	0.35	±0.41	1.2	±1.2
25-MILE RADIUS							
AIKEN AIRPORT	50	3.0	±1.4	0.12	±0.55	1.2	±1.2
AIKEN STATE PARK	49	2.6	±1.2	0.23	±0.33	1.2	±0.98
ALLENDALE	51	2.5	±1.7	0.23	±0.33	1.1	±1.1
AUGUSTA	51	2.2	±1.1	0.23	±0.57	0.93	±0.82
HIGHWAY 301	51	2.0	±1.1	0	±0.50	1.0	±0.94
LANGLEY	51	2.1	±0.98	-0.12	±0.43	1.0	±0.96
LEES	51	4.1	±5.0	0	±0.31	1.1	±1.7
OLAR	50	2.4	±1.2	0.33	±0.38	1.1	±1.0
PERKINS	51	3.1	±1.6	0.40	±0.59	1.2	±1.4
SOUTH RICHMOND	49	4.8	±9.6[c]	0.47	±0.47	1.2	±1.3
SPRINGFIELD	51	4.3	±1.7	0.14	±0.81	1.1	±1.5
WAYNESBORO	50	6.1	±12[c]	-0.11	±0.22	1.1	±1.9
100-MILE RADIUS							
COLUMBIA, SC	52	2.8	±1.2	0.70	±0.63	1.6	±0.96
GREENVILLE, SC	45	2.4	±1.2	0.11	±0.51	1.2	±1.1
MACON, GA	46	2.6	±1.3	0.13	±0.56	1.2	±1.2
SAVANNAH, GA	51	3.0	±1.3	0	±0.54	1.2	±1.2

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

[b] Sample was inadvertantly discarded before naturally occurring radon could decay.

[c] Sampling flow rate was low.

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Nonvolatile Beta, fCi/m^3				
ONPLANT							
A AREA	52	36	±3.4	2.5	±1.6	18	±12
BURIAL GROUND NORTH[a]	19	33	±3.2	5.7	±2.0	18	±14
BURIAL GROUND SOUTH	53	54	±6.7	3.5	±2.0	19	±15
F AREA	53	50	±10	9.3	±2.3	19	±13
H AREA	53	160	±6.4	1.4	±1.3	26	±49
PLANT PERIMETER							
ALLENDALE GATE	53	35	±3.1	4.6	±2.1	18	±11
A-14	52	25	±3.8	5.1	±1.9	16	±8.4
BARNWELL GATE	52	36	±3.3	3.9	±1.8	17	±11
D AREA	52	60	±10	4.4	±2.0	18	±16
DARKHORSE	52	34	±3.1	7.6	±2.3	17	±9.8
EAST TALATHA	52	37	±3.2	5.5	±2.1	18	±11
GREEN POND	52	33	±3.1	5.8	±2.6	17	±9.3
HIGHWAY 39	52	36	±3.4	4.8	±2.1	18	±10
HIGHWAY 21/167	53	33	±3.1	4.7	±2.2	17	±12
JACKSON	53	50	±10	5.2	±2.2	16	±13
PATTERSON MILL	53	68	±6.4	4.8	±2.2	19	±22
TALATHA GATE	52	34	±3.2	5.8	±2.2	17	±10
WEST JACKSON	53	60	±10	5.9	±2.1	19	±16
WINDSOR ROAD	52	35	±3.4	7.3	±2.3	19	±11
25-MILE RADIUS							
AIKEN AIRPORT	50	38	±10	6.3	±2.1	17	±11
AIKEN STATE PARK	49	31	±3.1	7.7	±2.3	19	±9.9
ALLENDALE	51	31	±3.0	3.8	±1.7	17	±9.4
AUGUSTA	51	24	±3.4	1.9	±1.8	15	±11
HIGHWAY 301	51	31	±3.2	6.4	±2.2	17	±9.6
LANGLEY	51	31	±3.3	5.7	±2.1	17	±9.6
LEES	50	29	±3.5	0.6	±1.2	16	±11
OLAR	50	31	±3.0	5.8	±1.9	17	±11
PERKINS	51	56	±9.1	6.6	±2.5	19	±16
SOUTH RICHMOND	49	29	±2.9	6.3	±2.1	19	±11
SPRINGFIELD	51	41	±4.1	7.1	±2.2	17	±13
WAYNESBORO	50	56	±38[b]	0	±1.9	18	±16
100-MILE RADIUS							
COLUMBIA, SC	52	24	±3.6	9.7	±2.5	16	±7.4
GREENVILLE, SC	45	29	±3.8	5.8	±1.2	18	±11
MACON, GA	46	46	±5.9	5.9	±2.0	17	±13
SAVANNAH, GA	51	27	±2.7	5.5	±2.0	15	±10

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

[b] Sampling flow rate was low.

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Sr-89, 90, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	2.8	±1.1	-0.11	±0.84	0.32	±1.6
F AREA	12	0.81	±0.43	-0.35	±0.87	0.1	±0.50
H AREA	12	3.5	±1.2	0	±0.08	0.59	±2.2
BURIAL GROUND NORTH[a]	5	0.48	±0.72	0	±1.3	0.17	-
BURIAL GROUND SOUTH	12	1.5	±1.2	0	±1.3	0.37	±0.84
PLANT PERIMETER	12	0.24	±0.12	0	±0.01	0.06	±0.14
25-MILE RADIUS	12	0.16	±0.11	0	±0.03	0.05	±0.10
100-MILE RADIUS	12	0.35	±0.29	0	±0.15	0.11	±0.26
			Be-7, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	300[b]	±68	110	±27	170	±100
F AREA	12	240[b]	±33	83	±23	150	±80
H AREA	11	230[b]	±34	82	±25	160	±99
BURIAL GROUND NORTH[a]	4	130[b]	±22	0	±270	85	-
BURIAL GROUND SOUTH	11	250[b]	±26	100	±29	160	±100
PLANT PERIMETER	11	140[b]	±12	0	±2.7	85	±74
25-MILE RADIUS	11	160[b]	±13	0	±4.2	100	±87
100-MILE RADIUS	12	180[b]	±14	0	±5.5	110	±100
			Zr-95, Nb-95, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±19	0	±0.38	0	-
F AREA	12	0	±14	0	±5.7	0	-
H AREA	11	0	±16	0	±3.6	0	-
BURIAL GROUND NORTH[a]	4	0	±51	0	±0.28	0	-
BURIAL GROUND SOUTH	11	0	±16	0	±0.42	0	-
PLANT PERIMETER	11	0	±1.3	0	±0.07	0	-
25-MILE RADIUS	11	0	±1.6	0	±0.11	0	-
100-MILE RADIUS	12	0	±5.0	0	±0.30	0	-
			Ru-106, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±53	0	±0.83	0	-
F AREA	12	0	±37	0	±11	0	-
H AREA	11	0	±48	0	±11	0	-
BURIAL GROUND NORTH[a]	4	0	±130	0	±0.88	0	-
BURIAL GROUND SOUTH	11	0	±45	0	±0.90	0	-
PLANT PERIMETER	11	0	±3.0	0	±0.21	0	-
25-MILE RADIUS	11	0	±3.6	0	±0.35	0	-
100-MILE RADIUS	12	0	±12	0	±1.0	0	-

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

- Insufficient data; standard deviation not calculated for <5 samples.

[b] Naturally occurring radioactive isotope.

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			I-131, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±2200[a]	0	±56	0	-
F AREA	12	0	±4000[a]	0	±59	0	-
H AREA	11	0	±3100[a]	0	±47	0	-
BURIAL GROUND NORTH[b]	4	0	±5500[a]	0	±49	0	-
BURIAL GROUND SOUTH	10	0	±1900[a]	0	±59	0	-
PLANT PERIMETER	11	0	±660[a]	0	±2.6	0	-
25-MILE RADIUS	11	0	±710[a]	0	±5.8	0	-
100-MILE RADIUS	12	0	±2100[a]	0	±11	0	-
			Cs-137, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±5.3	0	±0.09	0	-
F AREA	12	4.4	±1.5	0	±2.5	0.85	±3.2
H AREA	11	13	±22	0	±1.7	2.7	±9.7
BURIAL GROUND NORTH[b]	4	0	±16	0	±0.09	0	-
BURIAL GROUND SOUTH	11	5.2	±2.1	0	±0.10	1.3	±4.0
PLANT PERIMETER	10	0.08	±0.03	0	±0.03	0.01	±0.04
25-MILE RADIUS	11	0	±1.0	0	±0.04	0	-
100-MILE RADIUS	12	0	±1.1	0	±0.11	0	-
			Ce-144, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±27	0	±2.2	0	-
F AREA	12	0	±18	0	±5.5	0	-
H AREA	11	24	±7.3	0	±5.6	2.2	±14
BURIAL GROUND NORTH[b]	4	0	±69	0	±2.0	0	-
BURIAL GROUND SOUTH	11	0	±21	0	±1.7	0	-
PLANT PERIMETER	11	0	±5.8	0	±0.10	0	-
25-MILE RADIUS	11	0	±9.8	0	±0.15	0	-
100-MILE RADIUS	12	0	±5.5	0	±0.38	0	-
			Pu-238, aCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	11	39	±7.2	-0.51	±2.1	4.5	±23
F AREA	11	6300[c]	±110	47	±8.1	810	±3700
H AREA	11	92	±10	3.1	±4.0	21	±50
BURIAL GROUND NORTH[b]	4	6.2	±4.1	2	±2.6	4.3	-
BURIAL GROUND SOUTH	11	270[c]	±40	2.3	±2.2	37	±160
PLANT PERIMETER	11	1.6	±0.46	0.3	±0.20	0.7	±0.70
25-MILE RADIUS	11	2.6	±0.59	0.01	±0.15	0.87	±1.6
100-MILE RADIUS	11	36[d]	±3.9	-0.21	±0.29	3.6	±22

[a] Due to the short half-life of ^{131}I (8.04 days), the LLD can vary significantly depending on the time interval between sample collection and analysis.

[b] *The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.*

- Insufficient data; standard deviation not calculated for <5 samples.

[c] Due to plutonium release on January 15, 1988 (see chapter 9, Vol. I).

[d] Considered anomalous data since gross alpha concentrations were within normal ranges. All plutonium *concentrations in pathway from SRS to the Columbia, SC 100-mile radius stations were within normal ranges.*

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Pu-239, aCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	11	25	±5.6	0	±1.5	4.8	±14
F AREA	11	980	±45	14	±4.4	140	±560
H AREA	11	22	±4.9	1.7	±1.6	8.2	±13
BURIAL GROUND NORTH[a]	4	7.7	±3.5	4.7	±3.2	6.1	-
BURIAL GROUND SOUTH	11	59	±19	2.1	±2.0	13	±36
PLANT PERIMETER	11	4.6	±0.65	0.45	±0.22	1.9	±2.6
25-MILE RADIUS	11	4.9	±1.1	0.42	±0.20	1.7	±2.9
100-MILE RADIUS	11	19	±2.8	0.18	±0.36	3.1	±11
			Mn-54, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±5.6	0	±0.09	0	-
F AREA	12	0	±4.9	0	±1.1	0	-
H AREA	11	0	±4.1	0	±0.91	0	-
BURIAL GROUND NORTH[a]	4	0	±16	0	±0.08	0	-
BURIAL GROUND SOUTH	11	0	±5.2	0	±0.08	0	-
PLANT PERIMETER	11	0	±0.42	0	±0.02	0	-
25-MILE RADIUS	11	0	±0.41	0	±0.04	0	-
100-MILE RADIUS	12	0	±1.1	0	±0.00	0	-
			Sb-125, fCi/m^3				
MONTHLY COMPOSITE							
3/700 AREA	12	0	±15	0	±0.00	0	-
F AREA	12	0	±9.7	0	±3.0	0	-
H AREA	11	0	±12	0	±0.00	0	-
BURIAL GROUND NORTH[a]	4	0	±33	0	±0.35	0	-
BURIAL GROUND SOUTH	11	0	±11	0	±0.37	0	-
PLANT PERIMETER	11	0	±0.85	0	±0.00	0	-
25-MILE RADIUS	11	0	±0.87	0	±0.09	0	-

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			H-3, pCi/m^3				
ONPLANT							
A AREA	26	230	±4.6	19	±0.96	79	±110
F AREA	26	1900	±40	61	±2.5	320	±770
H AREA	25	6400	±130	120	±2.0	1700	±3700
BURIAL GROUND NORTH[a]	10	3200	±6.2	370	±2.4	1400	±1700
BURIAL GROUND SOUTH	25	4300	±89	430	±8.0	1500	±1800
PLANT PERIMETER							
ALLENDALE GATE	25	44	±5.5	11	±1.6	24	±17
A-14	26	250	±8.3	14	±5.1	65	±94
BARNWELL GATE	25	130	±4.4	7.4	±1.3	45	±56
D AREA	25	190	±7.2	34	±2.5	90	±89
DARKHORSE	26	130	±6.2	8.7	±1.6	50	±64
EAST TALATHA	26	190	±4.0	10	±1.3	51	±79
GREENPOND	26	180	±5.0	15	±0.92	64	±95
HIGHWAY 39	26	150	±4.9	12	±1.7	53	±69
HIGHWAY 21/167	26	120	±6.1	8.8	±3.9	42	±53
JACKSON	26	180	±6.8	9.6	±2.5	47	±74
PATTERSON MILL	26	89	±4.1	8.1	±5.3	33	±35
TALATHA GATE	26	330	±9.7	14	±1.8	86	±160
WEST JACKSON	25	160	±6.6	6.5	±0.71	50	±69
WINDSOR ROAD	25	200	±4.7	5.4	±1.3	58	±96
25-MILE RADIUS							
AIKEN AIRPORT	26	69	±3.3	5.1	±1.6	22	±30
AIKEN STATE PARK	26	60	±3.2	4.9	±1.3	20	±28
ALLENDALE	26	24	±3.2	1.1	±2.7	11	±11
AUGUSTA	26	45	±3.9	1.2	±0.71	13	±21
HIGHWAY 301	26	22	±1.5	1.3	±2.2	9.5	±13
LANGLEY	26	49	±3.2	5.7	±0.18	19	±23
LEES	26	56	±3.2	6.9	±2.0	18	±24
OLAR	25	32	±3.4	3.7	±1.4	13	±16
PERKINS	26	39	±1.3	1.9	±2.7	14	±18
SOUTH RICHMOND	24	45	±3.9	2.1	±0.09	15	±23
SPRINGFIELD	26	57	±3.2	5.5	±1.5	22	±28
WAYNESBORO	23	100	±8.7	3.6	±2.8	23	±43
100-MILE RADIUS							
COLUMBIA, SC	3	55	±3.1	7.3	±1.3	24	-
GREENVILLE, SC	4	20	±1.7	3.4	±0.92	9.6	-
MACON, GA	4	21	±1.8	3.3	±4.0	14	-
SAVANNAH, GA	4	0.87	±1.7	0	±3.1	0.54	-

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-1
RADIOACTIVITY IN AIR, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
		H-3 in Atmospheric Moisture, pCi/mL					
ONPLANT							
A AREA	26	27	±0.71	2.5	±0.23	8.2	±12
BURIAL GROUND NORTH[a]	10	370	±0.72	39	±0.94	120	±200
BURIAL GROUND SOUTH	25	360	±7.4	26	±0.49	160	±160
F AREA	26	67	±0.71	7	±0.29	25	±31
H AREA	26	720	±1.4	17	±0.27	160	±300
PLANT PERIMETER							
ALLENDALE GATE	25	7.0	±0.36	0.96	±0.16	2.7	±2.7
A-14	26	17	±0.42	0.76	±0.27	6.7	±7.0
BARNWELL GATE	25	17	±0.52	0.66	±0.20	5.4	±8.7
D AREA	25	21	±0.45	4.8	±0.31	9.2	±6.9
DARKHORSE	26	12	±0.45	1.0	±0.18	5.1	±6.1
EAST TALATHA	26	16	±0.47	1.1	±0.20	5.3	±7.3
GREENPOND	26	22	±0.62	1.1	±0.20	6.2	±9.3
HIGHWAY 39	26	14	±0.25	1.4	±0.19	5.4	±6.1
HIGHWAY 21/167	26	15	±0.36	0.99	±0.20	4.9	±6.9
JACKSON	26	10	±0.36	0.95	±0.25	4.6	±5.1
PATTERSON MILL	26	8.6	±0.41	0.43	±0.26	3.9	±4.7
TALATHA GATE	26	25	±0.40	1.5	±0.20	8.7	±12
WEST JACKSON	25	12	±0.45	0.93	±0.25	5.1	±6.2
WINDSOR ROAD	26	18	±0.43	1.4	±0.21	6.1	±8.3
25-MILE RADIUS							
AIKEN AIRPORT	26	6.5	±0.34	0.34	±0.18	2.3	±2.8
AIKEN STATE PARK	26	6.7	±0.38	0.71	±0.16	2.1	±2.7
ALLENDALE	26	3.4	±0.19	0.06	±0.15	1.4	±1.7
AUGUSTA	26	5.4	±0.33	0.23	±0.14	1.4	±2.1
HIGHWAY 301	26	4.8	±0.33	0.07	±0.12	1.3	±2.4
LANGLEY	26	5.3	±0.35	0.49	±0.16	2.1	±2.7
LEES	26	6.6	±0.34	0.49	±0.17	2	±2.8
OLAR	25	3.2	±0.26	0.23	±0.16	1.5	±2.0
PERKINS	26	8.5	±0.28	0.21	±0.29	1.7	±3.2
SOUTH RICHMOND	24	2.9	±0.30	0.23	±0.01	1.5	±1.7
SPRINGFIELD	26	6.8	±0.16	0.67	±0.25	2.2	±2.8
WAYNESBORO	23	5.4	±0.46	0.33	±0.25	2.1	±2.3
100-MILE RADIUS							
COLUMBIA, SC	3	3.0	±0.17	1.1	±0.20	1.9	-
GREENVILLE, SC	4	3.8	±0.33	0.44	±0.16	1.4	-
MACON, GA	4	3.6	±0.30	0.22	±0.26	1.8	-
SAVANNAH, GA	4	0.18	±0.27	-0.15	±0.16	0.04	-

[a] The monitoring station was temporarily out of service the first and second quarters of 1988 due to an electrical outage resulting from construction work in the area.

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-2
1988 RADIOACTIVE ATMOSPHERIC RELEASES AND CONCENTRATIONS

Nuclide	Curies Released at Emission Source	Calculated Avg. Conc. at Plant Perimeter pCi/cm^3
Gases and Vapors:		
H-3 (oxide)	2.88E+05	8.7E+01
H-3 (*elemental*)	1.74E+05	5.2E+01
H-3 (total)	4.62E+05	1.4E+02
C-14	2.40E+01	7.2E-03
Ar-41	2.95E+04	4.8E+00
Kr-85	1.02E+03	2.4E-01
Kr-85	2.40E+05	7.2E+01
Kr-87	1.36E+03	1.7E-01
Kr-88	1.61E+03	3.2E-01
Xe-133	6.97E+03	2.1E+00
Xe-135	2.98E+03	7.9E-01
I-129	6.30E-02	1.7E-05
I-131	4.96E-04	1.4E-07
Particulates:		
Co-60	3.00E-06	8.2E-10
Se-75	2.00E-05	<5.5E-09
Sr-89,90	3.01E-03	8.2E-07
Zr-95	7.60E-04	2.1E-07
Nb-95	2.22E-03	6.1E-07
Ru-103	4.61E-04	1.3E-07
Ru-106	3.02E-02	8.3E-06
Cs-134	1.00E-04	2.7E-08
Cs-137	1.78E-03	4.9E-07
Ce-141	1.60E-05	4.4E-09
Ce-144	4.56E-03	1.3E-06
Os-185	3.00E-05	<8.2E-09
Total U	1.47E-03	4.0E-07
Pu-238	6.16E-04	1.7E-07
Pu-239	6.87E-04	1.9E-07
Cm-242,244	1.18E-04	3.2E-08
Am-241,243	6.70E-05	1.8E-08

TABLE 3-3
AVERAGE INDIVIDUAL DOSES AT THE PLANT PERIMETER FROM ATMOSPHERIC RELEASES

By Pathway

Pathway	Average Individual Dose, mrem[a]	% of Total Dose
Plume	3.59E-02	20.56
Ground	2.03E-04	0.12
Inhalation	6.80E-02	38.95
Vegetation	4.47E-02	25.60
Milk	1.24E-02	7.10
Meat	1.34E-02	7.67
Total	1.75E-01	

By Radionuclide

Radionuclide	Average Individual Dose, mrem[a]	% of Total Dose
Gases and Vapors:		
H-3	1.15E-01	65.71
C-14	4.01E-03	2.29
Ar-41	2.94E-02	16.80
Kr, Xe isotopes	6.46E-03	3.69
I-129	1.54E-02	8.80
I-131	1.40E-06	0.00
Particulates:		
Ru-106	9.73E-04	0.56
Cs-137	4.69E-05	0.03
U-235,238	4.59E-04	0.26
Pu-238	9.42E-04	0.54
Pu-239	1.17E-03	0.67
Am-241,243	2.08E-04	0.12
Cm-242,244	6.09E-05	0.03
Total	1.75E-01	

[a] Committed effective dose equivalent

TABLE 3-4
MAXIMUM INDIVIDUAL DOSES AT THE PLANT PERIMETER FROM ATMOSPHERIC RELEASES

By Pathway

Pathway	Average Consumption Maximum Individual Dose, mrem[a]	Average Consumption % of Total Dose	Maximum Consumption Maximum Individual Dose, mrem[a]	Maximum Consumption % of Total Dose
Plume	6.38E-02	21.77	6.38E-02	13.99
Ground	3.32E-04	0.11	3.32E-04	0.07
Inhalation	1.13E-01	38.57	1.13E-01	24.78
Vegetation	7.37E-02	25.15	1.96E-01	42.98
Milk	2.05E-02	7.00	5.77E-02	12.65
Meat	2.22E-02	7.58	2.57E-02	5.64
Total	2.93E-01		4.56E-01	

By Radionuclide

Radionuclide	Average Consumption Maximum Individual Dose, mrem[a]	Average Consumption % of Total Dose	Maximum Consumption Maximum Individual Dose, mrem[a]	Maximum Consumption % of Total Dose
Gases and Vapors:				
H-3	1.91E-01	65.17	3.04E-01	66.71
C-14	6.64E-03	2.27	1.40E-02	3.07
Ar-41	5.27E-02	17.98	5.27E-02	11.56
Kr,Xe isotopes	1.12E-02	3.81	1.12E-02	2.45
I-129	2.52E-02	8.60	6.46E-02	14.18
I-131	2.29E-06	0.00	5.11E-06	0.00
Particulates:				
Ru-106	1.60E-03	0.55	2.03E-03	0.45
Cs-137	7.69E-05	0.03	1.23E-04	0.03
U-235,238	7.59E-04	0.26	9.00E-04	0.20
Pu-238	1.55E-03	0.53	2.43E-03	0.53
Pu-239	1.94E-03	0.66	3.04E-03	0.67
Am-241,243	3.43E-04	0.12	5.41E-04	0.12
Cm-242,244	1.00E-04	0.03	1.58E-04	0.03
Total	2.93E-01		4.56E-01	

[a] Committed effective dose equivalent.

TABLE 3-5
80-KM COLLECTIVE (POPULATION) DOSE - 1988 ATMOSPHERIC RELEASES

By Pathway

Pathway	Collective (Population) Dose[a] person-rem[b]	% of Total Dose
Plume	1.65E+00	7.87
Ground	8.47E-02	0.40
Inhalation	8.76E+00	41.76
Vegetation	7.20E+00	34.33
Milk	1.74E+00	8.30
Meat	1.54E+00	7.34
Total	2.10E+01	

By Radionuclide

Radionuclide	Collective (Population) Dose[a] person-rem[b]	% of Total Dose
Gases and Vapors:		
H-3	1.60E+01	76.23
C-14	5.73E-01	2.73
Ar-41	1.22E+00	5.81
Kr,Xe isotopes	4.28E-01	2.04
I-129	2.29E+00	10.91
I-131	3.37E-04	0.00
Particulates:		
Ru-106	9.48E-02	0.45
Cs-137	9.24E-03	0.04
U-235,238	6.59E-02	0.31
Pu-238	1.22E-01	0.58
Pu-239	1.52E-01	0.72
Am-241,243	2.69E-02	0.13
Cm-242,244	7.89E-03	0.04
Total	2.10E+01	

[a] A population size of 555,100.
[b] Committed effective dose equivalent.

TABLE 3-6
TLD GAMMA RADIATION MONITORING STATION MEASUREMENTS

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
ONPLANT							
A AREA	4	0.23	±0.04	0.18	±0.03	0.22	-
DUNBARTON[a]	0						
BURIAL GROUND NORTH	4	0.32	±0.06	0.23	±0.04	0.29	-
BURIAL GROUND SOUTH	4	0.23	±0.04	0.18	±0.03	0.21	-
PAR POND[a]	0						
WILLISTON GATE[a]	0						
PLANT PERIMETER							
ALLENDALE GATE	4	0.13	±0.02	0.11	±0.02	0.13	-
A 14	4	0.18	±0.03	0.13	±0.02	0.16	-
BARNWELL GATE	4	0.19	±0.03	0.15	±0.03	0.18	-
D AREA	4	0.18	±0.03	0.14	±0.03	0.17	-
DARK HORSE	4	0.16	±0.03	0.12	±0.02	0.14	-
EAST TALATHA	4	0.16	±0.03	0.13	±0.02	0.15	-
GREEN POND	4	0.16	±0.03	0.14	±0.03	0.15	-
HIGHWAY 21/167	4	0.25	±0.05	0.19	±0.03	0.23	-
JACKSON	4	0.20	±0.04	0.16	±0.03	0.19	-
PATTERSON MILL	4	0.15	±0.03	0.13	±0.02	0.15	-
TALATHA GATE	4	0.20	±0.04	0.16	±0.03	0.18	-
WEST JACKSON	4	0.23	±0.04	0.18	±0.03	0.21	-
WINDSOR ROAD	4	0.17	±0.03	0.13	±0.02	0.16	-
25-MILE RADIUS							
AIKEN AIRPORT	3	0.22	±0.04	0.20	±0.04	0.21	-
AIKEN STATE PARK	3	0.16	±0.03	0.14	±0.03	0.15	-
ALLENDALE	3	0.21	±0.04	0.18	±0.03	0.19	-
AUGUSTA	4	0.23	±0.04	0.19	±0.03	0.22	-
HIGHWAY 301	4	0.26	±0.04	0.22	±0.04	0.24	-
LANGLEY	3	0.24	±0.04	0.22	±0.04	0.23	-
LEES	3	0.16	±0.03	0.15	±0.03	0.15	-
OLAR	3	0.18	±0.03	0.16	±0.03	0.17	-
PERKINS	4	0.22	±0.04	0.16	±0.03	0.19	-
SOUTH RICHMOND	4	0.27	±0.04	0.24	±0.04	0.26	-
SPRINGFIELD	3	0.28	±0.05	0.23	±0.04	0.25	-
WAYNESBORO	4	0.24	±0.04	0.20	±0.04	0.22	-
100-MILE RADIUS							
COLUMBIA, SC	3	0.27	±0.05	0.25	±0.05	0.26	-
GREENVILLE, SC	3	0.34	±0.06	0.31	±0.06	0.32	-
MACON, GA	4	0.36	±0.07	0.27	±0.00	0.31	-
SAVANNAH, GA	3	0.20	±0.03	0.18	±0.03	0.19	-

[a] Monitoring stations taken out of service.
- Insufficient data; mean not calculated for <5 samples.

TABLE 3-7
ONPLANT TLD GAMMA RADIATION MEASUREMENTS

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
100-L AREA							
L-AREA CORNER 1	4	0.22	±0.04	0.16	±0.03	0.20	-
L-AREA CORNER 2	4	0.23	±0.04	0.18	±0.03	0.21	-
L-AREA CORNER 3	4	0.22	±0.04	0.20	±0.04	0.21	-
L-AREA CORNER 4	4	0.26	±0.05	0.18	±0.03	0.24	-
100-R AREA							
R-AREA CORNER 1	4	0.22	±0.04	0.19	±0.03	0.20	-
R-AREA CORNER 2	4	0.24	±0.04	0.22	±0.04	0.23	-
R-AREA CORNER 3	4	0.19	±0.03	0.17	±0.03	0.18	-
R-AREA CORNER 4	4	0.23	±0.04	0.20	±0.04	0.22	-
R-AREA CORNER 5	4	0.22	±0.04	0.20	±0.04	0.21	-
R-AREA CORNER 6	4	0.20	±0.04	0.19	±0.03	0.20	-
R-AREA CORNER 7	4	0.22	±0.04	0.20	±0.04	0.21	-
RAILROAD AT ROAD 2							
RR-RD F 1	4	0.24	±0.04	0.22	±0.04	0.23	-
RR-RD F 2	4	0.27	±0.05	0.24	±0.04	0.26	-
CLASSIFICATION YARD							
618-G 1	4	0.21	±0.04	0.17	±0.03	0.19	-
618-G 2	4	0.20	±0.04	0.18	±0.03	0.19	-
618-G 3	4	0.22	±0.04	0.20	±0.04	0.21	-
618-G 4	4	0.18	±0.03	0.16	±0.03	0.17	-
SOLID WASTE STORAGE FACILTY							
643 G 1	4	0.23	±0.04	0.20	±0.04	0.22	-
643 G 2	4	0.26	±0.05	0.25	±0.05	0.26	-
643 G 3	4	1.30	±0.24	0.75	±0.13	1.10	-
643 G 4	4	0.37	±0.07	0.30	±0.05	0.35	-
643-7G 1	3	0.30	±0.05	0.27	±0.05	0.28	-
643-7G 2	4	0.62	±0.11	0.52	±0.09	0.57	-
643-7G 3	4	0.45	±0.08	0.33	±0.06	0.39	-
643-7G 4	4	2.50	±0.45	0.57	±0.10	1.80	-
DWPF							
DEFENSE WASTE 1	4	0.31	±0.06	0.27	±0.05	0.29	-
DEFENSE WASTE 2	4	0.32	±0.06	0.31	±0.05	0.32	-
DEFENSE WASTE 3	4	0.27	±0.05	0.24	±0.04	0.26	-
DEFENSE WASTE 4	4	0.27	±0.05	0.24	±0.04	0.26	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-7
ONPLANT TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
TNX							
TNX 1	4	0.20	±0.04	0.14	±0.03	0.17	-
TNX 2	4	0.29	±0.05	0.26	±0.05	0.27	-
TNX 3	4	0.25	±0.05	0.22	±0.04	0.23	-
TNX 4	4	0.34	±0.06	0.31	±0.06	0.33	-
CENTRAL SHOPS							
CENTRAL SHOPS 1	4	0.32	±0.06	0.30	±0.05	0.31	-
CENTRAL SHOPS 2	4	0.24	±0.04	0.23	±0.04	0.24	-
CENTRAL SHOPS 3	4	0.20	±0.04	0.18	±0.03	0.19	-
CENTRAL SHOPS 4	4	0.48	±0.09	0.43	±0.08	0.45	-
CENTRAL SHOPS 5	4	1.20	±0.21	0.53	±0.09	0.83	-
TEMPORARY CONSTRUCTION							
TEMP CONSTRUCTION 1	4	0.70	±0.13	0.21	±0.04	0.50	-
TEMP CONSTRUCTION 2	4	0.57	±0.10	0.21	±0.04	0.30	-
TEMP CONSTRUCTION 3	4	0.21	±0.04	0.20	±0.04	0.21	-
TEMP CONSTRUCTION 4	4	0.22	±0.04	0.21	±0.04	0.21	-
200-F AREA							
F-AREA MONITOR STATION	4	0.30	±0.05	0.25	±0.04	0.29	-
F-AREA CORNER 1	4	0.22	±0.04	0.21	±0.04	0.21	-
F-AREA CORNER 2	4	0.22	±0.04	0.19	±0.03	0.21	-
F-AREA CORNER 3	4	0.24	±0.04	0.22	±0.04	0.23	-
F-AREA CORNER 4	4	0.27	±0.05	0.24	±0.04	0.26	-
F-AREA CORNER 5	4	0.52	±0.09	0.44	±0.08	0.48	-
F-AREA CORNER 6	4	0.35	±0.06	0.32	±0.06	0.33	-
200-H AREA							
H-AREA MONITOR STATION	4	0.28	±0.00	0.22	±0.04	0.26	-
H-AREA CORNER 1	4	0.29	±0.05	0.27	±0.05	0.29	-
H-AREA CORNER 2	4	0.71	±0.13	0.53	±0.10	0.60	-
H-AREA CORNER 3	4	0.24	±0.04	0.23	±0.04	0.23	-
H-AREA CORNER 4	4	0.90	±0.16	0.60	±0.11	0.72	-
H-AREA CORNER 5	4	2.0	±0.35	0.91	±0.16	1.30	-
H-AREA CORNER 6	4	0.34	±0.06	0.30	±0.05	0.31	-
H-AREA CORNER 7	4	0.27	±0.05	0.26	±0.05	0.27	-
H-AREA CORNER 8	4	0.31	±0.06	0.28	±0.05	0.30	-
Z AREA							
Z-AREA 1	4	0.23	±0.04	0.20	±0.04	0.22	-
Z-AREA 2	4	0.19	±0.03	0.17	±0.03	0.18	-

-Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-7
ONPLANT TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
GEORGIA POWER							
GA POWER 1 LOW	4	0.17	±0.03	0.12	±0.02	0.15	-
GA POWER 1 HIGH	4	0.16	±0.03	0.11	±0.02	0.14	-
GA POWER 2 LOW	4	0.18	±0.03	0.13	±0.02	0.17	-
GA POWER 2 HIGH	4	0.17	±0.03	0.12	±0.02	0.15	-
GA POWER 3 LOW	4	0.18	±0.03	0.12	±0.02	0.16	-
GA POWER 3 HIGH	4	0.18	±0.03	0.12	±0.02	0.16	-
GA POWER 4 LOW	4	0.18	±0.03	0.14	±0.02	0.17	-
GA POWER 4 HIGH	4	0.19	±0.03	0.13	±0.02	0.17	-
GA POWER 5 LOW	4	0.17	±0.03	0.12	±0.02	0.15	-
GA POWER 5 HIGH	4	0.17	±0.03	0.12	±0.02	0.15	-
PLANT VOGTLE							
VOGTLE NRC LOCATION 1	4	0.20	±0.04	0.19	±0.03	0.19	-
VOGTLE NRC LOCATION 2	4	0.15	±0.03	0.13	±0.02	0.14	-
VOGTLE NRC LOCATION 3	4	0.15	±0.03	0.13	±0.02	0.14	-
VOGTLE NRC LOCATION 4	4	0.17	±0.03	0.15	±0.03	0.16	-
VOGTLE NRC LOCATION 5	4	0.25	±0.04	0.22	±0.04	0.24	-
VOGTLE NRC LOCATION 6	4	0.18	±0.03	0.16	±0.03	0.17	-
VOGTLE NRC LOCATION 7	4	0.16	±0.03	0.15	±0.03	0.16	-
VOGTLE NRC LOCATION 8	4	0.16	±0.03	0.15	±0.03	0.16	-
TECHNICAL AREA							
TECHNICAL AREA 1	4	0.24	±0.04	0.18	±0.03	0.22	-
TECHNICAL AREA 2	4	0.24	±0.04	0.22	±0.04	0.23	-
TECHNICAL AREA 3	4	0.26	±0.05	0.25	±0.05	0.26	-
TECHNICAL AREA 4	4	0.32	±0.06	0.28	±0.05	0.30	-
TECHNICAL AREA 5	4	0.25	±0.05	0.22	±0.04	0.24	-
TECHNICAL AREA 6	4	0.25	±0.05	0.24	±0.04	0.25	-
TECHNICAL AREA 7	4	0.26	±0.05	0.24	±0.04	0.25	-
TECHNICAL AREA 8	4	0.23	±0.04	0.22	±0.04	0.23	-
400-D AREA							
D-AREA CORNER 1	4	0.22	±0.04	0.19	±0.03	0.21	-
D-AREA CORNER 2	4	0.21	±0.04	0.19	±0.03	0.20	-
D-AREA CORNER 3	4	0.20	±0.04	0.17	±0.03	0.18	-
D-AREA CORNER 4	4	0.22	±0.04	0.19	±0.03	0.20	-
D-AREA CORNER 5	4	0.20	±0.04	0.17	±0.03	0.19	-
D-AREA CORNER 6	4	0.18	±0.03	0.11	±0.02	0.15	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-7
ONPLANT TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
300-M AREA							
M-AREA CORNER 1	4	0.30	±0.05	0.26	±0.05	0.28	-
M-AREA CORNER 2	4	0.22	±0.04	0.21	±0.04	0.21	-
M-AREA CORNER 3	4	0.47	±0.09	0.34	±0.06	0.39	-
M-AREA CORNER 4	4	0.20	±0.04	0.20	±0.04	0.20	-
M-AREA CORNER 5	4	0.29	±0.05	0.24	±0.04	0.26	-
M-AREA CORNER 6	4	0.22	±0.04	0.19	±0.03	0.20	-
M-AREA CORNER 7	4	0.29	±0.05	0.25	±0.05	0.27	-
M-AREA CORNER 8	4	0.32	±0.06	0.29	±0.05	0.31	-
100-C AREA							
C-AREA CORNER 1	4	0.24	±0.04	0.16	±0.03	0.19	-
C-AREA CORNER 2	4	0.20	±0.04	0.18	±0.03	0.19	-
C-AREA CORNER 3	4	0.22	±0.04	0.20	±0.04	0.21	-
C-AREA CORNER 4	4	0.20	±0.04	0.18	±0.03	0.19	-
100-K AREA							
K-AREA CORNER 1	4	0.25	±0.04	0.21	±0.04	0.23	-
K-AREA CORNER 2	4	0.21	±0.04	0.19	±0.03	0.20	-
K-AREA CORNER 3	4	0.26	±0.05	0.23	±0.04	0.25	-
K-AREA CORNER 4	4	0.43	±0.08	0.37	±0.04	0.40	-
100-P AREA							
P-AREA CORNER 1	4	0.23	±0.04	0.21	±0.04	0.23	-
P-AREA CORNER 2	4	0.20	±0.04	0.17	±0.03	0.19	-
P-AREA CORNER 3	4	0.22	±0.04	0.19	±0.03	0.21	-
P-AREA CORNER 4	4	0.23	±0.04	0.21	±0.04	0.22	-
PUMPHOUSE ROAD							
PUMPHOUSE ROAD 1	4	0.21	±0.04	0.19	±0.03	0.20	-
PUMPHOUSE ROAD 2	4	0.33	±0.06	0.22	±0.04	0.25	-
PUMPHOUSE ROAD 3	4	0.15	±0.03	0.14	±0.03	0.15	-
PUMPHOUSE ROAD 4	4	0.17	±0.03	0.16	±0.03	0.16	-
PUMPHOUSE ROAD 5	4	0.23	±0.04	0.21	±0.04	0.22	-
PUMPHOUSE ROAD 6	4	0.21	±0.04	0.20	±0.04	0.21	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-8
PLANT PERIMETER TLD GAMMA RADIATION MEASUREMENTS

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
PLANT PERIMETER SPECIAL							
ALLIED GENERAL AG 1	4	0.18	±0.03	0.15	±0.03	0.17	-
ALLIED GENERAL AG 2	4	0.14	±0.03	0.13	±0.02	0.14	-
ALLIED GENERAL AG 3	4	0.17	±0.03	0.14	±0.03	0.15	-
ALLIED GENERAL AG 4	4	0.14	±0.03	0.13	±0.02	0.14	-
PLANT PERIMETER							
PLANT PERIMETER 1	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 1.25	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 1.50	4	0.20	±0.04	0.16	±0.03	0.18	-
PLANT PERIMETER 1.75	4	0.16	±0.03	0.13	±0.02	0.15	-
PLANT PERIMETER 2	4	0.25	±0.05	0.22	±0.04	0.24	-
PLANT PERIMETER 2.25	4	0.23	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 2.50	4	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 2.75	4	0.16	±0.03	0.14	±0.03	0.16	-
PLANT PERIMETER 3	4	0.19	±0.03	0.16	±0.03	0.18	-
PLANT PERIMETER 3.25	4	0.20	±0.04	0.16	±0.03	0.18	-
PLANT PERIMETER 3.50	3	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 3.75	4	0.23	±0.04	0.21	±0.04	0.22	-
PLANT PERIMETER 4	3	0.20	±0.04	0.18	±0.03	0.19	
PLANT PERIMETER 4.25	3	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 4.50	4	0.19	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 4.75	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 5	3	0.23	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 5.25	3	0.23	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 5.50	4	0.24	±0.04	0.21	±0.04	0.22	-
PLANT PERIMETER 5.75	4	0.24	±0.04	0.21	±0.04	0.23	-
PLANT PERIMETER 6	4	0.34	±0.06	0.27	±0.05	0.31	-
PLANT PERIMETER 6.25	4	0.27	±0.05	0.23	±0.04	0.25	-
PLANT PERIMETER 6.50	4	0.22	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 6.75	4	0.18	±0.03	0.14	±0.03	0.16	-
PLANT PERIMETER 7	4	0.23	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 7.25	4	0.26	±0.05	0.23	±0.04	0.24	-
PLANT PERIMETER 7.50	4	0.21	±0.04	0.16	±0.03	0.19	-
PLANT PERIMETER 7.75	4	0.21	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 8	4	0.21	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 8.25	4	0.23	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 8.50	4	0.21	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 8.75	4	0.20	±0.04	0.19	±0.03	0.19	-
PLANT PERIMETER 9	4	0.25	±0.05	0.19	±0.03	0.21	-
PLANT PERIMETER 9.25	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 9.50	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 9.75	4	0.20	±0.04	0.16	±0.03	0.18	-
PLANT PERIMETER 10	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 11	3	0.18	±0.03	0.16	±0.03	0.17	-

- Insufficient data; standard deviaiton not calculated for <5 samples.

TABLE 3-8
PLANT PERIMETER TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
PLANT PERIMETER							
PLANT PERIMETER 12	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 13	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 14	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 15	4	0.20	±0.04	0.19	±0.03	0.19	-
PLANT PERIMETER 16	4	0.24	±0.04	0.21	±0.04	0.23	-
PLANT PERIMETER 17	4	0.25	±0.05	0.23	±0.04	0.24	-
PLANT PERIMETER 18	4	0.20	±0.05	0.18	±0.03	0.20	-
PLANT PERIMETER 19	4	0.21	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 20	4	0.27	±0.05	0.21	±0.04	0.23	-
PLANT PERIMETER 21	4	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 22	3	0.19	±0.03	0.16	±0.03	0.18	-
PLANT PERIMETER 23	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 24	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 25	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 26	4	0.15	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 27	3	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 28	3	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 29	3	0.15	±0.03	0.14	±0.03	0.14	-
PLANT PERIMETER 30	3	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 31	3	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 32	3	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 33	3	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 34	4	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 35	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 36	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 37	4	0.19	±0.03	0.18	±0.03	0.19	-
PLANT PERIMETER 38	4	0.23	±0.04	0.21	±0.03	0.22	-
PLANT PERIMETER 39	4	0.19	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 40	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 41	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 42	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 43	4	0.23	±0.04	0.22	±0.04	0.23	-
PLANT PERIMETER 44	4	0.18	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 45	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 46	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 47	4	0.19	±0.03	0.18	±0.03	0.19	-
PLANT PERIMETER 48	4	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 49	4	0.30	±0.05	0.26	±0.05	0.28	-
PLANT PERIMETER 50	4	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 51	4	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 52	4	0.19	±0.03	0.19	±0.03	0.19	-
PLANT PERIMETER 53	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 54	4	0.15	±0.03	0.14	±0.02	0.14	-
PLANT PERIMETER 55	4	0.14	±0.03	0.13	±0.02	0.13	-
PLANT PERIMETER 56	4	0.15	±0.03	0.13	±0.02	0.14	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-8
PLANT PERIMETER TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
PLANT PERIMETER							
PLANT PERIMETER 57	4	0.17	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 57.25	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 57.50	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 57.75	4	0.23	±0.04	0.16	±0.03	0.18	-
PLANT PERIMETER 58	4	0.22	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 58.25	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 58.50	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 58.75	4	0.19	±0.03	0.18	±0.03	0.19	-
PLANT PERIMETER 59	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 59.25	4	0.18	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 59.50	4	0.21	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 59.75	4	0.19	±0.03	0.19	±0.03	0.19	-
PLANT PERIMETER 60	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 60.25	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 60.50	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 60.75	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 61	4	0.18	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 61.25	4	0.18	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 61.50	4	0.17	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 61.75	4	0.18	±0.03	0.14	±0.03	0.17	-
PLANT PERIMETER 62	4	0.17	±0.03	0.16	±0.03	0.16	-
PLANT PERIMETER 62.25	4	0.16	±0.03	0.15	±0.03	0.15	-
PLANT PERIMETER 62.50	4	0.19	±0.03	0.16	±0.03	0.18	-
PLANT PERIMETER 62.75	4	0.24	±0.04	0.23	±0.04	0.23	-
PLANT PERIMETER 63	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 63.25	4	0.17	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 63.50	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 63.75	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 64	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 64.25	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 64.50	4	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 64.75	4	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 65	3	0.18	±0.03	0.17	±0.03	0.17	-
PLANT PERIMETER 65.25	3	0.23	±0.04	0.21	±0.04	0.22	-
PLANT PERIMETER 65.50	3	0.27	±0.05	0.24	±0.04	0.25	-
PLANT PERIMETER 65.75	3	0.22	±0.04	0.21	±0.04	0.22	-
PLANT PERIMETER 66	4	0.26	±0.05	0.24	±0.04	0.25	-
PLANT PERIMETER 66.25	4	0.28	±0.05	0.25	±0.05	0.27	-
PLANT PERIMETER 66.50	4	0.18	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 66.75	4	0.21	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 67	4	0.18	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 67.25	4	0.21	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 67.50	4	0.20	±0.04	0.20	±0.04	0.20	-
PLANT PERIMETER 67.75	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 68	4	0.17	±0.03	0.15	±0.03	0.16	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-8
PLANT PERIMETER TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
PLANT PERIMETER 68.25	4	0.17	±0.04	0.16	±0.03	0.17	-
PLANT PERIMETER 68.50	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 68.75	4	0.22	±0.04	0.21	±0.04	0.22	-
PLANT PERIMETER 69	4	0.24	±0.04	0.22	±0.04	0.23	-
PLANT PERIMETER 69.25	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 69.50	4	0.18	±0.03	0.17	±0.03	0.17	-
PLANT PERIMETER 69.75	4	0.20	±0.04	0.19	±0.03	0.19	-
PLANT PERIMETER 70	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 70.25	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 70.50	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 70.75	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 71	4	0.17	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 71.25	4	0.21	±0.04	0.20	±0.04	0.20	-
PLANT PERIMETER 71.50	4	0.20	±0.04	0.19	±0.03	0.20	-
PLANT PERIMETER 71.75	4	0.22	±0.04	0.20	±0.04	0.21	-
PLANT PERIMETER 72	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 72.25	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 72.50	4	0.18	±0.03	0.16	±0.03	0.18	-
PLANT PERIMETER 72.75	4	0.18	±0.03	0.17	±0.03	0.18	-
PLANT PERIMETER 73	4	0.17	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 73.25	4	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 73.50	4	0.19	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 73.75	4	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 74	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 74.25	4	0.15	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 74.50	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 74.75	4	0.18	±0.03	0.15	±0.03	0.17	-
PLANT PERIMETER 75	4	0.16	±0.03	0.14	±0.03	0.15	-
PLANT PERIMETER 75.25	4	0.17	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 75.50	4	0.14	±0.03	0.13	±0.02	0.14	-
PLANT PERIMETER 75.75	4	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 76	4	0.16	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 76.25	4	0.18	±0.03	0.16	±0.03	0.17	-
PLANT PERIMETER 76.50	4	0.17	±0.03	0.14	±0.03	0.16	-
PLANT PERIMETER 76.75	4	0.17	±0.03	0.15	±0.03	0.16	-
PLANT PERIMETER 77	4	0.20	±0.04	0.18	±0.03	0.19	-
PLANT PERIMETER 78	4	0.18	±0.03	0.16	±0.03	0.18	-
PLANT PERIMETER 79	4	0.19	±0.03	0.18	±0.03	0.18	-
PLANT PERIMETER 79.25	4	0.19	±0.03	0.18	±0.03	0.19	-
PLANT PERIMETER 79.50	4	0.20	±0.04	0.16	±0.03	0.19	-
PLANT PERIMETER 79.75	4	0.21	±0.04	0.19	±0.03	0.21	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-9
SOUTH CAROLINA TLD GAMMA RADIATION MEASUREMENTS

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
CITIES AND TOWNS							
AIKEN (LAURENS ST) O	4	0.27	±0.05	0.24	±0.04	0.25	-
AIKEN (LAURENS ST) I	4	0.37	±0.07	0.30	±0.05	0.34	-
AIKEN (SILVER B RD)O	4	0.26	±0.05	0.19	±0.03	0.23	-
AIKEN (SILVER B RD)I	4	0.26	±0.05	0.24	±0.04	0.26	-
ALLENDALE, SC O	4	0.18	±0.03	0.17	±0.03	0.18	-
ALLENDALE, SC I	4	0.21	±0.04	0.20	±0.04	0.21	-
BARNWELL, SC O	4	0.29	±0.05	0.24	±0.04	0.27	-
BARNWELL, SC I	4	0.31	±0.06	0.23	±0.04	0.26	-
BATESB-LEESVILLE, SC O	4	0.35	±0.06	0.33	±0.06	0.34	-
BATESB-LEESVILLE, SC I	4	0.31	±0.06	0.28	±0.05	0.29	-
BEECH ISLAND, SC O	4	0.30	±0.05	0.27	±0.05	0.28	-
BEECH ISLAND, SC I	4	0.32	±0.06	0.28	±0.05	0.30	-
BLACKVILLE, SC O	4	0.25	±0.05	0.23	±0.03	0.25	-
BLACKVILLE, SC I	4	0.26	±0.05	0.24	±0.04	0.25	-
COLUMBIA (FIRE HQ) O	4	0.33	±0.06	0.30	±0.05	0.32	-
COLUMBIA (FIRE HQ) I	4	0.43	±0.08	0.40	±0.07	0.42	-
COLUMBIA (HARDIN) O	4	0.33	±0.06	0.31	±0.06	0.32	-
COLUMBIA (HARDIN) I	4	0.42	±0.08	0.38	±0.07	0.40	-
COLUMBIA (EAU CLR) O	4	0.36	±0.06	0.31	±0.06	0.33	-
COLUMBIA (EAU CLR) I	4	0.38	±0.07	0.35	±0.06	0.37	-
NORTH COLUMBIA O	4	0.30	±0.05	0.29	±0.05	0.30	-
NORTH COLUMBIA I	4	0.47	±0.08	0.44	±0.08	0.45	-
COLUMBIA (SHANDON) O	4	0.28	±0.05	0.27	±0.05	0.28	-
COLUMBIA (SHANDON) I	4	0.28	±0.05	0.24	±0.04	0.27	-
COLUMBIA (DNTSVIL) O	4	0.36	±0.06	0.31	±0.06	0.34	-
COLUMBIA (DNTSVIL) I	4	0.36	±0.06	0.30	±0.05	0.33	-
COLUMBIA (ST ANDR) O	4	0.33	±0.06	0.31	±0.06	0.32	-
COLUMBIA (ST ANDR) I	4	0.32	±0.06	0.29	±0.05	0.30	-
COLUMBIA (IND PK) O	4	0.33	±0.06	0.30	±0.05	0.31	-
COLUMBIA (IND PK) I	4	0.40	±0.07	0.29	±0.05	0.33	-
COLUMBIA (ATLAS) O	4	0.33	±0.06	0.31	±0.06	0.32	-
COLUMBIA (ATLAS) I	4	0.32	±0.06	0.27	±0.05	0.30	-
WEST COLUMBIA, SC O	4	0.41	±0.07	0.39	±0.07	0.41	-
WEST COLUMBIA, SC I	4	0.39	±0.07	0.37	±0.07	0.38	-
COUCHTON, SC O	3	0.29	±0.05	0.28	±0.05	0.29	-
COUCHTON, SC I	3	0.20	±0.04	0.19	±0.03	0.20	-
EDGEFIELD, SC O	4	0.26	±0.05	0.23	±0.04	0.25	-
EDGEFIELD, SC I	4	0.27	±0.05	0.19	±0.03	0.23	-
ESTILL, SC O	4	0.31	±0.06	0.28	±0.05	0.29	-
ESTILL, SC I	4	0.24	±0.04	0.23	±0.04	0.24	-
GRANITEVILLE,SC O	4	0.26	±0.05	0.23	±0.04	0.24	-
GRANITEVILLE,SC I	4	0.27	±0.05	0.25	±0.04	0.26	-
HAMPTON, SC O	4	0.32	±0.06	0.29	±0.05	0.31	-
HAMPTON, SC I	4	0.31	±0.06	0.26	±0.05	0.29	-
JACKSON, SC O	4	0.29	±0.05	0.27	±0.05	0.28	-
JACKSON, SC I	4	0.32	±0.06	0.30	±0.05	0.31	-

I-stands for inside measurements; O-stands for outside measurements
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-9
SOUTH CAROLINA TLD GAMMA RADIATION MEASUREMENTS, CONT'D.

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
CITIES AND TOWNS							
JOHNSTON, SC O	4	0.33	±0.06	0.31	±0.06	0.32	-
JOHNSTON, SC I	4	0.20	±0.04	0.19	±0.03	0.19	-
LEXINGTON, SC O	4	0.24	±0.04	0.20	±0.04	0.22	-
LEXINGTON, SC I	4	0.43	±0.08	0.39	±0.07	0.41	-
MARTIN, SC O	4	0.18	±0.03	0.17	±0.03	0.18	-
MARTIN, SC I	4	0.16	±0.03	0.15	±0.03	0.16	-
MCCORMICK, SC O	4	0.26	±0.05	0.22	±0.04	0.25	-
MCCORMICK, SC I	4	0.31	±0.06	0.29	±0.05	0.30	-
NEW ELLENTON, SC O	4	0.28	±0.05	0.26	±0.05	0.27	-
NEW ELLENTON, SC I	4	0.38	±0.07	0.34	±0.05	0.36	-
NORTH, SC O	4	0.32	±0.06	0.29	±0.05	0.31	-
NORTH, SC I	0	0.00	±0.00	0.00	±0.00	0.00	-
NORTH AUGUSTA, SC O	4	0.35	±0.06	0.31	±0.06	0.33	-
NORTH AUGUSTA, SC I	4	0.35	±0.06	0.34	±0.06	0.35	-
OLAR, SC O	4	0.31	±0.06	0.23	±0.04	0.29	-
OLAR, SC I	4	0.25	±0.05	0.24	±0.04	0.25	-
ORANGEBURG, SC O	4	0.36	±0.06	0.31	±0.06	0.34	-
ORANGEBURG, SC I	4	0.35	±0.06	0.30	±0.05	0.34	-
SALUDA, SC O	4	0.41	±0.07	0.36	±0.06	0.39	-
SALUDA, SC I	4	0.54	±0.10	0.49	±0.09	0.52	-
SMOAKS, SC O	4	0.24	±0.05	0.23	±0.04	0.24	-
SMOAKS, SC I	4	0.24	±0.05	0.22	±0.04	0.23	-
SPRINGFIELD, SC O	4	0.27	±0.05	0.23	±0.03	0.25	-
SPRINGFIELD, SC I	4	0.24	±0.04	0.22	±0.03	0.23	-
ST MATTHEWS, SC O	4	0.36	±0.06	0.33	±0.06	0.35	-
ST MATTHEWS, SC I	4	0.29	±0.05	0.25	±0.05	0.27	-
SWANSEA, SC O	3	0.36	±0.06	0.30	±0.05	0.34	-
SWANSEA, SC I	3	0.51	±0.09	0.24	±0.04	0.34	-
WAGENER, SC O	4	0.46	±0.08	0.24	±0.04	0.31	-
WAGENER, SC I	4	0.34	±0.06	0.30	±0.05	0.32	-
WILLISTON, SC O	4	0.31	±0.06	0.29	±0.05	0.31	-
WILLISTON, SC I	3	0.38	±0.07	0.31	±0.06	0.33	-
WINDSOR, SC O	4	0.19	±0.03	0.18	±0.03	0.19	-
WINDSOR, SC I	4	0.20	±0.04	0.15	±0.03	0.17	-

I-stands for inside measurements; O-stands for outside measurements
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 3-10
GEORGIA TLD GAMMA RADIATION MEASUREMENTS

TLD, MR/DAY

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
CITIES AND TOWNS							
ALEXANDER, GA O	4	0.19	±0.03	0.18	±0.03	0.19	-
ALEXANDER, GA I	4	0.18	±0.03	0.16	±0.03	0.17	-
AUGUSTA (WATKIN S) O	4	0.27	±0.05	0.26	±0.05	0.27	-
AUGUSTA (WATKIN S) I	4	0.28	±0.05	0.26	±0.05	0.27	-
AUGUSTA (WALTON WAY) O	4	0.32	±0.06	0.30	±0.05	0.31	-
AUGUSTA (WALTON WAY) I	4	0.39	±0.07	0.33	±0.06	0.37	-
AUGUSTA (RYNLD ST) O	4	0.34	±0.06	0.31	±0.05	0.33	-
AUGUSTA (RYNLD ST) I	3	0.37	±0.07	0.35	±0.06	0.36	-
AUGUSTA (EVE&E ST) O	4	0.27	±0.05	0.22	±0.04	0.24	-
AUGUSTA (EVE&E ST) I	4	0.36	±0.06	0.35	±0.06	0.36	-
AUGUSTA (MLDGVE R) O	4	0.25	±0.05	0.24	±0.04	0.25	-
AUGUSTA (MLDGVE R) I	4	0.32	±0.06	0.31	±0.05	0.32	-
AUGUSTA (CENT&TRO) O	4	0.26	±0.05	0.25	±0.05	0.26	-
AUGUSTA (CENT&TRO) I	4	0.34	±0.06	0.33	±0.06	0.34	-
AUGUSTA (CENT AVE) O	4	0.40	±0.07	0.29	±0.05	0.32	-
AUGUSTA (CENT AVE) I	4	0.40	±0.07	0.30	±0.05	0.33	-
GIRARD, GA O	4	0.31	±0.06	0.30	±0.05	0.31	-
GIRARD, GA I	4	0.36	±0.06	0.35	±0.06	0.36	-
HEPHZIBAH, GA O	4	0.34	±0.06	0.21	±0.04	0.30	-
HEPHZIBAH, GA I	4	0.24	±0.04	0.20	±0.04	0.22	-
LINCOLNTON, GA O	4	0.31	±0.06	0.28	±0.05	0.30	-
LINCOLNTON, GA I	4	0.48	±0.09	0.43	±0.08	0.45	-
LOUISVILLE, GA O	4	0.38	±0.07	0.35	±0.06	0.36	-
LOUISVILLE, GA I	4	0.33	±0.06	0.29	±0.05	0.31	-
MCBEAN, GA O	4	0.28	±0.05	0.27	±0.05	0.28	-
MCBEAN, GA I	4	0.32	±0.06	0.29	±0.05	0.31	-
MILLEN, GA O	4	0.26	±0.05	0.23	±0.04	0.25	-
MILLEN, GA I	4	0.21	±0.04	0.20	±0.04	0.21	-
NEWINGTON, GA O	4	0.32	±0.06	0.30	±0.05	0.31	-
NEWINGTON, GA I	4	0.38	±0.07	0.34	±0.06	0.36	-
SARDIS, GA O	4	0.24	±0.04	0.24	±0.04	0.24	-
SARDIS, GA I	4	0.26	±0.05	0.26	±0.05	0.26	-
STATESBORO, GA O	4	0.29	±0.05	0.27	±0.05	0.28	-
STATESBORO, GA I	4	0.30	±0.05	0.28	±0.05	0.29	-
SYLVANIA, GA O	4	0.30	±0.05	0.29	±0.05	0.30	-
SYLVANIA, GA I	4	0.55	±0.10	0.47	±0.09	0.52	-
THOMPSON, GA O	4	0.41	±0.07	0.37	±0.07	0.39	-
THOMPSON, GA I	4	0.40	±0.07	0.35	±0.06	0.37	-
WADLEY, GA O	4	0.33	±0.06	0.31	±0.06	0.32	-
WADLEY, GA I	3	0.30	±0.05	0.22	±0.04	0.27	-
WAYNESBORO, GA O	4	0.24	±0.04	0.22	±0.04	0.23	-
WAYNESBORO, GA I	4	0.21	±0.04	0.20	±0.04	0.21	-
WRENS, GA O	4	0.26	±0.05	0.24	±0.04	0.26	-
WRENS, GA I	4	0.41	±0.07	0.35	±0.06	0.38	-

I- stands for inside measurements; O stands for outside measurements.
- Insufficient data; standard deviation not caculated for <5 samples.

TABLE 3-11
1988 AMBIENT AIR CONCENTRATIONS

Pollutant	Quarter	EPA Measuring Interval	EPA Ambient Air Std.	SRS Measuring Interval	Ambient Air Concentrations 36G[a]	37G[b]	38G	39G	40G	41G
NO_2	1st	Annual	30	Quarterly	-	-	6	5	5	3
(ppb)	2nd	Annual	30	Quarterly	-	-	4	3	3	2
	3rd	Annual	30	Quarterly	-	-	3	1	3	2
	4th	Annual	30	Quarterly	4	-	5	4	6	5
PM_{10}	1st	24 hr	150 max	24 hr	-	-	36.4	34.4[c] 31.6[d]	33.8	135.1
($\mu g/m^3$)			50	QGM[e]	-	-	15.9	17.2[c] 15.7[d]	18.5	24.1
	2nd	24 hr	150 max	24 hr	-	-	69.2	73.6[c] 65.2[d]	59.3	68.7
			50	QGM[e]	-	-	29.6	29.6[c] 26.8[d]	27.1	29.3
	3rd	24 hr	150 max	24 hr	-	-	60.6	53.3[c] 47.1[d]	51.0	48.7
			50	QGM[e]	-	-	31.3	28.2[c] 26.7[d]	29.8	25.9
	4th	24 hr	150 max	24 hr	17.9	-	31.7	33.0[c] 32.7[d]	24.3	21.5
			50	QGM[e]	12.7	-	15.6	13.0[c] 13.3[d]	13.9	13.2
(PM_{10})		Annual	50	AGM[f]	12.7	-	23.1	21.8[c] 20.6[d]	22.4	23.1
Sulfur	1st	3 hr	500	3 hr	-	-	-	35	48	-
Dioxide		24 hr	140	24 hr	-	-	-	20	21	-
(ppb)		Annual	50	Quarterly	-	-	-	3	3	-
	2nd	3 hr	500	3 hr	-	-	-	22	46	-
		24 hr	140	24 hr	-	-	-	10	20	-
		Annual	50	Quarterly	-	-	-	3	6	-
	3rd	3 hr	500	3 hr	-	-	-	19	75	-
		24 hr	140	24 hr	-	-	-	5	28	-
		Annual	50	Quarterly	-	-	-	1	2	-
	4th	3 hr	500	3 hr	46	-	-	16	61	-
		24 hr	140	24 hr	26	-	-	5	16	-
		Annual	50	Quarterly	15	-	-	1	3	-
Ozone(O_3)	1st	1 hr	120	1 hr	-	-	-	27	-	-
(ppb)	2nd	1 hr	120	1 hr	-	-	-	92	-	-
	3rd	1 hr	120	1 hr	-	-	-	96	-	-
	4th	1 hr	120	1 hr	-[g]	-	-	87	-	-

[a] Station 36G was placed in service for the fourth quarter.
[b] Station 37G was taken out of service
[c] Routine samplers.
[d] Co-located particulate samplers.
[e] Quarterly Geometric Mean.
[f] Annual Geometric Mean.
[g] Station 36G was inoperative during the fourth quarter.
- No measurements taken.

TABLE 3-12
1987 SOUTH CAROLINA
AMBIENT AIR QUALITY MEASUREMENTS

SUSPENDED PARTICULATES, $\mu g/m^3$

South Carolina Locations[a]	No. of Observations	24-hr Maximum	Geometric Mean	Exceeds Std. SC 250 (24-hr)	Exceeds Std. SC 60 (yr)
1	53	197	44	no	no
2	60	90	47	no	no
3	56	107	50	no	no
4	---	---	---		---

SULFUR DIOXIDE, $\mu g/m^3$

South Carolina Locations[a]	No. of Observations	24-hr Maximum	Arithmetic Mean	Exceeds Std. SC 1,300 (3-hr)	Exceeds Std. SC 365 (24-yr)	Exceeds Std. SC 80 (yr)
1	---	---	---	---	---	---
2	4,016	55	13	no	no	no
3	1,787	33	14	no	no	no
4	---	---	---	---	---	---

NITROGEN DIOXIDE, $\mu g/m^3$

South Carolina Locations[a]	No. of Observations	24-hr Maximum	Arithmetic Mean	Exceeds Std. SC 100 (yr)
1	---	---	---	---
2	---	---	---	---
3	---	---	---	---
4	5,209	40[b]	8	no

LEAD, $\mu g/m^3$

South Carolina Locations[a]	No. of Observations	Maximum Quarterly Average	Exceeds Std. SC 1.5 (Quarterly Mean)
1	52	0.028	no
2	62	0.079	no
3	56	0.083	no
4	---	---	---

[a] South Carolina locations: (1) Fire Station, Beech Island; (2) EQC Office, Greenville: (3) SCDHEC, Columbia; (4) Barnwell-S21.

[b] One-hour maximum.

--- Station not designed for this measurement.

TABLE 3-13
1987 GEORGIA
AMBIENT AIR QUALITY MEASUREMENTS

SUSPENDED PARTICULATES, $\mu g/m^3$

Georgia Locations[a]	No. of Observations	24-hr Maximum	Geometric Mean	Exceeds Std. GA 150 (24-hr)	Exceeds Std. GA 75 (yr)
1	56	85	43	no	no
2	52	90	44	no	no
3	57	106	59	no	no
4	59	89	41	no	no
5	58	86	49	no	no
6	58	88	40	no	no
7	---	---	---	---	---

SULFUR DIOXIDE, $\mu g/m^3$

Georgia Locations[a]	No. of Observations	24-hr Maximum	Arithmetic Mean	Exceeds Std. GA 1,300 (3-hr)	Exceeds Std. GA 365 (24-yr)	Exceeds Std. GA 80 (yr)
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---

LEAD, $\mu g/m^3$

Georgia Locations[a]	No. of Observations	Maximum Quarterly Average	Exceeds Std. GA 1.5 (Quarterly Mean)
1	---	---	---
2	52	0.07	no
3	---	---	---
4	---	---	---
5	---	---	---
6	---	---	---
7	---	---	---

[a] Georgia locations: (1) Sandbar Ferry Junior High School, Augusta; (2) Student Center, Medical College Augusta; (3) Water Treatment Plant, Augusta; (4) Bungalow Road School, Augusta; (5) Clara Jenkins School, Augusta; (6) City Hall, Wrens; (7) Regional Youth Development Center, Augusta.

--- Station not designed for this measurment.

Chapter 4

Surface Water Monitoring Program

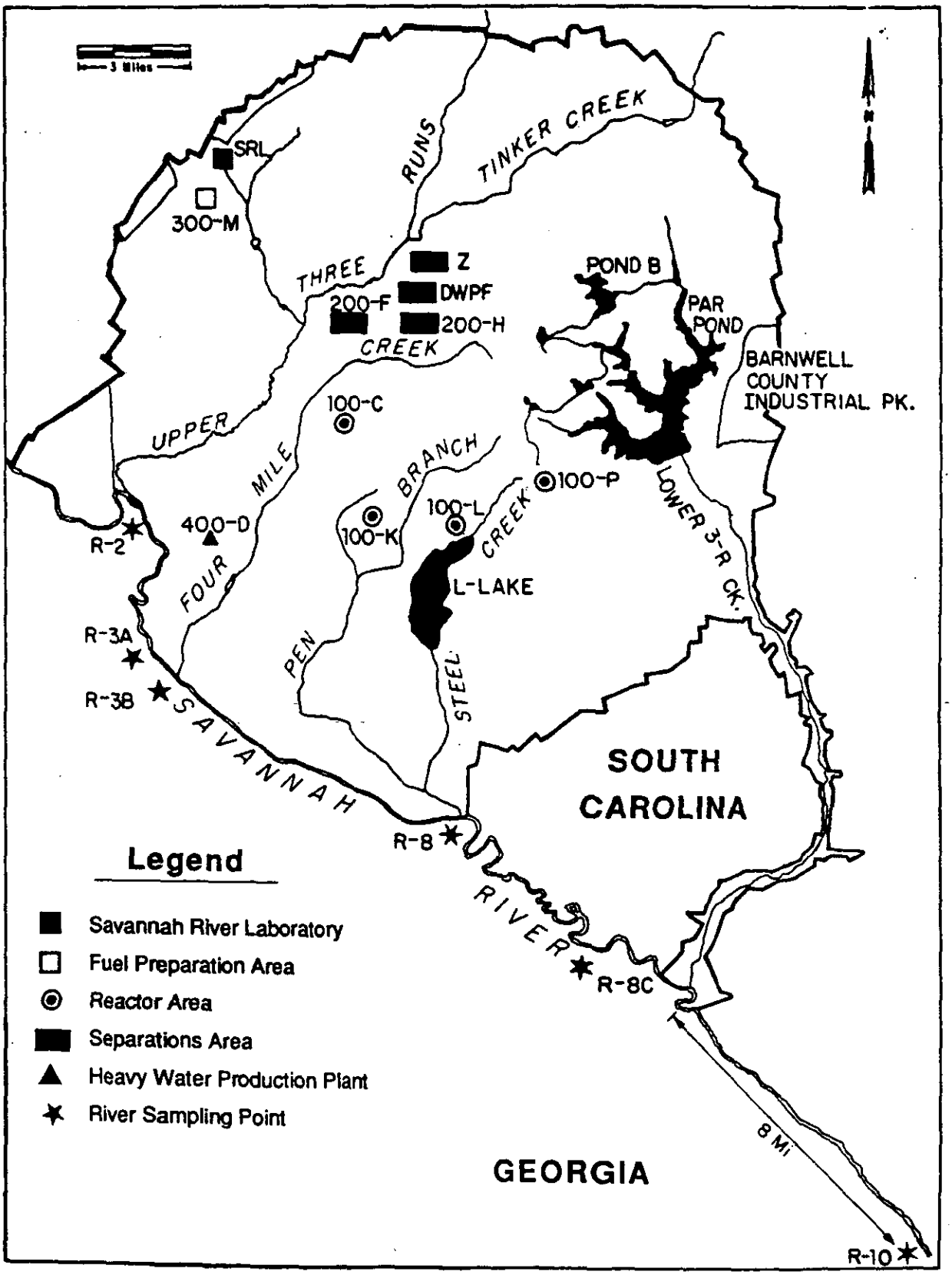


Figure 4-1. River sampling locations

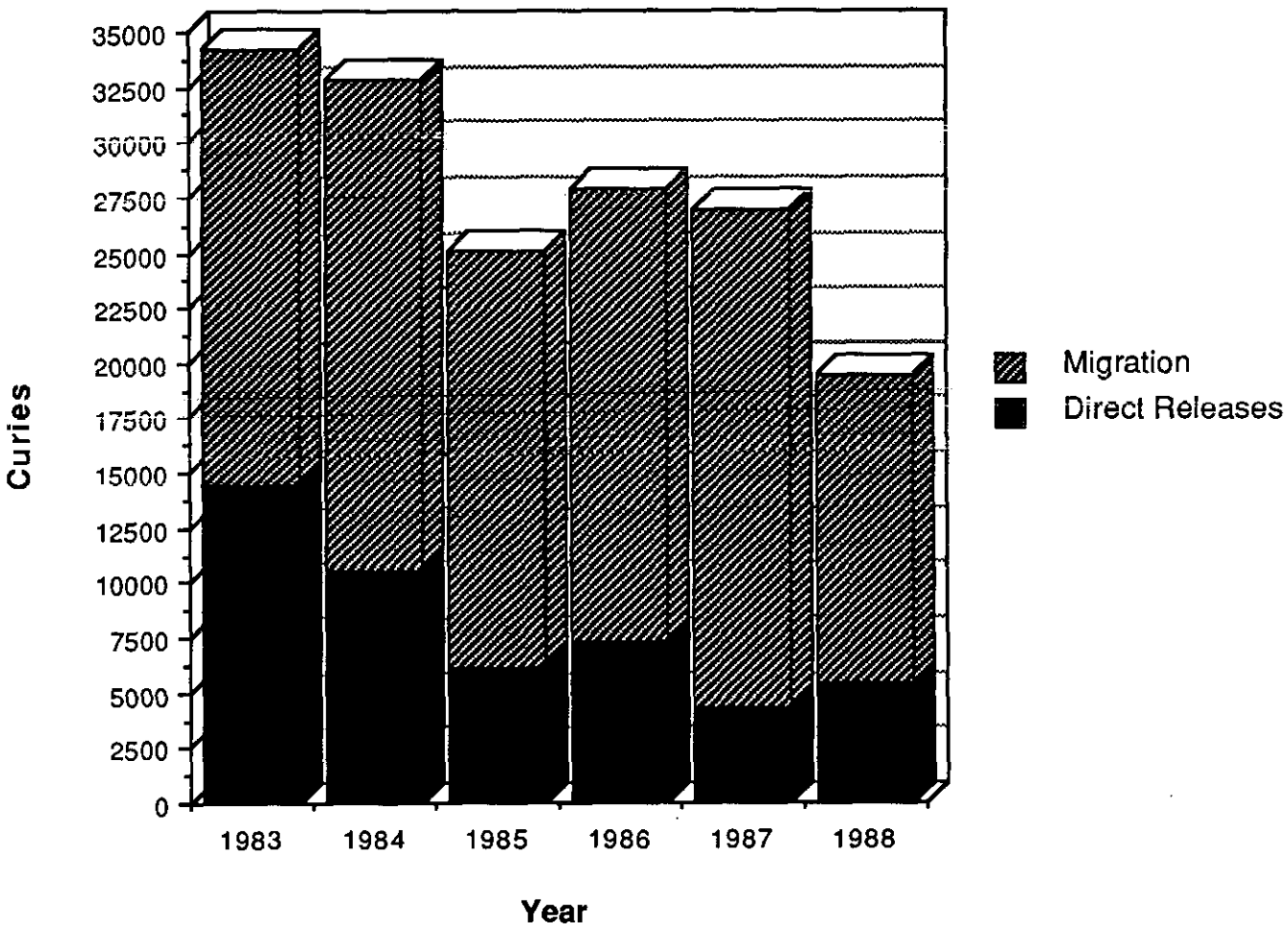


Figure 4-2. Tritium releases at source

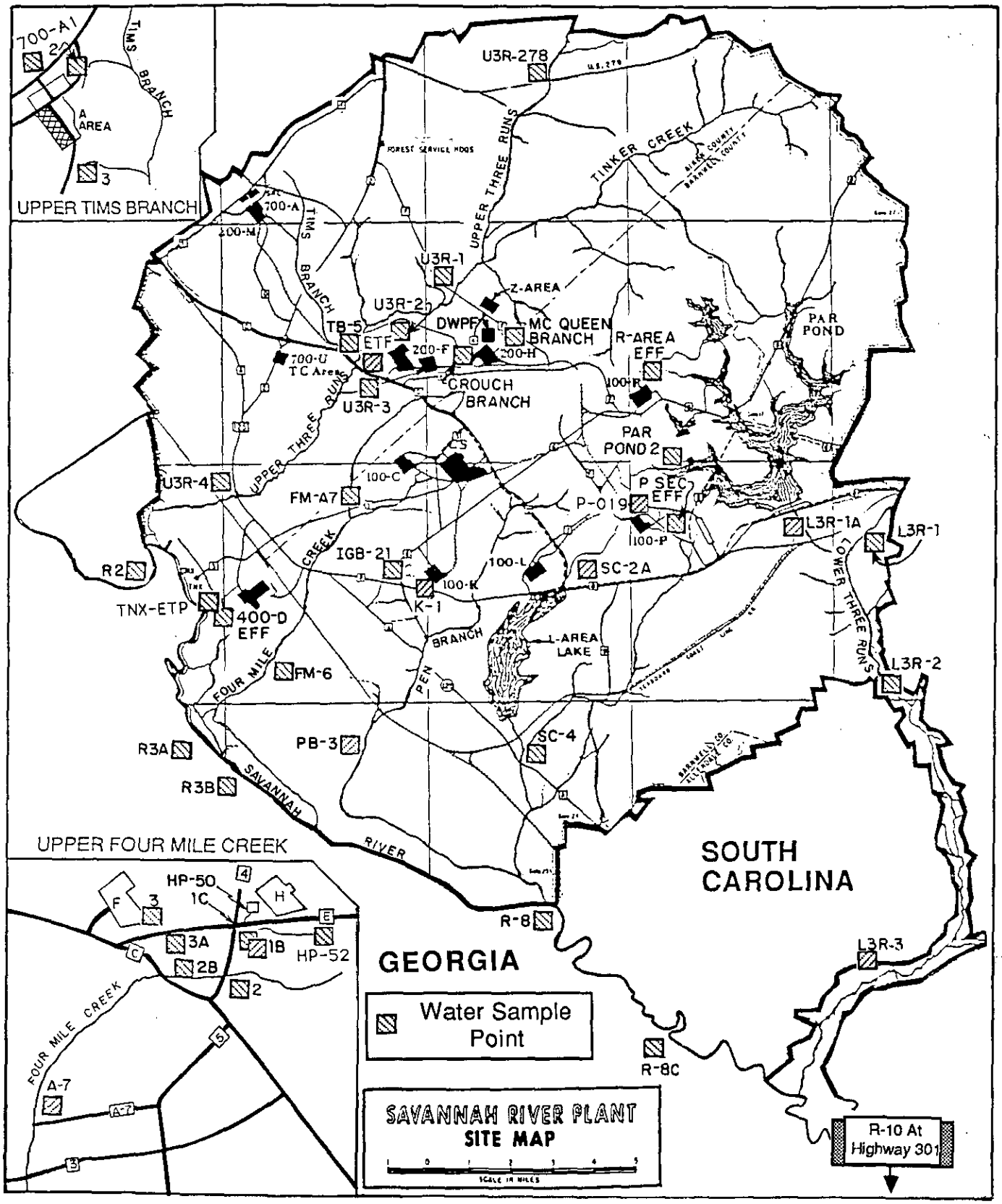


Figure 4-3. Stream and river sample locations

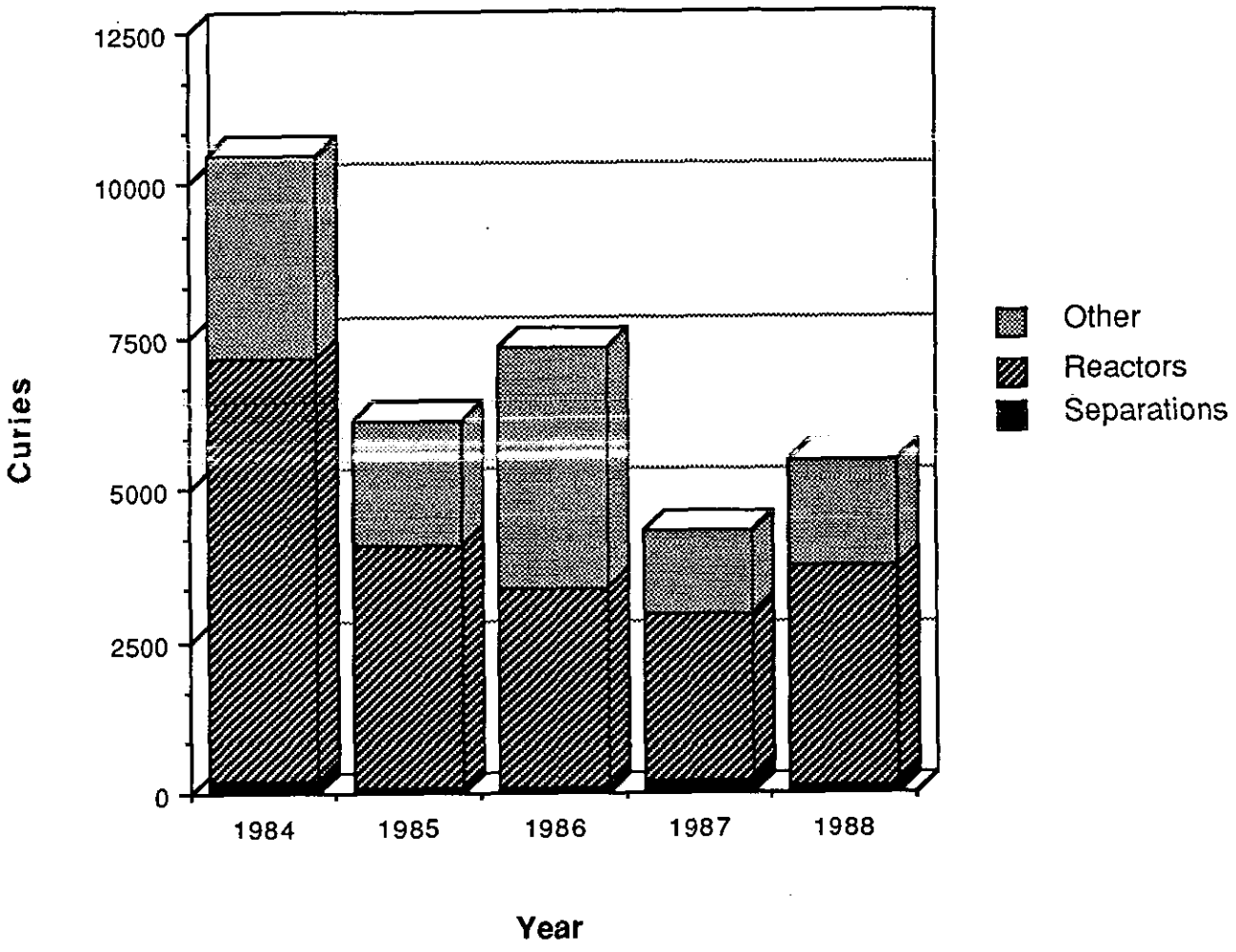


Figure 4-4. Direct tritium (liquid) releases to streams excluding seepage and migration

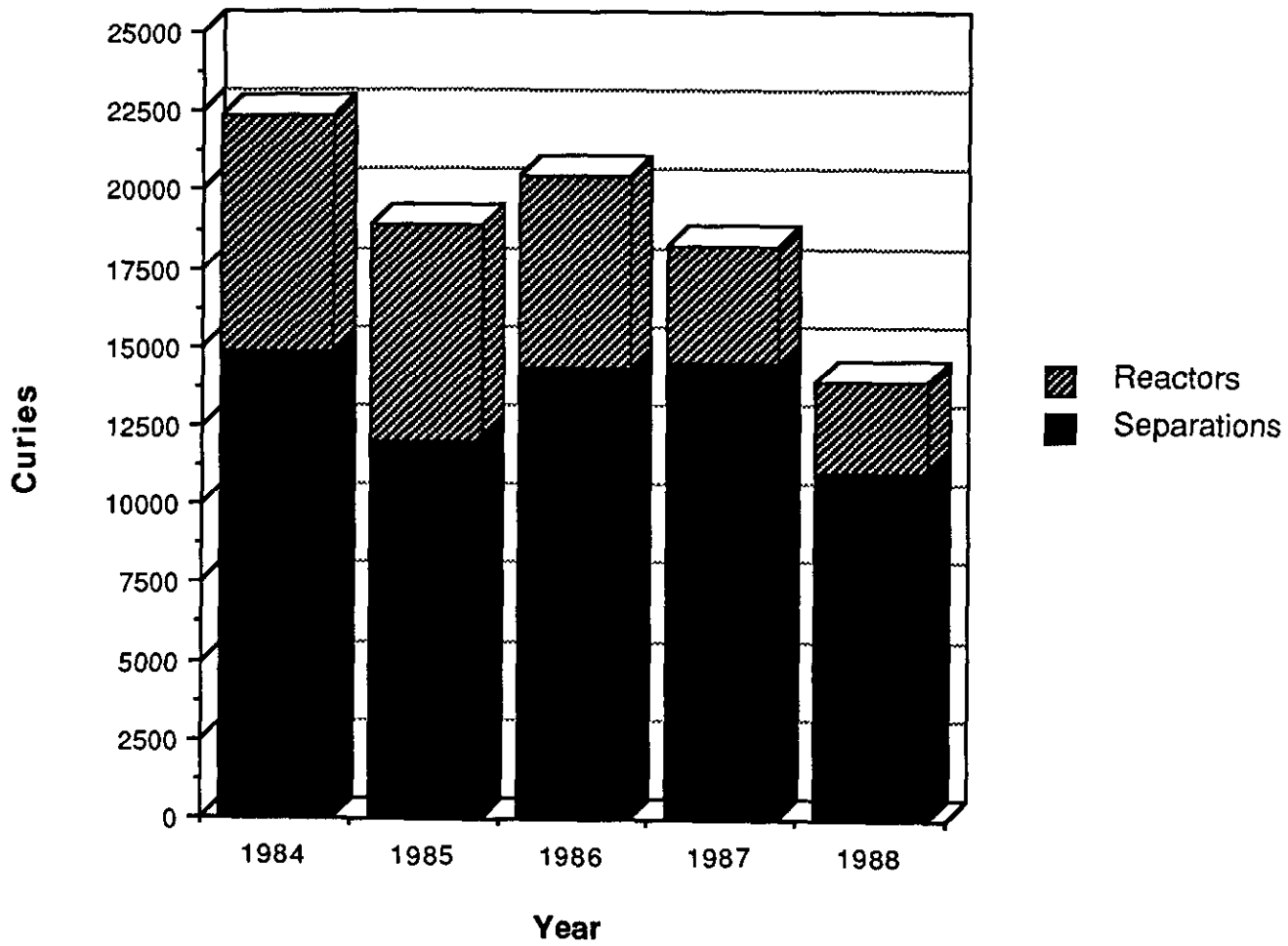


Figure 4-5. Tritium migration from seepage basins

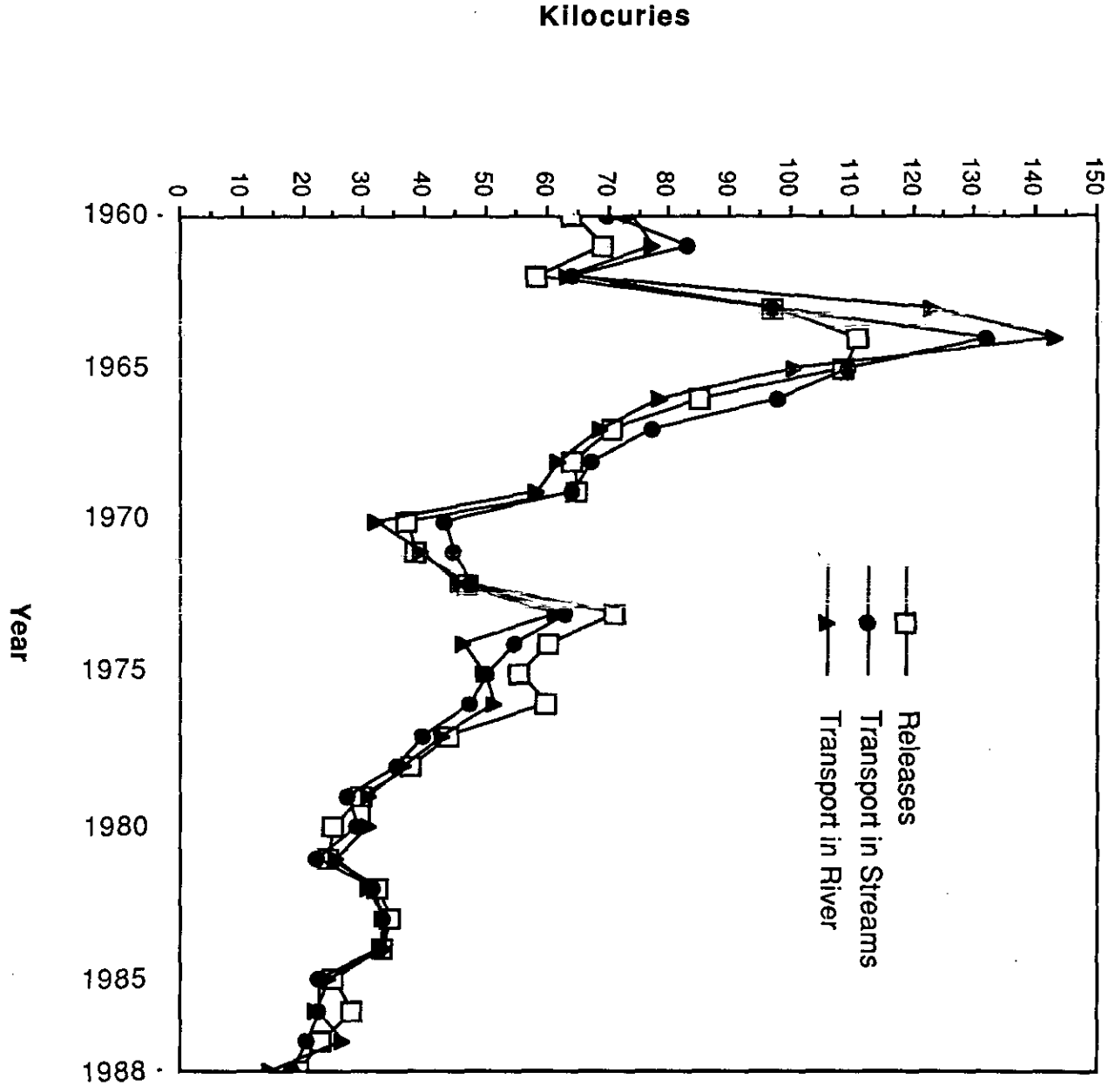


Figure 4-6. Tritium balance summary, 1960-1988

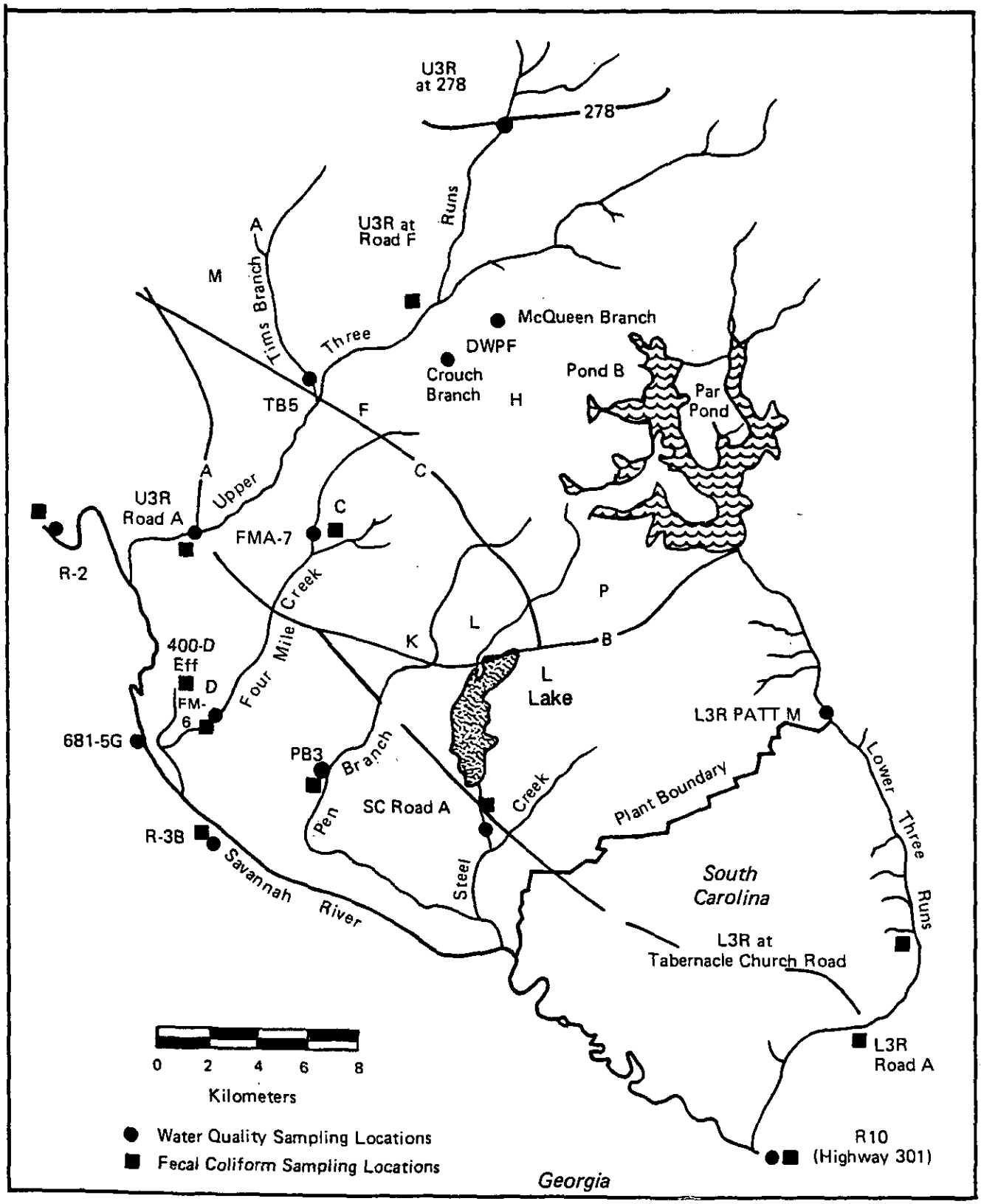


Figure 4-7. Stream sampling locations (water quality)

TABLE 4-1
RADIOACTIVITY IN SAVANNAH RIVER WATER

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Gross Alpha, pCi/L				
SAVANNAH RIVER							
R-2 DISSOLVED	52	0.35	±0.35	-0.18	±0.25	0.03	±0.22
R-2 SUSPENDED	51	0.77	±0.57	-0.17	±0.23	0.08	±0.30
R-3A ABOVE VOGTLE	52	0.50	±0.57	-0.26	±0.30	0.02	±0.26
R-3B BELOW VOGTLE	52	0.50	±0.41	-0.17	±0.23	0.04	±0.26
R-8C BELOW LITTLE HELL	26	0.34	±0.34	-0.17	±0.24	0	±0.16
R-8 BELOW STEEL CREEK	26	0.18	±0.39	-0.17	±0.24	0.02	±0.14
R-8B	26	0.21	±0.39	-0.17	±0.24	0.02	±0.16
R-10 DISSOLVED	52	0.49	±0.56	-0.26	±0.30	0.04	±0.26
R-10B HIGHWAY 301	52	0.24	±0.28	-0.26	±0.30	0	±0.14
R-10 SUSPENDED	52	0.45	±0.42	-0.26	±0.30	0.04	±0.24
GDNR-RIVER-2	12	0.17	±0.24	-0.13	±0.05	0.01	±0.14
GDNR-RIVER-10A	13	0.26	±0.38	-0.12	±0.05	0.06	±0.22
CONTROL							
EDISTO RIVER	51	1.9	±0.93	-0.09	±0.17	0.64	±0.80
			Nonvolatile Beta, pCi/L				
SAVANNAH RIVER							
R-2 DISSOLVED	52	3.3	±1.4	0.19	±1.1	1.8	±1.3
R-2 SUSPENDED	51	3.0	±1.2	-1.3	±2.0	0.22	±1.2
R-3A ABOVE VOGTLE	52	2.9	±1.3	0.25	±1.0	1.6	±1.3
R-3B BELOW VOGTLE	52	2.9	±1.2	0.44	±0.95	1.8	±1.1
R-8C BELOW LITTLE HELL	26	3.0	±1.2	0.32	±1.1	1.6	±1.3
R-8 BELOW STEEL CREEK	26	2.7	±1.2	0.06	±1.0	1.6	±1.3
R-8B	26	3.2	±1.0	0.26	±1.1	1.7	±1.3
R-10 DISSOLVED	52	3.0	±1.3	0.16	±0.91	1.5	±1.1
R-10B HIGHWAY 301	52	2.9	±1.4	0.16	±0.91	1.8	±1.3
R-10 SUSPENDED	52	2.3	±1.2	-1.1	±0.93	0.43	±1.1
GDNR-RIVER-2	12	2.9	±1.0	1.2	±1.0	2.0	±1.1
GDNR-RIVER-10A	13	2.0	±1.2	1.1	±1.0	1.5	±0.54
CONTROL							
EDISTO RIVER	51	3.4	±1.3	-0.26	±1.1	1.2	±1.2
			H-3, pCi/mL				
SAVANNAH RIVER							
R-2 ABOVE PLANT	52	0.81	±0.21	-0.35	±0.18	0.27	±0.40
R-3A ABOVE VOGTLE	52	11	±0.38	-0.11	±0.11	1.5	±3.6
R-3B BELOW VOGTLE	52	3.6	±0.24	0.16	±0.18	1	±1.7
R-8C BELOW LITTLE HELL	26	5.3	±0.25	2.1	±0.19	3.4	±1.9
R-8 BELOW STEEL CREEK	26	5	±0.33	0.97	±0.16	2.5	±1.9
R-10 HIGHWAY 301	52	5.5	±0.25	1.8	±0.13	3.4	±2.2
R-10B HIGHWAY 301	52	5.7	±0.25	0.37	±0.20	3.3	±2.4
CONTROL							
EDISTO RIVER	51	0.75	±0.28	-0.14	±0.18	0.33	±0.34

TABLE 4-1
RADIOACTIVITY IN SAVANNAH RIVER WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Sr-89, 90, pCi/L				
SAVANNAH RIVER							
R-8C BELOW LITTLE HELL	12	0.87	±0.81	-0.41	±1.3	0.24	±0.74
R-8 BELOW STEEL CREEK	12	1.2	±1.0	0	±0.78	0.44	±0.82
R-8B	12	1.4	±1.2	0	±0.80	0.33	±0.98
R-2 ABOVE PLANT IC	12	1.7	±3.0	0	±0.09	0.32	±0.96
R-3A ABOVE VOGTLE	12	0.33	±1.3	-0.05	±2.6	0.13	±0.24
R-3B BELOW VOGTLE	12	0.38	±0.32	-0.15	±2.7	0.08	±0.28
R-10 HIGHWAY 301 IC	12	4.1	±1.0	-0.61	±2.7	0.72	±3.1
			Mn-54, pCi/L				
R-2 ABOVE PLANT IC	52	0	±37	0	±0.02	0	-
R-3A ABOVE VOGTLE	52	0	±36	0	±0.02	0	-
R-3B BELOW VOGTLE	50	0	±99	0	±0.02	0	-
R-10 HIGHWAY 301 IC	52	0	±14	0	±0.02	0	-
			Cr-51, pCi/L				
R-2 ABOVE PLANT IC	52	0	±660	0	±0.30	0	-
R-3A ABOVE VOGTLE	52	0	±600	0	±0.30	0	-
R-3B BELOW VOGTLE	50	0	±990	0	±0.30	0	-
R-10 HIGHWAY 301 IC	52	0	±700	0	±0.30	0	-
			Co-60, pCi/L				
R-2 ABOVE PLANT IC	52	23[a]	±2.1	0	±0.03	0.45	±6.3
R-3A ABOVE VOGTLE	52	0	±35	0	±0.03	0	-
R-3B BELOW VOGTLE	50	0	±130	0	±0.03	0	-
R-10 HIGHWAY 301 IC	52	0	±19	0	±0.03	0	-
			Zn-65, pCi/L				
R-2 ABOVE PLANT IC	52	0	±70	0	±0.05	0	-
R-3A ABOVE VOGTLE	52	0	±66	0	±0.05	0	-
R-3B BELOW VOGTLE	50	0	±250	0	±0.05	0	-
R-10 HIGHWAY 301 IC	52	0	±36	0	±0.05	0	-
			Zr-95, Nb-95, pCi/L				
R-2 ABOVE PLANT IC	52	0	±75	0	±0.06	0	-
R-3A ABOVE VOGTLE	52	0	±83	0	±0.06	0	-
R-3B BELOW VOGTLE	50	0	±220	0	±0.06	0	-
R-10 HIGHWAY 301 IC	52	0	±36	0	±0.06	0	-
			Ru-103,106, pCi/L				
R-2 ABOVE PLANT IC	52	0	±370	0	±0.23	0	-
R-3A ABOVE VOGTLE	52	0	±300	0	±0.23	0	-
R-3B BELOW VOGTLE	50	0	±760	0	±0.23	0	-
R-10 HIGHWAY 301 IC	52	0	±170	0	±0.23	0	-

[a]Based on Savannah River Laboratory analyses of ^{60}Co concentrations in the Savannah River, this data is considered anomalous.
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-1
RADIOACTIVITY IN SAVANNAH RIVER WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			I-131, pCi/L				
R-2 ABOVE PLANT IC	52	0	±530	0	±0.10	0	-
R-3A ABOVE VOGTLE	52	0	±530	0	±0.10	0	-
R-3B BELOW VOGTLE	50	0	±1000	0	±0.10	0	-
R-10 HIGHWAY 301 IC	52	0	±380	0	±0.10	0	-
			Cs-134, pCi/L				
R-2 ABOVE PLANT IC	51	0	±36	0	±0.02	0	-
R-3A ABOVE VOGTLE	52	0	±32	0	±0.02	0	-
R-3B BELOW VOGTLE	50	0	±72	0	±0.02	0	-
R-10 HIGHWAY 301 IC	52	0	±19	0	±0.02	0	-
			Cs-137, pCi/L				
R-2 ABOVE PLANT IC	52	0.068	±0.0054	0.0015	±0.02	0.014	±0.032
R-3A ABOVE VOGTLE	52	7.2[a]	±1.7	0	±0.02	0.14	±2.0
R-3B BELOW VOGTLE	50	0	±87	0	±0.02	0	-
R-10 HIGHWAY 301 IC	52	0.123	±0.014	0.035	±0.02	0.065	±0.051
			Ce-141,144, pCi/L				
R-2 ABOVE PLANT IC	52	0	±330	0	±0.17	0	-
R-3A ABOVE VOGTLE	51	0	±300	0	±0.17	0	-
R-3B BELOW VOGTLE	50	0	±190	0	±0.17	0	-
R-10 HIGHWAY 301 IC	52	0	±140	0	±0.17	0	-
			Pu-238, fCi/L				
R-2 ABOVE PLANT IC	4	0.89	±2.00	-0.04	±0.32	0.21	-
R-3A ABOVE VOGTLE	4	0.38	±1.22	-0.31	±0.44	-0.01	-
R-3B ABOVE VOGTLE	4	0.77	±3.48	-0.23	±0.59	0.10	-
R-10 HIGHWAY 301 IC	4	0.16	±0.32	-0.23	±2.00	0.01	-
			Pu-239, fCi/L				
R-2 ABOVE PLANT IC	4	13.10	±4.43	-0.12	±0.24	3.55	-
R-3A ABOVE VOGTLE	4	10.87	±3.72	0.06	±0.37	2.91	-
R-3B BELOW VOGTLE	4	12.97	±7.19	0.36	±0.34	3.75	-
R-10 HIGHWAY 301 IC	4	15.88	±5.79	0.12	+0.29	4.15	-

[a]Based on downriver ^{137}Cs concentrations during this time, R-3A ^{137}Cs data evaluated as anomalous
- Insufficient data; standard deviation not calculated for <5 samples

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Alpha, pCi/L				
TIMS BRANCH							
TB-2 A EFFLUENT	52	4.2	±1.2	-0.08	±0.29	0.50	±1.3
TB-3 M EFFLUENT	52	9.6	±3.3	-1.7	±3.4	4.1	±5.4
TB-5 NEAR ROAD C	26	3.3	±0.78	0.16	±0.33	0.68	±1.2
700-A1 OUTFALL	25	3.5	±0.60	0.08	±0.17	0.68	±1.3
UPPER THREE RUNS CREEK							
U3R-2F STORM SEWER	52	23	±2.8	0.35	±0.43	3.0	±7.0
CROUCH BRANCH	26	1.7	±0.63	-0.09	±0.13	0.46	±0.98
MCQUEEN BRANCH	20	5.7	±1.0	-0.06	±0.23	1.0	±2.9
U3R-3 ROAD C	26	2.8	±0.59	0.5	±0.52	1.2	±0.98
U3R-4 ROAD A	26	3.6	±0.68	0.25	±0.44	1.2	±1.4
U3R F-3	52	5.8	±2.5	-0.12	±0.67	0.68	±2.1
BEAVER DAM CREEK							
400-D EFFLUENT	52	0.6	±0.46	-0.33	±0.05	0.13	±0.32
FOUR MILE CREEK							
BURIAL GROUND DITCH	11	12	±2.1	0.43	±0.46	2.1	±6.8
FM-1B COOL TOWER EFF	51	4.3	±0.97	0.25	±0.28	1.2	±1.8
HP 52 PADDLE WHEEL	27	6.5	±1.9	-0.28	±0.09	1.9	±3.2
H H-3 FAC OUTFALL 50	24	3.8	±1.1	0.32	±0.40	1.2	±1.4
FM-1C H EFFLUENT	52	2.2	±1.1	0.05	±0.56	0.88	±1.1
FM-2 ROAD 4	26	1.9	±0.79	-0.09	±0.18	0.54	±0.94
FM-2B ABOVE F EFF	26	2.4	±0.69	0	±0.18	0.43	±1.0
FM-3 F EFFLUENT	52	6.5	±1.4	0.43	±0.38	1.7	±2.5
FM-3A BELOW F EFF	26	4.5	±0.85	0.08	±0.06	0.95	±1.8
FM-A7 ROAD A-7	26	2.2	±0.85	0	±0.23	0.53	±1.1
FM-6 ROAD A	26	1.3	±0.36	-0.08	±0.16	0.27	±0.70
INDIAN GRAVE BRANCH							
IGB-7	4	0.69	±0.49	0	±0.23	0.28	-
IGB-21 800' S OF 6-1	4	0.86	±0.54	0.16	±0.32	0.37	-
PEN BRANCH							
PB-1 K SEC EFFLUENT	52	0.56	±0.55	-0.09	±0.17	0.15	±0.34
PB-3 ROAD A	26	0.77	±0.52	-0.20	±0.04	0.13	±0.44
STEEL CREEK							
SC 2A	26	1.0	±0.60	-0.05	±0.19	0.34	±0.60
SC-4 ROAD A	25	0.43	±0.38	-0.17	±0.23	0.07	±0.32
PAR POND							
R-AREA EFFLUENT	53	1.8	±0.59	-0.09	±0.17	0.20	±0.62
PP-2 PUMPHOUSE	53	0.46	±0.32	-0.22	±0.04	0.06	±0.24
LOWER THREE RUNS CREEK							
SC-1 P SEC EFFLUENT	53	0.72	±0.58	-0.32	±0.03	0.08	±0.36
L3R-1A ROAD B	26	0.51	±0.35	-0.18	±0.04	0.05	±0.30
L3R-2 PATTERSON MILL	25	1.1	±0.34	0	±0.00	0.19	±0.52
L3R-3 ROAD A	12	0.42	±0.38	-0.09	±0.17	0.13	±0.28
SAVANNAH RIVER SWAMP							
TNX 1	26	3.0	±0.70	0.17	±0.24	0.98	±1.4

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Nonvolatile Beta, pCi/L				
TIMS BRANCH							
TB-2 A EFFLUENT	52	7.6	±1.7	-0.19	±1.1	1.7	±3.1
TB-3 M EFFLUENT	52	38	±21	-8.8	±21	8.7	±16
TB-5 NEAR ROAD C	26	6.9	±0.96	1.0	±0.74	2.8	±2.5
700-A1 OUTFALL	25	14	±1.4	3.0	±1.4	7.5	±6.5
UPPER THREE RUNS CREEK							
U3R-2 F STORM SEWER	52	62	±3.8	2.4	±5.2	11	±18
CROUCH BRANCH	25	6.7	±0.96	2.5	±1.3	3.9	±2.3
MCQUEEN BRANCH	20	11	±2.1	0.99	±0.71	5.1	±6.7
U3R-3 ROAD C	26	2.9	±1.1	0.25	±1.1	1.8	±1.3
U3R-4 ROAD A	26	4.9	±0.79	0.31	±1.1	1.6	±1.9
U3R F-3	52	20	±2.5	-1.2	±0.88	8.3	±9.2
BEAVER DAM CREEK							
400-D EFFLUENT	52	5.2	±0.86	1.1	±1.2	2.2	±1.7
FOUR MILE CREEK							
BURIAL GROUND DITCH	11	74	±4.5	13	±2.1	32	±35
FM-1B COOL TOWER EFF	51	35	±3.1	6.8	±1.5	16	±12
HP 52 PADDLE WHEEL	27	36	±3.2	-0.21	±0.60	16	±18
H H-3 FAC OUTFALL 50	24	9.2	±1.9	2.2	±1.1	4.7	±3.0
FM-1C H EFFLUENT	52	150[a]	±5.9	6.3	±1.7	30	±62
FM-2 ROAD 1	26	170[a]	±6.8	12	±2.1	35	±65
FM-2B ABOVE F EFF	26	150[a]	±6.2	26	±2.9	68	±61
FM-3 F EFFLUENT	52	160[a]	±6.0	6.4	±1.5	42	±68
FM-3A BELOW F EFF	26	84	±4.4	5.7	±1.2	26	±38
FM-A7 ROAD A-7	26	92	±5.8	34	±3.3	53	±22
FM-6 ROAD A	26	59	±3.9	26	±2.5	34	±14
INDIAN GRAVE BRANCH							
IGB-7	4	1.6	±0.69	0.44	±1.1	0.85	-
IGB-21 800' S OF 6-1	4	1.6	±1.2	1.0	±1.2	1.3	-
PEN BRANCH							
PB-1 K SEC EFFLUENT	52	4.8	±1.1	1.2	±1.2	2.2	±1.4
PB-3 ROAD A	26	3.8	±1.3	0.62	±0.93	1.9	±1.5
STEEL CREEK							
SC 2A	26	12	±1.2	5.6	±1.7	7.9	±3.0
SC-4 ROAD A	25	4.3	±1.3	1.1	±1.1	2.2	±1.4
PAR POND							
R-AREA EFFLUENT	53	41	±2.9	10	±1.8	20	±14
PP-2 PUMPHOUSE	53	12	±1.2	2.6	±1.3	6.3	±3.4
LOWER THREE RUNS CREEK							
SC-1 P SEC EFFLUENT	53	32	±7.8	0.6	±0.67	4.9	±8.2
L3R-1A ROAD B	26	12	±1.3	2.1	±1.4	5.4	±3.6
L3R-2 PATTERSON MILL	25	5.3	±1.6	2.4	±1.1	3.9	±1.4
L3R-3 ROAD A	12	6.1	±1.4	2.1	±1.3	3.9	±2.0
SAVANNAH RIVER SWAMP							
TNX 1	26	27	±2.7	3.1	±1.4	5.9	±9.3

[a]Due to H-Area Retention Basin release on July 8, 1988.
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			H-3 pCi/mL				
TIMS BRANCH							
TB-2 A EFFLUENT	52	2.3	±0.46	-0.98	±0.51	0.51	±1.3
TB-5 NEAR ROAD C	26	2.6	±0.47	0.5	±0.77	1.5	±1.3
700-A1 OUTFALL	26	1.9	±0.50	-0.58	±0.92	0.63	±1.4
UPPER THREE RUNS CREEK							
U3R-4 ROAD A	26	14	±0.61	1.2	±0.43	3.4	±5.5
BEAVER DAM CREEK							
400-D EFFLUENT	52	160	±1.9	0.82	±0.44	41	±95
FOUR MILE CREEK							
BURIAL GROUND DITCH	11	48000	±31	26	±0.84	5200	±29000
FM-1B COOL TOWER EFF	52	16	±0.70	0.43	±0.78	4.1	±6.0
HP 52 PADDLE WHEEL	26	16	±0.70	0.6	±0.98	3.7	±7.6
H H-3 FAC OUTFALL 50	26	85	±1.4	5.6	±1.2	32	±39
FM-1C H EFFLUENT	52	73	±2.3	3.8	±1.2	19	±32
FM-2 ROAD 4	26	200	±2.0	92	±2.0	140	±66
FM-2B ABOVE F EFF	26	1000	±30	590	±20	800	±250
FM-3 F EFFLUENT	52	25	±0.80	1.1	±0.55	4.7	±8.4
FM-3A BELOW F EFF	26	2900	±52	1200	±15	2000	±920
FM-A7 ROAD A-7	26	1300	±35	900	±14	1100	±220
FM-6 ROAD A	26	740	±7.8	520	±3.2	630	±150
INDIAN GRAVE BRANCH							
IGB-7	4	130	±14	56	±7.1	96	-
IGB-21 800' S OF 6-1	52	12000	±240	1500	±39	6500	±4000
PEN BRANCH							
PB-1 K SEC EFFLUENT	52	15	±1.2	0.26	±0.43	2.3	±4.6
P019	53	23	±0.79	1.7	±0.43	7.7	±7.6
PB-3 ROAD A	26	96	±1.5	13	±1.4	48	±48
STEEL CREEK							
SC-2A	27	130	±2.8	9.1	±0.62	91	±57
SC-4 ROAD A	26	4.5	±0.51	1.2	±0.79	2.7	±1.7
PAR POND							
R-AREA EFFLUENT	52	43	±2.1	3.1	±0.46	17	±19
PP-2 PUMPHOUSE	52	14	±1.4	5.2	±0.47	8.5	±4.4
LOWER THREE RUNS CREEK							
SC-1 P SEC EFFLUENT	52	43	±1.0	1.4	±0.44	10	±15
L3R-1A ROAD B	26	13	±1.5	5.7	±0.53	8.9	±4.1
L3R-2 PATTERSON MILL	26	8.7	±1.4	0.91	±0.48	5	±4.0
L3R-3 ROAD A	12	4.5	±1.2	0.97	±0.48	2.7	±2.0
SAVANNAH RIVER SWAMP							
TNX 1	26	6.7	±1.2	-0.68	±0.40	0.4	±2.8

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Sr-89, 90, pCi/L				
FOUR MILE CREEK							
FM-1B COOL TOWER EFF	12	3.0	±3.4	-0.17	±1.3	1.1	±1.5
HP 52 PADDLE WHEEL	12	3.6	±1.4	0	±1.2	0.82	±2.1
FM-1C H EFFLUENT	12	4.3	±1.5	0.31	±1.3	1.7	±2.6
FM-2 ROAD 4	12	15	±3.2	2.7	±1.4	5.9	±7.1
FM-2B ABOVE F EFF	12	28	±4.1	8.8	±2.2	18	±13
FM-3 F EFFLUENT	12	9.1	±2.5	0	±3.3	4.6	±6.4
FM-3A BELOW F EFF	12	9.9	±2.4	0.37	±1.1	4.2	±5.9
FM-A7 ROAD A-7	12	29	±3.9	12	±2.1	21	±9.7
FM-6 ROAD A	12	15	±3.5	2.9	±2.1	10	±6.8
INDIAN GRAVE BRANCH							
IGB-7	4	1.4	±2.9	-1.5	±1.7	0.03	-
IGB-21 800' S OF 6-1	4	0.65	±2.0	0	±1.0	0.42	-
PEN BRANCH							
PB-3 ROAD A	12	1.7	±2.1	-0.09	±1.4	0.39	±0.96
STEEL CREEK							
SC-2A	12	0.87	±1.9	-0.25	±1.3	0.30	±0.70
SC-4 ROAD A	12	2.4	±1.6	-0.44	±1.7	0.57	±1.5
PAR POND							
PP-2 PUMPHOUSE	12	2.2	±2.1	1.1	±1.2	0.43	±1.4
LOWER THREE RUNS CREEK							
L3R-1A ROAD B	12	1.2	±1.9	-0.46	±1.5	0.34	±0.98
L3R-2 PATTERSON MILL	11	0.98	±1.6	-0.74	±1.3	0.11	±0.68
L3R-3 ROAD A	12	1.5	±1.6	-0.49	±1.7	0.59	±1.0
			Chemical Cs, pCi/L				
UPPER THREE RUNS CREEK							
U3R-4 ROAD A	12	3.7	±0.34	-1.6	±1.1	0.17	±2.3
FOUR MILE CREEK							
FM-1C H EFFLUENT	12	71[a]	±4.8	2.1	±1.3	22	±44
FM-2 ROAD 4	12	120[a]	±6.8	5.0	±1.9	23	±66
FM-3 F EFFLUENT	12	67[a]	±5.1	1.1	±0.72	26	±41
FM-3A BELOW F EFF	12	48[a]	±4.4	1.2	±0.74	17	±29
FM-A7 ROAD A-7	12	27[a]	±3.5	7	±1.4	13	±12
FM-6 ROAD A	12	8.9	±1.9	1.8	±1.4	4.7	±4.3
PEN BRANCH							
PB-3 ROAD A	12	1.2	±0.72	-1.0	±1.7	0.16	±0.92
STEEL CREEK							
SC-2A	12	11	±2.1	0.21	±1.2	5.9	±6.6
SC-4 ROAD A	12	3.9	±2.2	-0.28	±1.1	0.91	±2.5
PAR POND							
PP-2 PUMPHOUSE	11	5.8	±5.6	1.5	±1.3	4.2	±2.6
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	12	4.7	±1.8	0.44	±1.7	2.5	±2.9
L3R-3 ROAD A	12	2.5	±1.4	-0.1	±1.3	1.3	±1.8

[a]Due to H-Area Retention Basin release on July 8, 1988.
-Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			U/Pu, pCi/L				
TIMS BRANCH							
TB-2 A EFFLUENT	50	0.97	±0.61	-0.34	±0.48	0.32	±0.64
TB-3 M EFFLUENT	52	18	±16	-6.3	±12	5.8	±12
UPPER THREE RUNS CREEK							
U3R-4 ROAD A	24	0.64	±0.64	-0.33	±0.66	0.11	±0.48
U3R F-3	51	19	±11	-0.36	±2.2	2.6	±6.5
FOUR MILE CREEK							
FM-6 ROAD A	26	0.66	±0.66	-0.49	±0.57	0.09	±0.44
PEN BRANCH							
PB-3 ROAD A	25	0.36	±0.51	-0.33	±0.66	0.03	±0.28
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	27	0.68	±0.83	-0.18	±0.37	0.1	±0.44
L3R-2 DIP	50	0.72	±0.89	-0.32	±0.45	0.1	±0.42
SAVANNAH RIVER SWAMP							
TNX 1	25	0.36	±0.51	-0.18	±0.35	0.09	±0.26
			Mn-54, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±17	0	±1.5	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±44	0	±1.7	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±32	0	±1.3	0	-
			Cr-51, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±320	0	±58	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±1300	0	±42	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±980	0	±61	0	-
			Co-60, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±18	0	±1.0	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±45	0	±2.2	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±26	0	±1.2	0	-

- Insufficient data; *standard deviation not calculated for <5 samples.*

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Zn-65, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±49	0	±3.1	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±88	0	±5.4	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±120	0	±3.6	0	-
			Zr-95, NB-95, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±30	0	±4.5	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±110	0	±4.8	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±66	0	±2.5	0	-
			Ru-103, 106, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±150	0	±13	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±110	0	±18	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±380	0	±14	0	-
			I-131, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±4400	0	±33	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±5000	0	±65	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±4400	0	±37	0	-
			Cs-134, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	0	±17	0	±1.2	0	-
PEN BRANCH							
PB-3 ROAD A	12	0	±48	0	±1.8	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±39	0	±0.21	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-2
RADIOACTIVITY IN SRS STREAM WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Cs-137, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	3.7	±2.2	0	±2.5	0.31	±2.1
PEN BRANCH							
PB-3 ROAD A	12	0	±53	0	±1.9	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±38	0	±1.8	0	-
			Ce-141, 144, pCi/L				
FOUR MILE CREEK							
FM-6 ROAD A	12	31	±16	0	±5.6	2.6	±18
PEN BRANCH							
PB-3 ROAD A	12	0	±410	0	±8.1	0	-
LOWER THREE RUNS CREEK							
L3R-2 PATTERSON MILL	11	0	±340	0	±7.8	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Alpha, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	0.66	±0.55	0.24	±0.34	0.41	-
F SEEPAGE BASIN 2	4	0.92	±0.54	0.17	±0.33	0.44	-
F SEEPAGE BASIN 3	4	0.24	±0.36	0.13	±0.30	0.18	-
200 H							
H SEEPAGE BASIN 1	4	0.33	±0.41	-0.16	±0.04	0.13	-
H SEEPAGE BASIN 2	3	0.17	±0.33	-0.08	±0.16	0.03	-
H SEEPAGE BASIN 3	4	0.86	±3.0	-0.08	±0.16	0.26	-
H SEEPAGE BASIN 4	4	0.47	±0.42	-0.08	±0.16	0.12	-
			Alpha, pCi/L				
300 M							
300-M SEEPAGE BASIN	2	240	±28	230	±28	240	-
700 A							
A AREA 1	0[a]						
TNX							
TNX 904-102G	11	6.5	±5.1	-3.9	±1.2	2.2	±5.0
REACTOR AREAS							
100-P SEEPAGE BASIN	4	6.4	±4.0	0.86	±1.7	3.4	-
100-C SEEPAGE BASIN	4	1.2	±3.0	-0.86	±1.7	0.29	-
100-L SEEPAGE BASIN	2	0.86	±1.7	-0.83	±1.7	0.02	-
			Nonvolatile Beta, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	29	±2.7	1.8	±1.2	16	-
F SEEPAGE BASIN 2	4	12	±1.6	5.9	±1.6	9.2	-
F SEEPAGE BASIN 3	4	16	±1.9	11	±2.0	14	-
200 H							
H SEEPAGE BASIN 1	4	19	±2.3	6.1	±1.2	10	-
H SEEPAGE BASIN 2	3	20	±2.5	6.5	±1.4	13	-
H SEEPAGE BASIN 3	4	7.3	±1.3	1.6	±0.94	3.3	-
H SEEPAGE BASIN 4	4	14	±2.2	4.1	±1.3	11	-
			Nonvolatile Beta, pCi/L				
300 M							
300-M SEEPAGE BASIN	2	2600	±73	2400	±73	2500	-
700 A							
A AREA 1	0[a]						
TNX							
TNX 904-102G	11	25	±14	1.3	±0.78	13	±17
REACTOR AREAS							
100-P SEEPAGE BASIN	4	660	±39	110	±18	330	-
100-C SEEPAGE BASIN	4	180	±20	150	±22	170	-
100-L SEEPAGE BASIN	2	71	±17	35	±13	53	-

[a] Basin was dry.
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			H-3, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	56000	±700	11000	±150	32000	-
F SEEPAGE BASIN 2	4	46000	±630	21000	±210	38000	-
F SEEPAGE BASIN 3	4	40000	±590	27000	±230	34000	-
200 H							
H SEEPAGE BASIN 1	4	200000	±1800	±1900	±120	71000	-
H SEEPAGE BASIN 2	4	93000	±890	2100	±76	39000	-
H SEEPAGE BASIN 3	4	12000	±100	4900	±31	8900	-
H SEEPAGE BASIN 4	4	82000	±840	1700	±70	38000	-
700 A							
A AREA 1	0[a]						
TNX							
TNX 904-102G	12	±3.6	±0.51	0.24	±0.53	1.9	±2.2
REACTOR AREAS							
100-P SEEPAGE BASIN	4	290000	±2200	3900	±330	100000	-
100-C SEEPAGE BASIN	4	160	±16	53	±5.1	90	-
100-L SEEPAGE BASIN	2	6700	±75	3800	±8.4	5300	-
			pH, pH units				
200 F							
F SEEPAGE BASIN 1	2	3.1					
F SEEPAGE BASIN 2	2	2.9					
F SEEPAGE BASIN 3	2	2.8					
200 H							
H SEEPAGE BASIN 1	2	2.7					
H SEEPAGE BASIN 2	2	2.9					
H SEEPAGE BASIN 3	2	6.6					
H SEEPAGE BASIN 4	2	3.4					
700 A							
A AREA 1	0[a]						
			Sr-89, 90, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	0.15	±0.08	0.09	±0.06	0.11	-
F SEEPAGE BASIN 2	4	0.21	±0.07	0.08	±0.05	0.12	-
F SEEPAGE BASIN 3	4	0.13	±0.07	0.09	±0.05	0.10	-
200 H							
H SEEPAGE BASIN 1	4	2.3	±0.19	0.03	±0.04	0.66	-
H SEEPAGE BASIN 2	4	1.7	±0.16	0.06	±0.05	0.47	-
H SEEPAGE BASIN 3	4	0.06	±0.09	0.04	±0.05	0.05	-
H SEEPAGE BASIN 4	4	2.6	±0.2	0.07	±0.05	0.77	-
REACTOR AREAS							
100-L SEEPAGE BASIN	2	0.04	±0.06	0.01	±0.06	0.03	-

[a] Basin was dry.
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Cr-51, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	0	±35	0	±2.8	0	-
F SEEPAGE BASIN 2	4	0	±34	0	±7.2	0	-
F SEEPAGE BASIN 3	4	15	±13	0	±7.8	3.6	-
200 H							
H SEEPAGE BASIN 1	4	0	±22	0	±1.1	0	-
H SEEPAGE BASIN 2	3	0	±18	0	±7.6	0	-
H SEEPAGE BASIN 3	3	0	±19	0	±2.2	0	-
H SEEPAGE BASIN 4	4	0	±36	0	±7.6	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	±18	0	±2.1	0	-
100-C SEEPAGE BASIN	4	0	±11	0	±0.13	0	-
100-L SEEPAGE BASIN	2	0	±15	0	±9.4	0	-
			Co-58, 60, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	0	±0.45	0	±0.07	0	-
F SEEPAGE BASIN 2	4	0	±0.57	0	±0.26	0	-
F SEEPAGE BASIN 3	4	0	±0.67	0	±0.30	0	-
200 H							
H SEEPAGE BASIN 1	4	0	±0.46	0	±0.06	0	-
H SEEPAGE BASIN 2	3	0	±0.54	0	±0.25	0	-
H SEEPAGE BASIN 3	3	0	±0.45	0	±0.07	0	-
H SEEPAGE BASIN 4	4	0	±0.51	0	±0.36	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	±0.54	0	±0.08	0	-
100-C SEEPAGE BASIN	4	0.06	±0.03	0	±0.06	0.02	-
100-L SEEPAGE BASIN	2	0	±0.45	0	±0.41	0	-
			Zr-95, Nb-95, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	5.1	±1.2	0	±0.22	1.5	-
F SEEPAGE BASIN 2	4	0	±2.1	0	±0.81	0	-
F SEEPAGE BASIN 3	4	0	±2.6	0	±0.85	0	-
200 H							
H SEEPAGE BASIN 1	4	0	±1.5	0	±0.10	0	-
H SEEPAGE BASIN 2	3	0	±1.2	0	±0.72	0	-
H SEEPAGE BASIN 3	3	0	±1.4	0	±0.18	0	-
H SEEPAGE BASIN 4	4	0	±2.0	0	±0.80	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	±1.5	0	±0.17	0	-
100-C SEEPAGE BASIN	4	0	±1.1	0	±0.03	0	-
100-L SEEPAGE BASIN	2	0	±1.6	0	±0.90	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Ru-103, pCi/mL				
200 E							
F SEEPAGE BASIN 1	4	0	±2.1	0	±0.31	0	-
F SEEPAGE BASIN 2	4	0	±1.9	0	±0.80	0	-
F SEEPAGE BASIN 3	4	0	±3.0	0	±0.80	0	-
200 H							
H SEEPAGE BASIN 1	4	0	±1.5	0	±0.11	0	-
H SEEPAGE BASIN 2	3	0	±1.3	0	±0.81	0	-
H SEEPAGE BASIN 3	3	0	±1.5	0	±0.19	0	-
H SEEPAGE BASIN 4	4	0	±2.2	0	±0.82	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	±1.3	0	±0.17	0	-
100-C SEEPAGE BASIN	4	0	±1.0	0	±0.02	0	-
100-L SEEPAGE BASIN	2	0	±1.1	0	±0.83	0	-
			Ru-106, pCi/mL				
200 E							
F SEEPAGE BASIN 1	4	9	±2.2	0	±0.94	3.1	-
F SEEPAGE BASIN 2	4	3.4	±1.7	0	±4.4	0.86	-
F SEEPAGE BASIN 3	4	0	±6.1	0	±4.8	0	-
200 H							
H SEEPAGE BASIN 1	4	0	±4.2	0	±0.55	0	-
H SEEPAGE BASIN 2	3	0	±6.0	0	±2.8	0	-
H SEEPAGE BASIN 3	3	0	±4.7	0	±0.89	0	-
H SEEPAGE BASIN 4	4	0	±5.9	0	±4.4	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	±4.4	0	±0.71	0	-
100-C SEEPAGE BASIN	4	0	±3.9	0	±0.13	0	-
100-L SEEPAGE BASIN	2	0	±4.7	0	±4.4	0	-
			Sb-124, 125, pCi/mL				
200 E							
F SEEPAGE BASIN 1	4	0	1.7	0	±0.37	0	-
F SEEPAGE BASIN 2	4	0	2.0	0	±1.5	0	-
F SEEPAGE BASIN 3	4	0	2.7	0	±1.6	0	-
200 H							
H SEEPAGE BASIN 1	4	0	1.4	0	±0.19	0	-
H SEEPAGE BASIN 2	3	0	1.9	0	±0.91	0	-
H SEEPAGE BASIN 3	3	0	1.7	0	±0.21	0	-
H SEEPAGE BASIN 4	4	0	2.9	0	±1.5	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	1.4	0	±0.22	0	-
100-C SEEPAGE BASIN	4	0	1.5	0	±0.04	0	-
100-L SEEPAGE BASIN	2	0	1.3	0	±1.3	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			I-131, pCi/mL				
200 E							
E SEEPAGE BASIN 1	4	0	950	0	±4.5	0	-
E SEEPAGE BASIN 2	4	0	950	0	±4.1	0	-
E SEEPAGE BASIN 3	4	0	1200	0	±4.0	0	-
200 H							
H SEEPAGE BASIN 1	4	0	290	0	±0.96	0	-
H SEEPAGE BASIN 2	3	0	200	0	±4.9	0	-
H SEEPAGE BASIN 3	3	0	79	0	±4.5	0	
H SEEPAGE BASIN 4	4	0	1000	0	±4.3	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	180	0	±0.88	0	-
100-C SEEPAGE BASIN	4	0	160	0	±0.03	0	-
100-L SEEPAGE BASIN	2	0	100	0	±9.4	0	-
			Cs-134, pCi/mL				
200 E							
E SEEPAGE BASIN 1	4	0	0.5	0	±0.07	0	-
E SEEPAGE BASIN 2	4	0	0.51	0	±0.39	0	-
E SEEPAGE BASIN 3	4	0	0.61	0	±0.37	0	-
200 H							
H SEEPAGE BASIN 1	4	0	0.41	0	±0.06	0	-
H SEEPAGE BASIN 2	3	0	0.62	0	±0.36	0	-
H SEEPAGE BASIN 3	3	0	0.53	0	±0.08	0	-
H SEEPAGE BASIN 4	4	2	1	0	±0.43	0.69	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	0.43	0	±0.06	0	-
100-C SEEPAGE BASIN	4	0	0.44	0	±0.01	0	-
100-L SEEPAGE BASIN	2	0	0.42	0	±0.41	0	-
			Cs-137, pCi/mL				
200 E							
E SEEPAGE BASIN 1	4	20	1.4	2.8	±0.51	9.8	-
E SEEPAGE BASIN 2	4	16	1.1	7.3	±0.73	12	-
E SEEPAGE BASIN 3	4	21	1.5	11	±1.1	16	-
200 H							
H SEEPAGE BASIN 1	4	5.3	0.53	0	±0.34	2.7	-
H SEEPAGE BASIN 2	3	20	1.4	5.9	±0.47	13	-
H SEEPAGE BASIN 3	3	20	1.4	0.87	±0.10	8.7	-
H SEEPAGE BASIN 4	4	35	2.1	8.1	±0.73	19	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0.19	0.05	0	±0.26	0.08	-
100-C SEEPAGE BASIN	4	0.06	0.03	0	±0.12	0.03	-
100-L SEEPAGE BASIN	2	0	0.59	0	±0.52	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-3
RADIOACTIVITY IN SEEPAGE BASIN WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Ce-141, 144, pCi/mL				
200 F							
F SEEPAGE BASIN 1	4	2	1.1	0	±0.85	0.5	-
F SEEPAGE BASIN 2	4	0	4.2	0	±2.8	0	-
F SEEPAGE BASIN 3	4	0	5.5	0	±3.4	0	-
200 H							
H SEEPAGE BASIN 1	4	0.63	0.36	0	±0.65	0.16	-
H SEEPAGE BASIN 2	3	0	4.9	0	±1.9	0	-
H SEEPAGE BASIN 3	3	3.1	1.2	0	±0.68	1	-
H SEEPAGE BASIN 4	4	0	4.5	0	±3.9	0	-
REACTOR AREAS							
100-P SEEPAGE BASIN	4	0	2.2	0	±0.62	0	-
100-C SEEPAGE BASIN	4	0	4.2	0	±0.07	0	-
100-L SEEPAGE BASIN	2	0	3.7	0	±2.2	0	-
			U/Pu, pCi/L				
TNX							
TNX 904-102G	10	13	10	3	±5.9	8.7	±7.9

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 4-4
CALCULATED MIGRATION OF RADIOACTIVITY FROM SEEPAGE BASINS

Location of Measurement	Curies	
	Tritium	Sr-89,90
200-F Seepage Basin to Four Mile Creek (FM A7) minus (FM 3A+FM 2B)	3.33E03±4.06E02	1.19E-01±4.53E-02
200-H Seepage Basins to Four Mile Creek (FM 2B) minus (FM 1C)	3.98E03±1.07E02	8.45E-02±1.50E-02
Burial Ground and 200-H Seepage Basin 4 (FM 3A) minus (FM 3)	3.67E03±5.46E02	-
K Containment Basin to Indian Grave Branch (IBG 21)	2.78E03±3.04E01	-
100-P Seepage Basin to Steel Creek (SC 2A)	1.33E02±3.06E00	1.10E-04±4.32E-04

- Not detected

The ± value represents 2σ uncertainty of total release based only on counting error.

TABLE 4-5
RADIOACTIVITY IN TRANSPORT AT SAMPLE POINTS ON FOUR MILE CREEK

ID	Location	Curies			Water Volume (L)
		Tritium	Sr-89,90	Cs-137	
FM-3	F-Area effluent at Road E	1.42E01±2.26E00	1.39E-02±5.92E-03	7.50E-02±8.20E-03	3.00E09
FM-1C	H-Area effluent at Road E	1.23E01±8.42E-01	1.51E-03±1.18E-03	4.10E-02±1.83E-03	8.32E08
FM-1B	Cooling Tower effluent below H-Area Retention Basin	6.71E00±1.39E00	2.11E-03±3.30E-03	1.14E-02±3.20E-02	1.87E09
FM-2	0.5 mile downstream from Road E	4.82E02±1.02E01	1.91E-02±6.74E-03	6.61E-02±8.16E-03	3.43E09
FM-2B	Above entry of F-Area effluent	3.99E03±1.06E02	8.60E-02±1.38E-02	1.48E-01±7.35E-02	4.94E09
FM-3A	0.3 mile downstream from Road E	3.68E03±5.45E02	6.95E-03±2.74E-03	2.68E-02±4.20E-03	2.07E09
FM-A7	Downstream at Road A-7	1.10E04±2.45E02	2.12E-01±2.88E-02	1.32E-01±2.21E-02	1.03E10
FM-6	Road A	1.12E04±1.10E02	1.81E-01±4.44E-02	8.45E-02±2.83E-02	1.75E10

Desorption of Cs-137 from Four Mile Creek

	Curies
(FM A7) minus (FM1B+FM1C+FM3)	4.60E-03±6.41E-02

The ± value represents 2σ uncertainty of total release based only on counting error.

TABLE 4-6
TRITIUM INVENTORY IN SRS STREAMS AND SAVANNAH RIVER

Area	Release Point	Quantity, Curies 1985	1986	1987	1988	1988 % of Total To River
	Direct Releases					
Reactor						
100 P	Par Pond overflow to Lower Three Runs Creek	420	470	490	327	-
	Process Sewer to Steel Creek	54[a]	a	a	a	-
186 P	Basin overflow to Steel Creek	18[a]	a	a	a	-
100 L	L-Lake overflow to Steel Creek	-	311	520	502	-
	Process Sewer to Steel Creek	8	b	b	b	-
100 K	Reactor HX Cooling Water to Pen Branch	2,590	2,080	1,640	2,470	-
	Process Sewer to Pen Branch	100	130	68	264	-
100 C	Reactor HX Cooling Water to Four Mile Creek	730	250	-	-	-
	Process Sewer to Four Mile Creek	57	32	4	11	-
	Subtotal	3,977	3,273	2,722	3,570	18
Separations						
200 F	Effluent to Four Mile Creek	13	13	13	14	-
200 H	Effluent to Four Mile Creek	71	55	204	12	-
200 H	Effluent Treatment Facility				101	
	Subtotal	84	68	217	127	1
400 D						
420 D	Effluent to Beaver Dam Creek	850	3,350	-	-	-
421 2D	Effluent to Beaver Dam Creek	870	470	-	-	-
772 D	Effluent to Beaver Dam Creek	340	170	-	-	-
	Process Sewer	-	-	1,380	1,740	-
	Subtotal	2,060	3,990	1,380	1,740	9
	Total Direct Release	6,121	7,330	4,320	5,440	28
	Migration					
	Burial Ground and H-Seepage Basin to Four Mile Creek	4,720	5,210	6,150	3,670	-
	200-F Seepage Basin to Four Mile Creek	2,690	1,770	2,760[c]	3,330	-
	200-H Seepage Basin to Four Mile Creek	4,560	7,360	5,630[c]	3,980	-
	100-K 904-88G to Indian Grave Branch	6,770	6,130[d]	3,600	2,780	-
	100-P Seepage Basin to Steel Creek	170	e	130	133	-
	Subtotal	18,910	20,470	18,270	13,900	72
	Total Direct Releases and Migration	25,005	27,800	22,590	19,300	100

[a] 100-P process sewer and 186-P basin overflow was diverted from Steel Creek to Par Pond on May 1, 1985.
[b] Diverted to L Lake.
[c] Flow measurements for FM-2B were estimated from FM-2X.17 for entire year, because flow measurement, at FM-2B were affected by presence of beaver dams.
[d] Flow measurements were estimated for 10/28-12/30 due to an inoperative USGS gauge
[e] USGS flow gauge moved due to construction of L Lake. Gauge inoperative during most of the year.

TABLE 4-6
TRITIUM INVENTORY IN SRS STREAMS AND SAVANNAH RIVER, CONT'D.

Release Point	Quantity, Curies 1985	1986	1987	1988	1988 % of Total To River
Stream Transport					
Tritium measured in streams before entering river:					
Beaver Dam Creek at Swamp	2,180	4,100	1,270	2,510	13
Four Mile Creek at Road A1	11,500	11,640	12,960	11,200	58
Pen Branch at Road A	7,780	5,720[a]	4,450	3,220	17
Steel Creek at Road A	380	390	640	502	3
Lower Three Runs at Patterson Mill	420	470	490	327	2
Upper Three Runs at Road A	-	-	720	535	3
Subtotal	22,260	22,320	20,530	18,300	95
River Transport					
Tritium measured in the Savannah River below SRS				15,900	82
Tritium measured in the Savannah River above SRS				1,300	
Tritium measured in the Savannah River below SRS (downriver minus upriver)	24,100	22,120	26,150	14,600	76

[a] Flow measurements estimated for month of December due to inoperative equipment.

TABLE 4-7
TRITIUM INVENTORY SUMMARY 1960 - 1988

Year	Tritium Available for Transport to River Measured at Source[a] (Curies (Ci))	Tritium in Transport in Streams Before Entry into River (Curies (Ci))	Tritium in Transport Downriver of SRS Minus Ambient Upriver Contribution (Curies (Ci))
1960	64,000[b]	69,600	73,700
1961	69,000[b]	83,000	77,000
1962	58,000[b]	64,000	63,000
1963	97,000[b]	96,900	122,800
1964	111,000[b]	131,600	143,000
1965	108,400	109,200	100,200
1966	84,900	97,800	78,300
1967	70,600	77,000	68,500
1968	63,800	67,200	61,800
1969	64,600	64,000	58,100
1970	36,900	43,200	31,800
1971	38,200	44,700	39,100
1972	46,800	47,300	45,300
1973	71,100	62,800	61,100
1974	59,900	54,600	46,000
1975	55,600	50,000	49,500
1976	59,600	47,400	51,100
1977	43,800	39,700	42,500
1978	37,600	35,300	36,600
1979	29,400	27,100	30,600
1980	24,900	28,800	30,700
1981	23,900	22,100	25,100
1982	32,200	31,300	30,600
1983	34,200	33,000	33,000
1984	32,800	32,600	33,200
1985	25,000	22,300	24,100
1986	27,800	22,300	22,100
1987	22,700	20,500	26,200
1988	19,300	18,300	14,600

[a] Includes direct releases to streams, migration from F-, H-, and K-seepage basins and Radioactive Waste Burial Ground to streams, and Par Pond overflow to Lower Three Runs. R- and P-Area releases to Par Pond are not included.

[b] Includes heat exchanger cooling water released from P Area (of Par Pond origin) to Steel Creek.

TABLE 4-8
1988 RADIOACTIVE LIQUID RELEASES AND CONCENTRATIONS

Nuclide	Curies Released At Emission Source	Below SRS[a] (µCi/mL)	Beaufort-Jasper[b] (µCi/mL)	Port Wentworth[c] (µCi/mL)
H-3	1.93E+04[d]	3.4E-06[e]	2.6E-06[e]	2.5E-06[e]
Co-60	0.00E+00	0.0E+00	0.0E+00	0.0E+00
Sr-90	3.77E-01	3.8E-10[e]	5.0E-11	4.8E-11
I-129	2.20E-02	3.8E-12	2.9E-12	2.8E-12
Cs-137	5.65E-01	1.1E-10[e]	7.6E-11	7.3E-11
Pm-147	1.97E-02	3.4E-12	2.6E-12	2.5E-12
U-235,238	5.51E-03	9.6E-13	7.4E-13	7.1E-13
Pu-239	5.54E-03	9.6E-13	7.4E-13	7.1E-12

[a] Savannah River just downriver from SRS.

[b] Beaufort-Jasper drinking water.

[c] Port Wentworth drinking water.

[d] Includes releases to streams and groundwater migration from seepage basins.

[e] Measured concentrations. All other concentrations were calculated using models that were verified using tritium measurements.

TABLE 4-9
MAXIMUM INDIVIDUAL DOSES - LIQUID RELEASES

By Pathway

Pathway	Maximum Individual[a] mrem[b]	% of Total Dose
Fish	7.00E-01	89.02
Water	8.56E-02	10.89
Shoreline	7.13E-04	0.09
Swimming	1.34E-06	0.00
Boating	4.03E-06	0.00
Total	7.86E-01	

By Radionuclide

Radionuclide	Maximum Individual[a] mrem[b]	% of Total Dose
H-3	8.44E-02	10.74
Sr-90	1.18E-02	1.50
I-129	9.41E-04	0.12
Cs-137	6.86E-01	87.28
U-235,238	3.96E-06	0.00
Pm-147	9.63E-06	0.00
Pu-239	2.02E-03	0.26
Total	7.86E-01	

[a] Hypothetical person just downstream of SRS. There are no known persons who meet the hypothetical situation.

[b] Committed effective dose equivalent.

TABLE 4-10
INDIVIDUAL DOSES FROM PUBLIC WATER SUPPLIES AT BEAUFORT - JASPER

Average Consumption

Radionuclide	Individual Dose, mrem[a]	% of Total Dose
H-3	6.00E-02	91.80
Sr-90	2.42E-03	3.70
I-129	3.04E-04	0.47
Cs-137	1.39E-03	2.13
Pm-147	9.22E-07	0.00
U-235,238	6.26E-05	0.10
Pu-239	1.18E-03	1.81
Total	6.54E-02	

Maximum Consumption

Radionuclide	Individual Dose, mrem[a]	% of Total Dose
H-3	1.18E-01	91.78
Sr-90	4.77E-03	3.71
I-129	6.00E-04	0.47
Cs-137	2.75E-03	2.14
Pm-147	1.82E-06	0.00
U-235,238	1.23E-04	0.10
Pu-239	2.32E-03	1.80
Total	1.29E-01	

[a] Committed effective dose equivalent.

TABLE 4-11
INDIVIDUAL DOSES FROM PUBLIC WATER SUPPLIES AT PORT WENTWORTH

Average Consumption

Radionuclide	Individual Dose, mrem[a]	% of Total Dose
H-3	5.77E-02	91.80
Sr-90	2.33E-03	3.71
I-129	2.92E-04	0.46
Cs-137	1.34E-03	2.13
Pm-147	8.87E-07	0.00
U-235,238	6.02E-05	0.10
Pu-239	1.13E-03	1.80
Total	6.29E-02	

Maximum Consumption

Radionuclide	Individual Dose, mrem[a]	% of Total Dose
H-3	1.14E-01	91.82
Sr-90	4.59E-03	3.70
I-129	5.77E-04	0.46
Cs-137	2.64E-03	2.13
Pm-147	1.75E-06	0.00
U-235,238	1.19E-04	0.10
Pu-239	2.23E-03	1.80
Total	1.24E-01	

[a] Committed effective dose equivalent.

TABLE 4-12
POPULATION DOSE FROM LIQUID RELEASES

By Pathway

Pathway	Collection (Population) Dose person-rem[a]	% of Total Dose
Sport fish	1.83E+00	29.51
Comml. fish	7.74E-02	1.25
Beaufort-Jasper	3.03E+00	48.86
Port Wentworth	1.26E+00	20.32
Salt Water invert.	1.77E-04	0.00
Recreation-river	3.88E-03	0.06
Total	6.20E+00	

By Radionuclide

Radionuclide	Collection (Population) Dose person-rem[a]	% of Total Dose
H-3	3.96E+00	63.81
Sr-90	1.82E-01	2.94
I-129	2.13E-02	0.34
Cs-137	1.95E+00	31.53
Pm-147	6.77E-05	0.00
U-235,238	4.15E-03	0.07
Pu-239	1.31E-01	2.12
Total	6.20E+00	

[a] Committed effective dose equivalent.

TABLE 4-13
POTENTIAL DOSES FROM IRRIGATION PATHWAY

Effective Dose Equivalent

Food Type[a]	Maximum Individual mrem	Population person-rem
Vegetation	1.85E-01	2.87E+00
Leafy vegetables	2.28E-02	2.89E+00
Milk	7.65E-02	7.01E-01
Meat	2.44E-02	7.23E-03
Total	3.09E-01	6.47E+00

[a] Acreage for each food type assumed to be 1,000 acres.

TABLE 4-14
NPDES OUTFALL LOCATIONS

Outfall Identification	No. of Outfalls Permitted	Location
A	6	700-A Administration Area
C	4	100-C Reactor Area
D	7	400 D
DW	3	200-S Defense Waste Processing Facility
F	8	200-F Separations Area
FS	2	Flowing Streams Laboratory (SREL Laboratory on Upper Three Runs Creek)
H	9	200-H Separations Area
K	6	100-K Reactor Area
L	4	100-L Reactor Area
M	2	300-M Fuel Fabrication Facility
P	5	100-P Reactor Area
PP	1	Par Pond (SRL Environmental Laboratory)
S	4	Central Shops (Construction Shops)
T	3	TC-Area (Wackenhut Service Inc. Headquarters)
X	5	TNX - Semiworks Experimental Facility
Y	1	Classification Yard (Railroad Repair Shop)
SC-4	1	L-Lake Overflow to Steel Creek

TABLE 4-15
NPDES MONITORING DATA

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall A-1			
Flow	MGD	15	0.432	0.360	0.410
pH	pH	15	8.4	6.4	
Temperature	°F	15	97	71	78
Total Nonfilterable Residue	mg/L	15	4.0	<1	1.2
Oil & Grease	mg/L	15	1.3	<1	<1
Biochemical Oxygen Demand	mg/L	15	6.3	<1	2.4
Tetrachloroethylene	µg/L	4	<2	<1	<2
Trichloroethylene	µg/L	4	6.0	<2	3.0
1,1,1-Trichloroethane	µg/L	4	<2	<1	<2
		Outfall A-3			
pH	pH	15	8.1	7.2	
Temperature	°F	15	80	62	73
Total Nonfilterable Residue	mg/L	15	1.0	<1	<1
Oil & Grease	mg/L	15	1.9	<1	<1
Tetrachloroethylene	µg/L	5	<2	<1	<2
Trichloroethylene	µg/L	5	1.7	<1	<2
1,1,1-Trichloroethane	µg/L	4	<2	<1	<2
Chromium	mg/L	24	<0.05	<0.02	<0.02
		Outfall A-5			
Flow	MGD	16	0.122	0.108	0.113
pH	pH	15	8.0	7.4	
Temperature	°F	15	78	63	71
Fecal Coliform	#/100	16	34	<2	4.5
Total Nonfilterable Residue	mg/L	15	2.0	<1	1.1
Oil & Grease	mg/L	17	2.1	<1	1.0
Biochemical Oxygen Demand	mg/L	16	68	<1	8.5
Tetrachloroethylene	µg/L	16	2.2	<1	1.0
Trichloroethylene	µg/L	16	12	<1	4.9
1,1,1-Trichloroethane	µg/L	16	<5	<1	<2
		Outfall A-11			
pH	pH	13	9.0	7.4	
Temperature	°F	12	87	59	74
Total Nonfilterable Residue	mg/L	13	12	<1	2.7
Oil & Grease	mg/L	14	3.6	<1	1.3
Biochemical Oxygen Demand	mg/L	13	4.0	<1	1.6
Tetrachloroethylene	µg/L	4	<2	<1	<2
Trichloroethylene	µg/L	4	<2	<1	<2
1.1.1-Trichloroethane	µg/L	4	<2	<1	<2

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall A-14			
Flow	MGD	16	3.6	1.16	2.26
pH	pH	24	8.2	6.8	
Temperature	°F	14	76	62	70
Total Nonfilterable Residue	mg/L	13	4.0	<1	1.4
Oil & Grease	mg/L	13	1.8	<1	<1
Biochemical Oxygen Demand	mg/L	13	15	<1	2.0
Tetrachloroethylene	µg/L	14	23	<1	3.2
Trichloroethylene	µg/L	14	12	<2	6.1
1,1,1-Trichloroethane	µg/L	14	2.9	<1	1.8
		Outfall A-15			
Flow	MGD	12	0.153	0.07	0.115
pH	pH	13	7.5	6.6	
Fecal Coliform	#/100	13	20	<2	3.2
Total Nonfilterable Residue	mg/L	13	31	3.0	9.7
Biochemical Oxygen Demand	mg/L	13	9.7	1.3	4.1
		Outfall C-1			
pH	pH	13	8.0	6.7	
Temperature	°F	13	79	56	65
Total Nonfilterable Residue	mg/L	13	1.0	<1	<1
Oil & Grease	mg/L	13	<1	<1	<1
		Outfall C-3			
pH	pH	12	8.0	7.2	
Temperature	°F	12	86	69	73
Total Nonfilterable Residue	mg/L	13	17	<1	2.5
Oil & Grease	mg/L	14	<1	<1	<1
		Outfall C-4			
pH	pH	13	8.6	7.2	
Temperature	°F	12	87	40	66
Total Nonfilterable Residue	mg/L	13	5.0	<1	2.1
Oil & Grease	mg/L	13	1.0	<1	<1
		Outfall C-4A			
Flow	MGD	12	0.033	0.012	0.020
pH	pH	13	7.7	6.5	
Fecal Coliform	#/100	14	590	<2	50
Total Nonfilterable Residue	mg/L	13	17	1.0	4.4
Biochemical Oxygen Demand	mg/L	13	6.0	<1	2.8

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall D-1			
pH	pH	14	8.7	7.2	
Temperature	°F	14	89	59	76
Total Nonfilterable Residue	mg/L	14	10	1.0	6.4
Oil & Grease	mg/L	14	<1	<1	<1
		Outfall D-1A			
Flow	MGD	12	0.019	0.009	0.013
pH	pH	14	8.6	6.8	
Fecal Coliform	#/100	14	6.0	<2	2.5
Total Nonfilterable Residue	mg/L	12	44	1.0	12
Biochemical Oxygen Demand	mg/L	13	35	<1	5.4
		Outfall D-1B			
Flow	MGD	52		no flow	
		Outfall D-1C			
Flow	MGD	14	4.8	0.065	3.5
pH	pH	14	8.3	7.0	
Total Nonfilterable Residue	mg/L	14	5.0	<1	2.2
Oil & Grease	mg/L	14	<1	<1	<1
		Outfall D-3			
pH	pH	14	8.6	7.1	
Total Nonfilterable Residue	mg/L	14	2.0	<1	1.1
Oil & Grease	mg/L	15	3.0	<1	1.1
		Outfall D-5			
Flow	MGD	12		no flow	
		Outfall D-6			
pH	pH	13	8.4	6.7	
Temperature	°F	13	90	56	70
Fecal Coliform	#/100	13	560	42	192
Total Nonfilterable Residue	mg/L	13	14	<1	4.2
Oil & Grease	mg/L	13	<1	<1	<1
		Outfall DW-1			
Flow	MGD	11	0.40	0.033	0.29
pH	pH	11	8.5	6.5	
Total Nonfilterable Residue	mg/L	11	16	3.0	7.9

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall DW-2			
Flow	MGD	20	0.029	0.007	0.26
pH	pH	13	7.9	6.3	
Oil & Grease	mg/L	24	19	<1	6.7
		Outfall DW-3			
Flow	MGD	12	0.026	0.009	0.019
pH	pH	13	7.7	6.8	
Fecal Coliform	#/100	13	<2	<2	<2
Total Nonfilterable Residue	mg/L	13	12	<1	4.4
Biochemical Oxygen Demand	mg/L	13	14	<1	4.8
		Outfall F-1			
Flow	MGD	17	0.173	0.043	0.108
pH	pH	17	8.4	7.8	
Temperature	°F	17	86	67	70
Total Nonfilterable Residue	mg/L	18	40	<1	3.6
Oil & Grease	mg/L	18	<1	<1	<1
		Outfall F-2			
Flow	MGD	18	0.115	0.012	0.077
pH	pH	18	8.2	7.6	
Temperature	°F	18	79	51	68
Total Nonfilterable Residue	mg/L	18	5.0	<1	1.8
Oil & Grease	mg/L	19	2.6	<1	<1
		Outfall F-3			
Flow	MGD	17	0.058	0.007	0.026
pH	pH	17	8.2	7.1	
Temperature	°F	17	83	55	72
Total Nonfilterable Residue	mg/L	17	110	<1	14
Oil & Grease	mg/L	18	<1	<1	<1
Biochemical Oxygen Demand	mg/L	16	15	<1	2.9
		Outfall F-3A			
Flow	MGD	12	0.016	0.006	0.010
pH	pH	13	8.1	7.0	
Fecal Coliform	#/100	15	<2	<2	<2
Total Nonfilterable Residue	mg/L	14	4.0	<1	1.3
Biochemical Oxygen Demand	mg/L	14	4.7	<1	2.1
		Outfall F-5			
Flow	MGD	15	0.115	0.026	0.074
pH	pH	15	8.3	7.6	
Temperature	°F	15	78	66	74
Total Nonfilterable Residue	mg/L	15	7.0	<1	2.2
Oil & Grease	mg/L	15	<1	<1	<1

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall F-7			
Flow	MGD	12		no flow	
		Outfall F-8			
pH	pH	15	8.1	7.5	
Temperature	°F	15	91	63	80
Total Nonfilterable Residue	mg/L	15	5.0	<1	2.4
Oil & Grease	mg/L	15	1.6	<1	<1
		Outfall F-8A			
Flow	MGD	12	0.072	0.060	0.064
pH	pH	13	7.6	6.6	
Fecal Coliform	#/100	15	20	<2	3.0
Total Nonfilterable Residue	mg/L	14	8.0	<1	4.9
Biochemical Oxygen Demand	mg/L	14	5.4	1.3	2.9
		Outfall FS-1			
Flow	MGD	13		no flow	
		Outfall FS-2			
Flow	MGD	7	0.086	0.007	0.056
Fecal Coliform	#/100	7	700	142	325
		Outfall H-2			
Flow	MGD	16	0.17	0.036	0.101
pH	pH	17	8.3	6.1	
Temperature	°F	15	84	66	75
Total Nonfilterable Residue	mg/L	17	375	<1	27
Oil & Grease	mg/L	16	1.8	<1	<1
		Outfall H-4			
Flow	MGD	15	0.40	0.029	0.184
pH	pH	16	8.2	7.1	
Temperature	°F	15	84	68	70
Total Nonfilterable Residue	mg/L	16	21	1.0	4.1
Oil & Grease	mg/L	16	1.8	<1	<1
		Outfall H-6			
Flow	MGD	2	0.029	0.015	0.022
pH	pH	2	8.1	7.6	
Temperature	°F	2	65	54	60
Oil & Grease	mg/L	2	<1	<1	<1

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall H-7			
Flow	MGD	8	0.05	0.001	0.014
pH	pH	8	7.3	6.8	
Temperature	°F	8	80	43	66
Total Nonfilterable Residue	mg/L	8	12	2.0	4.7
Oil & Grease	mg/L	8	1.9	<1	1.0
Residual Chlorine	mg/L	8	0.27	<0.1	<0.19
		Outfall H-8			
pH	pH	16	7.6	6.4	
Temperature	°F	14	84	57	73
Total Nonfilterable Residue	mg/L	16	408	1.0	29
Oil & Grease	mg/L	15	1.7	<1	<1
		Outfall H-8A			
Flow	MGD	9	0.45	0.07	0.20
pH	pH	10	7.9	6.4	
Total Nonfilterable Residue	mg/L	9	8.0	<1	3.9
Oil & Grease	mg/L	10	2.7	<1	1.1
		Outfall H-12			
Flow	MGD	12	9.7	0.51	3.3
pH	pH	17	9.3	6.2	
Temperature	°F	14	87	68	72
Total Nonfilterable Residue	mg/L	16	35	<1	4.7
Oil & Grease	mg/L	16	1.9	<1	1.0
Sulfate	mg/L	9	16	11	13
		Outfall H-13			
Flow	MGD	12	0.080	0.039	0.054
pH	pH	14	7.2	6.9	
Fecal Coliform	#/100	14	22	<2	5.4
Total Nonfilterable Residue	mg/L	14	13	2.0	6.6
Biochemical Oxygen Demand	mg/L	14	5.4	<1	3.0
		Outfall K-1			
Flow	MGD	12	0.050	0.001	0.024
pH	pH	12	8.8	7.0	
Temperature	°F	12	82	49	73
Total Nonfilterable Residue	mg/L	12	5.0	<1	2.2
Oil & Grease	mg/L	12	1.3	<1	<1
Sulfate	mg/L	4	10	3.1	7.8

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall K-6			
Flow	MGD	13	0.58	0.086	0.22
pH	pH	14	8.2	7.4	
Temperature	°F	14	90	60	77
Total Nonfilterable Residue	mg/L	14	8.0	2.0	4.7
Oil & Grease	mg/L	15	5.2	<1	2.0
		Outfall K-8			
Flow	MGD	13	0.65	0.043	0.28
pH	pH	14	8.9	7.2	
Temperature	°F	14	88	58	70
Total Nonfilterable Residue	mg/L	14	31	1.0	5.1
Oil & Grease	mg/L	14	2.1	<1	<1
		Outfall K-10			
Flow	MGD	13	0.65	0.072	0.262
pH	pH	14	8.2	7.1	
Temperature	°F	14	84	60	72
Total Nonfilterable Residue	mg/L	14	4.0	<1	2.5
Oil & Grease	mg/L	14	1.6	<1	<1
		Outfall K-11			
pH	pH	14	8.2	7.0	
Temperature	°F	12	115	55	76
Total Nonfilterable Residue	mg/L	14	24	2.0	5.5
Oil & Grease	mg/L	15	2.5	<1	<1
Biochemical Oxygen Demand	mg/L	14	16	<1	2.4
		Outfall K-12			
pH	pH	14	8.6	6.9	1.9
Fecal Coliform	#/100	14	4.0	<2	
Total Nonfilterable Residue	mg/L	14	17	<1	3.9
Biochemical Oxygen Demand	mg/L	14	3.5	<1	2.2
		Outfall L-7			
pH	pH	15	8.1	7.4	
Temperature	°F	12	111	59	79
Total Nonfilterable Residue	mg/L	15	7.0	2.0	4.7
Oil & Grease	mg/L	16	1.4	<1	<1
		Outfall L-7A			
Flow	MGD	12	0.030	0.007	0.029
pH	pH	14	8.2	6.6	
Fecal Coliform	#/100	14	6.0	<2	2.3
Total Nonfilterable Residue	mg/L	14	4.0	<1	1.8
Biochemical Oxygen Demand	mg/L	14	20	<1	4.6

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall L-8			
Flow	MGD	14	1.44	0.18	0.90
pH	pH	15	8.2	7.1	
Temperature	°F	15	84	50	70
Total Nonfilterable Residue	mg/L	15	6.0	2.0	3.4
Oil & Grease	mg/L	16	1.5	<1	1.1
		Outfall L-10			
Flow	MGD	12		no flow	
		Outfall M-4			
Flow	MGD	36	0.19	0.010	0.096
pH	pH	24	8.9	7.1	
Nitrate	mg/L	15	268	47	90
Phosphate	mg/L	15	24	0.02	2.2
Total Nonfilterable Residue	mg/L	36	19	<1	2.7
Oil & Grease	mg/L	36	1.9	<1	0.86
Uranium	mg/L	36	0.38	<0.02	0.06
Lead	mg/L	36	0.04	<0.003	0.007
Nickel	mg/L	36	0.46	<0.05	0.07
Silver	mg/L	3	<0.0005	<0.0005	<0.0005
Chromium	mg/L	4	<0.05	<0.02	<0.02
Aluminum	mg/L	36	2.1	0.05	0.73
Copper	mg/L	36	0.012	<0.01	<0.01
Cyanide	mg/L	3	0.12	<0.005	0.04
Cadmium	mg/L	3	<0.01	<0.01	<0.01
Zinc	mg/L	4	0.12	0.05	0.09
		Outfall M-5			
Flow	MGD	52	0.58	0.40	0.55
pH	pH	28	6.8	5.0	
Tetrachloroethylene	µg/L	52	<5	<1	<2
Trichloroethylene	µg/L	52	<5	<1	<2
1,1,1-Trichloroethane	µg/L	52	<5	<1	<2
		Outfall P-5			
Flow	MGD	11	0.49	0.007	0.187
pH	pH	12	10	7.0	
Total Nonfilterable Residue	mg/L	12	10	1.0	4.2
Oil & Grease	mg/L	13	1.1	<1	<1

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall P-7			
pH	pH	13	8.9	7.4	
Temperature	°F	13	84	53	72
Total Nonfilterable Residue	mg/L	13	2.0	<1	<1
Oil & Grease	mg/L	14	1.6	<1	<1
Aluminum	mg/L	12	<1	<1	<1
Iron	mg/L	12	0.36	0.11	0.25
		Outfall P-13			
pH	ph	14	9.6	7.2	
Temperature	°F	11	87	56	72
Total Nonfilterable Residue	mg/L	14	52	<1	7.8
Oil & Grease	mg/L	15	1.5	<1	0.75
		Outfall P-19			
pH	pH	12	8.1	7.2	
Temperature	°F	10	122	32	76
Total Nonfilterable Residue	mg/l	12	4.0	<1	1.6
Oil & Grease	mg/L	13	2.1	<1	<1
		Outfall P-20			
pH	pH	14	7.8	6.8	
Fecal Coliform	#/100	14	24	<2	3.1
Total Nonfilterable Residue	mg/L	14	6.0	<1	3.2
Biochemical Oxygen Demand	mg/L	14	12	<1	3.4
		Outfall PP-1[a]			
Flow	MGD	1	0.014		
pH	pH	1	7.2		
Oil & Grease	mg/L	1	1.2		
		Outfall S-2			
Flow	MGD	3	0.014	0.001	0.007
pH	pH	3	7.2	7.1	
Temperature	°F	3	80	50	68
Total Nonfilterable Residue	mg/L	3	28	2.0	12
Oil & Grease	mg/L	3	7.4	<1	3.6
Biochemical Oxygen Demand	mg/L	3	27	<1	9.7
Aluminum	mg/L	3	9.1	0.15	3.3
Iron	mg/L	3	4.9	0.45	2.0

[a] Sampling frequency changed to yearly during 1987.

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall S-8			
Flow	MGD	12		no flow	
		Outfall S-11			
Flow	MGD	12	0.33	0.017	0.060
pH	pH	14	7.6	6.8	
Fecal Coliform	#/100	14	10	<2	2.6
Total Nonfilterable Residue	mg/L	14	11	1.0	4.6
Biochemical Oxygen Demand	mg/L	14	3.3	<1	1.3
		Outfall S-14			
Flow	MGD	12		no flow	
		Outfall SC-4			
pH	pH	12	7.8	6.4	
Arsenic	mg/L	12	<0.003	<0.003	<0.003
Chromium	mg/L	12	<0.05	<0.02	<0.03
Lead	mg/L	12	0.01	<0.003	0.0002
Mercury	mg/L	12	<0.005	<0.0001	<0.0001
Selenium	mg/L	12	<0.006	<0.006	<0.006
Cadmium	mg/L	12	<0.02	<0.01	<0.01
Silver	mg/L	12	<0.0005	<0.0005	<0.0005
Barium	mg/L	12	0.014	<0.1	<0.1
Nitrate	mg/L	12	0.25	0.06	0.13
Phosphate	mg/L	12	0.08	0.03	0.06
		Outfall T-1			
Flow	MGD	4	0.007	0.004	0.006
		Outfall T-5			
Flow	MGD	12		no flow	
		Outfall T-7			
pH	pH	24	7.8	6.4	
Fecal Coliform	#/100	24	2.0	<2	<2
Total Nonfilterable Residue	mg/L	24	15	<1	3.8
Biochemical Oxygen Demand	mg/L	24	15	<1	4.0
		Outfall X-4			
pH	pH	14	7.9	7.1	
Temperature	°F	14	83	67	74
Total Nonfilterable Residue	mg/L	14	17	<1	2.4
Oil & Grease	mg/L	14	1.5	<1	<1

TABLE 4-15
NPDES MONITORING DATA, CONT'D.

Measurement	Units	Freq/Year	Maximum	Minimum	Average
		Outfall X-8			
Flow	MGD	13	0.072	0.014	0.037
pH	pH	14	8.2	6.8	
Temperature	°F	14	117	75	79
Total Nonfilterable Residue	mg/L	14	5.0	<1	1.7
Oil & Grease	mg/L	15	1.8	<1	<1
Aluminum	mg/L	14	1.6	<0.05	0.18
Iron	mg/L	14	1.4	0.09	1.1
		Outfall X-11			
Flow	MGD	4	0.007	0.001	0.003
		Outfall X-13			
pH	pH	14	8.0	6.6	
Fecal Coliform	#/100	15	12	<2	2.7
Total Nonfilterable Residue	mg/L	14	32	2.0	8.9
Biochemical Oxygen Demand	mg/L	14	15	<1	3.2
		Outfall X 14			
Biochemical Oxygen Demand	mg/L	20	33	<1	8.5
Total Suspended Solids	mg/L	20	60	1.0	11
Oil & Grease	mg/L	20	<1	<1	<1
Total Organic Carbon	mg/L	20	52	<1	6.0
Benzene	µg/L	20	<5	<1	<2
Phenol	mg/L	20	0.01	<0.002	<0.01
Mercury	µg/L	20	<1	<0.001	<0.1
		Outfall Y-1			
Flow	MGD	12		no flow	

TABLE 4-16
SAVANNAH RIVER WATER QUALITY

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	Arithmetic 2 Std Dev
River 3B Below Plant Vogtle[a]						
Water Volume	L		5.151E+12 (total)			
Temperature[b]	°C	12	28	9.0	18	±12
pH[b]	pH	12	7.3	6.2		
Dissolved Oxygen[b]	mg/L	12	11	5.3	7.8	±3.4
Alkalinity	mg/L	12	29	20	25	±5.3
Hardness	mg/L	4	20	15	-	-
Conductivity[b]	µmho/cm	12	138	1.0	63	±108
Turbidity	NTU	12	11	1.0	3.1	±5.5
Suspended Solids	mg/L	12	20	3.0	9.2	±9.3
Volatile Solids	mg/L	12	10	2.0	3.8	±4.6
Total Dissolved Solids	mg/L	12	85	44	70	±22
Total Solids	mg/L	12	96	55	79	±25
Fixed Residue	mg/L	12	14	<1	5.8	±7.4
COD	mg/L	12	20	4.0	11	±8.5
Chloride	mg/L	12	11	6.4	8.8	±3.3
Nitrogen (as NO_2/NO_3)	mg/L	12	0.65	0.20	0.34	±0.25
Sulfate	mg/L	12	10	6.0	7.8	±2.4
Phosphorus (as PO_4)	mg/L	12	0.18	0.07	0.11	±0.06
Aluminum	mg/L	4	0.21	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.17	0.08	0.12	±0.07
Calcium	mg/L	4	5.5	4.0	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.7	1.3	-	-
Manganese	mg/L	4	0.09	<0.01	-	-
Mercury	µg/L	4	0.39	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	17	11	-	-
Iron	mg/L	4	0.42	0.03	-	-
Lead	mg/L	4	0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-
River 2 Above Plant[a]						
Water Volume	L		4.678E+12 (total)			
Temperature[b]	°C	12	28	9.0	18	±12
pH[b]	pH	12	7.6	6.1		
Dissolved Oxygen[b]	mg/L	12	11	5.4	8.5	±4.0
Alkalinity	mg/L	12	27	21	24	±4.3
Hardness	mg/L	4	20	15	-	-
Conductivity[b]	µmho/cm	12	125	7.0	68	±99
Turbidity	NTU	12	9.0	1.0	3.0	±4.6
Suspended Solids	mg/L	12	16	3.0	7.8	±7.8
Volatile Solids	mg/L	12	6.0	1.0	2.9	±2.6
Total Dissolved Solids	mg/L	12	94	23	73	±35
Total Solids	mg/L	12	94	33	80	±35
Fixed Residue	mg/L	12	10	2.0	5.2	±5.4
COD	mg/L	12	20	4.0	12	±8.9
Chloride	mg/L	12	11	6.5	9.1	±2.8
Nitrogen (as NO_2/NO_3)	mg/L	12	0.82	0.21	0.31	±0.33

[a] Metals are analyzed quarterly from a continuous flow composite.

[b] Field measurement.

- Insufficient data; *mean not calculated for<5 samples.*

TABLE 4-16
SAVANNAH RIVER WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	Arithmetic 2 Std Dev
River 2 Above Plant, Cont'd.[a]						
Sulfate	mg/L	12	10	6.0	7.4	±2.2
Phosphorus (as PO_4)	mg/L	12	0.17	0.07	0.11	±0.07
Aluminum	mg/L	4	0.17	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.21	0.05	0.14	±0.09
Calcium	mg/L	4	5.2	3.8	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.7	1.3	-	-
Manganese	mg/L	4	0.07	<0.01	-	-
Mercury	µg/L	4	0.70	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	17	11	-	-
Iron	mg/L	4	0.32	0.03	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-
River 10 Below Plant[a]						
Water Volume	l		4.672E+12 (total)			
Temperature[b]	°C	12	26	9.0	18	±12
pH[b]	pH	12	7.4	5.1		
Dissolved Oxygen[b]	mg/L	12	11	5.0	7.8	±3.6
Alkalinity	mg/L	12	29	21	24	±4.9
Hardness	mg/L	4	21	16	-	-
Conductivity[b]	µmho/cm	12	122	2.0	62	±103
Turbidity	NTU	12	6.0	1.0	2.5	±2.9
Suspended Solids	mg/L	12	11	1.0	7.5	±7.1
Volatile Solids	mg/L	12	3.0	1.0	2.2	±1.9
Total Dissolved Solids	mg/L	12	77	51	67	±14
Total Solids	mg/L	12	88	62	74	±17
Fixed Residue	mg/L	12	9.0	<1.0	5.7	±5.6
COD	mg/L	12	18	3.0	8.6	±8.9
Chloride	mg/L	12	11	6.0	8.8	±2.9
Nitrogen (as NO_2/NO_3)	mg/L	12	0.69	0.16	0.37	±0.33
Sulfate	mg/L	12	11	6.0	8.1	±3.2
Phosphorus (as PO_4)	mg/L	12	0.13	0.05	0.09	±0.05
Aluminum	mg/L	4	0.20	0.07	-	-
Nitrogen (as NH_3)	mg/L	12	0.13	0.02	0.07	±0.06
Calcium	mg/L	4	5.8	4.4	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.6	1.3	-	-
Manganese	mg/L	4	0.07	<0.01	-	-
Mercury	µg/L	4	0.26	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	17	11	-	-
Iron	mg/L	4	0.46	0.18	-	-
Lead	mg/L	4	0.06	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-

[a] Metals are analyzed quarterly from a continuous flow composite.

[b] Field measurement.

- Insufficient data; mean not calculated for <5 samples.

TABLE 4-17
FECAL COLIFORM BACTERIA IN SRS STREAMS AND THE SAVANNAH RIVER

Location	No. of Samples	Colonies/100 mL Weekly Values Maximum	Weekly Values Minimum	Monthly Geometric Mean[a] Maximum	Monthly Geometric Mean[a] Minimum	Monthly Geometric Mean[a] Average
River 2, above SRS	51	4,700	20	1413	32	393
River 3B, Vogtle Discharge	51	2,500	20	815	32	278
River 10, below SRS	51	1,110	8	494	22	141
Upper Three Runs Creek at Road A	51	2,100	62	355	122	228
Upper Three Runs Creek at Road A	51	2,400	64	350	91	193
Beaver Dam Creek near Swamp	51	870	6	369	16	118
Four Mile Creek at Road A	51	2,000	2	220	14	78
Pen Branch at Road A	51	1,600	<2	1,600	32	457
Steel Creek at Road A	12	72	<2	40	4	25
Lower Three Runs Creek at Road A	51	1,300	<2	317	59	164
Lower Three Runs Creek at Tabernacle Church Road	51	3,400	48	579	42	191

[a] Maximum, minimum and average of monthly geometric mean of weekly values. The standard for South Carolina states that the fecal coliform count should not exceed a geometric mean of 1000 colonies/100 mL based on five consecutive samples during any 30-day period; nor exceed 2000 colonies/100 mL in more than 20% of the samples examined during such period (not applicable during or following periods of rainfall).

TABLE 4-18
SRS STREAM WATER QUALITY

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
Tims Branch 5 DHEC[a]						
Water Volume	L		5.610E+9 (total)			
Temperature[b]	°C	12	23	6.2	16	±10
pH[b]	pH	12	7.2	4.9		
Dissolved Oxygen[b]	mg/L	12	13	6.0	8.2	±4.6
Alkalinity	mg/L	12	29	14	19	±4.9
Hardness	mg/L	4	9.4	4.9	-	-
Conductivity[b]	µmho/cm	12	105	12	45	±62
Total Organic Carbon	mg/L	12	9.0	1.5	4.8	±5.4
Turbidity	NTU	12	19	1.0	4.6	±9.8
Suspended Solids	mg/L	12	32	4.0	13	±20
Volatile Solids	mg/L	12	12	2.0	4.5	±5.9
Total Dissolved Solids	mg/L	12	79	28	49	±43
Total Solids	mg/L	12	111	34	62	±50
Fixed Residue	mg/L	12	25	<1	8.4	±15
Total COD	mg/L	12	21	1.0	8.2	±13
Organic Nitrogen	mg/L	12	0.45	<0.01	0.25	±0.25
Chloride	mg/L	12	7.3	1.3	3.0	±3.0
Nitrogen (NO_2/NO_3)	mg/L	12	1.5	0.02	0.57	±0.94
Sulfate	mg/L	12	31	2.0	7.1	±19
Phosphorus (as PO_4)	mg/L	12	0.16	0.01	0.04	±0.08
Aluminum	mg/L	4	1.9	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.23	<0.01	0.04	±0.14
Calcium	mg/L	4	2.6	1.1	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	0.70	0.49	-	-
Manganese	mg/L	4	0.40	<0.01	-	-
Mercury	µg/L	4	0.83	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	18	8.0	-	-
Iron	mg/L	4	1.5	0.24	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-
Steel Creek at Road A DHEC[a]						
Water Volume	L		2.177E+11 (total)			
Temperature[b]	°C	12	28	11	20	±12
pH[b]	pH	12	7.6	5.6		
Dissolved Oxygen[b]	mg/L	12	10	5.0	7.2	±3.3
Alkalinity	mg/L	12	21	6.0	17	±7.8
Hardness	mg/L	4	12	11	-	-
Conductivity[b]	µmho/cm	12	92	10	53	±76
Total Organic Carbon	mg/L	12	13	2.1	5.0	5.4
Turbidity	NTU	12	4.1	<1	1.8	±2.2
Suspended Solids	mg/L	12	14	3.0	6.8	±5.9
Volatile Solids	mg/L	12	5.0	<1	2.8	±2.7

[a] Metals are analyzed quarterly from a monthly grab composite.

[b] Field measurements.

- Insufficient data, mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
Steel Creek at Road A DHEC, Cont'd.[a]						
Total Dissolved Solids	mg/L	12	152	14	55	±66
Total Solids	mg/L	12	166	25	62	±77
Fixed Residue	mg/L	12	9.0	2.0	4.4	±3.9
COD	mg/L	12	13	5.0	8.6	±4.9
Organic Nitrogen	mg/L	12	0.44	<0.1	0.34	±0.38
Chloride	mg/L	12	7.9	1.9	6.7	±3.4
Nitrogen (NO_2/NO_3)	mg/L	12	0.26	0.04	0.11	±0.15
Sulfate	mg/L	12	7.0	2.0	4.9	±3.9
Phosphorus (as PO_4)	mg/L	12	0.10	0.02	0.04	±0.04
Aluminum	mg/L	4	<0.05	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.30	0.0	0.08	±0.17
Calcium	mg/L	4	3.0	2.3	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.3	1.1	-	-
Manganese	mg/L	4	0.17	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	1.3	9.1	-	-
Iron	mg/L	4	0.19	0.03	-	-
Lead	mg/L	4	0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-
Upper Three Runs Road A DHEC[a]						
Water Volume	L		1.535E+11 (total)			
Temperature[b]	°C	12	23	7.3	17	±9.3
pH[b]	pH	12	7.3	4.7		
Dissolved Oxygen[b]	mg/L	12	12	4.9	7.7	±4.1
Alkalinity	mg/L	12	19	4.0	7.3	±9.0
Hardness	mg/L	4	6.4	5.8	-	-
Conductivity[b]	µmho/cm	12	31	11	23	±12
Total Organic Carbon	mg/L	12	7.2	1.3	3.8	±4.1
Turbidity	NTU	12	20	1.0	4.7	±12
Suspended Solids	mg/L	12	97	5.0	22	±51
Volatile Solids	mg/L	12	33	3.0	8.4	±17
Total Dissolved Solids	mg/L	12	42	15	27	±14
Total Solids	mg/L	12	123	21	38	±45
Fixed Residue	mg/L	12	64	3.0	14	±34
COD	mg/L	12	23	1.0	9.1	±15
Organic Nitrogen	mg/L	12	0.52	<0.10	0.22	±0.26
Chloride	mg/L	12	8.8	0.77	2.3	±4.1
Nitrogen (NO_2/NO_3)	mg/L	12	0.71	0.08	0.19	±0.34
Sulfate	mg/L	12	5.0	2.0	2.9	±2.2
Phosphorus (as PO_4)	mg/L	12	0.04	<0.02	0.03	±0.02
Aluminum	mg/L	4	0.11	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.09	<0.01	0.02	±0.05
Calcium	mg/L	4	2.1	1.8	-	-

[a] Metals are analyzed quarterly from a monthly grab composite.
[b] Field measurements.
- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
Upper Three Runs Road A DHEC, Cont'd.[a]						
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	0.40	0.36	-	-
Manganese	mg/L	4	<0.01	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	2.2	1.6	-	-
Iron	mg/L	4	0.23	0.09	-	-
Lead	mg/L	4	0.02	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-
Four Mile Creek Road A-7 DHEC[a]						
Water Volume	L		9.957E+09 (total)			
Temperature[b]	°C	12	26	7.0	18	±11
pH[b]	pH	12	7.3	5.4		
Dissolved Oxygen[b]	mg/L	12	11	5.5	7.4	±3.9
Alkalinity	mg/L	12	21	6.0	14	±9.2
Hardness	mg/L	4	12	2.0	-	-
Conductivity[b]	µmho/cm	12	107	12	53	±79
Total Organic Carbon	mg/L	12	7.1	0.60	3.0	±3.6
Turbidity	NTU	12	42	1.0	7.7	±23
Suspended Solids	mg/L	12	27	1.0	8.1	±18
Volatile Solids	mg/L	12	9.0	<1	3.2	±5.0
Total Dissolved Solids	mg/L	12	78	48	59	±18
Total Solids	mg/L	12	105	49	67	±33
Fixed Residue	mg/L	12	18	<1.0	5.4	±14
COD	mg/L	12	10	1.0	5.6	±6.3
Organic Nitrogen	mg/L	12	0.60	<0.10	0.24	±0.39
Chloride	mg/L	12	8.7	1.6	5.2	±13
Nitrogen (NO_2/NO_3)	mg/L	12	4.5	0.47	2.6	±1.9
Sulfate	mg/L	12	10	4.0	6.8	±3.7
Phosphorus (as PO_4)	mg/L	12	0.03	<0.02	0.02	±0.01
Aluminum	mg/L	4	0.17	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.05	<0.01	0.02	0.03
Calcium	mg/L	4	3.6	3.3	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	0.78	0.65	-	-
Manganese	mg/L	4	0.03	<0.01	-	-
Mercury	µg/L	4	0.22	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	15	8.9	-	-
Iron	mg/L	4	0.45	0.16	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-

[a] Metals are analyzed quarterly from a monthly grab composite.
[b] Field measurements.
- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
Crouch Branch						
Water Volume	L		9.718E+10 (total)			
Temperature[a]	°C	12	25	9.0	18	±10
pH[a]	pH	12	7.7	4.5		
Dissolved Oxygen[a]	mg/L	12	10	3.6	7.4	±3.3
Turbidity	NTU	12	200	7.0	62	±119
Suspended Solids	mg/L	12	611	3.0	103	±339
Lower Three Runs at Patterson Mill[b]						
Water Volume	L		5.730E+10 (total)			
Temperature[a]	°C	12	29	10	19	±11
pH[a]	pH	12	7.5	6.3		
Dissolved Oxygen[a]	mg/L	12	9.8	5.8	7.8	±2.4
Alkalinity	mg/L	12	60	26	36	±23
Hardness	mg/L	4	47	27	-	-
Conductivity[a]	µmho/cm	12	140	13	59	±101
Turbidity	NTU	12	4.8	<1	1.4	±2.2
Suspended Solids	mg/L	12	34	2.0	7.4	±17
Volatile Solids	mg/L	12	14	0.0	3.8	±7.0
Total Dissolved Solids	mg/L	12	83	45	63	±28
Total Solids	mg/L	12	112	48	71	±39
Fixed Residue	mg/L	12	20	<1	3.7	±11
COD	mg/L	12	25	3.0	12	±14
Chloride	mg/L	12	6.2	1.5	4.2	±2.7
Nitrogen (NO_2/NO_3)	mg/L	12	1.1	0.04	0.15	±0.60
Sulfate	mg/L	12	5.0	2.0	3.3	±2.0
Phosphorus (as PO_4)	mg/L	12	0.03	0.0	0.02	±0.02
Aluminum	mg/L	4	0.16	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.05	<0.01	0.02	±0.03
Calcium	mg/L	4	17	9.6	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.0	0.85	-	-
Manganese	mg/L	4	0.07	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	7.1	4.9	-	-
Iron	mg/L	4	0.52	<0.02	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	0.01	<0.01	-	-

[a] Field measurements.

[b] Metals are analyzed quarterly from a continuous flow composite.

- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
McQueen Branch						
Water Volume	L		2.410E+11 (total)			
Temperature[a]	°C	12	26	9.0	17	±10
pH[a]	pH	12	7.2	5.6		
Dissolved Oxygen[a]	mg/L	12	10	5.2	8.2	±2.7
Turbidity	NTU	12	200	2.2	36	±115
Suspended Solids	mg/L	12	1555	2.0	175	±905
Pen Branch Road A-17[b]						
Water Volume	L		1.480E+11 (total)			
Temperature[a]	°C	12	56	9.0	26	±24
pH[a]	pH	12	7.9	5.7		
Dissolved Oxygen[a]	mg/L	12	10	5.5	7.9	±2.9
Alkalinity	mg/L	12	24	18	20	±3.9
Hardness	mg/L	4	18	14	-	-
Conductivity[a]	µmho/cm	12	115	13	57	±89
Turbidity	NTU	12	7.1	1.1	3.3	±3.7
Suspended Solids	mg/L	12	13	3.0	6.7	±5.7
Volatile Solids	mg/L	12	5.0	0.0	2.2	±2.6
Total Dissolved Solids	mg/L	12	72	32	59	±21
Total Solids	mg/L	12	78	41	66	±20
Fixed Residue	mg/L	12	10	2.0	4.6	±4.8
COD	mg/L	12	20	4.0	9.4	±7.9
Chloride	mg/L	12	11	4.3	7.8	±3.9
Nitrogen (NO_2/NO_3)	mg/L	12	0.85	0.18	0.32	±0.35
Sulfate	mg/L	12	11	3.0	6.6	±4.2
Phosphorus (as PO_4)	mg/L	12	0.24	0.0	0.08	±0.12
Aluminum	mg/L	4	0.20	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.11	<0.01	0.04	±0.07
Calcium	mg/L	4	5.1	3.8	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	1.2	1.2	-	-
Manganese	mg/L	4	0.05	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	14	10	-	-
Iron	mg/L	4	0.53	0.03	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	0.03	<0.01	-	-

[a] Field measurements.

[b] Metals are analyzed quarterly from a continuous flow composite.

- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	2 Std Dev
Four Mile Creek Road A[a]						
Water Volume	L		1.796E+10 (total)			
Temperature[b]	°C	12	31	9.0	20	±13
pH[b]	pH	12	7.7	3.1		
Dissolved Oxygen[b]	mg/L	12	10	6.5	8.6	±2.0
Alkalinity	mg/L	12	17	2.0	12	±8.1
Hardness	mg/L	4	12	10	-	-
Conductivity[b]	µmho/cm	12	84	15	42	±53
Turbidity	NTU	12	18	<1	2.8	±9.7
Suspended Solids	mg/L	12	7.0	0.0	2.6	±4.5
Volatile Solids	mg/L	12	5.0	0.0	1.5	±3.0
Total Dissolved Solids	mg/L	12	55	34	45	±15
Total Solids	mg/L	12	62	34	47	±17
Fixed Residue	mg/L	12	6.0	0.0	1.5	±3.3
COD	mg/L	12	16	1.0	6.6	±8.6
Chloride	mg/L	12	3.7	2.1	3.0	±1.0
Nitrogen (NO_2/NO_3)	mg/L	12	2.7	0.18	1.3	±0.72
Sulfate	mg/L	12	8.0	4.0	6.3	±7.9
Phosphorus (as PO_4)	mg/L	12	0.03	<0.02	0.02	±0.01
Aluminum	mg/L	4	<0.05	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.06	0.0	0.02	±0.04
Calcium	mg/L	4	3.6	3.1	-	-
Copper	mg/L	4	0.02	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	0.66	0.58	-	-
Manganese	mg/L	4	0.01	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.05	<0.05	-	-
Sodium	mg/L	4	10	7.5	-	-
Iron	mg/L	4	0.11	0.05	-	-
Lead	mg/L	4	<0.01	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	0.02	<0.01	-	-
Upper Three Runs Highway 278[a]						
Water Volume	L		7.941E+10 (total)			
Temperature[b]	°C	12	24	12	18	±8.0
pH[b]	pH	12	7.2	3.1		
Dissolved Oxygen[b]	mg/L	12	9.4	6.6	8.1	±1.7
Alkalinity	mg/L	12	4.0	2.0	2.6	±1.6
Hardness	mg/L	4	2.7	2.2	-	-
Conductivity[b]	µmho/cm	12	42	16	21	±14
Turbidity	NTU	12	6.1	<1	1.6	±3.2
Suspended Solids	mg/L	12	19	2.0	6.2	±10
Volatile Solids	mg/L	12	9.0	2.0	3.9	±4.4
Total Dissolved Solids	mg/L	12	114	6.0	26	±57
Total Solids	mg/L	12	119	10	33	±59
Fixed Residue	mg/L	12	10	0.0	3.0	±6.1
COD	mg/L	12	19	1.0	6.2	±12

[a] Metals are analyzed quarterly from a continuous flow composite.
[b] Field measurements.
- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	Arithmetic 2 Std Dev
Upper Three Runs Highway 278, Cont'd.[a]						
Chloride	mg/L	12	2.7	0.05	1.5	±1.4
Nitrogen (NO_2/NO_3)	mg/L	12	1.1	0.15	0.28	±0.52
Sulfate	mg/L	12	3.0	<1.0	1.9	±1.1
Phosphorus (as PO_4)	mg/L	12	0.03	<0.01	0.01	±0.01
Aluminum	mg/L	4	0.07	<0.05	-	-
Nitrogen (as NH_3)	mg/L	12	0.03	0.0	0.01	±0.02
Calcium	mg/L	4	0.48	0.37	-	-
Copper	mg/L	4	<0.01	<0.01	-	-
Cadmium	mg/L	4	<0.01	<0.01	-	-
Magnesium	mg/L	4	0.37	0.29	-	-
Manganese	mg/L	4	<0.01	<0.01	-	-
Mercury	µg/L	4	<0.20	<0.20	-	-
Nickel	mg/L	4	<0.20	<0.05	-	-
Sodium	mg/L	4	1.5	1.0	-	-
Iron	mg/L	4	0.37	0.05	-	-
Lead	mg/L	4	0.02	<0.01	-	-
Chromium	mg/L	4	<0.02	<0.02	-	-
Zinc	mg/L	4	<0.01	<0.01	-	-

[a] Metals are analyzed quarterly from a continuous flow composite.
- Insufficient data; mean not calculated for <5 samples.

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Beaver Dam Creek Water Quality Data Summary

Quarter 1, January 1 - March 31, 1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	82	56	68
pH	pH	6.9	6.1	
Dissolved Oxygen	mg/L	11	5.0	8.4
Conductivity	µmhos/cm	141	75	106
Oxidation/Reduction Potential	mV	317	272	304

Quarter 2, April 1 - June 30,1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	90	58	79
pH	pH	8.0	5.8	
Dissolved Oxygen	mg/L	9.3	5.4	7.2
Conductivity	µmhos/cm	176	88	120
Oxidation/Reduction Potential	mV	322	252	309

Quarter 3, July 1 - September 30,1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	89	71	81
pH	pH	8.4	5.4	
Dissolved Oxygen	mg/L	9.3	5.1	6.5
Conductivity	µmhos/cm	153	79	119
Oxidation/Reduction Potential	mV	330	260	303

Quarter 4, October 1 - December 31,1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	85	51	64
pH	pH	8.1	5.7	
Dissolved Oxygen	mg/L	13	2.6	9.3
Conductivity	µmhos/cm	239	76	136
Oxidation/Reduction Potential	mV	305	262	281

TABLE 4-18
SRS STREAM WATER QUALITY, CONT'D.

Steel Creek Water Quality Data Summary

Quarter 1, January 1 - March 31, 1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	70	53	59
Dissolved Oxygen	mg/L	10.5	7.5	8.9

Quarter 2, April 1 - June 30, 1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	82	64	73
Dissolved Oxygen	mg/L	8.6	5.0	6.5

Quarter 3, July 1 - September 30, 1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	81	75	78
Dissolved Oxygen	mg/L	7.2	5.0	5.8

Quarter 4, October 1 - December 31, 1988

Parameter	Units	Hourly Maximum	Hourly Minimum	Hourly Average
Temperature	°F	76	54	62
Dissolved Oxygen	mg/L	10	6.3	8.4

TABLE 4-19
SRS STREAM WATER QUALITY: PESTICIDES, HERBICIDES AND VOLATILE ORGANICS

Parameter	Units	No. of Analyses	Maximum	Minimum	Arithmetic Mean	Arithmetic 2 Std Dev
Tims Branch-5						
2, 2.4-D	µg/L	12	<20	<0.2	-	-
Silvex	µg/L	12	<2	<0.05	-	-
Methoxychlor	µg/L	12	<20	<0.02	-	-
Toxaphene	µg/L	12	<2.5	<1	-	-
Lindane	µg/L	12	<1	<0.05	-	-
Endrin	µg/L	12	<0.05	<0.04	-	-
Tetrachloroethylene	µg/L	12	<5	<1	-	-
Trichloroethylene	µg/L	12	<5	<1	-	-
1,1,1-Trichloroethane	µg/L	12	<5	<1	-	-
Four Mile Creek-A7						
2, 2.4-D	µg/L	12	<20	<0.2	-	-
Silvex	µg/L	12	<2	<0.05	-	-
Methoxychlor	µg/L	12	<20	<0.2	-	-
Toxaphene	µg/L	12	<2.5	<1	-	-
Lindane	µg/L	12	<1	<0.05	-	-
Endrin	µg/L	12	<0.05	<0.04	-	-
Tetrachloroethylene	µg/L	12	<5	<1	-	-
Trichloroethylene	µg/L	12	<5	<1	-	-
1,1,1-Trichloroethane	µg/L	12	<5	<1	-	-
Steel Creek-4						
2, 2.4-D	µg/L	12	<20	<0.2	-	-
Silvex	µg/L	12	<2	<0.05	-	-
Methoxychlor	µg/L	12	<20	<0.2	-	-
Toxaphene	µg/L	12	<2.5	<1	-	-
Lindane	µg/L	12	<1	<0.05	-	-
Endrin	µg/L	12	<0.05	<0.04	-	-
Tetrachloroethylene	µg/L	12	<5	<1	-	-
Trichloroethylene	µg/L	12	<5	<1	-	-
1,1,1-Trichloroethane	µg/L	12	<5	<1	-	-
Upper Three Runs Creek-4						
2, 2.4-D	µg/L	12	<20	<0.2	-	-
Silvex	µg/L	12	<2	<0.05	-	-
Methoxychlor	µg/L	12	<20	<0.2	-	-
Toxaphene	µg/L	12	<2.5	<1	-	-
Lindane	µg/L	12	<1	<0.05	-	-
Endrin	µg/L	12	<0.05	<0.04	-	-
Tetrachloroethylene	µg/L	12	<5	<1	-	-
Trichloroethylene	µg/L	12	<5	<1	-	-
1,1,1-Trichloroethane	µg/L	12	<5	<1	-	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 4-20
PESTICIDES, HERBICIDES, AND PCBS DETECTION LIMITS

Constituents[a]	Water (µg/L)	Sediment (µg/kg)
Aldrin	<0.05	<2
alpha-BHC	<0.05	<2
beta-BHC	<0.05	<2
delta-BHC	<0.05	<2
gamma-BHC	<0.05	<2
alpha-Chlordane	<0.05	<2
gamma-Chlordane	<0.05	<2
tech. Chlordane	<0.25	<8
4,4-DDD	<0.05	<2
4,4-DDE	<0.05	<2
4,4-DDT	<0.05	<2
Dieldrin	<0.05	<2
Endosulfan I	<0.05	<2
Endosulfan II	<0.05	<2
Endosulfan Sulfate	<0.05	<2
Endrin	<0.05	<2
Endrin Aldehyde	<0.05	<2
Hepatachlor	<0.05	<2
Hepatachlor Epoxide	<0.05	<2
Methoxychlor	<0.20	<7
Toxaphene	<2.50	<83.0
PCB 1016	<0.50	<20
PCB 1221	<0.50	<20
PCB 1232	<0.50	<20
PCB 1242	<0.50	<20
PCB 1248	<0.50	<20
PCB 1254	<0.50	<20
PCB 1260	<0.50	<20
2,4-D	<0.20	<40.0
2,4,5-TP (Silvex)	<0.05	<10.0

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates

TABLE 4-21
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER WATER

Constituents (µg/L)[a]	River 2 Above SRS[b]	River 10 Below SRS[b]	Upper Three Runs at Road F[b]
Aldrin	<0.05	<0.05	<0.05
alpha-BHC	<0.05	<0.05	<0.05
beta-BHC	<0.05	<0.05	<0.05
delta-BHC	<0.05	<0.05	<0.05
gamma-BHC	<0.05	<0.05	<0.05
alpha-Chlordane	<0.05	<0.05	<0.05
gamma-Chlordane	<0.05	<0.05	<0.05
tech. Chlordane	<0.25	<0.25	<0.25
4,4-DDD	<0.05	<0.05	<0.05
4,4-DDE	<0.05	<0.05	<0.05
4,4-DDT	<0.05	<0.05	<0.05
Dieldrin	<0.05	<0.05	<0.05
Endosulfan I	<0.05	<0.05	<0.05
Endosulfan II	<0.05	<0.05	<0.05
Endosulfan Sulfate	<0.05	<0.05	<0.05
Endrin	<0.05	<0.05	<0.05
Endrin Aldehyde	<0.05	<0.05	<0.05
Hepatachlor	<0.05	<0.05	<0.05
Hepatachlor Epoxide	<0.05	<0.05	<0.05
Methoxychlor	<0.20	<0.20	<0.20
Toxaphene	<2.50	<2.50	<2.50
PCB 1016	<0.50	<0.50	<0.50
PCB 1221	<0.50	<0.50	<0.50
PCB 1232	<0.50	<0.50	<0.50
PCB 1242	<0.50	<0.50	<0.50
PCB 1248	<0.50	<0.50	<0.50
PCB 1254	<0.50	<0.50	<0.50
PCB 1260	<0.50	<0.50	<0.50
2,4-D	<0.20	<0.20	<0.20
2,4,5-TP (Silvex)	<0.05	<0.05	<0.05

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.
[b] Samples collected July 22, 1988

TABLE 4-21
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER WATER, CONT'D.

Constituents(µg/L)[a]	Steel Creek at Road A[b]	Par Pond Pumphouse[b]	Lower Three Runs at Road F[b]
Aldrin	<0.05	<0.05	<0.05
alpha-BHC	<0.05	<0.05	<0.05
beta-BHC	<0.05	<0.05	<0.05
delta-BHC	<0.05	<0.05	<0.05
gamma-BHC	<0.05	<0.05	<0.05
alpha-Chlordane	<0.05	<0.05	<0.05
gamma-Chlordane	<0.05	<0.05	<0.05
tech. Chlordane	<0.25	<0.02	<0.05
4,4-DDD	<0.05	<0.05	<0.05
4,4-DDE	<0.05	<0.05	<0.05
4,4-DDT	<0.05	<0.05	<0.05
Dieldrin	<0.05	<0.05	<0.05
Endosulfan I	<0.05	<0.05	<0.05
Endosulfan II	<0.05	<0.05	<0.05
Endosulfan Sulfate	<0.05	<0.05	<0.05
Endrin	<0.05	<0.05	<0.05
Endrin Aldehyde	<0.05	<0.05	<0.05
Hepatachlor	<0.05	<0.05	<0.05
Hepatachlor Epoxide	<0.05	<0.05	<0.05
Methoxychlor	<0.20	<0.20	<0.20
Toxaphene	<2.50	<2.50	<2.50
PCB 1016	<0.50	<0.50	<0.50
PCB 1221	<0.50	<0.50	<0.50
PCB 1232	<0.50	<0.50	<0.50
PCB 1242	<0.50	<0.50	<0.50
PCB 1248	<0.50	<0.50	<0.50
PCB 1254	<0.50	<0.50	<0.50
PCB 1260	<0.50	<0.50	<0.50
2,4-D	<0.20	<0.20	<0.20
2,4,5-TP (Silvex)	<0.05	<0.05	<0.05

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.
[b] Samples collected July 22, 1988.

TABLE 4-21
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER WATER, CONT'D.

Constituents (ug/L)[a]	Upper Three Runs at Road A[b]	Four Mile Creek at Road A[b]	Pen Branch at Road A[b]
Aldrin	<0.05	<0.05	<0.05
alpha-BHC	<0.05	<0.05	<0.05
beta-BHC	<0.05	<0.05	<0.05
delta-BHC	<0.05	<0.05	<0.05
gamma-BHC	<0.05	<0.05	<0.05
alpha-Chlordane	<0.05	<0.05	<0.05
gamma-Chlordane	<0.05	<0.05	<0.05
tech. Chlordane	<0.25	<0.02	<0.05
4,4-DDD	<0.05	<0.05	<0.05
4,4-DDE	<0.05	<0.05	<0.05
4,4-DDT	<0.05	<0.05	<0.05
Dieldrin	<0.05	<0.05	<0.05
Endosulfan I	<0.05	<0.05	<0.05
Endosulfan II	<0.05	<0.05	<0.05
Endosulfan Sulfate	<0.05	<0.05	<0.05
Endrin	<0.05	<0.05	<0.05
Endrin Aldehyde	<0.05	<0.05	<0.05
Hepatachlor	<0.05	<0.05	<0.05
Hepatachlor Epoxide	<0.05	<0.05	<0.05
Methoxychlor	<0.20	<0.20	<0.20
Toxaphene	<2.50	<2.50	<2.50
PCB 1016	<0.50	<0.50	<0.50
PCB 1221	<0.50	<0.50	<0.50
PCB 1232	<0.50	<0.50	<0.50
PCB 1242	<0.50	<0.50	<0.50
PCB 1248	<0.50	<0.50	<0.50
PCB 1254	<0.50	<0.50	<0.50
PCB 1260	<0.50	<0.50	<0.50
2,4-D	<0.20	<0.20	<0.20
2,4,5-TP (Silvex)	<0.05	<0.05	<0.05

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.
[b] Samples collected July 22, 1988.

TABLE 4-22
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER SEDIMENT

Constituents (ug/kg)[a]	River 2 Above SRS[b]	River 10 Below SRS[b]	Upper Three Runs at Road F[b]
Aldrin	<2	<2	<2
Alpha-BHC	<2	<2	<2
beta-BHC	<2	<2	<2
delta-BHC	<2	<2	<2
gamma-BHC	<2	<2	<2
alpha-Chlordane	<2	<2	<2
gamma-Chlordane	<2	<2	<2
tech. Chlordane	<8	<8	<8
4,4-DDD	<2	<2	<2
4,4-DDE	<2	<2	<2
4,4-DDT	<2	<2	<2
Dieldrin	<2	<2	<2
Endosulfan I	<2	<2	<2
Endosulfan II	<2	<2	<2
Endosulfan Sulfate	<2	<2	<2
Endrin	<2	<2	<2
Endrin Aldehyde	<2	<2	<2
Hepatachlor	<2	<2	<2
Hepatachlor Epoxide	<2	<2	<2
Methoxychlor	<7	<7	<7
Toxaphene	<83.0	<83.0	<83.0
PCB 1016	<20	<20	<20
PCB 1221	<20	<20	<20
PCB 1232	<20	<20	<20
PCB 1242	<20	<20	<20
PCB 1248	<20	<20	<20
PCB 1254	<20	<20	<20
PCB 1260	<20	<20	<20
2,4-D	<40.0	<40.0	<40.0
2,4,5-TP (silvex)	<10.0	<10.0	<10.0

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.
[b] Samples collected July 22, 1988.

TABLE 4-22
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER SEDIMENT, CONT'D.

Constituents (ug/kg)[a]	Steel Creek at Road A[b]	Par Pond Pumphouse[b]	Lower Three Runs at Road F[b]
Aldrin	<2	<2	<2
Alpha-BHC	<2	<2	<2
beta-BHC	<2	<2	<2
delta-BHC	<2	<2	<2
gamma-BHC	<2	<2	<2
alpha-Chlordane	<2	<2	<2
gamma-Chlordane	<2	<2	<2
tech. Chlordane	<8	<8	<8
4,4-DDD	<2	<2	<2
4,4-DDE	<2	<2	<2
4,4-DDT	<2	<2	<2
Dieldrin	<2	<2	<2
Endosulfan I	<2	<2	<2
Endosulfan II	<2	<2	<2
Endosulfan Sulfate	<2	<2	<2
Endrin	<2	<2	<2
Endrin Aldehyde	<2	<2	<2
Heptachlor	<2	<2	<2
Heptachlor Epoxide	<2	<2	<2
Methoxychlor	<7	<7	<7
Toxaphene	<83.0	<83.0	<83.0
PCB 1016	<20	<20	<20
PCB 1221	<20	<20	<20
PCB 1232	<20	<20	<20
PCB 1242	<20	<20	<20
PCB 1248	<20	<20	<20
PCB 1254	<20	<20	<20
PCB 1260	<20	<20	<20
2,4-D	<40.0	<40.0	<40.0
2,4,5-TP (silvex)	<10.0	<10.0	<10.0

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.
[b] Samples collected July 22, 1988

TABLE 4-22
PESTICIDES, HERBICIDES, AND PCBS IN STREAM AND RIVER SEDIMENT, CONT'D.

Constituents(µg/kg)[a]	Upper Three Runs at Road A[b]	Four Mile Creek at Road A[b]	Pen Branch at Road A[b]
Aldrin	<2	<2	<2
alpha-BHC	<2	<2	<2
beta-BHC	<2	<2	<2
delta-BHC	<2	<2	<2
gamma-BHC	<2	<2	<2
alpha-Chlordane	<2	<2	<2
gamma-Chlordane	<2	<2	<2
tech. Chlordane	<8	<8	<8
4,4-DDD	<2	<2	<2
4,4-DDE	<2	<2	<2
4,4-DDT	<2	<2	<2
Dieldrin	<2	<2	<2
Endosulfan I	<2	<2	<2
Endosulfan II	<2	<2	<2
Endosulfan Sulfate	<2	<2	<2
Endrin	<2	<2	<2
Endrin Aldehyde	<2	<2	<2
Hepatachlor	<2	<2	<2
Hepatachlor Epoxide	<2	<2	<2
Methoxychlor	<7	<7	<7
Toxaphene	<83.0	<83.0	<83.0
PCB 1016	<20	<20	<20
PCB 1221	<20	<20	<20
PCB 1232	<20	<20	<20
PCB 1242	<20	<20	<20
PCB 1248	<20	<20	<20
PCB 1254	<20	<20	<20
PCB 1260	<20	<20	<20
2,4-D	<40.0	<40.0	<40.0
2,4,5-TP (silvex)	<10.0	<10.0	<10.0

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.

[b] Samples collected July 22, 1988

Chapter 5

Groundwater Monitoring Program

Figure 5-1. Geologic cross section of SRS

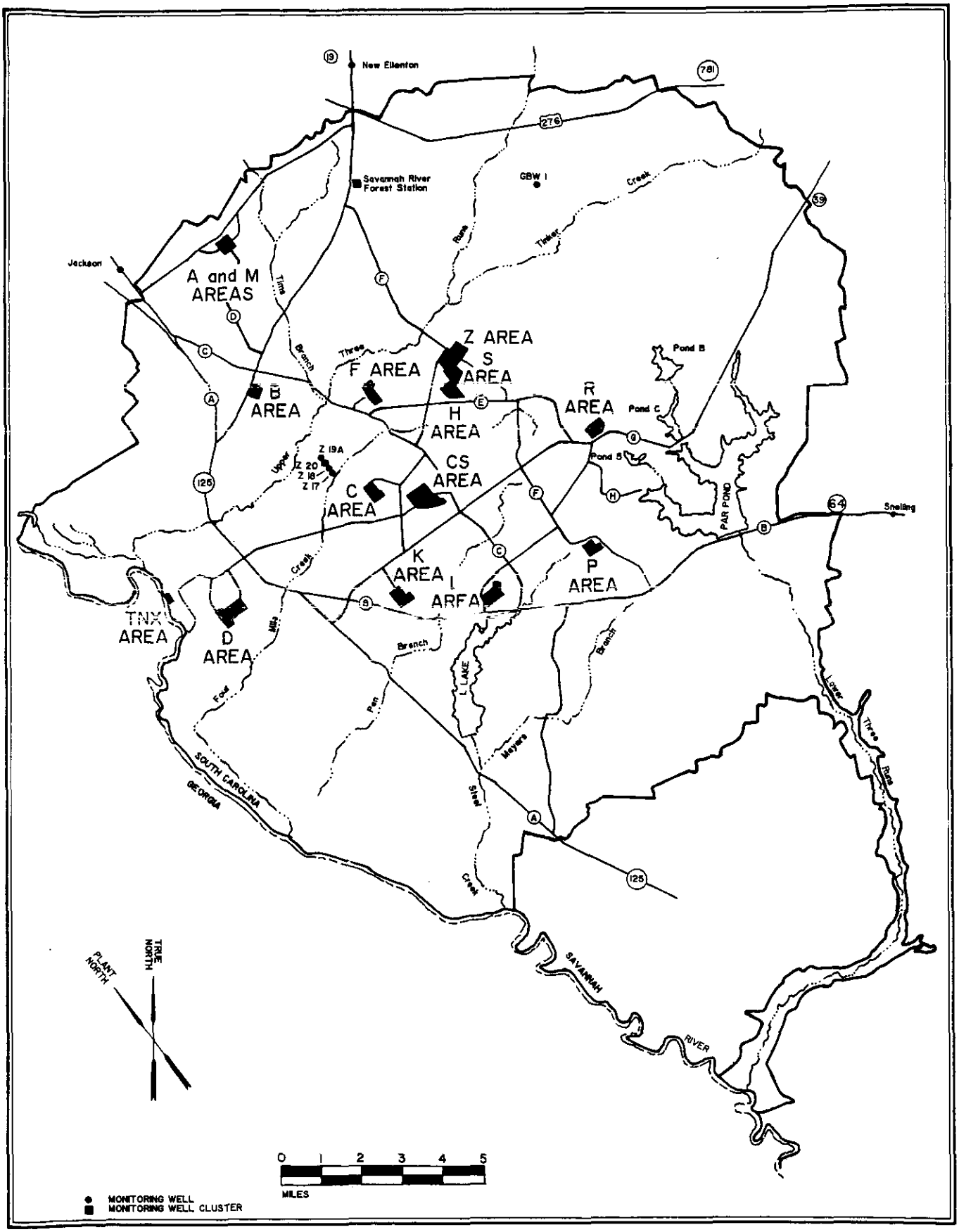


Figure 5-2. The Savannah River Site

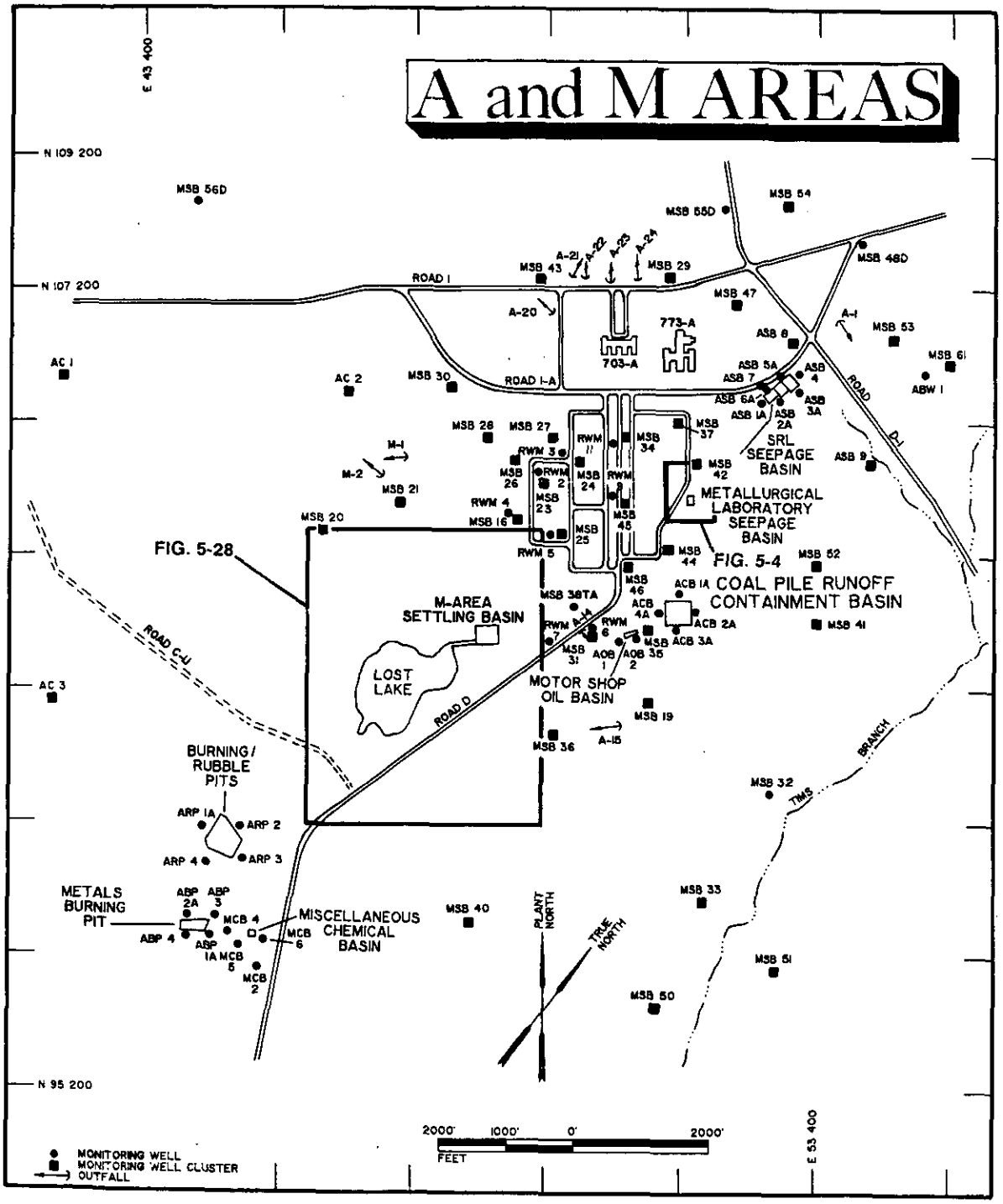


Figure 5-3. Groundwater monitoring at A and M Areas

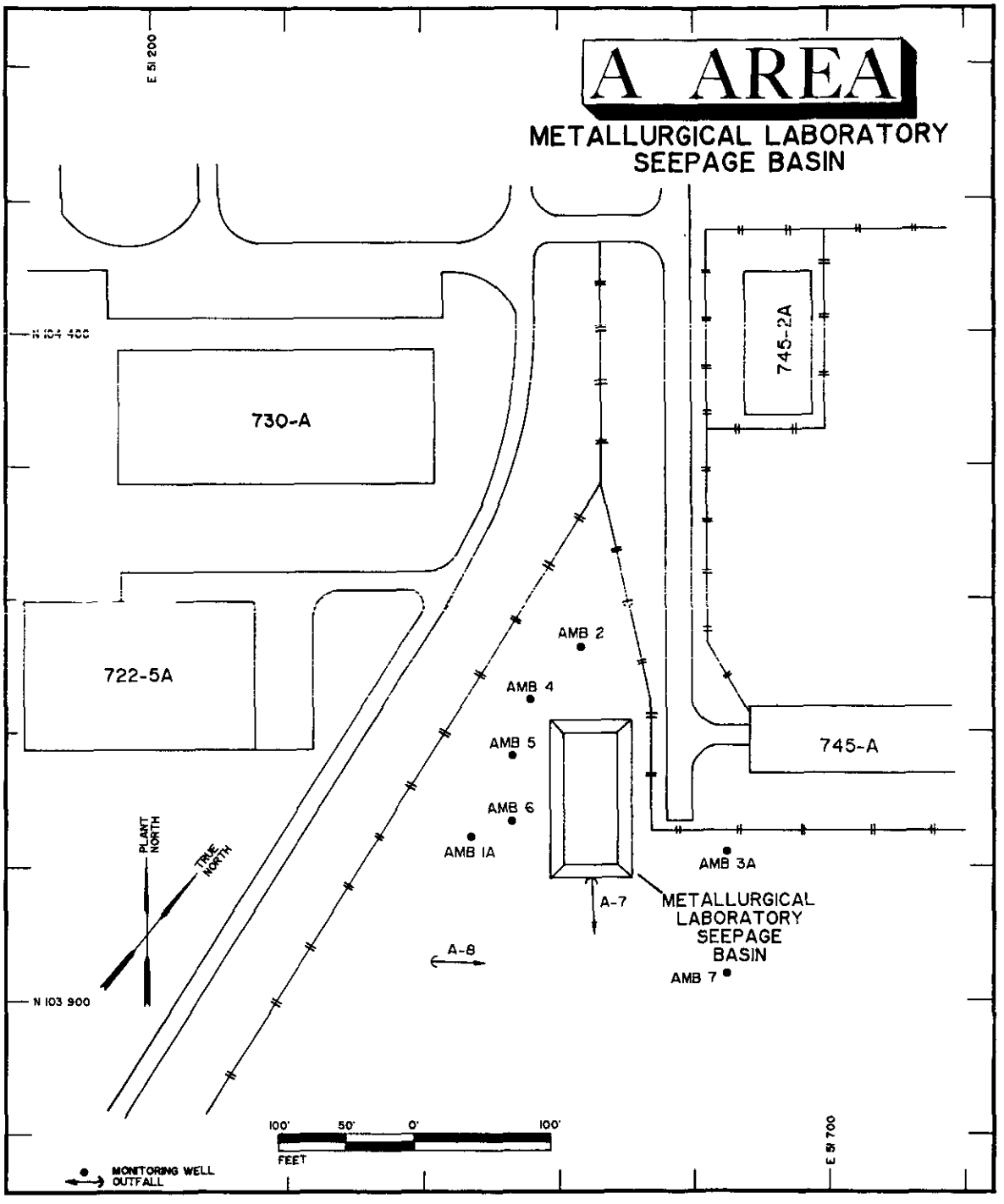


Figure 5-4. Groundwater monitoring at the A-Area Metallurgical Laboratory Seepage Basin

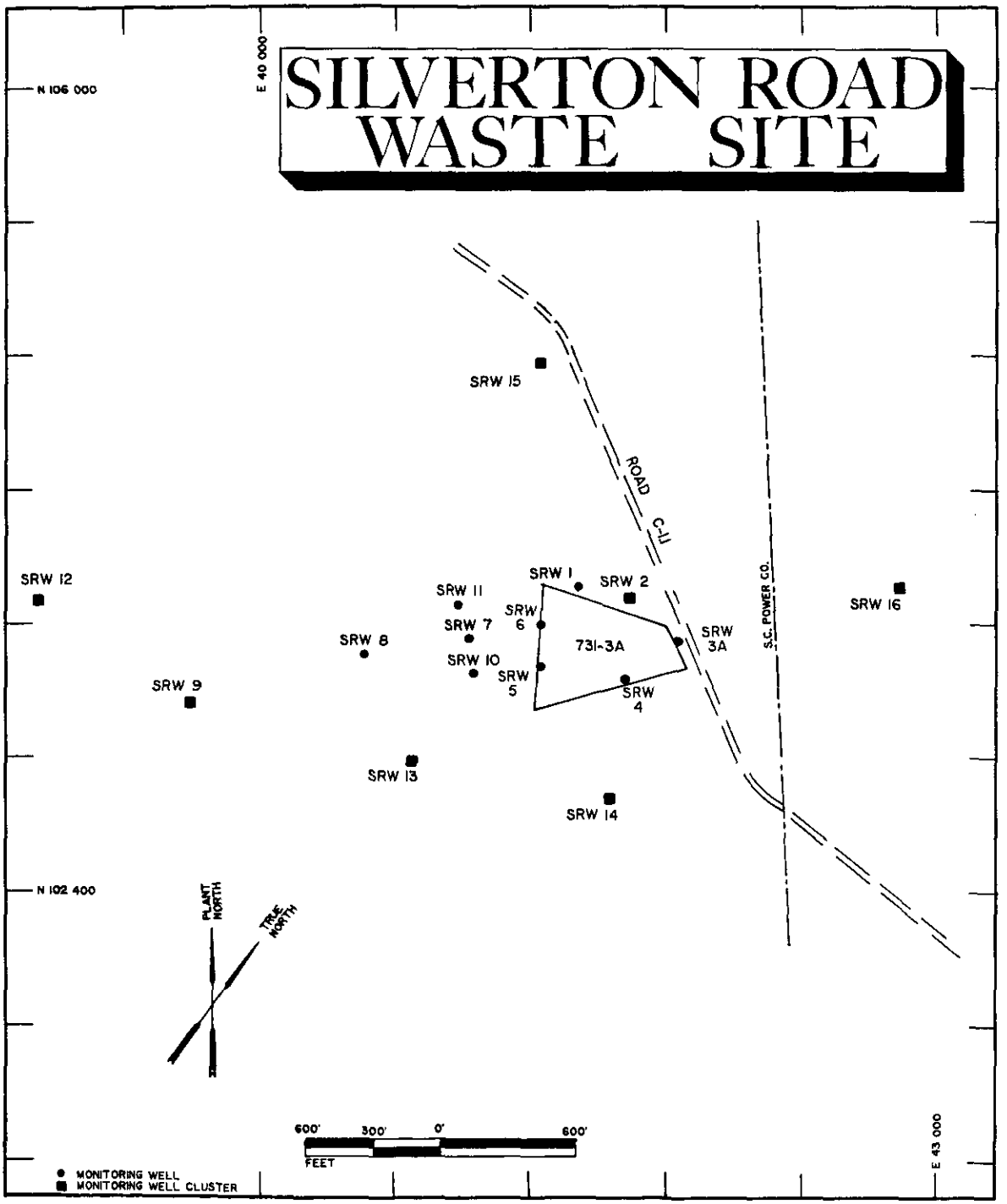


Figure 5-5. Groundwater monitoring at the Silverton Road Waste Site

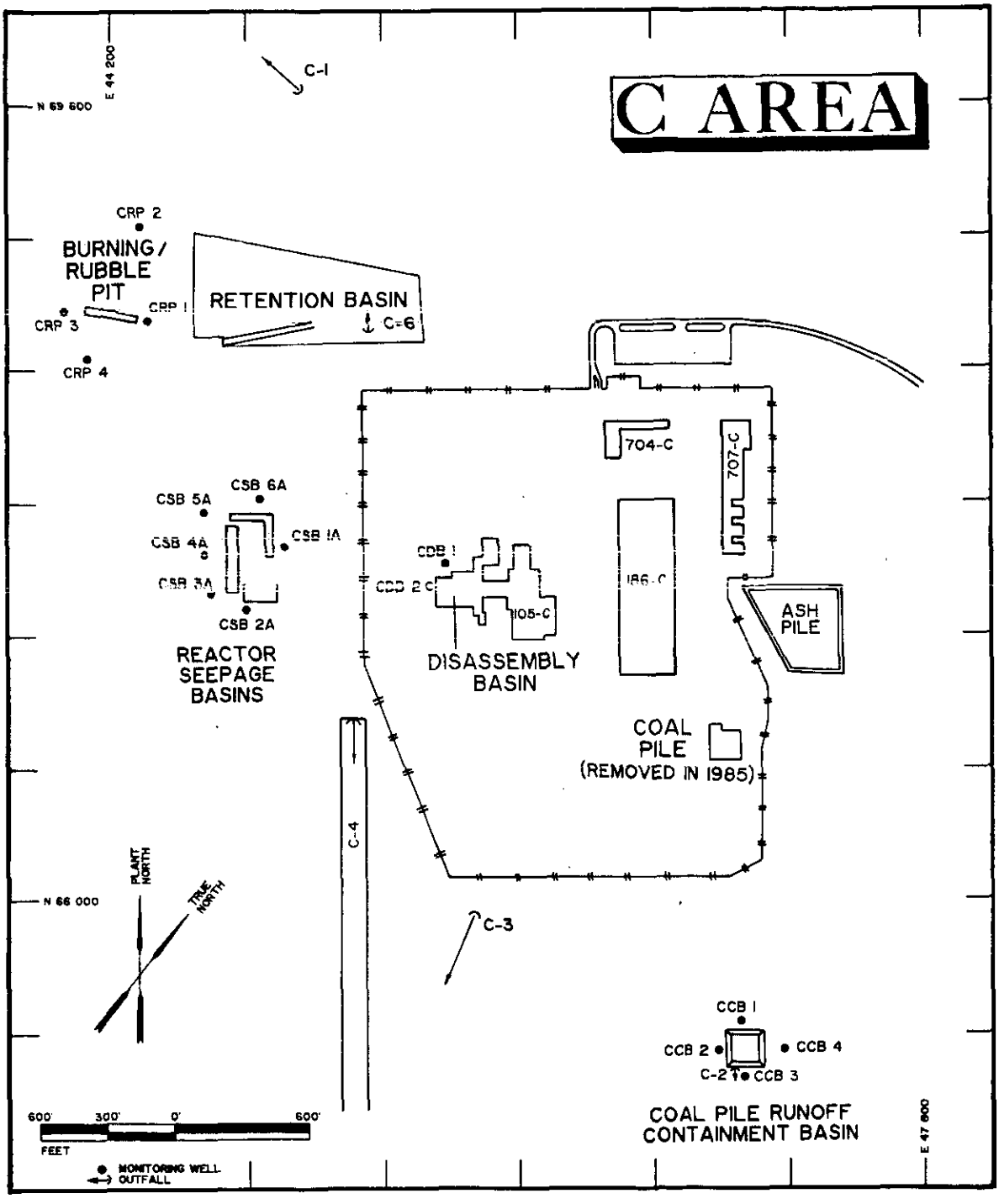


Figure 5-6. Groundwater monitoring at C Area

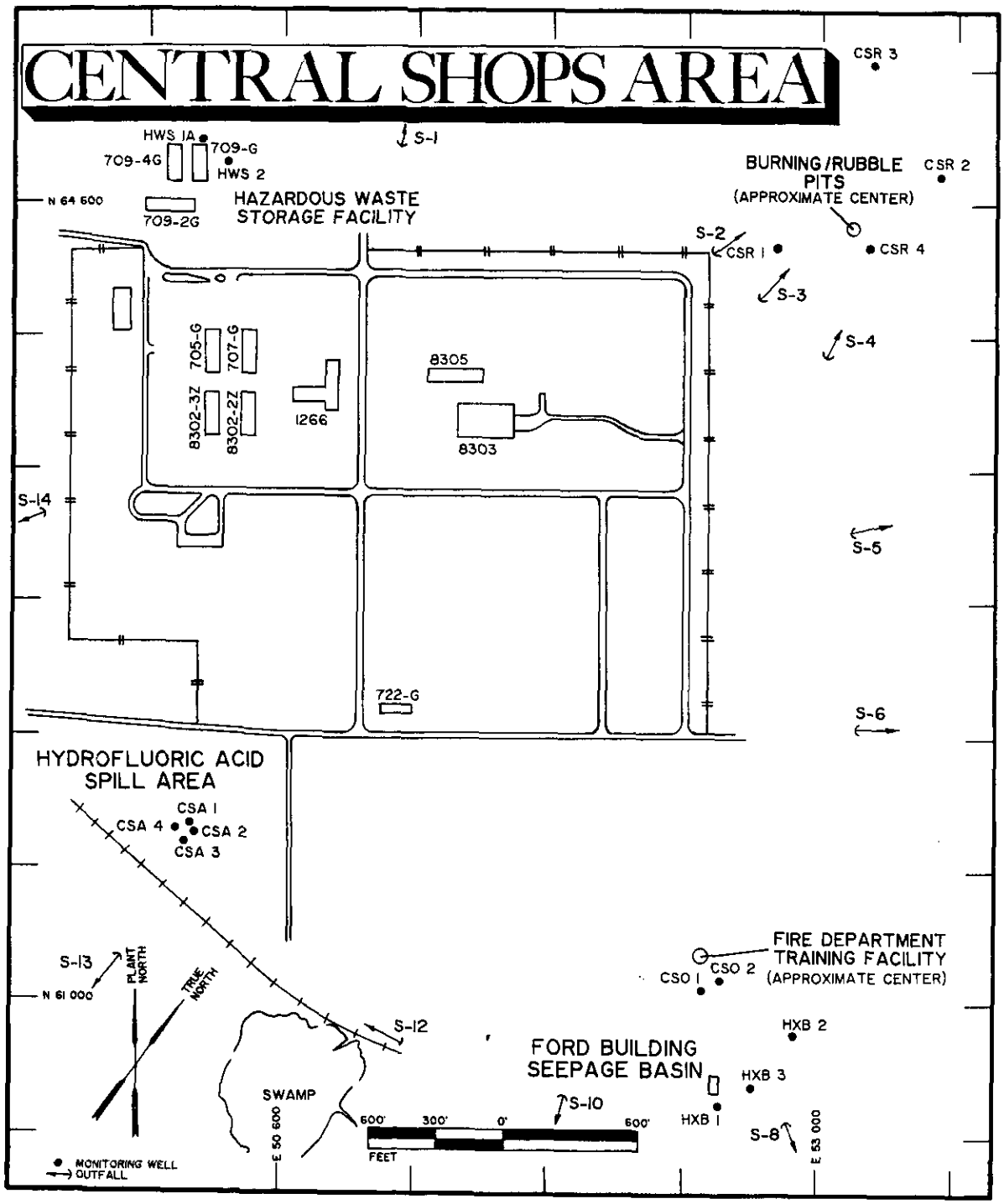


Figure 5-7. Groundwater monitoring at Central Shops Area

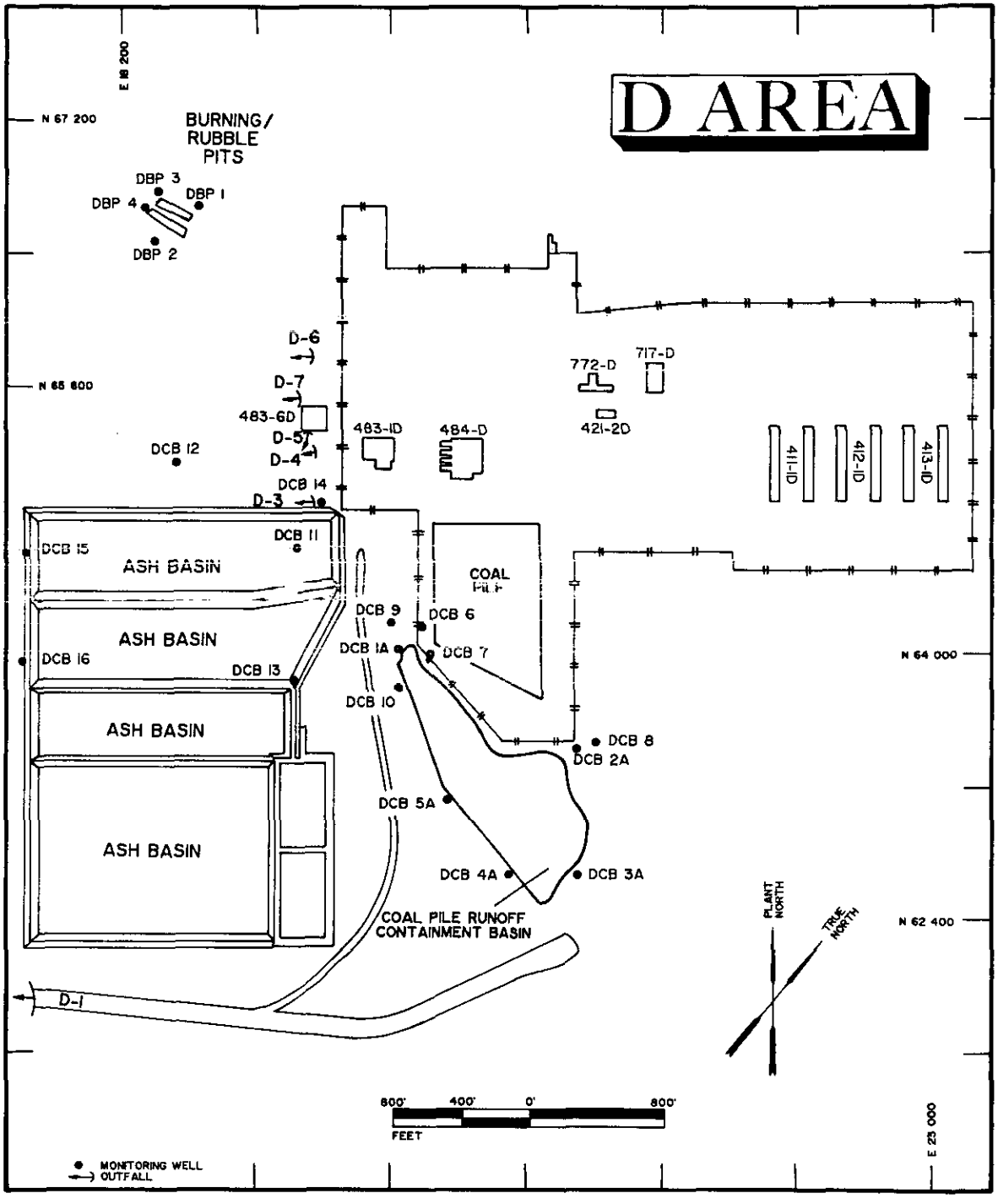


Figure 5-8. Groundwater monitoring at D Area

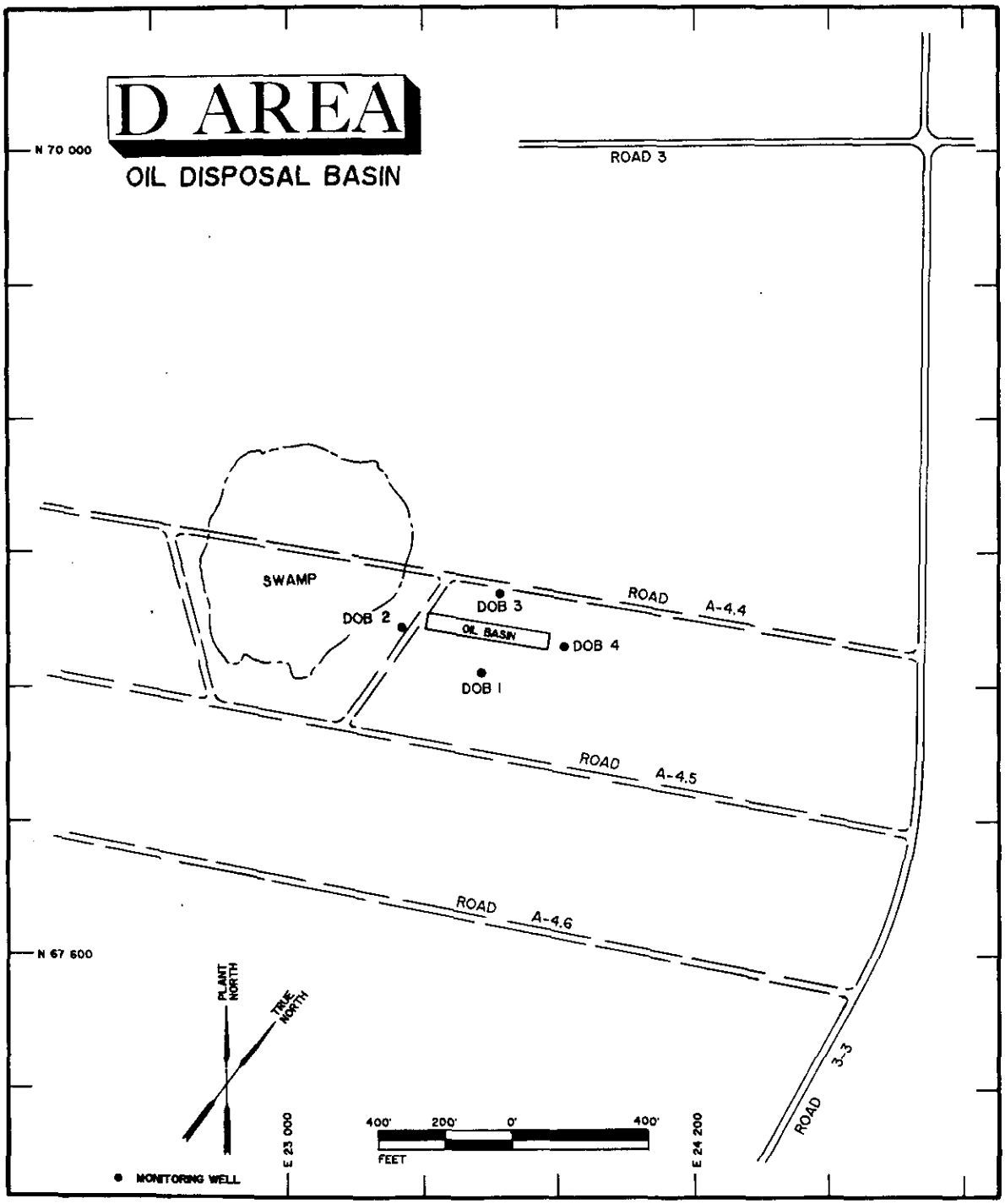


Figure 5-9. Groundwater monitoring at the D-Area Oil Disposal Basin

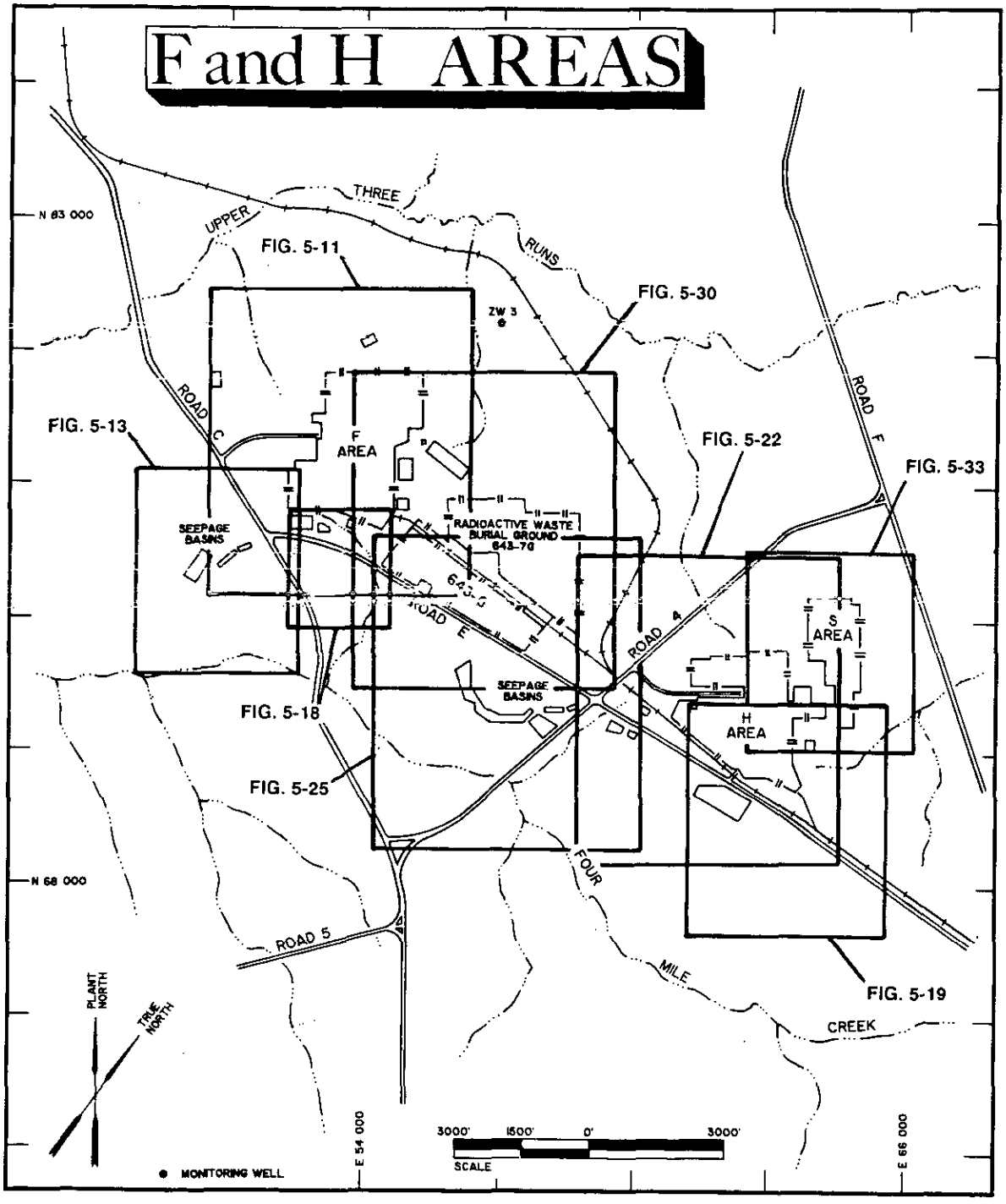


Figure 5-10. Groundwater monitoring at F and H Areas

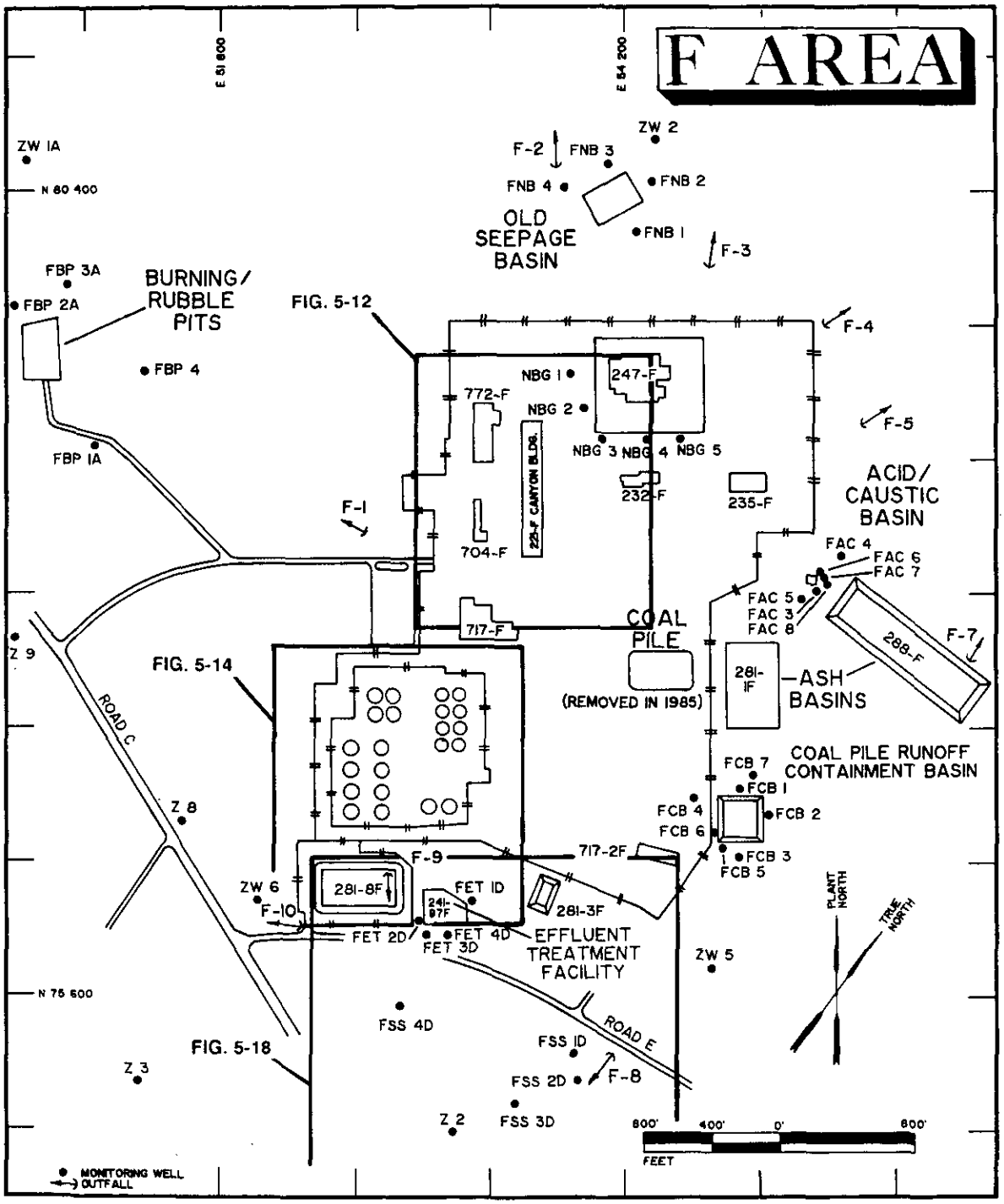


Figure 5-11. Groundwater monitoring at F Area

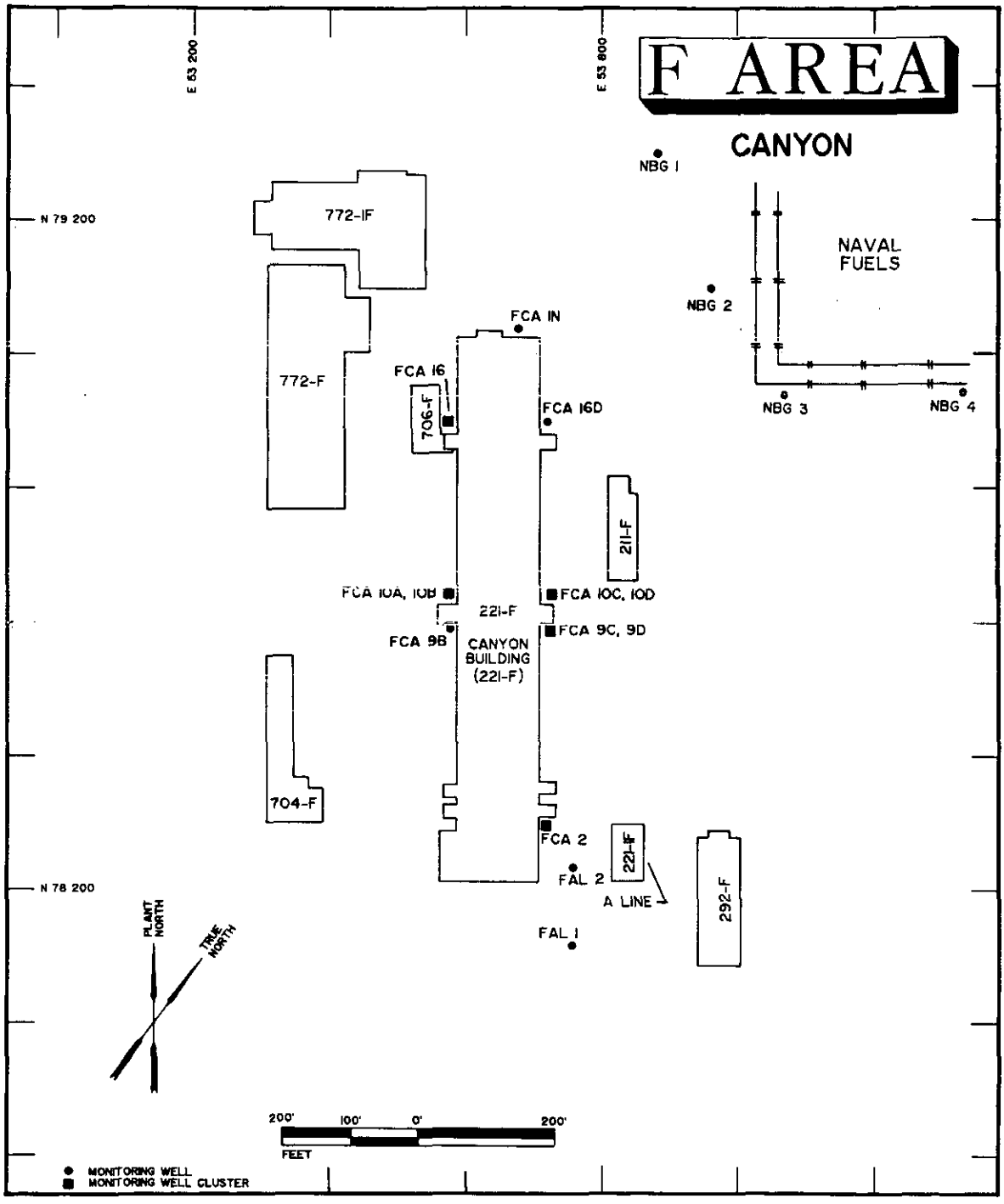


Figure 5-12. Groundwater monitoring at the F-Area Canyon Building

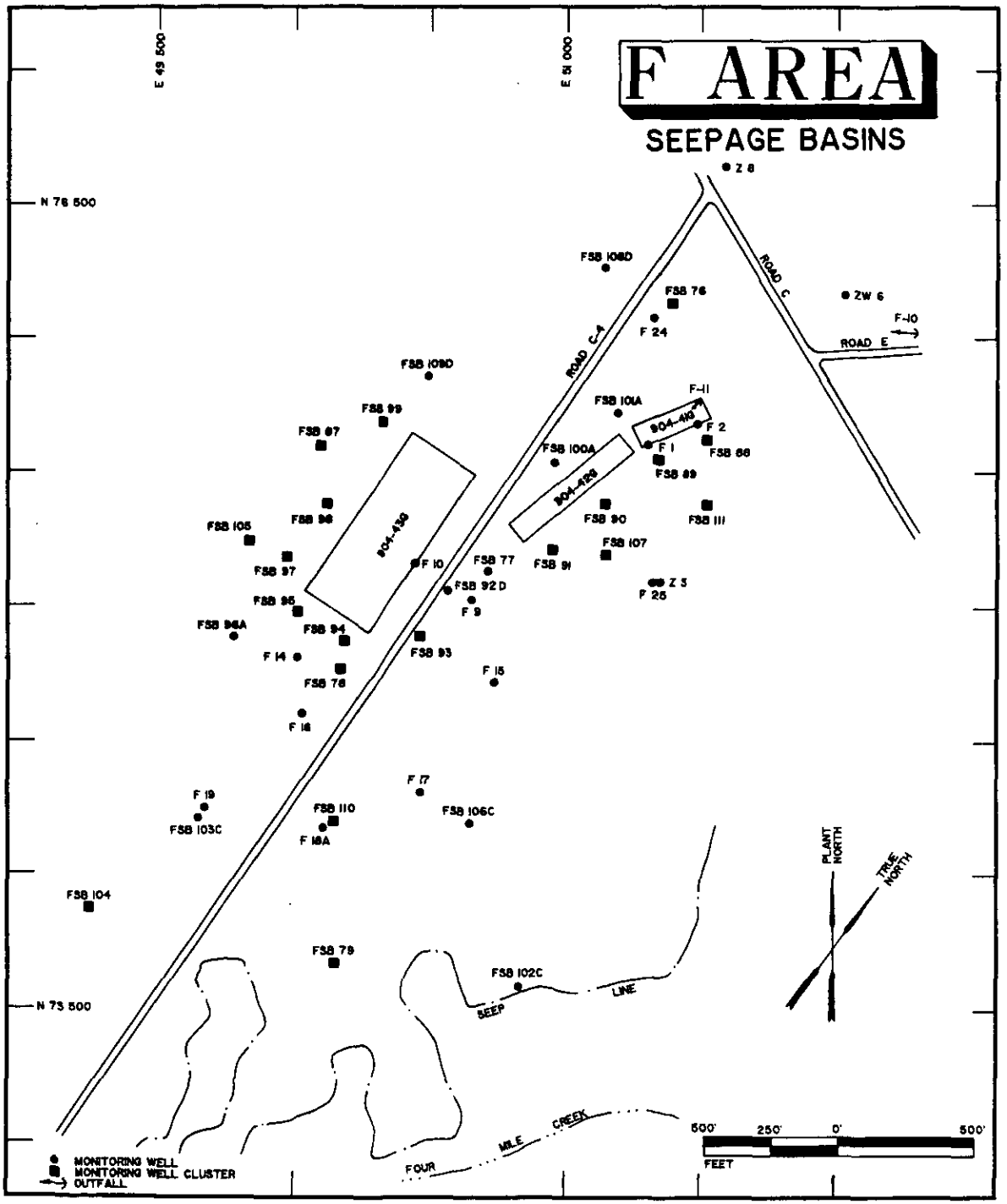


Figure 5-13. Groundwater monitoring at the F-Area Seepage Basins

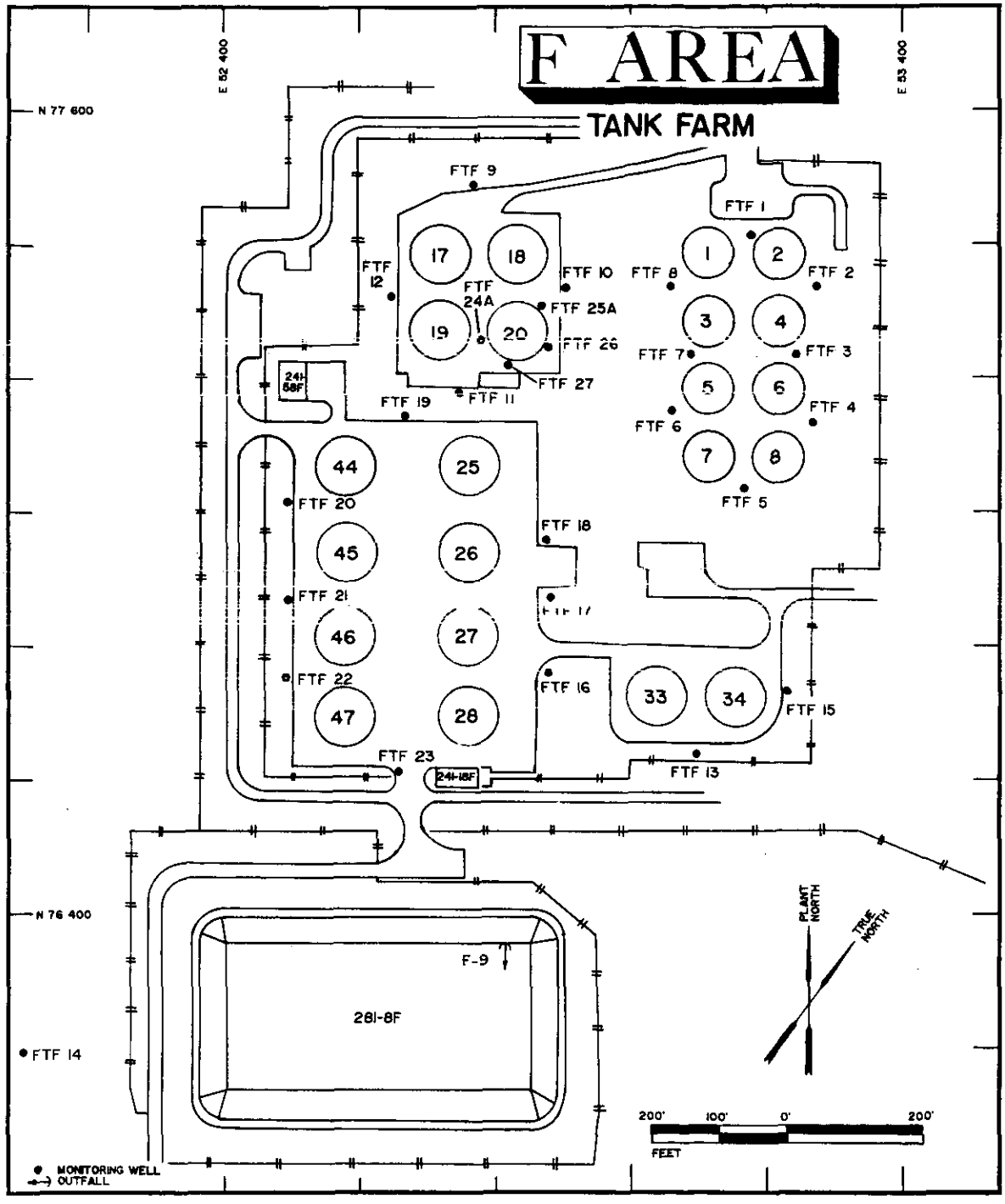


Figure 5-14. Groundwater monitoring at the F-Area Tank Farm

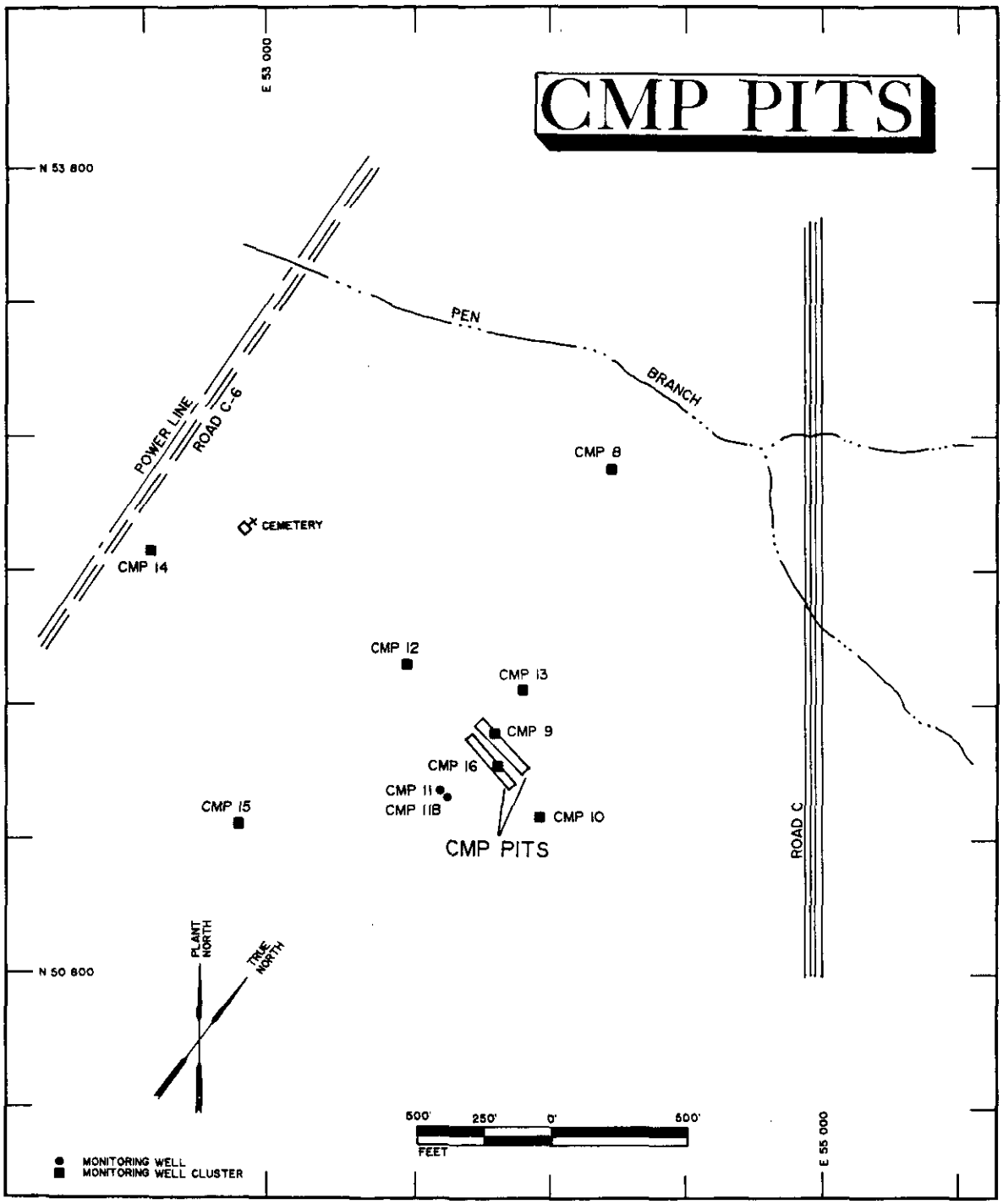


Figure 5-15. Groundwater monitoring at the Chemicals, Metals, Pesticides Pits

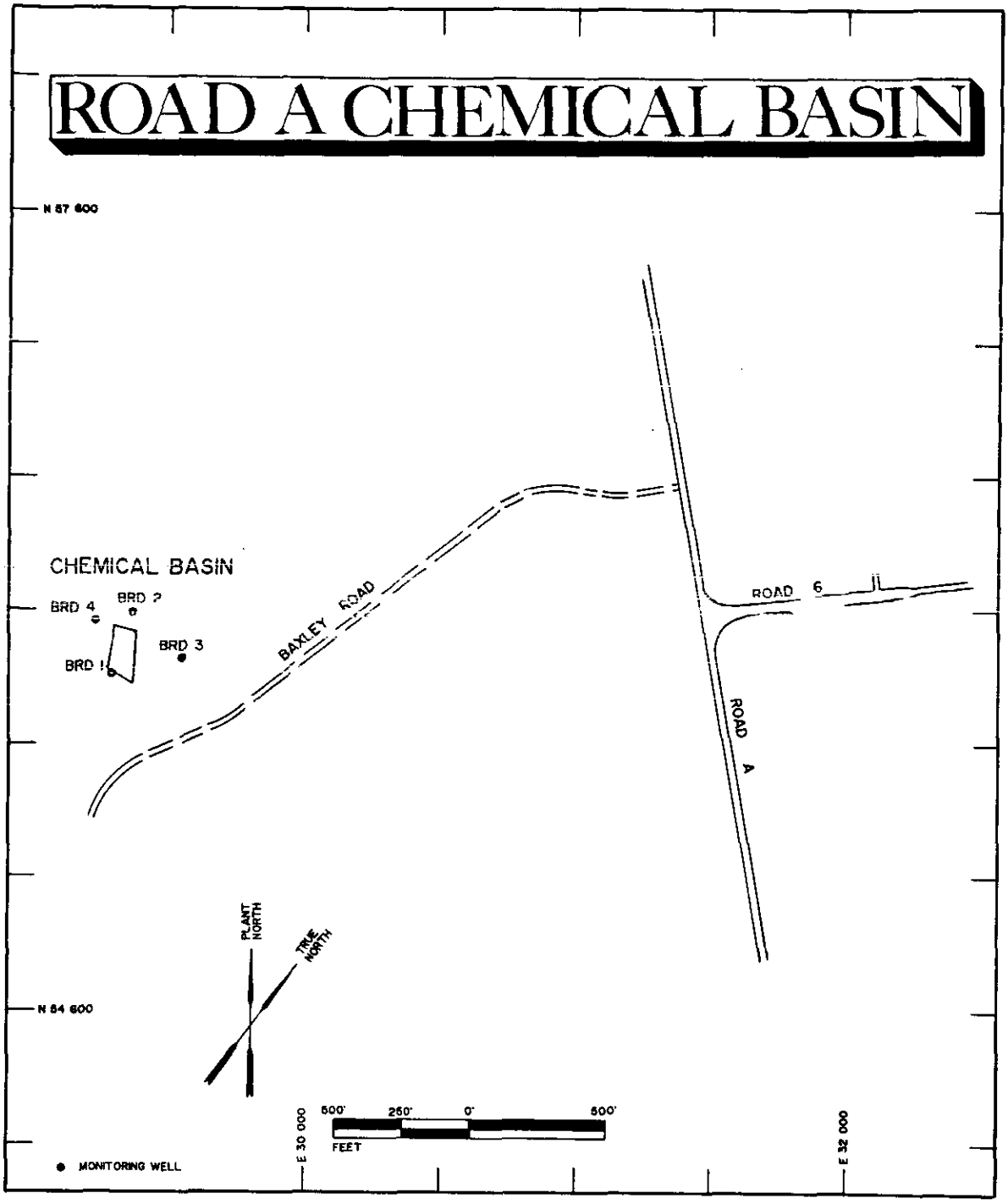


Figure 5-16. Groundwater monitoring at the Road A Chemical Basin

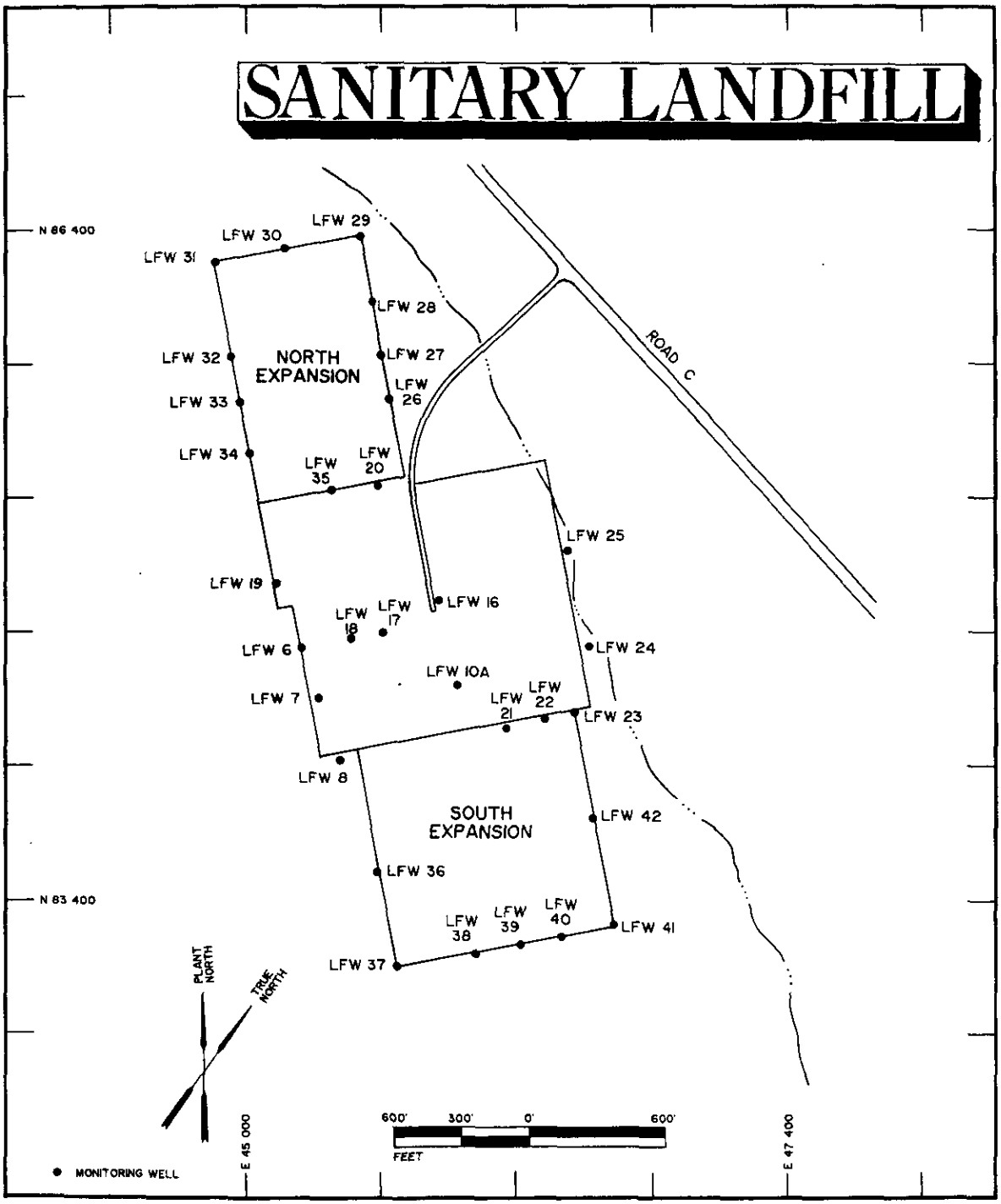


Figure 5-17. Groundwater monitoring at the Sanitary Landfill

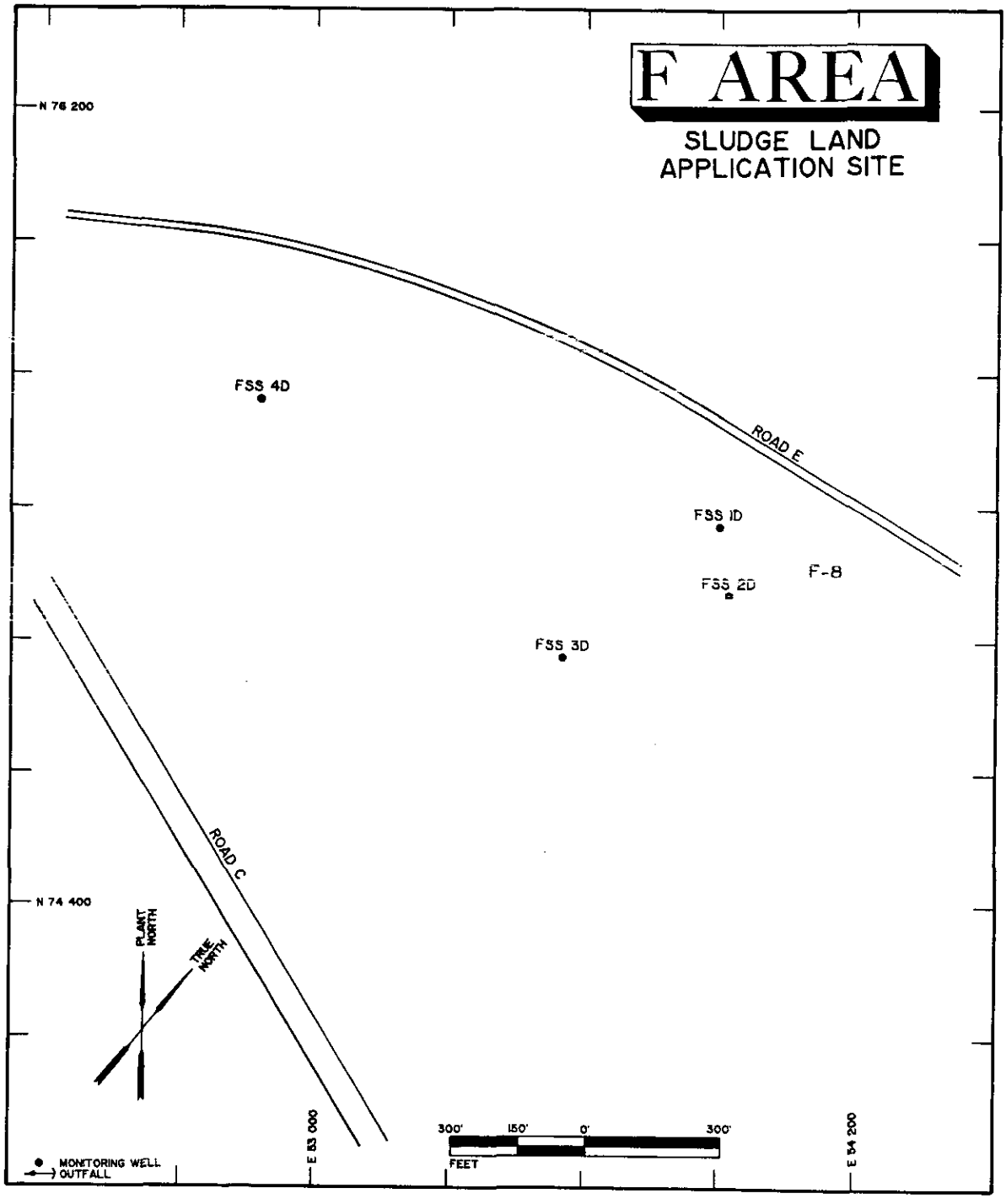


Figure 5-18. Groundwater monitoring at the F-Area Sludge Land Application Site

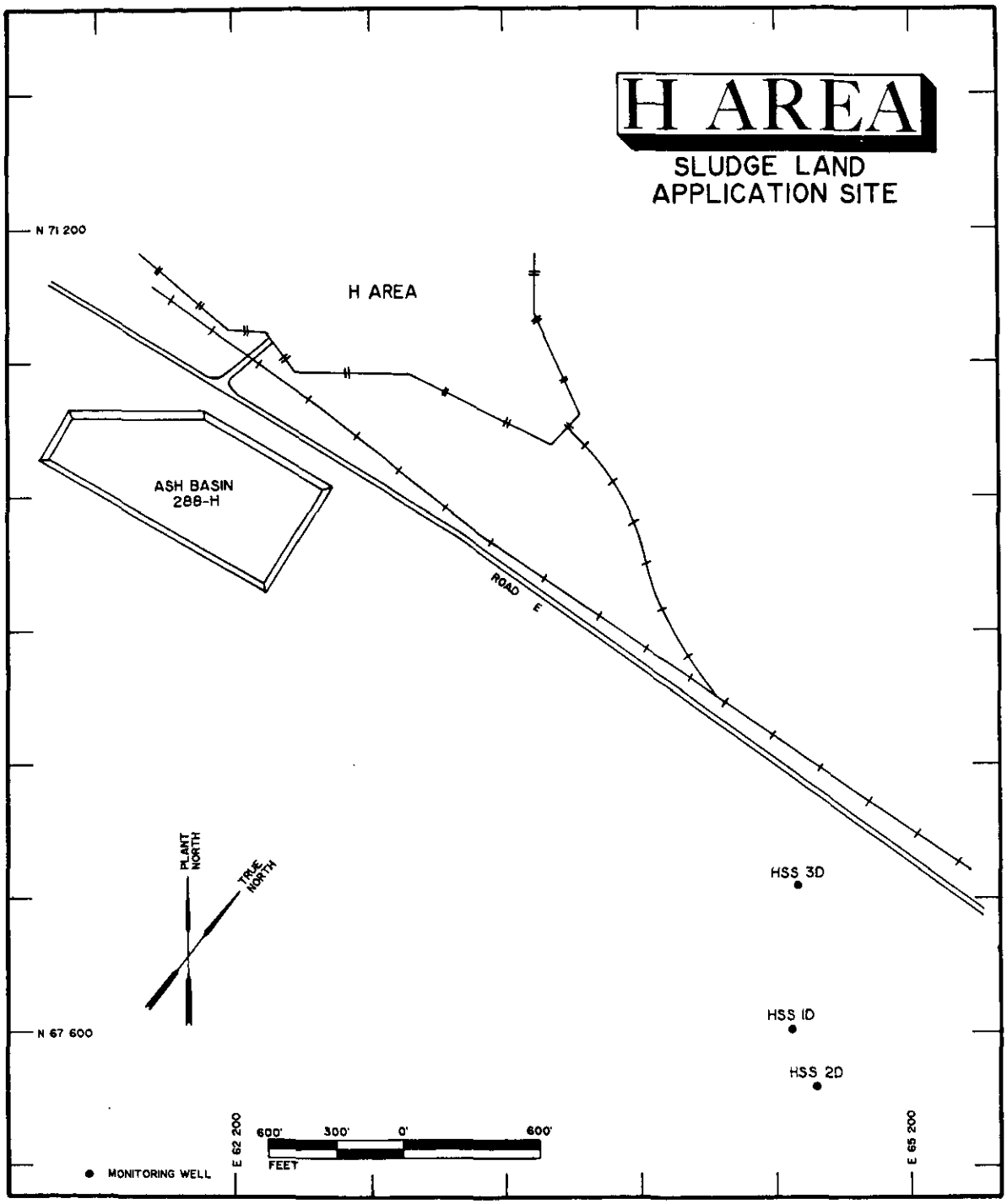


Figure 5-19. Groundwater monitoring at the H-Area Sludge Land Application Site

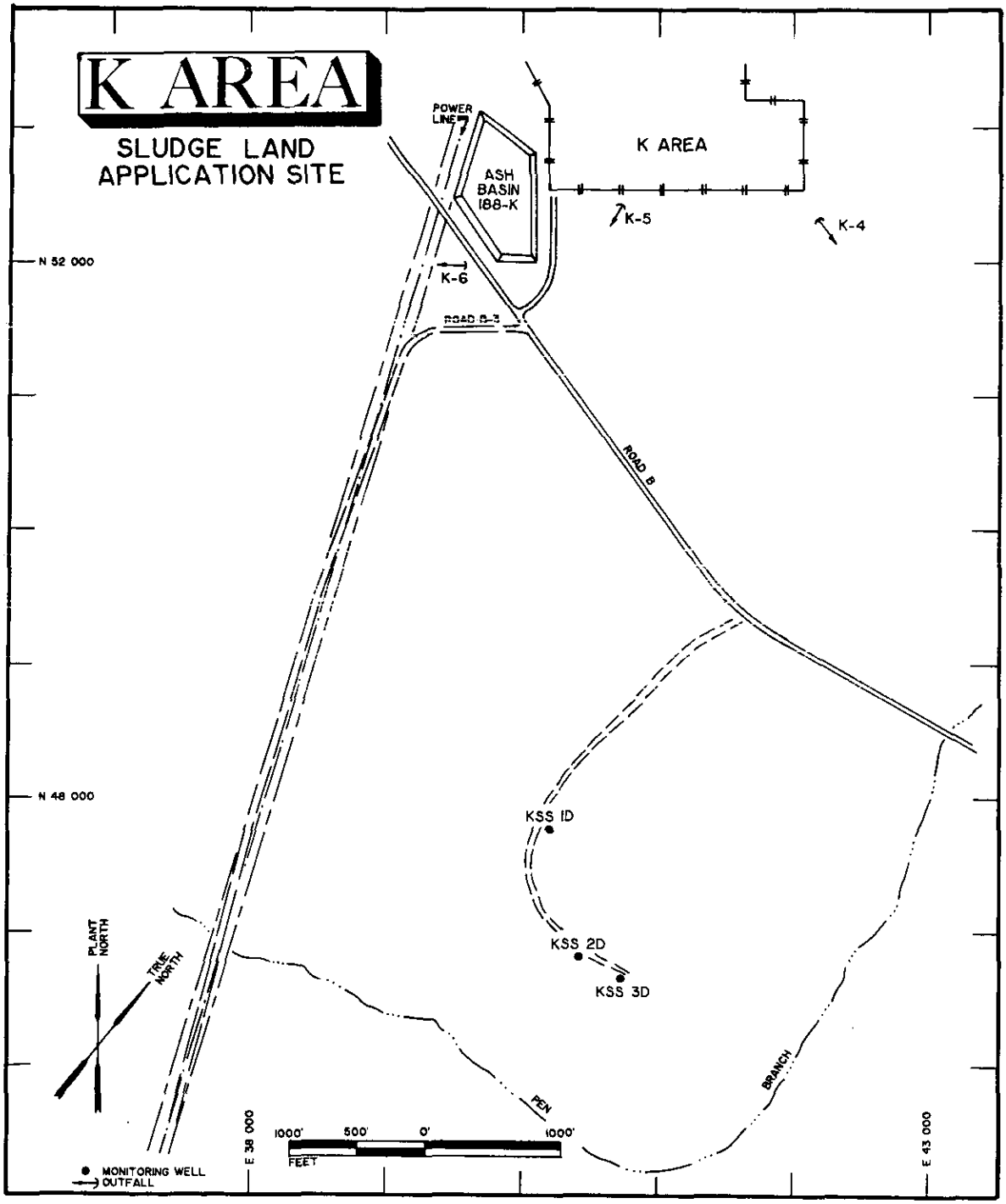


Figure 5-20. Groundwater monitoring at the K-Area Sludge Land Application Site

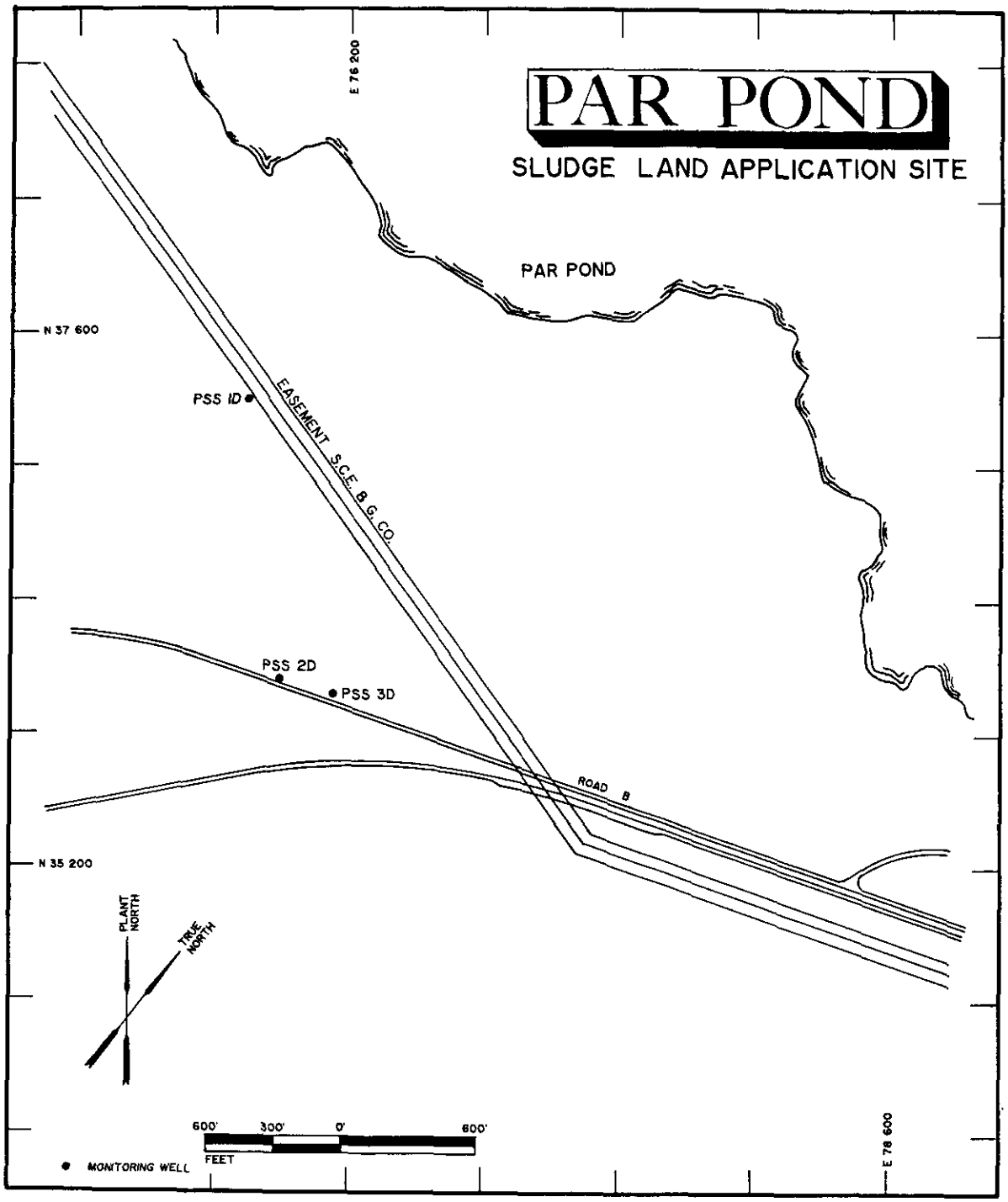


Figure 5-21. Groundwater monitoring at the Par Pond Sludge Land Application Site

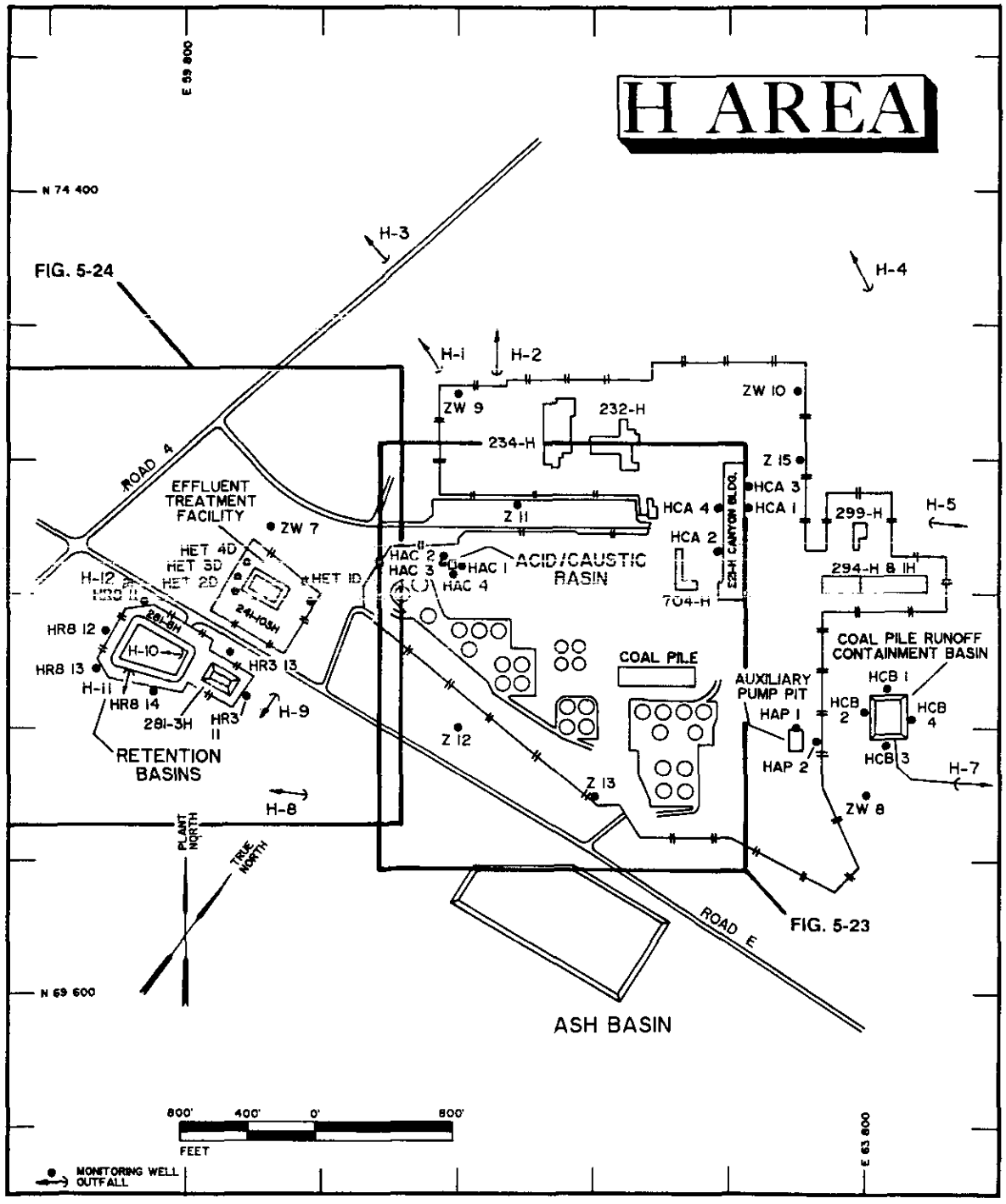


Figure 5-22. Groundwater monitoring at H Area

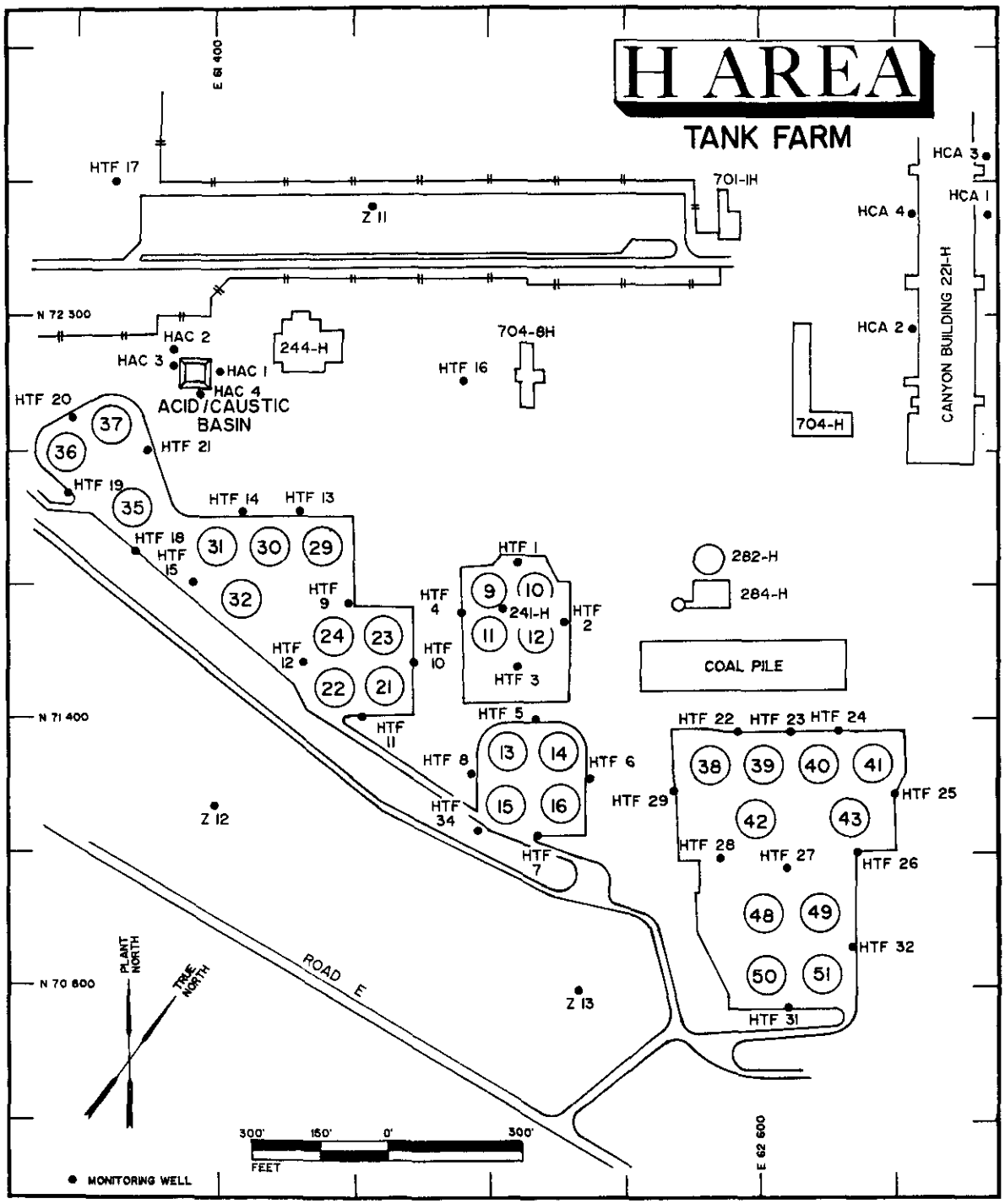


Figure 5-23. Groundwater monitoring at the H-Area Tank Farm

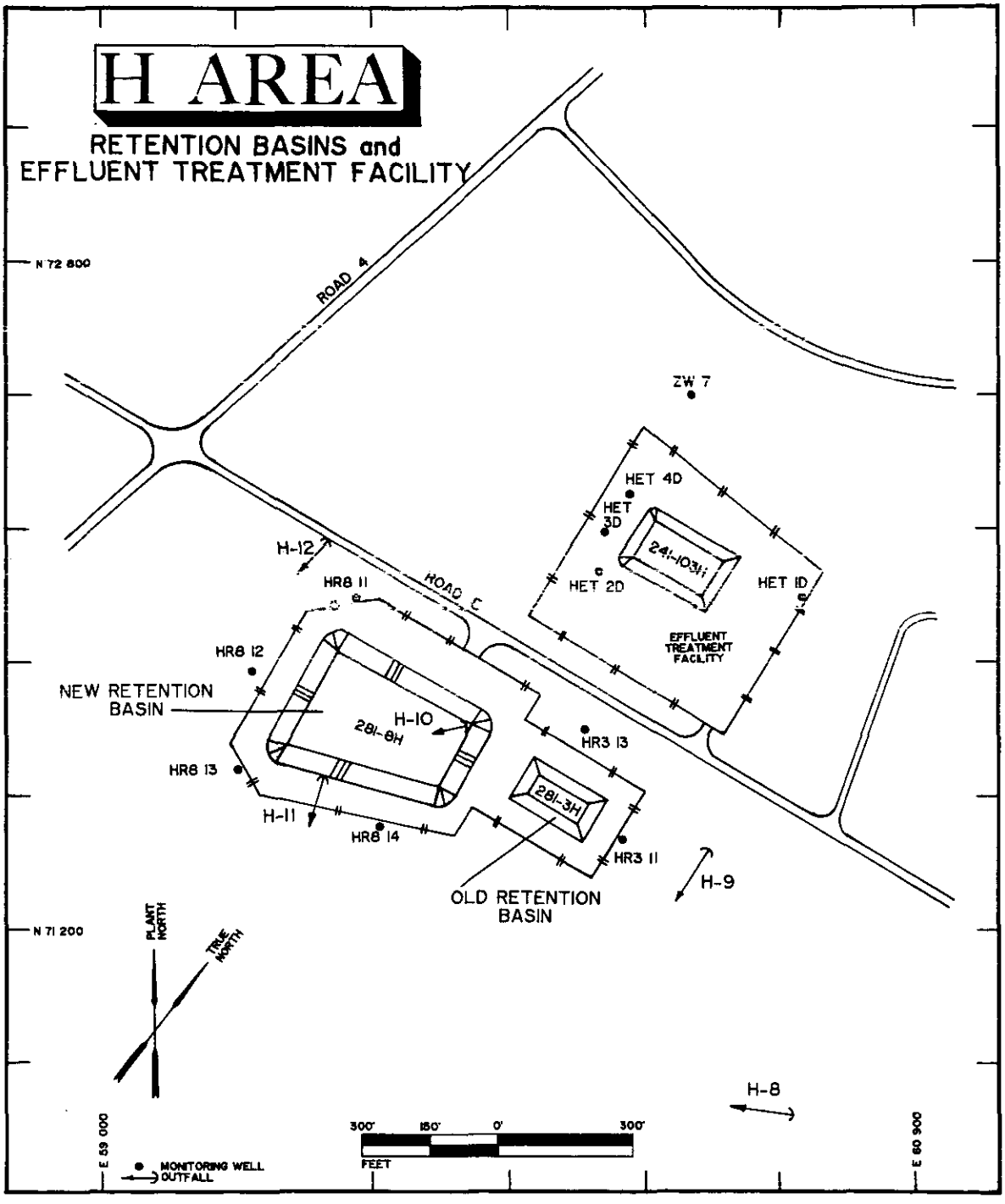


Figure 5-24. Groundwater monitoring at the H Area Retention Basins and Effluent Treatment Retention Basin

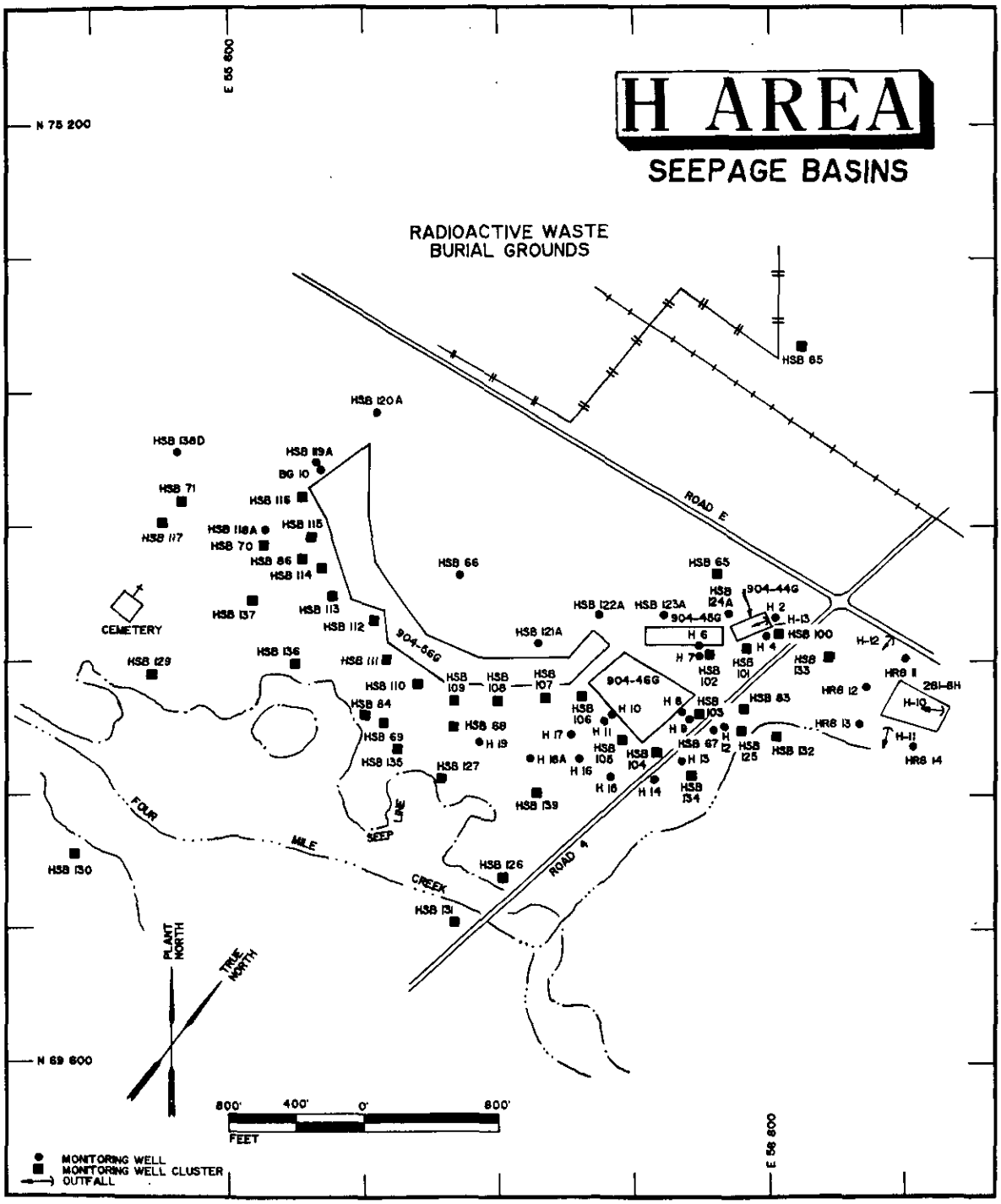


Figure 5-25. Groundwater monitoring at the H-Area Seepage Basins

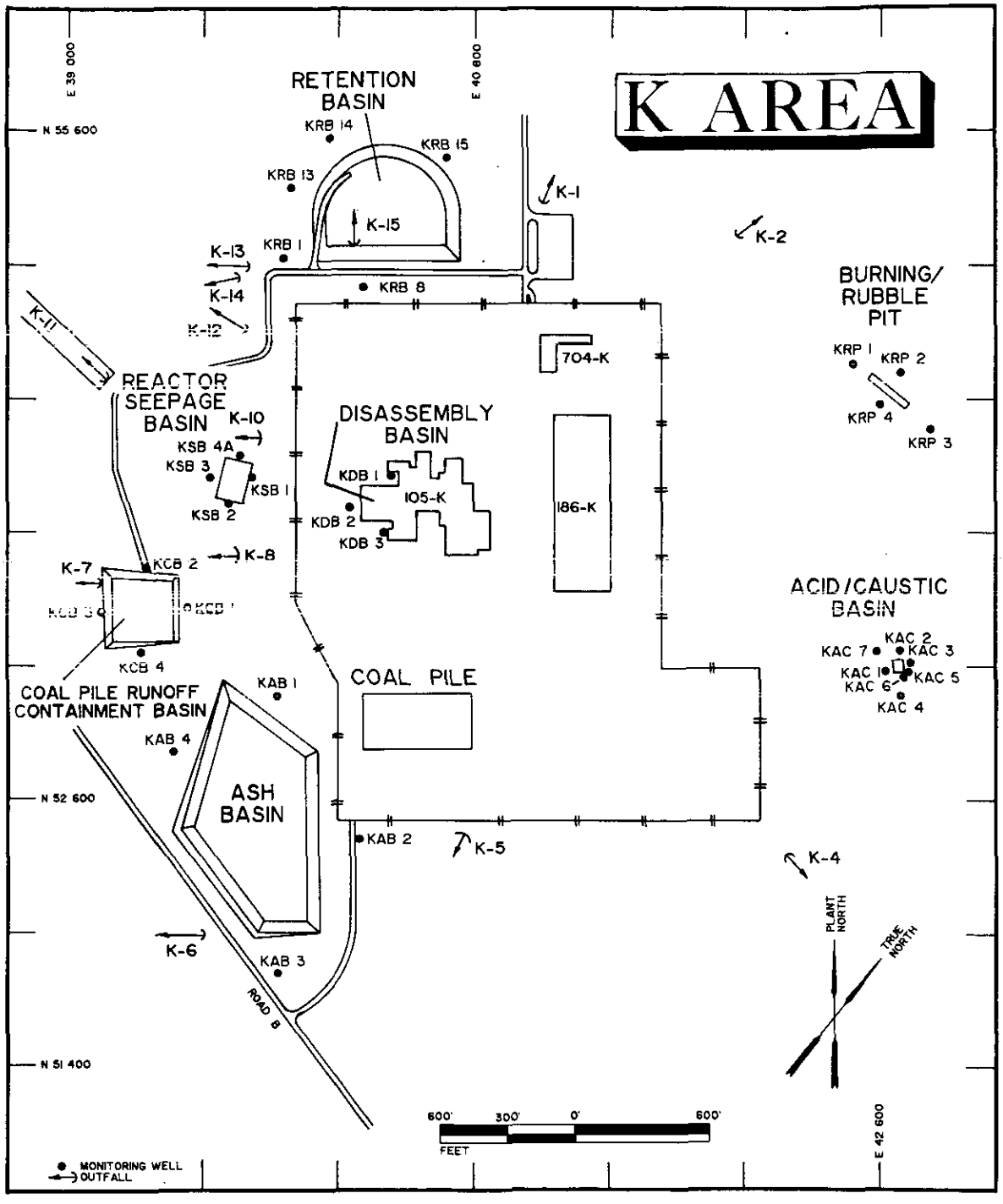


Figure 5-26. Groundwater monitoring at K Area

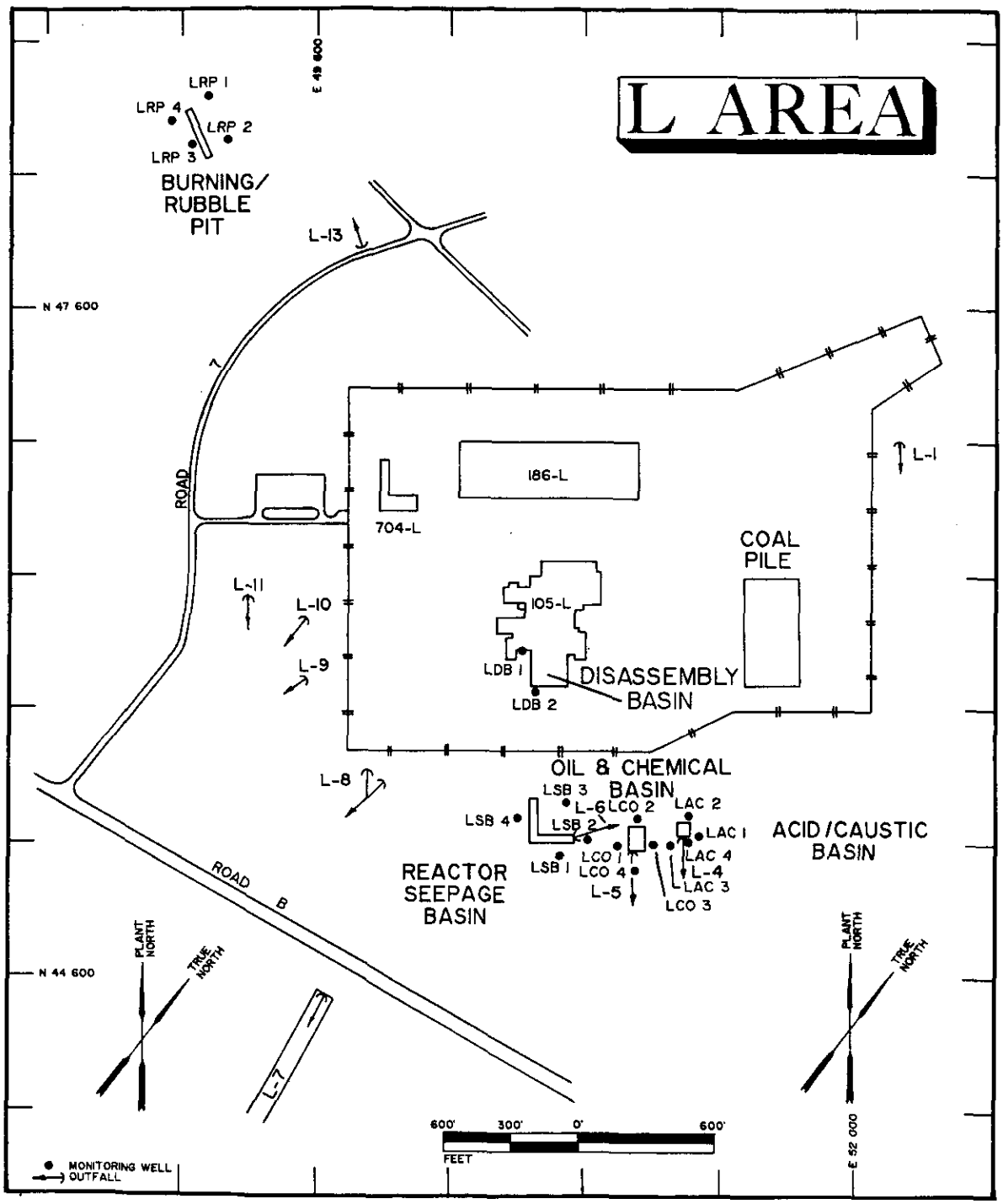


Figure 5-27. Groundwater monitoring at L Area

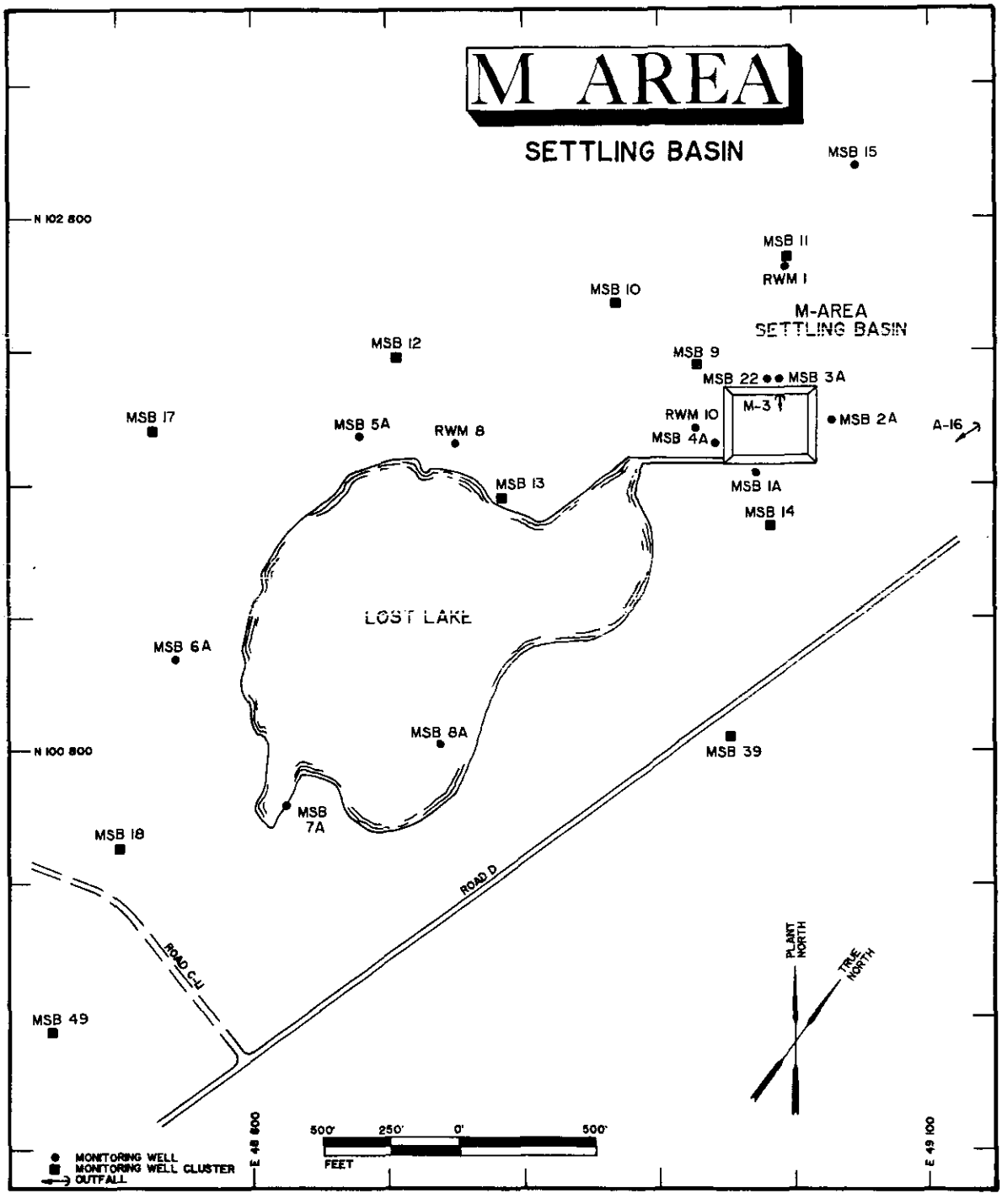


Figure 5-28. Groundwater monitoring at the M-Area Hazardous Waste Management Facility

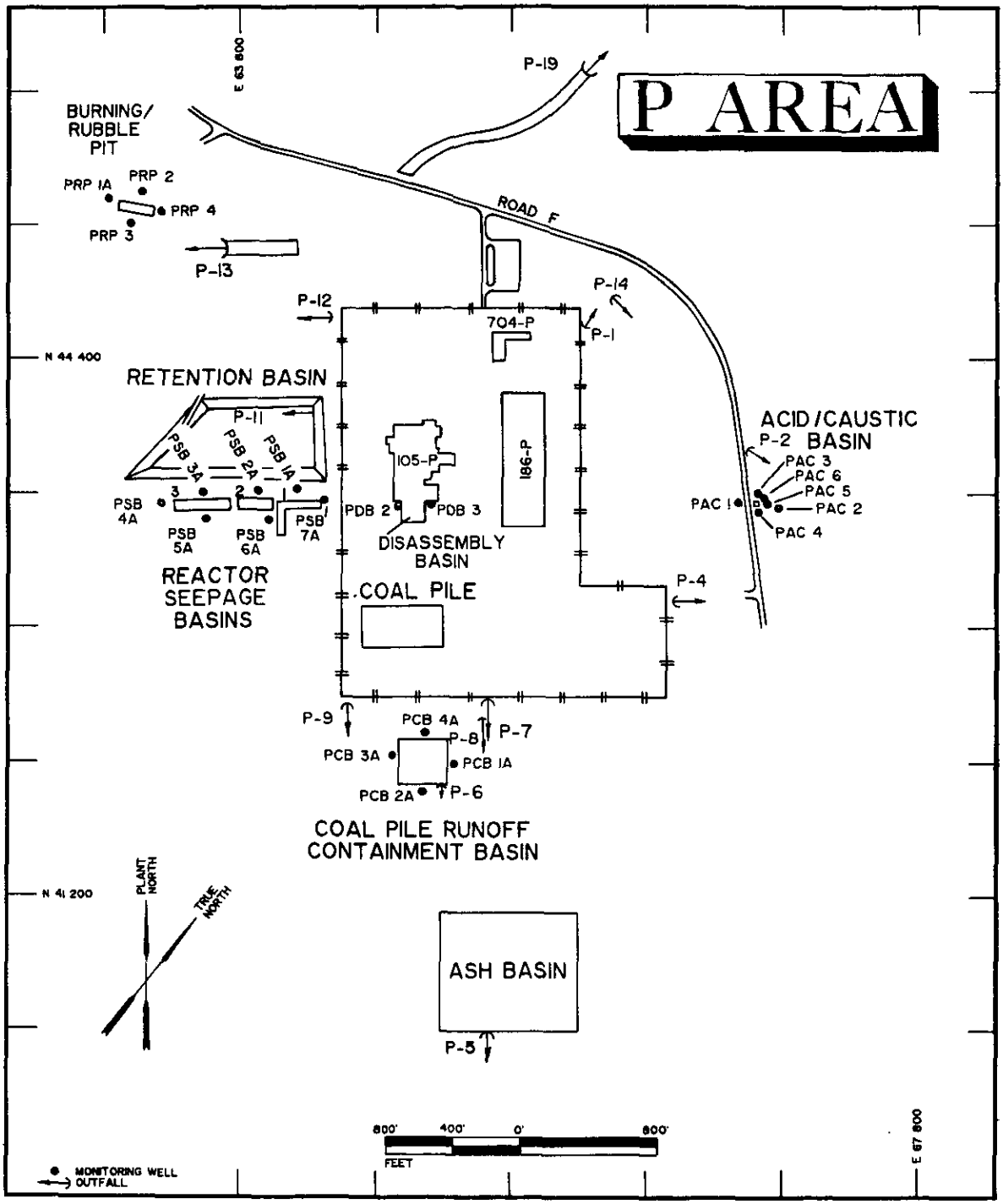


Figure 5-29. Groundwater monitoring at P Area

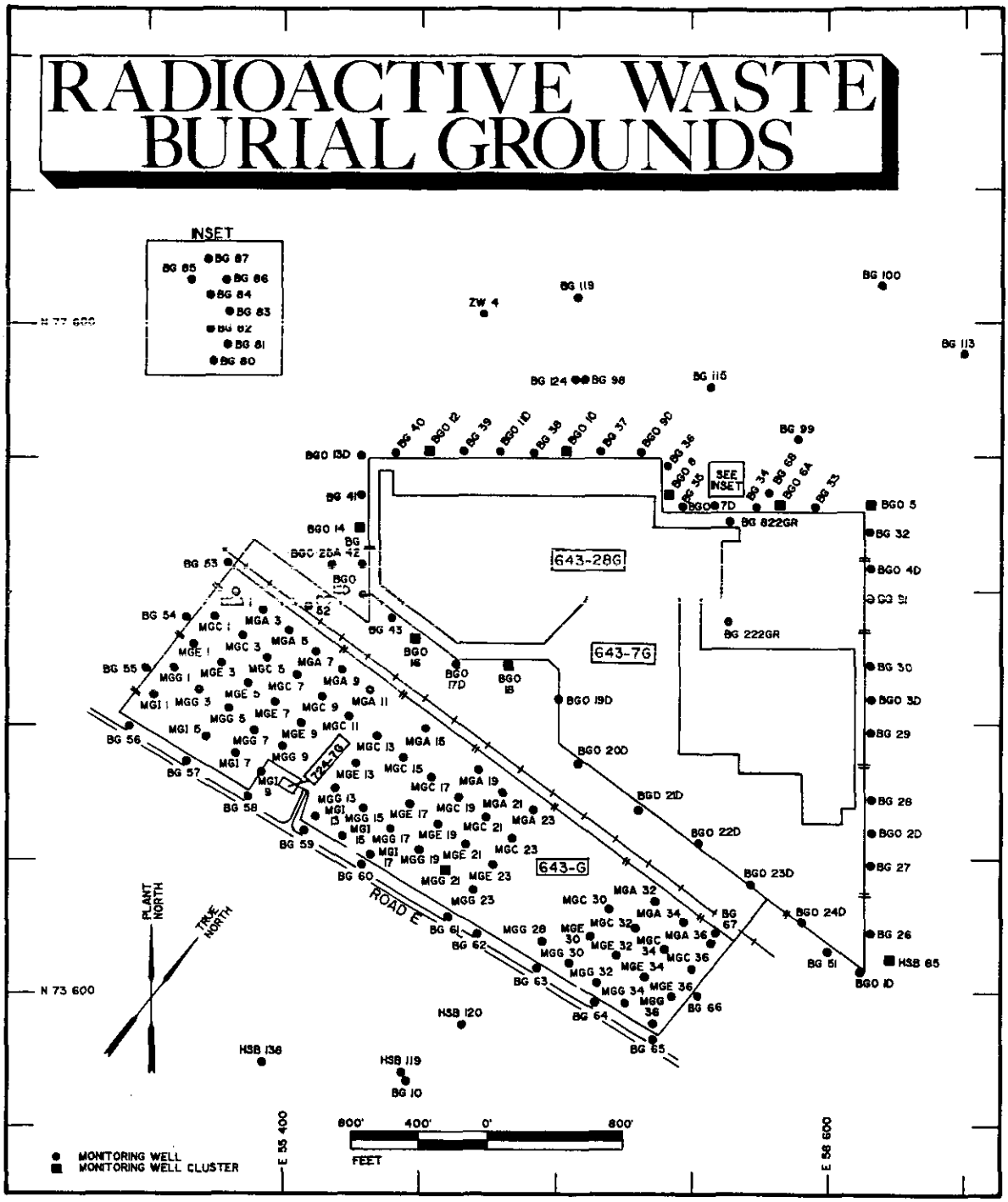


Figure 5-30. Groundwater monitoring at the Radioactive Waste Burial Grounds

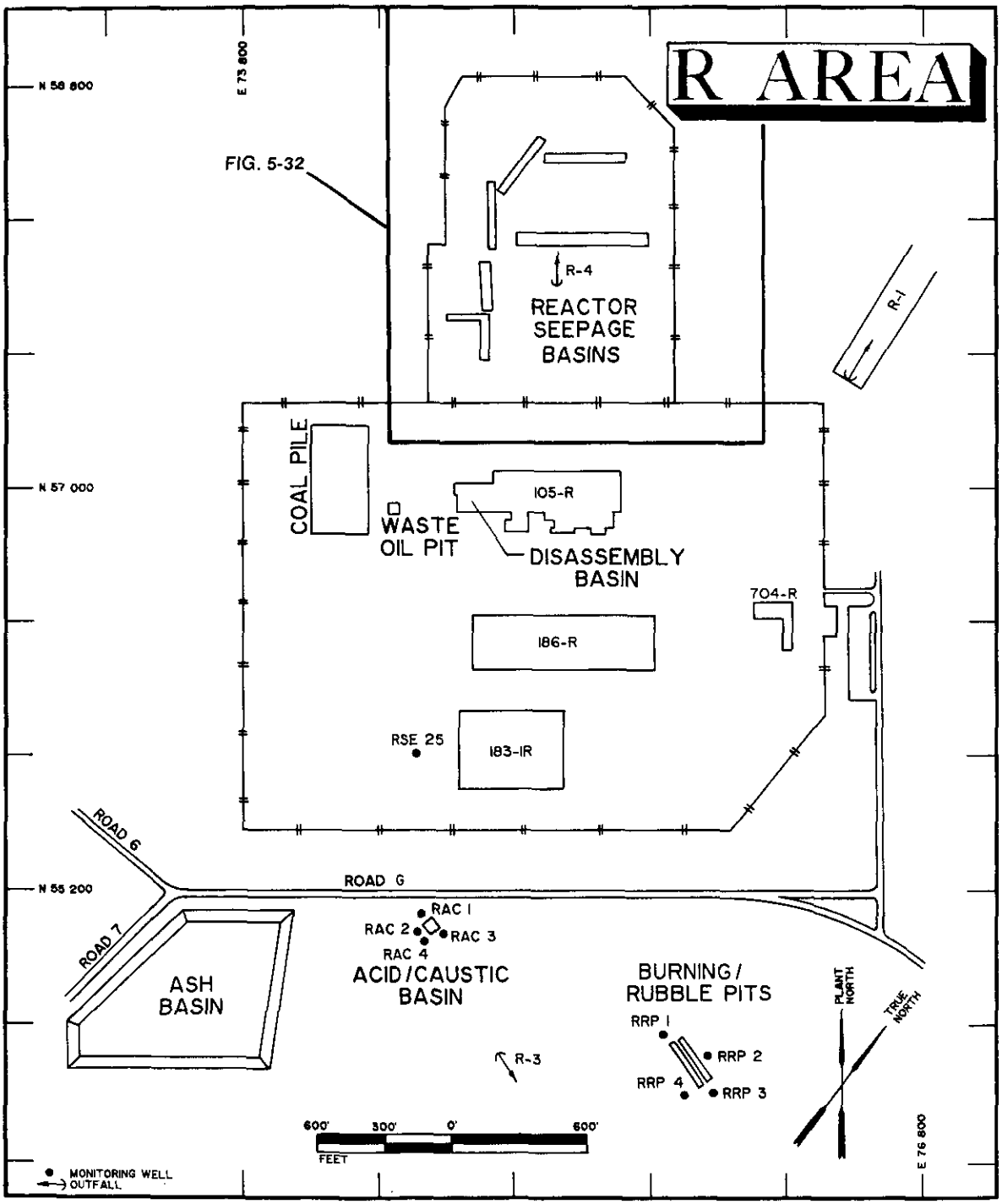


Figure 5-31. Groundwater monitoring at R Area

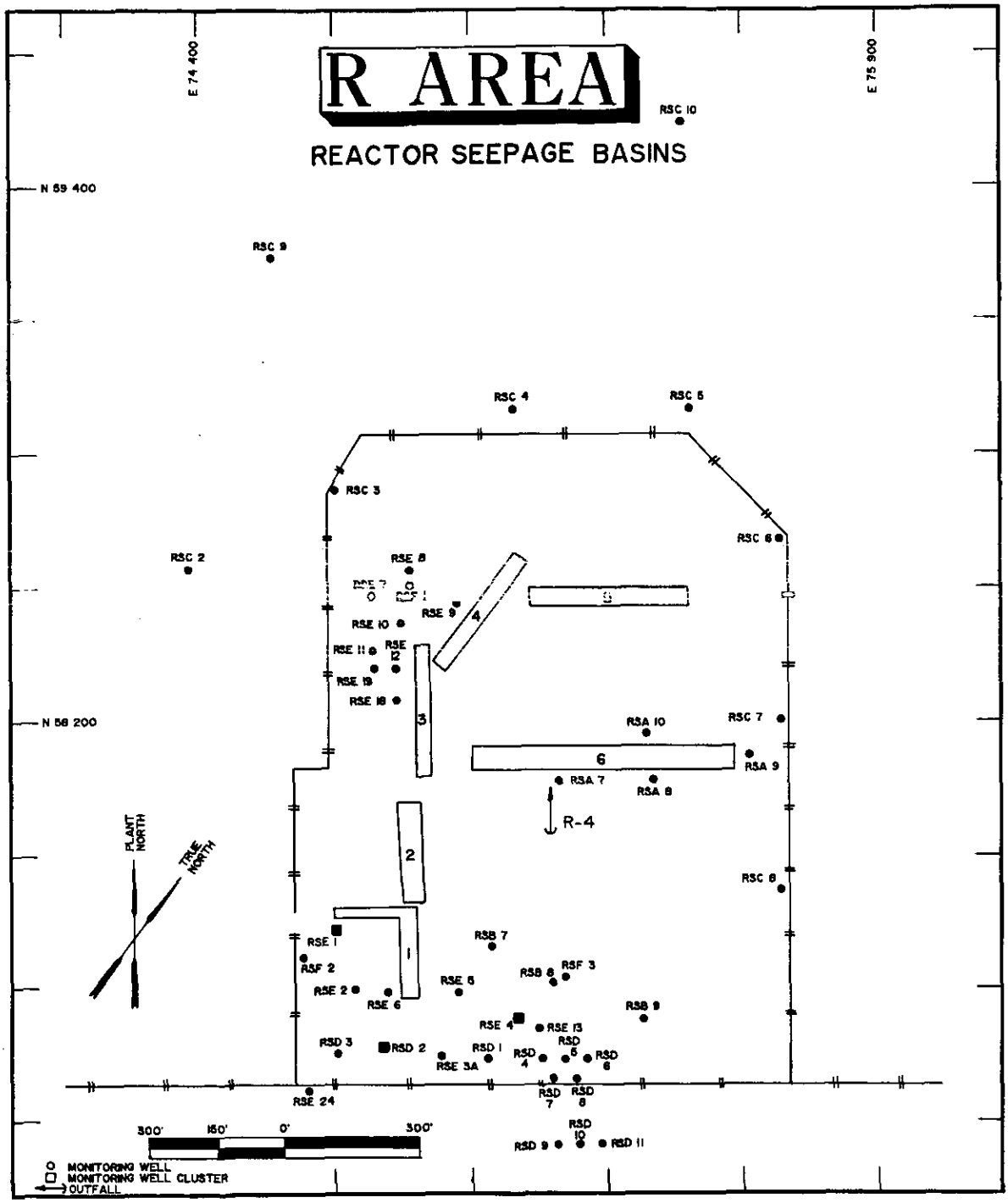


Figure 5-32. Groundwater monitoring at the R-Area Reactor Seepage Basins

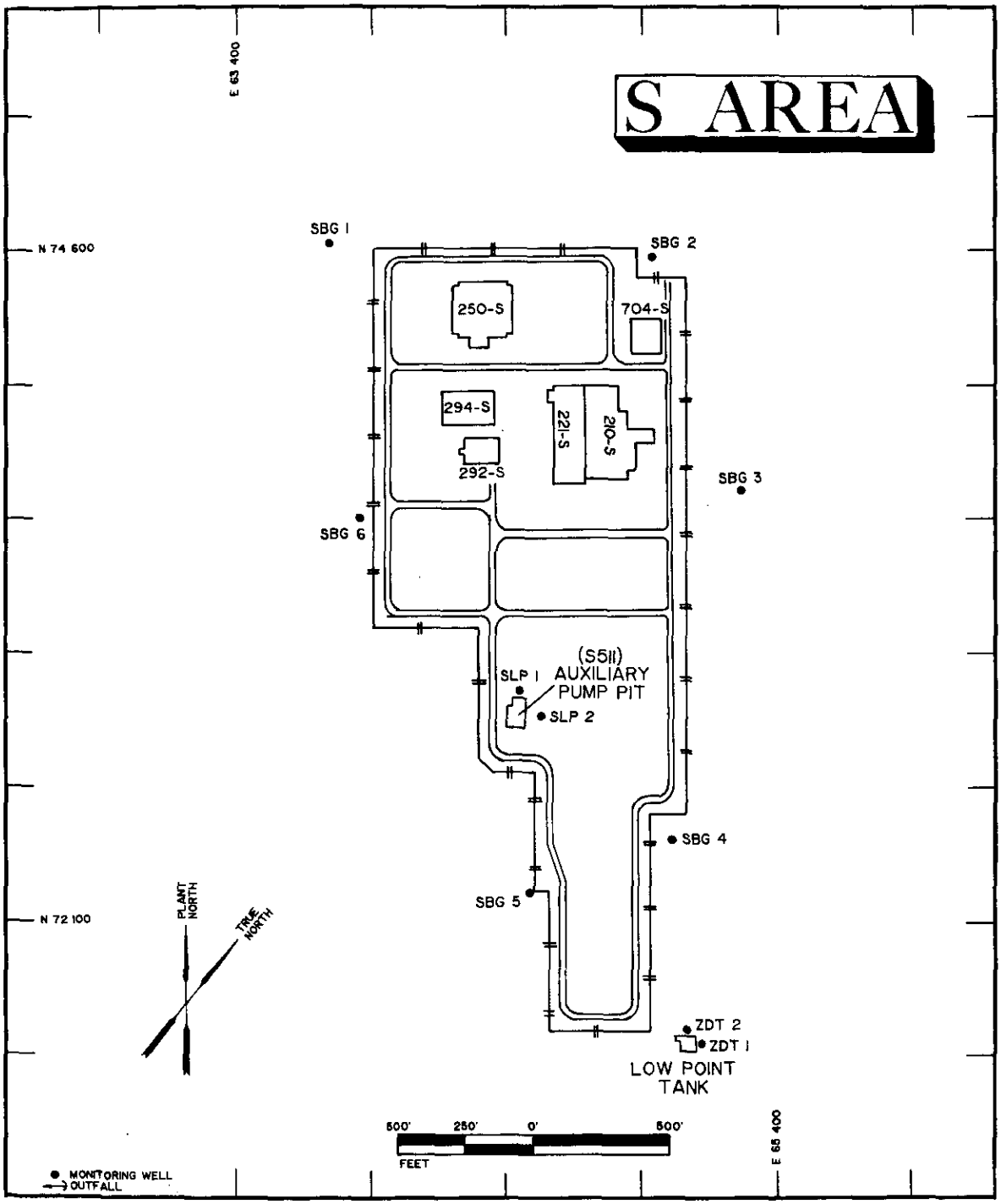


Figure 5-33. Groundwater monitoring at S Area

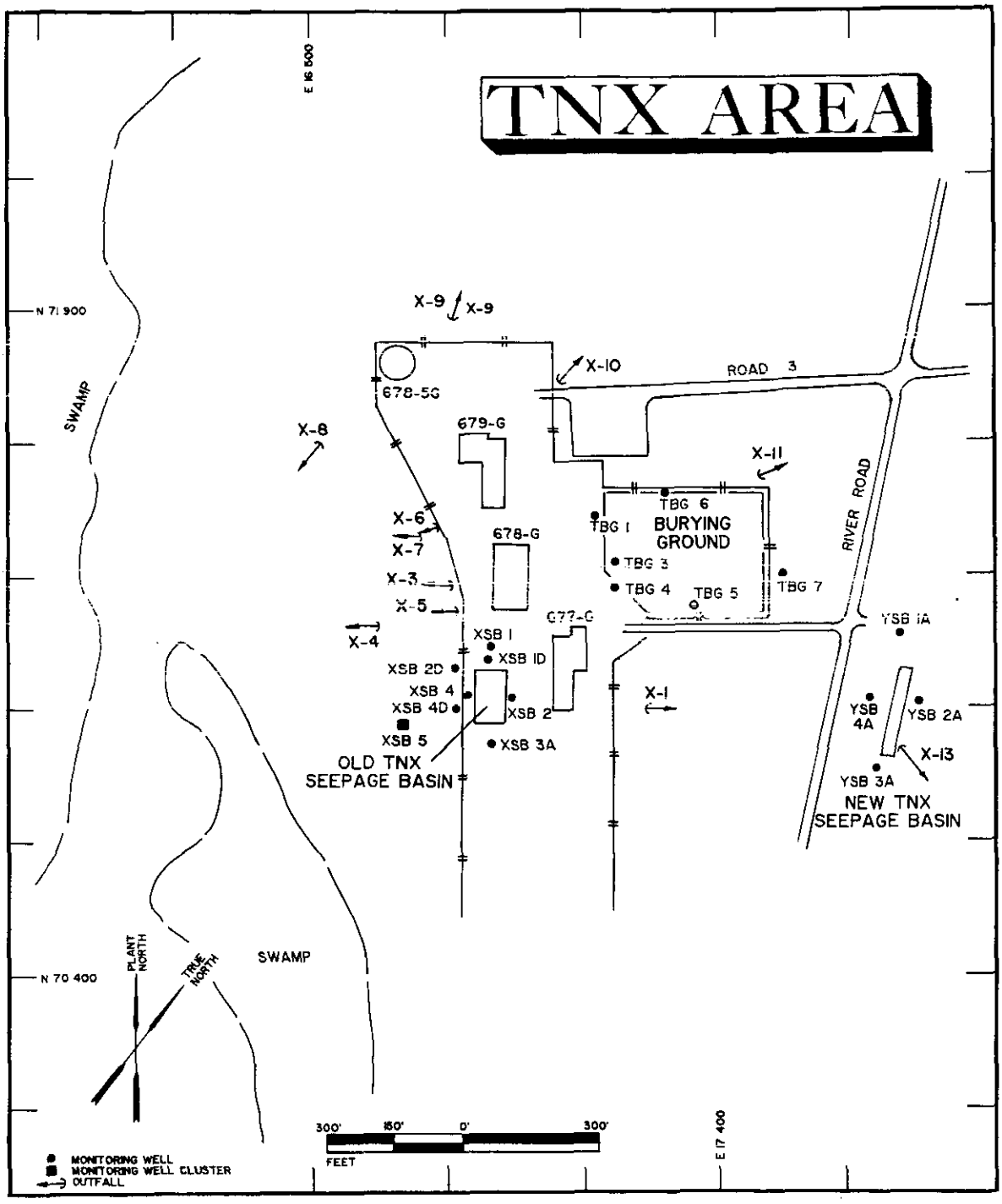


Figure 5-34. Groundwater monitoring at TNX Area

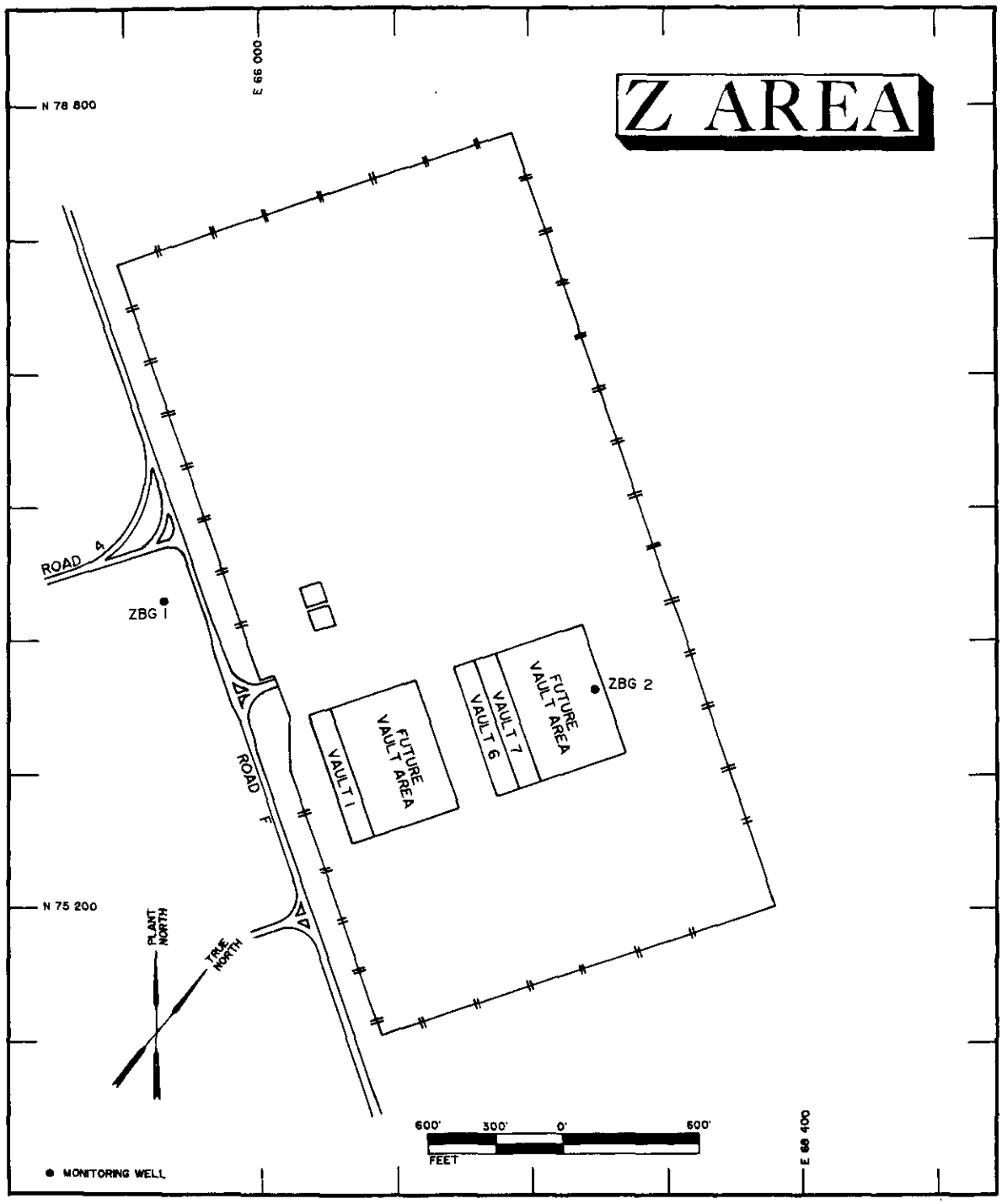


Figure 5-35. Groundwater monitoring at Z Area

TABLE 5-1
MAXIMUM CONSTITUENT LEVELS AT A AREA

Constituent	DWS	Units	ABP	ABW	ACB
Gross Alpha	15	pCi/L	5.4	2	**29.7**
Nonvolatile Beta	-	pCi/L	3.9	1.4	12.8
Total Radium	5	pCi/L	1.6	-	**9.66**
Lead	0.05	mg/L	0.017	-	-
Mercury	0.002	mg/L	-	<0.0002	0.0006
Silver	0.05	mg/L	<0.002	-	-
Carbon Tetrachloride	0.005	mg/L	<0.001	<0.001	<0.001
Chloroform	0.1*	mg/L	<0.001	<0.001	<0.001
Trichloroethylene	0.005	mg/L	**0.0716**	0.0049	<0.001
1,1,1-Trichloroethane	0.2	mg/L	<0.001	<0.001	<0.001
1,1-Dichloroethylene	0.0005	mg/L	<0.002	<0.001	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

ABP = A-Area Metals Burning Pit Wells
ABW = A-Area Background Well near Firing Range
ACB = A-Area Coal Pile Runoff Containment Basin Wells

TABLE 5-1
MAXIMUM CONSTITUENT LEVELS AT A AREA, CONT'D.

Constituent	DWS	Units	ASB	SRW	ARP	AMB
Gross Alpha	15	pCi/L	**24.3**	7.3	2.4	13.9
Nonvolatile Beta	-	pCi/L	20.7	9.3	2.7	15.8
Total Radium	5	pCi/L	4.3	**6.8**	2.58	3.34
Tritium	20	pCi/mL	**24.9**	-	-	<0.7
Radium-226	0.005	pCi/mL	1	**1.52**	-	-
Cobalt-60	0.1	pCi/mL	0	-	-	-
Chromium-51	6	pCi/mL	0	-	-	-
Cesium-134	0.08	pCi/mL	0	-	-	-
Cesium-137	0.2	pCi/mL	0	-	-	-
Iodine-131	0.003	pCi/mL	0	-	-	-
Ruthenium-103	0.2	pCi/mL	0	-	-	-
Ruthenium-106	0.03	pCi/mL	0	-	-	-
Antimony-125	0.3	pCi/mL	0	-	-	-
Zirconium/Niobium-95	0.2	pCi/mL	0	-	-	-
Arsenic	0.05	mg/L	<0.002	0.003	-	<0.002
Barium	1	mg/L	0.035	-	-	0.024
Cadmium	0.01	mg/L	0.003	-	-	<0.002
Chromium	0.05	mg/L	<0.004	-	-	<0.004
Fluoride	4	mg/L	<0.1	-	-	0.23
Lead	0.05	mg/L	0.018	**0.061**	0.017	0.009
Mercury	0.002	mg/L	0.0008	-	-	0.0003
Selenium	0.01	mg/L	<0.002	-	-	<0.002
Silver	0.05	mg/L	<0.002	0.002	-	<0.002
Nitrate (as N)	10	mg/L	2.03	3.68	-	0.36
Carbon Tetrachloride	0.005	mg/L	<0.001	**0.007**	<0.001	<0.001
Chloroform	0.1*	mg/L	0.0274	0.0315	0.0105	<0.001
Trichloroethylene	0.005	mg/L	**2.52**	**0.008**	**0.213**	**0.058**
1,1,1-Trichloroethane	0.2	mg/L	0.0015	0.0116	<0.001	0.0179
1,1-Dichloroethylene	0.005	mg/L	<0.02	<0.0001	**0.0274**	<0.01
2,4-D	0.1	mg/	-	-	-	0.0019
Endrin	0.0002	mg/L	-	-	-	<0.0001
Lindane	0.004	mg/L	-	-	-	<0.00001
Methoxychlor	0.1	mg/L	-	-	-	<0.0005
Silvex	0.01	mg/L	-	-	-	<0.0001
Toxaphene	0.005	mg/L	-	-	-	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

ASB = Savannah River Laboratory Seepage Basins and Plume Definition Wells
SRW = Silverton Road Waste Site Wells
ARP = A-Area Burning/Rubble Pits Wells
AMB = Metallurgical Laboratory Seepage Basin Wells

TABLE 5-1
MAXIMUM CONSTITUENT LEVELS AT A AREA, CONT'D.

Constituent	DWS	Units	AOB	MCB
Gross Alpha	15	pCi/L	-	2.1
Nonvolatile Beta	-	pCi/L	-	3.2
Total Radium	5	pCi/L	1.3	0.9
Tritium	20	pCi/mL	-	2.4
Arsenic	0.05	mg/L	-	<0.002
Barium	1	mg/L	-	0.019
Cadmium	0.01	mg/L	-	<0.002
Chromium	0.05	mg/L	-	0.006
Fluoride	4	mg/L	-	<0.1
Lead	0.05	mg/L	-	<0.006
Mercury	0.002	mg/L	-	<0.0002
Selenium	0.01	mg/L	-	<0.002
Silver	0.05	mg/L	-	<0.002
Nitrate (as N)	10	mg/L	-	0.45
Carbon Tetrachloride	0.005	mg/L	<0.001	**0.007**
Chloroform	0.1*	mg/L	<0.001	0.002
Trichloroethylene	0.005	mg/L	**0.088**	**0.531**
1,1,1-Trichloroethane	0.2	mg/L	0.003	<0.001
Benzene	0.005	mg/l	-	<0.005
Chloroethane	0.002	mg/L		<0.01
1,4-Dichlorobenzene	0.075	mg/L	<0.01	-
1,2-Dichloroethane	0.005	mg/L	-	<0.005
1,1-Dichloroethylene	0.005	mg/L	<0.05	<0.01
Endrin	0.0002	mg/L	**0.0005**	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards..

* Federal primary drinking water standard for trihalomethanes.

AOB = Motor Shop Oil Basin Wells
MCB = Miscellaneous Chemical Basin Wells

TABLE 5-2
GROUNDWATER MONITORING RESULTS FROM THE A-AREA BACKGROUND WELL

Well: ABW 1, A-Area Background Well

SRP Grid	N 105939.9		ft (msl)
Coordinates	E 55016.4	Screen Zone Elevation	215.1 - 185.1
Latitude	33.349830° N	Top of Casing Elevation	324.8
Longitude	81.727766° W	Casing Material	PVC

Parameter	Units	01/30/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.5	225.2	224.9	224.1
pH	pH	4.6	4.9	4.7	4.5
Conductivity	µmhos/cm	24	24	25	24
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	2.0	-	-	-
Nonvolatile Beta	pCi/L	1.4	-	-	-
Mercury	mg/L	<0.0002	-	-	-
Tot. Org. Halogens	mg/L	0.006	-	0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.004	0.003	0.005
Trichloroethylene	mg/L	<0.001	0.004	0.003	0.005
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Other Analyses

ABW 1	07/15/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
ABW 1	10/02/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L

TABLE 5-3
GROUNDWATER MONITORING RESULTS FROM THE A-AREA BURNING/RUBBLE PITS WELLS

Well: ARP 1A, A-Area Burning/Rubble Pits

SRP Grid	N 99102.9		ft (msl)
Coordinates	E 44317.4	Screen Zone Elevation	223.0 - 193.0
Latitude	33.317244° N	Top of Casing Elevation	355.1
Longitude	81.742640° W	Casing Material	PVC

Parameter	Units	01/26/88	04/02/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.5	217.7	215.6	215.1
pH	pH	4.9	5.3	4.9	4.8
Conductivity	µmhos/cm	40	42	42	43
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	2.4	-	-	-
Nonvolatile Beta	pCi/L	2.1	-	-	-
Total Radium	pCi/L	0.7	-	0.6	-
Copper	mg/L	-	-	-	0.027
Lead	mg/L	0.017	-	0.013	-
Manganese	mg/L	-	-	-	0.013
Nickel	mg/L	<0.004	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.016	-	0.011	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.006	-	0.003	-
Tetrachloroethylene	mg/L	0.002	-	0.001	-
Trichloroethylene	mg/L	0.014	-	0.011	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ARP 2, A-Area Burning/Rubble Pits

SRP Grid	N 99119.8		ft (msl)
Coordinates	E 44876.1	Screen Zone Elevation	220.3 - 190.3
Latitude	33.318194° N	Top of Casing Elevation	337.3
Longitude	81.741202° W	Casing Material	PVC

Parameter	Units	01/27/88	04/02/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	219.3	218.3	217.7
pH	pH	5.1	5.4	5.1	5.0
Conductivity	µmhos/cm	16	17	18	17
Alkalinity	mg/L	0	2	1	1
Gross Alpha	pCi/L	1.3	-	-	-
Nonvolatile Beta	pCi/L	1.3	-	-	-
Total Radium	pCi/L	<1.0	-	0.7	-
Copper	mg/L	-	-	-	0.012
Lead	mg/L	<0.006	-	0.010	-
Manganese	mg/L	-	-	-	0.005
Nickel	mg/L	<0.004	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.004	0.001	0.002
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: ARP 3, A-Area Burning/Rubble Pits

SRP Grid	N 98638.2		ft (msl)
Coordinates	E 44903.7	Screen Zone Elevation	218.2 - 188.2
Latitude	33.317174° N	Top of Casing Elevation	339.8
Longitude	81.740192° W	Casing Material	PVC

Parameter	Units	03/12/88	04/02/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.2	221.1	220.1	219.5
pH	pH	4.9	5.3	4.7	4.8
Conductivity	µmhos/cm	22	19	20	19
Alkalinity	mg/L	1	2	1	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	2.7	-	-	-
Total Radium	pCi/L	<1.0	-	2.6	-
Copper	mg/L	-	-	-	0.011
Lead	mg/L	0.009	-	0.013	-
Manganese	mg/L	-	-	-	0.006
Nickel	mg/L	<0.004	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.107	-	0.044	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.010	-	<0.001	-
Tetrachloroethylene	mg/L	0.012	-	0.016	-
Trichloroethylene	mg/L	0.012	-	0.213	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ARP 4, A-Area Burning/Rubble Pits

SRP Grid	N 98567.7		ft (msl)
Coordinates	E 44374.8	Screen Zone Elevation	227.8 - 197.8
Latitude	33.316155° N	Top of Casing Elevation	348.4
Longitude	81.741447° W	Casing Material	PVC

Parameter	Units	01/26/88	04/02/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.4	218.5	217.6	217
pH	pH	5.2	5.5	4.9	4.8
Conductivity	µmhos/cm	19	46	23	22
Alkalinity	mg/L	0	2	1	0
Gross Alpha	pCi/L	1.6	-	-	-
Nonvolatile Beta	pCi/L	1.4	-	-	-
Total Radium	pCi/L	0.4	-	0.7	-
Copper	mg/L	-	-	-	0.020
Lead	mg/L	0.011	-	0.011	-
Manganese	mg/L	-	-	-	0.014
Nickel	mg/L	<0.004	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Other Analyses

ARP 1A	07/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
ARP 2	07/06/88	
[illegible]		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
ARP 2	10/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
ARP 3	07/06/88	
1,1-Dichloroethylene		0.0274 mg/L
trans-1,2-Dichloroethene		<0.05 mg/L
ARP 4	07/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
ARP 4	10/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-4
GROUNDWATER MONITORING RESULTS FROM THE A-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: ACB 1A, A-Area Coal Pile Runoff Containment Basin

SRP Grid	N	102622.9		ft (msl)
Coordinates	E	51369.9	Screen Zone Elevation	247.6 - 217.6
Latitude		33.336543° N	Top of Casing Elevation	359.6
Longitude		81.730917° W	Casing Material	PVC

Parameter	Units	01/26/88	05/03/88	08/10/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.7	239.3	238.9	238.2
pH	pH	5.8	5.8	5.8	5.7
Conductivity	µmhos/cm	58	78	83	95
Alkalinity	mg/L	13	17	19	20
Gross Alpha	pCi/L	2.8	-	<3.0	-
Nonvolatile Beta	pCi/L	2.3	-	-	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Copper	mg/L	<0.004	<0.004	-	-
Iron	mg/L	-	0.066	-	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Sodium	mg/L	14.5	-	-	-
Zinc	mg/L	-	0.017	-	-
Sulfate	mg/L	12.0	13.9	-	-
Tot. Org. Halogens	mg/L	0.006	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ACB 2A, A-Area Coal Pile Runoff Containment Basin

SRP Grid	N	102367.4		ft (msl)
Coordinates	E	51561.3	Screen Zone Elevation	237.8 - 207.8
Latitude		33.336291° N	Top of Casing Elevation	349.8
Longitude		81.729916° W	Casing Material	PVC

Parameter	Units	01/26/88	05/07/88	08/10/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.2	239.7	239.5	239
pH	pH	5.6	5.2	5.3	5.2
Conductivity	µmhos/cm	33	43	42	51
Alkalinity	mg/L	5	6	8	5
Gross Alpha	pCi/L	0.8	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Copper	mg/L	0.018	0.022	-	-
Iron	mg/L	-	0.070	-	-
Mercury	mg/L	<0.0002	-	0.0002	-
Sodium	mg/L	10.3	-	-	-
Zinc	mg/L	-	0.120	-	-
Sulfate	mg/L	<5.0	6.2	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ACB 3A, A-Area Coal Pile Runoff Containment Basin

SRP Grid	N	102154.3		ft (msl)
Coordinates	E	51313.3	*Screen Zone Elevation*	*236.3 - 206.3*
Latitude		33.335414° N	Top of Casing Elevation	348.3
Longitude		81.730155° W	Casing Material	PVC

Parameter	Units	01/26/88	05/07/88	08/10/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.5	240.1	239.5	238.9
pH	pH	5.5	5.2	5.1	5.2
Conductivity	µmhos/cm	77	76	129	188
Alkalinity	mg/L	3	2	3	3
Gross Alpha	pCi/L	17.5	-	16.0	-
Nonvolatile Beta	pCi/L	12.8	-	-	-
Total Radium	pCi/L	*6.1*	-	*5.0*	-
Copper	mg/L	<0.004	<0.004	-	-
Iron	mg/L	-	0.069	-	-
Mercury	mg/L	0.0002	-	<0.0002	-
Sodium	mg/L	4.36	-	-	-
Zinc	mg/L	-	0.058	-	-
Sulfate	mg/L	20.0	22.4	-	-
Tot. Org. Halogens	*mg/L*	*0.010*	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ACB 4A, A-Area Coal Pile Runoff Containment Basin

SRP Grid	N	102343.9		ft (msl)
Coordinates	E	51116.2	Screen Zone Elevation	241.7 - 211.7
Latitude		33.335512° N	Top of Casing Elevation	359.1
Longitude		81.731043° W	Casing Material	PVC

Parameter	Units	01/26/88	05/07/88	08/10/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	241.2	240.6	240.3	239.6
pH	pH	4.8	5.1	5.1	5.1
Conductivity	µmhos/cm	25	50	137	231
Alkalinity	mg/L	0	2	3	3
Gross Alpha	pCi/L	19.0	-	29.7	-
Nonvolatile Beta	pCi/L	12.8	-	-	-
Total Radium	pCi/L	7.5	-	9.7	-
Copper	mg/L	0.009	0.008	-	-
Iron	mg/L	-	0.030	-	-
Mercury	mg/L	0.0006	-	0.0004	-
Sodium	mg/L	2.59	-	-	-
Zinc	mg/L	-	0.037	-	-
Sulfate	mg/L	<5.0	7.4	-	-
Tot. Org. Halogens	mg/L	0.019	-	0.007	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-5
GROUNDWATER MONITORING RESULTS FROM THE A-AREA METALS BURNING PIT WELLS

Well: ABP 1A, A-Area Metals Burning Pit

SRP Grid Coordinates	N 97501.6 E 44425.6	Screen Zone Elevation	ft (msl) 202.9 - 172.9
Latitude	33.313881° N	Top of Casing Elevation	359.9
Longitude	81.739240° W	Casing Material	PVC

Parameter	Units	01/27/88	04/02/88	08/10/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.3	222.5	221.8	221
pH	pH	5.2	5.4	4.9	4.8
Conductivity	µmhos/cm	16	14	15	24
Alkalinity	mg/L	0	1	1	1
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	2.0	-	-	-
Total Radium	pCi/L	0.7	-	-	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	0.028	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	0.001	0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: ABP 2A, A-Area Metals Burning Pit

SRP Grid Coordinates	N 97764.3 E 44118.8	Screen Zone Elevation	ft (msl) 211.1 - 181.1
Latitude	33.313961° N	Top of Casing Elevation	371.9
Longitude	81.740559° W	Casing Material	PVC

Parameter	Units	01/26/88	04/02/88	07/06/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.2	221.7	220.5	220
pH	pH	5.4	5.4	5.7	5.5
Conductivity	µmhos/cm	14	15	14	13
Alkalinity	mg/L	1	1	0	0
Gross Alpha	pCi/L	1.2	-	-	-
Nonvolatile Beta	pCi/L	2.0	-	-	-
Total Radium	pCi/L	0.8	-	-	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.007	-	0.008	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.013	-	0.040	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.003	-	0.001	-
Trichloroethylene	mg/L	0.023	-	0.021	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: ABP 3, A-Area Metals Burning Pit

SRP Grid Coordinates	N 97794.1 E 44509.3	Screen Zone Elevation	ft (msl) 236.9 - 206.9
Latitude	33.314664° N	Top of Casing Elevation	353.7
Longitude	81.739589° W	Casing Material	PVC

Parameter	Units	01/26/88	04/02/88	07/06/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.9	223.3	222.4	221.8
pH	pH	5.3	5.4	5.0	4.7
Conductivity	µmhos/cm	15	15	15	15
Alkalinity	mg/L	0	2	1	1
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	1.2	-	-	-
Total Radium	pCi/L	0.5	-	-	-
Lead	mg/L	0.013	-	0.017	-
Manganese	mg/L	0.013	-	0.013	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.049	-	0.053	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.001	-	< 0.001	-
Trichloroethylene	mg/L	0.072	-	0.069	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: ABP 4, A-Area Metals Burning Pit

SRP Grid Coordinates	N 97489.7 E 44096.0	Screen Zone Elevation	ft (msl) 212.5 - 182.5
Latitude	33.313316° N	Top of Casing Elevation	364.3
Longitude	81.740085° W	Casing Material	PVC

Parameter	Units	01/26/88	04/02/88	07/06/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.5	220.7	219.7	219.6
pH	pH	5.1	5.2	4.8	4.8
Conductivity	µmhos/cm	20	20	21	21
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	5.4	-	-	-
Nonvolatile Beta	pCi/L	3.9	-	-	-
Total Radium	pCi/L	1.6	-	-	-
Lead	mg/L	< 0.006	-	0.017	-
Manganese	mg/L	0.006	-	0.006	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.083	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	0.002	0.001	< 0.001	0.002
Trichloroethylene	mg/L	0.004	0.004	0.003	0.005
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Other Analyses

ABP 1A	01/27/88	
Lithium		< 0.005 mg/L
ABP 1A	08/10/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.002 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.002 mg/L
ABP 1A	10/01/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
ABP 1A	10/26/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
ABP 2A	01/26/88	
Lithium		< 0.005 mg/L
ABP 3	01/26/88	
Lithium		< 0.005 mg/L
ABP 3	07/06/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
ABP 4	01/26/88	
Lithium		< 0.005 mg/L
Lithium		< 0.005 mg/L
ABP 4	07/06/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
ABP 4	10/26/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L

TABLE 5-6
GROUNDWATER MONITORING RESULTS FROM THE METALLURGICAL LABORATORY SEEPAGE BASIN WELLS

Well: AMB 1A, Metallurgical Laboratory Seepage Basin

SRP Grid	N 104022.5			ft (msl)
Coordinates	E 51436.3	Screen Zone Elevation		246.9 - 216.9
Latitude	33.339745° N	Top of Casing Elevation		378.7
Longitude	81.733465° W	Casing Material		PVC

Parameter	Units	01/28/88	05/03/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	236.4	236.1
pH	pH	5.3	5.5
Conductivity	µmhos/cm	44	39
Alkalinity	mg/L	7	7
TDS	mg/L	-	-
Gross Alpha	pCi/L	1.6	-
Nonvolatile Beta	pCi/L	1.5	-
Total Radium	pCi/L	< 1.0	-
Tritium	pCi/mL	-	-
Arsenic	mg/L	-	-
Barium	mg/L	-	-
Cadmium	mg/L	-	-
Calcium	mg/L	-	-
Chloride	mg/L	-	-
Chromium	mg/L	-	-
Fluoride	mg/L	-	-
Iron	mg/L	-	-
Lead	mg/L	< 0.006	-
Magnesium	mg/L	-	-
Manganese	mg/L	-	-
Mercury	mg/L	-	-
Potassium	mg/L	-	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	-	-
Sodium	mg/L	6.94	-
Total Phosphates	mg/L	-	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Phenols	mg/L	-	-
Tot. Org. Carbon	mg/L	< 1.000	-
Tot. Org. Halogens	mg/L	0.012	-
Carbon Tetrachloride	mg/L	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001

Well: AMB 3A, Metallurgical Laboratory Seepage Basin

SRP Grid	N 104011.5			ft (msl)
Coordinates	E 51625.1	Screen Zone Elevation		251.4 - 221.4
Latitude	33.340029° N	Top of Casing Elevation		373.3
Longitude	81.732947° W	Casing Material		PVC

Parameter	Units	01/28/88	05/03/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	236.7	236.4
pH	pH	5.9	5.5
Conductivity	µmhos/cm	41	41
Alkalinity	mg/L	7	7
TDS	mg/L	-	-
Gross Alpha	pCi/L	1.0	-
Nonvolatile Beta	pCi/L	< 2.0	-
Total Radium	pCi/L	< 1.0	-
Tritium	pCi/mL	-	-
Arsenic	mg/L	-	-
Barium	mg/L	-	-
Cadmium	mg/L	-	-
Calcium	mg/L	-	-
Chloride	mg/L	-	-
Chromium	mg/L	-	-
Fluoride	mg/L	-	-
Iron	mg/L	-	-
Lead	mg/L	< 0.006	-
Magnesium	mg/L	-	-
Manganese	mg/L	-	-
Mercury	mg/L	-	-
Potassium	mg/L	-	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	-	-
Sodium	mg/L	7.61	-
Total Phosphates	mg/L	-	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Phenols	mg/L	-	-
Tot. Org. Carbon	mg/L	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001
Trichloroethylene	mg/L	0.002	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001

Well: AMB 2, Metallurgical Laboratory Seepage Basin

SRP Grid	N 104164.6			ft (msl)
Coordinates	E 51517.9	Screen Zone Elevation		252.0 - 222.0
Latitude	33.340193° N	Top of Casing Elevation		379.3
Longitude	81.733527° W	Casing Material		PVC

Parameter	Units	01/28/88	05/03/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	237	236.2
pH	pH	4.5	5.2
Conductivity	µmhos/cm	34	37
Alkalinity	mg/L	3	3
TDS	mg/L	-	-
Gross Alpha	pCi/L	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-
Total Radium	pCi/L	< 1.0	-
Tritium	pCi/mL	-	-
Arsenic	mg/L	-	-
Barium	mg/L	-	-
Cadmium	mg/L	-	-
Calcium	mg/L	-	-
Chloride	mg/L	-	-
Chromium	mg/L	-	-
Fluoride	mg/L	-	-
Iron	mg/L	-	-
Lead	mg/L	0.008	-
Magnesium	mg/L	-	-
Manganese	mg/L	-	-
Mercury	mg/L	-	-
Potassium	mg/L	-	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	-	-
Sodium	mg/L	6.79	-
Total Phosphates	mg/L	-	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Phenols	mg/L	-	-
Tot. Org. Carbon	mg/L	< 1.000	-
Tot. Org. Halogens	mg/L	0.017	-
Carbon Tetrachloride	mg/L	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001
Trichloroethylene	mg/L	0.032	0.0124
1,1,1-TCE	mg/L	< 0.001	< 0.001

Well: AMB 4, Metallurgical Laboratory Seepage Basin

SRP Grid	N 104125.5			ft (msl)
Coordinates	E 51480.4	Screen Zone Elevation		242.8 - 222.8
Latitude	33.340045° N	Top of Casing Elevation		380.4
Longitude	81.733549° W	Casing Material		PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	234.9
pH	pH	6.7
Conductivity	µmhos/cm	142
Alkalinity	mg/L	63
TDS	mg/L	100
Gross Alpha	pCi/L	3.2
Nonvolatile Beta	pCi/L	3.1
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.024
Cadmium	mg/L	< 0.002
Calcium	mg/L	6.51
Chloride	mg/L	3.0
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.187
Lead	mg/L	0.009
Magnesium	mg/L	0.742
Manganese	mg/L	0.029
Mercury	mg/L	< 0.0002
Potassium	mg/L	1.80
Selenium	mg/L	< 0.002
Silica	mg/L	9.58
Silver	mg/L	< 0.0020
Sodium	mg/L	35.9
Total Phosphates	mg/L	0.020
Nitrate (as N)	mg/L	0.34
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.10
Tot. Org. Halogens	mg/L	0.057
Carbon Tetrachloride	mg/L	< 0.001
Chloroform	mg/L	< 0.001
Tetrachloroethylene	mg/L	< 0.001
Trichloroethylene	mg/L	0.058
1,1,1-TCE	mg/L	< 0.001

TABLE 5-6
GROUNDWATER MONITORING RESULTS FROM THE METALLURGICAL LABORATORY SEEPAGE BASIN WELLS, CONT'D.

Well: AMB 5, Metallurgical Laboratory Seepage Basin

SRP Grid Coordinates	N 104083.4 E 51467.2	Screen Zone Elevation	ft (msl) 242.1 - 222.1
Latitude	33.339930° N	Top of Casing Elevation	379.6
Longitude	81.733502° W	Casing Material	PVC

Parameter	Units	12/03/88
Sampling Method	NA	Pump
Water Elevation	ft	234.8
pH	pH	5.8
Conductivity	µmhos/cm	64
Alkalinity	mg/L	19
TDS	mg/L	99
Gross Alpha	pCi/L	2.3
Nonvolatile Beta	pCi/L	2.5
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	< 0.004
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.661
Chloride	mg/L	3.5
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.076
Manganese	mg/L	0.006
Mercury	mg/L	< 0.0002
Potassium	mg/L	0.549
Selenium	mg/L	< 0.002
Silica	mg/L	6.99
Silver	mg/L	< 0.0020
Sodium	mg/L	12.1
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.36
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.017
Carbon Tetrachloride	mg/L	< 0.001
Chloroform	mg/L	< 0.001
Tetrachloroethylene	mg/L	0.001
Trichloroethylene	mg/L	0.039
1,1,1-TCE	mg/L	0.001

Well: AMB 6, Metallurgical Laboratory Seepage Basin

SRP Grid Coordinates	N 104034.1 E 51466.0	Screen Zone Elevation	ft (msl) 242.6 - 222.6
Latitude	33.339819° N	Top of Casing Elevation	377.2
Longitude	81.733410° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	234.9
pH	pH	8.5
Conductivity	µmhos/cm	310
Alkalinity	mg/L	105
TDS	mg/L	1720
Gross Alpha	pCi/L	13.9
Nonvolatile Beta	pCi/L	15.8
Total Radium	pCi/L	3.3
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.006
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.25
Chloride	mg/L	6.5
Chromium	mg/L	< 0.004
Fluoride	mg/L	0.23
Iron	mg/L	0.957
Lead	mg/L	< 0.006
Magnesium	mg/L	0.169
Manganese	mg/L	0.005
Mercury	mg/L	< 0.0002
Potassium	mg/L	1.23
Selenium	mg/L	< 0.002
Silica	mg/L	13.7
Silver	mg/L	< 0.0020
Sodium	mg/L	26.4
Total Phosphates	mg/L	0.310
Nitrate (as N)	mg/L	0.12
Sulfate	mg/L	28.0
Phenols	mg/L	0.092
Tot. Org. Carbon	mg/L	3.00
Tot. Org. Halogens	mg/L	0.008
Carbon Tetrachloride	mg/L	< 0.001
Chloroform	mg/L	< 0.001
Tetrachloroethylene	mg/L	< 0.001
Trichloroethylene	mg/L	0.0068
1,1,1-TCE	mg/L	< 0.001

Well: AMB 7, Metallurgical Laboratory Seepage Basin

SRP Grid Coordinates	N 103920.0 E 51624.9	Screen Zone Elevation	ft (msl) 242.1 - 222.1
Latitude	33.339827° N	Top of Casing Elevation	369.9
Longitude	81.732769° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	235.2
pH	pH	7.4
Conductivity	µmhos/cm	232
Alkalinity	mg/L	119
TDS	mg/L	162
Gross Alpha	pCi/L	4.8
Nonvolatile Beta	pCi/L	7.4
Total Radium	pCi/L	0.6
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.012
Cadmium	mg/L	< 0.002
Calcium	mg/L	5.11
Chloride	mg/L	3.2
Chromium	mg/L	< 0.004
Fluoride	mg/L	0.12
Iron	mg/L	0.084
Lead	mg/L	< 0.006
Magnesium	mg/L	0.644
Manganese	mg/L	0.034
Mercury	mg/L	0.0003
Potassium	mg/L	8.98
Selenium	mg/L	< 0.002
Silica	mg/L	10.1
Silver	mg/L	< 0.0020
Sodium	mg/L	84.3
Total Phosphates	mg/L	0.260
Nitrate (as N)	mg/L	< 0.05
Sulfate	mg/L	11.8
Phenols	mg/L	0.096
Tot. Org. Carbon	mg/L	6.80
Tot. Org. Halogens	mg/L	0.025
Carbon Tetrachloride	mg/L	< 0.001
Chloroform	mg/L	< 0.001
Tetrachloroethylene	mg/L	< 0.001
Trichloroethylene	mg/L	0.001
1,1,1-TCE	mg/L	0.025

Other Analyses (Pest/Herb* Analytes: Table 5-91)

AMB 4 12/04/88

trans-1,2-Dichloroethene	< 0.01 mg/L
1,1-Dichloroethylene	< 0.01 mg/L

Pest/Herb* analyses detected the following: None

AMB 5 12/03/88

trans-1,1-Dichloroethene	< 0.01 mg/L
1,1-Dichloroethylene	< 0.01 mg/L

Pest/Herb* analyses detected the following:

2,4-Dichlorophenoxyacetic Acid	0.0019 mg/L

AMB 6 12/04/88

trans-1,2-Dichloroethene	< 0.01 mg/L
1,1-Dichloroethylene	< 0.01 mg/L

Pest/Herb* analyses detected the following: None

AMB 7 12/04/88

trans-1,2-Dichloroethene	< 0.0025 mg/L
1,1-Dichloroethylene	< 0.0025 mg/L

Pest/Herb* analyses detected the following:

2,4-Dichlorophenoxyacetic Acid	0.0003 mg/L

TABLE 5-7
GROUNDWATER MONITORING RESULTS FROM THE MISCELLANEOUS CHEMICAL BASIN WELLS

Well: MCB 2, Miscellaneous Chemical Basin

SRP Grid Coordinates	N 97012.6 E 45129.0	Screen Zone Elevation	ft (msl)	225.9 - 205.9
Latitude	33.313949° N	Top of Casing Elevation		328.4
Longitude	81.736437° W	Casing Material		PVC

Parameter	Units	02/26/88	05/11/88	08/15/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.5	223.4	221.4	220.5
pH	pH	6.3	6.1	5.8	6.4
Conductivity	µmhos/cm	26	24	21	37
Alkalinity	mg/L	13	7	6	14
TDS	mg/L	34	24	-	-
Gross Alpha	pCi/L	<3.0	<3.0	-	-
Nonvolatile Beta	pCi/L	<2.0	<2.0	-	-
Total Radium	*pCi/L*	*<1.0*	*0.6*	-	-
Tritium	pCi/mL	2.10	0.60	-	-
Arsenic	mg/L	<0.002	<0.002	-	-
Barium	mg/L	0.005	<0.004	-	-
Cadmium	mg/L	<0.002	<0.002	-	-
Calcium	mg/L	5.93	2.57	-	-
Chloride	mg/L	1.5	1.7	-	-
Chromium	mg/L	<0.004	<0.004	-	-
Fluoride	mg/L	<0.10	<0.10	-	-
Iron	mg/L	0.008	0.011	-	-
Lead	mg/L	<0.006	<0.006	-	-
Magnesium	mg/L	0.228	0.231	-	-
Manganese	mg/L	0.002	0.002	-	-
Mercury	mg/L	<0.0002	<0.0002	-	-
Potassium	mg/L	<0.500	<0.500	-	-
Selenium	mg/L	<0.002	<0.002	-	-
Silica	mg/L	3.82	3.93	-	-
Silver	mg/L	<0.0020	<0.0020	-	-
Sodium	mg/L	1.28	1.11	-	-
Total Phosphates	mg/L	0.140	0.070	-	-
Nitrate (as N)	mg/L	0.45	0.20	-	-
Sulfate	mg/L	<5.0	<5.0	-	-
Phenols	mg/L	<0.005	<0.005	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	-	-
Tot. Org. Halogens	mg/L	0.032	0.048	0.074	-
Carbon Tetrachloride	mg/L	0.001	-	0.001	-
Chloroform	mg/L	<0.001	<0.010	<0.001	<0.010
Tetrachloroethylene	mg/L	0.003	0.010	0.004	0.007
Trichloroethylene	mg/L	0.046	0.098	0.094	0.082
1,1,1-TCE	mg/L	<0.001	<0.010	<0.001	<0.010

Well: MCB 4, Miscellaneous Chemical Basin

SRP Grid Coordinates	N 97532.5 E 44705.1	Screen Zone Elevation	ft (msl)	229.6 - 208.6
Latitude	33.314406° N	Top of Casing Elevation		350.4
Longitude	81.738564° W	Casing Material		PVC

Parameter	Units	02/26/88	05/11/88	08/15/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.5	222.9	222.6	222.1
pH	pH	6.0	5.6	5.2	5.4
Conductivity	µmhos/cm	24	18	15	13
Alkalinity	mg/L	4	2	2	1
TDS	mg/L	54	34	-	-
Gross Alpha	pCi/L	1.6	2.1	-	-
Nonvolatile Beta	*pCi/L*	*<2.0*	*1.6*	-	-
Total Radium	pCi/L	<1.0	0.3	-	-
Tritium	pCi/mL	2.40	0.92	-	-
Arsenic	mg/L	<0.002	<0.002	-	-
Barium	mg/L	0.004	0.004	-	-
Cadmium	mg/L	<0.002	<0.002	-	-
Calcium	mg/L	1.09	0.918	-	-
Chloride	mg/L	1.4	1.6	-	-
Chromium	mg/L	<0.004	<0.004	-	-
Fluoride	mg/L	<0.10	<0.10	-	-
Iron	mg/L	0.123	0.061	-	-
Lead	mg/L	<0.006	<0.006	-	-
Magnesium	mg/L	0.134	0.146	-	-
Manganese	mg/L	0.014	0.013	-	-
Mercury	mg/L	<0.0002	<0.0002	-	-
Potassium	mg/L	<0.500	<0.500	-	-
Selenium	mg/L	<0.002	<0.002	-	-
Silica	*mg/L*	*3.26*	*3.27*	-	-
Silver	mg/L	<0.0020	<0.0020	-	-
Sodium	mg/L	1.68	1.40	-	-
Total Phosphates	mg/L	<0.020	0.020	-	-
Nitrate (as N)	mg/L	0.34	0.24	-	-
Sulfate	mg/L	<5.0	<5.0	-	-
Phenols	mg/L	<0.005	<0.005	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	-	-
Tot. Org. Halogens	mg/L	0.030	0.047	0.084	-
Carbon Tetrachloride	mg/L	0.001	-	0.002	-
Chloroform	mg/L	<0.001	<0.010	<0.001	<0.010
Tetrachloroethylene	mg/L	0.016	0.026	0.021	0.025
Trichloroethylene	mg/L	0.036	0.061	0.076	0.068
1,1,1-TCE	mg/L	<0.001	<0.010	<0.001	<0.010

Well: MCB 5, Miscellaneous Chemical Basin

SRP Grid Coordinates	N 97335.6 E 44863.9	Screen Zone Elevation	ft (msl)	226.3 - 206.3
Latitude	33.314230° N	Top of Casing Elevation		339.6
Longitude	81.737763° W	Casing Material		PVC

Parameter	Units	02/26/88	05/11/88	08/15/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.8	223.2	223	222.2
pH	pH	10.2	9.0	9.9	6.8
Conductivity	µmhos/cm	80	59	75	48
Alkalinity	mg/L	43	22	34	18
TDS	mg/L	108	58	-	-
Gross Alpha	pCi/L	1.1	0.7	-	-
Nonvolatile Beta	pCi/L	1.7	<2.0	-	-
Total Radium	*pCi/L*	*<1.0*	*0.3*	-	-
Tritium	pCi/mL	2.00	0.70	-	-
Arsenic	mg/L	<0.002	<0.002	-	-
Barium	mg/L	0.019	0.009	-	-
Cadmium	mg/L	<0.002	<0.002	-	-
Calcium	mg/L	15.9	8.80	-	-
Chloride	mg/L	1.4	1.7	-	-
Chromium	mg/L	<0.004	<0.004	-	-
Fluoride	mg/L	<0.10	<0.10	-	-
Iron	mg/L	0.015	0.016	-	-
Lead	mg/L	<0.006	<0.006	-	-
Magnesium	mg/L	0.097	0.142	-	-
Manganese	mg/L	<0.002	0.005	-	-
Mercury	mg/L	<0.0002	<0.0002	-	-
Potassium	mg/L	0.698	<0.500	-	-
Selenium	mg/L	<0.002	<0.002	-	-
Silica	mg/L	4.47	4.25	-	-
Silver	*mg/L*	*<0.0020*	*<0.0020*	-	-
Sodium	mg/L	1.84	1.45	-	-
Total Phosphates	mg/L	0.050	0.020	-	-
Nitrate (as N)	mg/L	0.28	0.15	-	-
Sulfate	mg/L	<5.0	<5.0	-	-
Phenols	mg/L	<0.005	<0.005	-	-
Tot. Org. Carbon	mg/L	<1.000	4.00	-	-
Tot. Org. Halogens	mg/L	0.068	0.291	0.305	-
Carbon Tetrachloride	mg/L	0.007	-	0.004	-
Chloroform	mg/L	0.002	<0.010	0.002	<0.050
Tetrachloroethylene	mg/L	0.038	0.072	0.038	0.067
Trichloroethylene	mg/L	0.200	0.531	0.397	0.474
1,1,1-TCE	mg/L	<0.001	<0.010	<0.001	<0.050

Well: MCB 6, Miscellaneous Chemical Basin

SRP Grid Coordinates	N 97425.7 E 45214.0	Screen Zone Elevation	ft (msl)	219.7 - 199.7
Latitude	33.315001° N	Top of Casing Elevation		332.1
Longitude	81.737017° W	Casing Material		PVC

Parameter	Units	02/26/88	05/11/88	08/15/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.1	219.2	218.9	218.1
pH	pH	6.4	6.3	6.0	6.5
Conductivity	µmhos/cm	40	39	39	35
Alkalinity	mg/L	10	11	25	13
TDS	mg/L	112	50	42	-
Gross Alpha	pCi/L	1.6	1.3	1.4	-
Nonvolatile Beta	pCi/L	3.0	3.2	2.6	-
Total Radium	pCi/L	0.9	0.9	0.5	-
Tritium	pCi/mL	2.30	0.93	0.40	-
Arsenic	mg/L	<0.002	<0.002	<0.002	-
Barium	mg/L	0.005	0.009	0.007	-
Cadmium	mg/L	<0.002	<0.002	<0.002	-
Calcium	mg/L	1.26	1.87	1.54	-
Chloride	mg/L	1.7	1.5	1.9	-
Chromium	*mg/L*	*0.006*	*<0.004*	*<0.004*	-
Fluoride	mg/L	<0.10	<0.10	<0.10	-
Iron	mg/L	0.026	0.123	0.034	-
Lead	mg/L	<0.006	<0.006	<0.006	-
Magnesium	mg/L	0.126	0.221	0.159	-
Manganese	mg/L	0.034	0.060	0.067	-
Mercury	mg/L	<0.0002	<0.0002	<0.0002	-
Potassium	mg/L	1.83	<0.500	2.11	-
Selenium	mg/L	<0.002	<0.002	<0.002	-
Silica	mg/L	3.56	3.71	3.46	-
Silver	mg/L	<0.0020	<0.0020	<0.0020	-
Sodium	mg/L	4.76	3.90	2.18	-
Total Phosphates	mg/L	0.070	0.040	<0.020	-
Nitrate (as N)	mg/L	0.42	0.32	0.30	-
Sulfate	mg/L	<5.0	<5.0	<5.0	-
Phenols	mg/L	<0.005	<0.005	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	-
Tot. Org. Halogens	*mg/L*	*<0.005*	*0.005*	*0.022*	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.010	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.001	<0.001	0.001
Trichloroethylene	mg/L	<0.001	0.005	0.001	0.002
1,1,1-TCE	mg/L	<0.001	<0.010	<0.001	<0.001

TABLE 5-7
GROUNDWATER MONITORING RESULTS FROM THE MISCELLANEOUS CHEMICAL BASIN WELLS, CONT'D.

Other Analyses
(GCMS Scan Analytes: Table 5-91)

MCB 2	02/26/88	
GCMS Scan detected the following: None		
MCB 2	08/15/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MCB 2	11/06/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MCB 4	02/26/88	
GCMS Scan detected the following: None		
MCB 4	08/15/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MCB 4	11/06/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MCB 5	02/26/88	
GCMS Scan detected the following: None		
MCB 5	08/15/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MCB 5	11/06/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MCB 6	02/26/88	
GCMS Scan detected the following: None		
MCB 6	08/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MCB 6	11/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-8
GROUNDWATER MONITORING RESULTS FROM THE MOTOR SHOP OIL BASIN WELLS

Well: AOB 1, Motor Shop Oil Basin

				ft (msl)
SRP Grid	N	101910.7		
Coordinates	E	50485.9	Screen Zone Elevation	248.5 - 218.5
Latitude		33.333525° N	Top of Casing Elevation	341.1
Longitude		81.731860° W	Casing Material	PVC

Parameter	Units	01/26/88	04/08/88	07/14/88	11/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.8	239.2	237.9	236.9
pH	pH	4.8	5.3	4.8	5.1
Conductivity	µmhos/cm	32	37	65	40
Alkalinity	mg/L	1	3	1	0
Total Radium	pCi/L	1.3	-	-	-
Chloride	mg/L	3.4	-	-	-
Phenols	mg/L	<0.005	-	-	<0.010
Tot. Org. Carbon	mg/L	1.40	-	-	-
Tot. Org. Halogens	mg/L	0.184	-	0.161	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.050	<0.001	<0.001
Tetrachloroethylene	mg/L	0.104	0.075	0.034	0.065
Trichloroethylene	mg/L	<0.001	0.088	0.037	0.067
1,1,1-TCE	mg/L	<0.001	<0.050	<0.001	<0.001

Well: AOB 2, Motor Shop Oil Basin

				ft (msl)
SRP Grid	N	102009.8		
Coordinates	E	50724.7	Screen Zone Elevation	250.2 - 220.2
Latitude		33.334134° N	Top of Casing Elevation	345.4
Longitude		81.731424° W	Casing Material	PVC

Parameter	Units	01/26/88	04/08/88	07/14/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.9	239.5	238.6	237.8
pH	pH	5.1	5.7	5.0	5.0
Conductivity	µmhos/cm	19	20	22	23
Alkalinity	mg/L	2	2	1	1
Total Radium	pCi/L	0.6	-	-	-
Chloride	mg/L	1.8	-	-	-
Phenols	mg/L	<0.005	-	-	<0.010
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.001	<0.001	0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	0.003	<0.001	<0.001

Other Analyses
(Base/Neutral/Acid Analytes: Table 5-91)

AOB 1 01/26/88

Endrin <0.0001 mg/L

AOB 1 07/14/88

Endrin 0.0005 mg/L

trans-1,2-Dichloroethene <0.05 mg/L

1,1-Dichloroethylene <0.05 mg/L

AOB 1 11/20/88

trans-1,2-Dichloroethene <0.001 mg/L

1,1-Dichloroethylene <0.001 mg/L

Base/Neutral/Acid (BNA) analyses detected the following: None

AOB 2 01/26/88

Endrin <0.0001 mg/L

AOB 2 07/14/88

Endrin 0.0001 mg/L

trans-1,2-Dichloroethene <0.001 mg/L

1,1-Dichloroethylene <0.001 mg/L

AOB 2 10/09/88

trans-1,2-Dichloroethene <0.001 mg/L

1,1-Dichloroethylene <0.001 mg/L

Base/Neutral/Acid (BNA) analyses detected the following: None

TABLE 5-9
GROUNDWATER MONITORING RESULTS FROM THE SAVANNAH RIVER LABORATORY SEEPAGE BASINS WELLS

Well: ASB 1A, Savannah River Laboratory Seepage Basins

SRP Grid Coordinates	N 105535.0 E 52614.0	Screen Zone Elevation	ft (msl) 247.2 - 217.2
Latitude	33.345012° N	Top of Casing Elevation	349.1
Longitude	81.733306° W	Casing Material	PVC

Parameter	Units	01/26/88	04/05/88	07/07/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.2	239.2	238.4	238.1
pH	pH	5.2	5.4	4.9	4.9
Conductivity	µmhos/cm	42	57	47	56
Alkalinity	mg/L	0	4	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	7.2	-	6.6	-
Nonvolatile Beta	pCi/L	6.2	-	4.9	-
Total Radium	pCi/L	3.4	-	2.3	-
Tritium	pCi/mL	-	-	1.17	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.008	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	1.42	-
Chloride	mg/L	5.3	-	5.6	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	0.008	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.013	-	0.123	-
Lead	mg/L	0.007	-	<0.006	-
Magnesium	mg/L	-	-	0.501	-
Manganese	mg/L	0.065	-	0.061	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	1.51	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	3.99	-	4.52	-
Total Phosphates	mg/L	-	-	0.040	-
Nitrate (as N)	mg/L	-	-	0.27	-
Sulfate	mg/L	10.0	-	5.1	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.022	-
Carbon Tetrachloride	mg/L	<0.001	-	0.001	-
Chloroform	mg/L	<0.001	-	0.001	-
Tetrachloroethylene	mg/L	0.003	<0.001	0.002	0.003
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: ASB 3A, Savannah River Laboratory Seepage Basins

SRP Grid Coordinates	N 105657.4 E 53152.7	Screen Zone Elevation	ft (msl) 247.9 - 217.9
Latitude	33.346162° N	Top of Casing Elevation	345.0
Longitude	81.732126° W	Casing Material	PVC

Parameter	Units	01/26/88	04/05/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.4	240.4	239.5	239
pH	pH	5.1	6.0	5.5	5.6
Conductivity	µmhos/cm	35	44	40	54
Alkalinity	mg/L	6	11	7	13
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	14.3	-	8.0	-
Nonvolatile Beta	pCi/L	9.9	-	3.7	-
Total Radium	pCi/L	4.3	-	3.0	-
Tritium	pCi/mL	-	-	1.31	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.019	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	2.73	-
Chloride	mg/L	4.0	-	4.7	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.055	-	0.105	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	-	-	0.886	-
Manganese	mg/L	0.006	-	0.007	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	2.34	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	2.72	-	3.05	-
Total Phosphates	mg/L	-	-	0.020	-
Nitrate (as N)	mg/L	-	-	0.19	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: ASB 2A, Savannah River Laboratory Seepage Basins

SRP Grid Coordinates	N 105608.8 E 52856.9	Screen Zone Elevation	ft (msl) 246.9 - 216.9
Latitude	33.345572° N	Top of Casing Elevation	349.0
Longitude	81.732810° W	Casing Material	PVC

Parameter	Units	01/26/88	04/05/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.3	240.1	239.3	238.9
pH	pH	5.1	5.8	5.4	5.4
Conductivity	µmhos/cm	61	74	71	82
Alkalinity	mg/L	5	5	7	9
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	7.1	-	4.0	-
Nonvolatile Beta	pCi/L	5.4	-	4.2	-
Total Radium	pCi/L	3.6	-	2.6	-
Tritium	pCi/mL	-	-	1.74	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.012	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	2.99	-
Chloride	mg/L	6.2	-	7.4	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.037	-	0.034	-
Lead	mg/L	0.012	-	<0.006	-
Magnesium	mg/L	-	-	0.781	-
Manganese	mg/L	0.021	-	0.020	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	0.790	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	7.04	-	8.57	-
Total Phosphates	mg/L	-	-	0.020	-
Nitrate (as N)	mg/L	-	-	0.12	-
Sulfate	mg/L	<5.0	-	9.4	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.017	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.001	<0.001	0.002	0.002
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: ASB 4, Savannah River Laboratory Seepage Basins

SRP Grid Coordinates	N 105935.7 E 53177.2	Screen Zone Elevation	ft (msl) 256.1 - 226.1
Latitude	33.346818° N	Top of Casing Elevation	335.6
Longitude	81.732602° W	Casing Material	PVC

Parameter	Units	01/30/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.4	239	238.3	237.9
pH	pH	5.4	5.4	5.4	5.2
Conductivity	µmhos/cm	39	40	45	43
Alkalinity	mg/L	8	6	8	7
TDS	mg/L	-	-	33	-
Gross Alpha	pCi/L	4.9	-	4.0	-
Nonvolatile Beta	pCi/L	4.0	-	4.5	-
Total Radium	pCi/L	1.6	-	1.0	-
Tritium	pCi/mL	-	-	1.05	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.014	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	1.60	-
Chloride	mg/L	2.3	-	3.2	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.012	-	0.021	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	-	-	0.873	-
Manganese	mg/L	0.002	-	0.003	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	0.793	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	2.34	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	4.95	-	4.61	-
Total Phosphates	mg/L	-	-	<0.020	-
Nitrate (as N)	mg/L	-	-	0.40	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.005	-	0.007	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	0.002	0.002	0.003
1,1,1-TCE	mg/L	<0.001	0.002	<0.001	<0.001

TABLE 5-9
GROUNDWATER MONITORING RESULTS FROM THE SAVANNAH RIVER LABORATORY SEEPAGE BASINS WELLS, CONT'D.

Well: ASB 5A, Savannah River Laboratory Seepage Basins

				ft (msl)
SRP Grid	N 105885.5			
Coordinates	E 52865.7	Screen Zone Elevation		247.9 - 217.9
Latitude	33.346198° N	Top of Casing Elevation		345.0
Longitude	81.733325° W	Casing Material		PVC

Parameter	Units	02/26/88	04/05/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.2	239.3	238.4	237.9
pH	pH	4.7	5.8	5.2	5.1
Conductivity	µmhos/cm	45	47	38	41
Alkalinity	mg/L	3	3	1	3
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.6	-	4.9	-
Nonvolatile Beta	pCi/L	3.2	-	2.4	-
Total Radium	pCi/L	1.8	-	2.0	-
Tritium	pCi/mL	-	-	3.03	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.013	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	1.89	-
Chloride	mg/L	5.8	-	4.7	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.020	-	0.152	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	-	-	1.03	-
Manganese	mg/L	0.014	-	0.028	-
Mercury	mg/L	0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	1.82	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	3.19	-	2.76	-
Total Phosphates	mg/L	-	-	<0.020	-
Nitrate (as N)	mg/L	-	-	0.31	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.006	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.003	-	0.002	-
Trichloroethylene	mg/L	0.011	-	0.0215	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ASB 6A, Savannah River Laboratory Seepage Basins

				ft (msl)
SRP Grid	N 105716.0			
Coordinates	E 52675.9	Screen Zone Elevation		248.2 - 218.2
Latitude	33.345513° N	Top of Casing Elevation		350.2
Longitude	81.733495° W	Casing Material		PVC

Parameter	Units	01/27/88	04/05/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	238.6	238.8	237.9	237.4
pH	pH	4.8	5.1	4.8	4.7
Conductivity	µmhos/cm	47	54	50	54
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	19.0	-	13.9	-
Nonvolatile Beta	pCi/L	11.0	-	8.3	-
Total Radium	pCi/L	4.1	-	3.9	-
Tritium	pCi/mL	-	-	1.14	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.008	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	1.55	-
Chloride	mg/L	7.7	-	7.6	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.106	-	0.117	-
Lead	mg/L	0.010	-	0.008	-
Magnesium	mg/L	-	-	0.693	-
Manganese	mg/L	0.048	-	0.032	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	0.006	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	1.92	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	4.67	-	4.79	-
Total Phosphates	mg/L	-	-	<0.020	-
Nitrate (as N)	mg/L	-	-	0.29	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.002	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: ASB 7, Savannah River Laboratory Seepage Basins

				ft (msl)
SRP Grid	N 105770.6			
Coordinates	E 52626.4	Screen Zone Elevation		231.3 - 211.3
Latitude	33.345553° N	Top of Casing Elevation		353.4
Longitude	81.733732° W	Casing Material		PVC

Parameter	Units	01/27/88	04/05/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.2	237.4	236.3	236.1
pH	pH	4.5	5.1	4.8	4.7
Conductivity	µmhos/cm	60	70	63	63
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	14.0	-	5.4	-
Nonvolatile Beta	pCi/L	8.5	-	3.4	-
Total Radium	pCi/L	3.2	-	3.2	-
Tritium	pCi/mL	-	-	3.18	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.007	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	1.17	-
Chloride	mg/L	8.2	-	10.5	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	0.007	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.029	-	0.065	-
Lead	mg/L	0.018	-	0.007	-
Magnesium	mg/L	-	-	0.725	-
Manganese	mg/L	0.053	-	0.062	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	2.04	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	12.8	-	7.14	-
Total Phosphates	mg/L	-	-	0.020	-
Nitrate (as N)	mg/L	-	-	1.30	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.008	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.002	0.001	0.003
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Other Analyses
(GCMS Scan and Gamma PHA Analytes: Table 5-91)

ASB 1A	07/07/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
Lead 214		0.093	pCi/mL
Gamma PHA analyses detected the following: None			
ASB 1A	10/26/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
ASB 2A	07/07/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
Gamma PHA analyses detected the following: None			
ASB 2A	10/02/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
ASB 3A	07/07/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
Gamma PHA analyses detected the following: None			
ASB 3A	10/02/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
ASB 4	07/15/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L
Lead 214		0.044	pCi/mL
Gamma PHA analyses detected the following: None			
ASB 4	10/02/88		
trans-1,2-Dichloroethene		<0.001	mg/L
1,1-Dichloroethylene		<0.001	mg/L

TABLE 5-9
GROUNDWATER MONITORING RESULTS FROM THE SAVANNAH RIVER LABORATORY SEEPAGE BASINS WELLS, CONT'D.

ASB 5A	07/07/88	
trans-1,2-Dichloroethene		< 0.01 mg/L
1,1-Dichloroethylene		< 0.01 mg/L
Gamma PHA analyses detected the following: None		
ASB 6A	07/07/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
Lead 214		0.09 pCi/mL
Gamma PHA analyses detected the following: None		
ASB 7	07/07/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
Lead 214		0.082 pCi/mL
Gamma PHA analyses detected the following: None		
ASB 7	10/02/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS

Well: SRW 1, Silverton Road Waste Site

SRP Grid	N 103776.7		ft (msl)
Coordinates	E 41407.0	Screen Zone Elevation	230.2 - 200.2
Latitude	33.322821° N	Top of Casing Elevation	315.2
Longitude	81.759395° W	Casing Material	PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.4	5.1	5.4	5.0
Conductivity	µmhos/cm	17	16	17	16
Alkalinity	mg/L	2	1	1	1
Gross Alpha	pCi/L	5.6	-	-	-
Nonvolatile Beta	pCi/L	3.0	-	-	-
Total Radium	pCi/L	1.8	-	1.9	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.231	-	0.215	-
Lead	mg/L	< 0.006	-	0.010	-
Manganese	mg/L	0.045	-	0.026	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	1.37	-	-	-
Zinc	mg/L	0.109	-	0.095	-
Nitrate (as N)	mg/L	0.48	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 2, Silverton Road Waste Site

SRP Grid	N 103721.8		ft (msl)
Coordinates	E 41627.2	Screen Zone Elevation	228.6 - 198.6
Latitude	33.323059° N	Top of Casing Elevation	320.6
Longitude	81.758708° W	Casing Material	PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.4	216.6	215.5	215.1
pH	pH	4.5	4.7	4.7	4.5
Conductivity	µmhos/cm	55	52	51	58
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	7.3	-	-	-
Nonvolatile Beta	pCi/L	9.3	-	-	-
Total Radium	pCi/L	1.5	-	1.1	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.232	-	0.228	-
Lead	mg/L	0.019	-	0.015	-
Manganese	mg/L	0.006	-	0.008	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	3.50	-	-	-
Zinc	mg/L	0.014	-	0.015	-
Nitrate (as N)	mg/L	1.50	-	-	-
Sulfate	mg/L	6.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.016	-	0.372	-
Carbon Tetrachloride	mg/L	0.001	-	< 0.001	-
Chloroform	mg/L	0.023	-	0.016	-
Tetrachloroethylene	mg/L	0.002	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.002	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 2A, Silverton Road Waste Site

SRP Grid	N 103720.8		ft (msl)
Coordinates	E 41634.6	Screen Zone Elevation	98.4 - 88.6
Latitude	33.323069° N	Top of Casing Elevation	320.6
Longitude	81.758687° W	Casing Material	PVC

Parameter	Units	03/05/88	05/09/88	08/03/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.6	207.9	207	207
pH	pH	5.1	5.0	5.0	4.8
Conductivity	µmhos/cm	16	19	21	21
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	1.4	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.006	-	0.063	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.007	-	0.003	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.53	-	-	-
Zinc	mg/L	0.025	-	0.096	-
Nitrate (as N)	mg/L	0.47	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.058	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 2B, Silverton Road Waste Site

SRP Grid	N 103729.7		ft (msl)
Coordinates	E 41631.7	Screen Zone Elevation	162.6 - 152.8
Latitude	33.323084° N	Top of Casing Elevation	320.6
Longitude	81.758712° W	Casing Material	PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.8	209	208.2	208
pH	pH	5.3	5.3	5.3	5.0
Conductivity	µmhos/cm	20	18	19	20
Alkalinity	mg/L	2	1	1	0
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	1.7	-	-	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.016	-	0.046	-
Lead	mg/L	0.007	-	0.010	-
Manganese	mg/L	0.007	-	0.008	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.61	-	-	-
Zinc	mg/L	0.015	-	0.002	-
Nitrate (as N)	mg/L	0.55	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.078	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 3A, Silverton Road Waste Site

SRP Grid	N 103516.4		ft (msl)
Coordinates	E 41851.2	Screen Zone Elevation	193.1 - 163.1
Latitude	33.322971° N	Top of Casing Elevation	332.1
Longitude	81.757719° W	Casing Material	PVC

Parameter	Units	03/15/88	05/07/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.3	215.6	214.8	214.4
pH	pH	5.1	5.1	5.1	4.9
Conductivity	µmhos/cm	18	21	19	17
Alkalinity	mg/L	1	1	1	1
Gross Alpha	pCi/L	1.7	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	0.6	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.006	-	0.014	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.006	-	0.007	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.47	-	-	-
Zinc	mg/L	0.086	-	< 0.002	-
Nitrate (as N)	mg/L	0.51	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 4, Silverton Road Waste Site

SRP Grid	N 103359.9		ft (msl)
Coordinates	E 41612.4	Screen Zone Elevation	230.1 - 200.1
Latitude	33.322235° N	Top of Casing Elevation	320.1
Longitude	81.758043° W	Casing Material	PVC

Parameter	Units	03/16/88	05/11/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.7	215	214.2	213.9
pH	pH	4.8	4.6	5.0	4.9
Conductivity	µmhos/cm	72	76	69	61
Alkalinity	mg/L	1	0	1	0
Gross Alpha	pCi/L	3.2	-	-	-
Nonvolatile Beta	pCi/L	2.4	-	-	-
Total Radium	pCi/L	1.0	-	1.3	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.042	-	0.057	-
Lead	mg/L	0.016	-	0.017	-
Manganese	mg/L	0.010	-	0.011	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.47	-	-	-
Zinc	mg/L	0.017	-	0.045	-
Nitrate (as N)	mg/L	3.58	-	-	-
Sulfate	mg/L	6.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.007	-	0.020	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.012	-	0.013	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS, CONT'D.

Well: SRW 5, Silverton Road Waste Site

SRP Grid	N 103418.2			ft (msl)
Coordinates	E 41240.0	Screen Zone Elevation		224.6 - 194.6
Latitude	33.321756° N	Top of Casing Elevation		309.4
Longitude	81.759137° W	Casing Material		PVC

Parameter	Units	03/16/88	05/11/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214	213.3	212.6	212.3
pH	pH	5.0	4.9	5.2	5.1
Conductivity	µmhos/cm	46	45	42	41
Alkalinity	mg/L	4	1	3	1
Gross Alpha	pCi/L	1.3	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	0.5	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.022	-	0.057	-
Lead	mg/L	0.012	-	0.018	-
Manganese	mg/L	0.007	-	0.009	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.48	-	-	-
Zinc	mg/L	0.064	-	0.085	-
Nitrate (as N)	mg/L	0.68	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.018	-	0.034	-
Carbon Tetrachloride	mg/L	0.007	-	0.004	-
Chloroform	mg/L	0.021	-	0.016	-
Tetrachloroethylene	mg/L	0.003	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.002	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 6, Silverton Road Waste Site

SRP Grid	N 103602.7			ft (msl)
Coordinates	E 41243.9	Screen Zone Elevation		222.6 - 192.6
Latitude	33.322170° N	Top of Casing Elevation		307.7
Longitude	81.759485° W	Casing Material		PVC

Parameter	Units	03/15/88	05/09/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.4	213.8	213	212.7
pH	pH	5.5	5.3	5.4	5.3
Conductivity	µmhos/cm	31	32	34	32
Alkalinity	mg/L	2	2	2	1
Gross Alpha	pCi/L	3.1	-	-	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Total Radium	pCi/L	6.8	-	0.8	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.008	-	0.023	-
Lead	mg/L	0.007	-	0.016	-
Manganese	mg/L	0.003	-	0.005	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	3.59	-	-	-
Zinc	mg/L	0.018	-	0.048	-
Nitrate (as N)	mg/L	1.32	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.470	-
Carbon Tetrachloride	mg/L	0.003	-	0.003	-
Chloroform	mg/L	0.031	-	0.023	-
Tetrachloroethylene	mg/L	0.002	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 7, Silverton Road Waste Site

SRP Grid	N 103541.5			ft (msl)
Coordinates	E 40926.2	Screen Zone Elevation		217.5 - 197.5
Latitude	33.321515° N	Top of Casing Elevation		299.1
Longitude	81.760203° W	Casing Material		PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213	212.3	211.4	211.3
pH	pH	5.3	5.3	5.2	5.2
Conductivity	µmhos/cm	28	31	30	26
Alkalinity	mg/L	5	2	3	2
Gross Alpha	pCi/L	1.7	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	0.7	-
Arsenic	mg/L	0.003	-	-	-
Iron	mg/L	0.026	-	0.026	-
Lead	mg/L	0.009	-	0.032	-
Manganese	mg/L	< 0.002	-	0.004	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.36	-	-	-
Zinc	mg/L	0.058	-	0.087	-
Nitrate (as N)	mg/L	0.71	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.019	-	0.948	-
Carbon Tetrachloride	mg/L	0.007	-	0.006	-
Chloroform	mg/L	0.012	-	0.010	-
Tetrachloroethylene	mg/L	0.002	-	0.002	-
Trichloroethylene	mg/L	0.008	-	0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 8, Silverton Road Waste Site

SRP Grid	N 103470.0			ft (msl)
Coordinates	E 40455.9	Screen Zone Elevation		215.7 - 195.7
Latitude	33.320589° N	Top of Casing Elevation		288.1
Longitude	81.761302° W	Casing Material		PVC

Parameter	Units	03/21/88	05/11/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.4	209.7	209	208.6
pH	pH	5.1	5.3	5.4	5.4
Conductivity	µmhos/cm	30	28	37	25
Alkalinity	mg/L	5	3	4	2
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	2.2	-	-	-
Total Radium	pCi/L	0.9	-	0.6	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.021	-	0.012	-
Lead	mg/L	0.010	-	0.007	-
Manganese	mg/L	0.003	-	0.003	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.91	-	-	-
Zinc	mg/L	0.030	-	0.033	-
Nitrate (as N)	mg/L	0.59	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.015	-	0.027	-
Carbon Tetrachloride	mg/L	0.005	-	0.004	-
Chloroform	mg/L	0.013	-	0.010	-
Tetrachloroethylene	mg/L	0.008	-	0.001	-
Trichloroethylene	mg/L	0.002	-	0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 9, Silverton Road Waste Site

SRP Grid	N 103259.8			ft (msl)
Coordinates	E 39688.4	Screen Zone Elevation		196.3 - 166.3
Latitude	33.318871° N	Top of Casing Elevation		253.4
Longitude	81.762913° W	Casing Material		PVC

Parameter	Units	03/20/88	05/11/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	200.1	199.6	198.6	197.9
pH	pH	4.9	5.0	4.9	5.2
Conductivity	µmhos/cm	20	17	18	16
Alkalinity	mg/L	1	1	2	2
Gross Alpha	pCi/L	1.3	-	-	-
Nonvolatile Beta	pCi/L	1.5	-	-	-
Total Radium	pCi/L	< 1.0	-	0.8	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.012	-	0.052	-
Lead	mg/L	0.016	-	< 0.006	-
Manganese	mg/L	< 0.002	-	0.002	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.50	-	-	-
Zinc	mg/L	0.007	-	0.023	-
Nitrate (as N)	mg/L	0.51	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.008	-	0.011	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.003	-	0.002	-
Tetrachloroethylene	mg/L	0.005	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.002	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 9A, Silverton Road Waste Site

SRP Grid	N 103251.1			ft (msl)
Coordinates	E 39692.9	Screen Zone Elevation		124.3 - 114.4
Latitude	33.318859° N	Top of Casing Elevation		253.3
Longitude	81.762884° W	Casing Material		PVC

Parameter	Units	03/20/88	05/11/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	199.7	199.4	198.2	198.1
pH	pH	5.2	4.9	5.2	5.1
Conductivity	µmhos/cm	21	19	20	18
Alkalinity	mg/L	1	1	0	1
Gross Alpha	pCi/L	< 3.0	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	0.8	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.012	-	0.018	-
Lead	mg/L	0.009	-	0.007	-
Manganese	mg/L	< 0.002	-	0.004	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.49	-	-	-
Zinc	mg/L	0.017	-	0.041	-
Nitrate (as N)	mg/L	0.81	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.006	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS, CONT'D.

Well: SRW 9B, Silverton Road Waste Site

SRP Grid Coordinates	N 103241.6 E 39697.6	Screen Zone Elevation	ft (msl) 162.4 - 152.6
Latitude	33.318845° N	Top of Casing Elevation	253.4
Longitude	81.762853° W	Casing Material	PVC

Parameter	Units	03/20/88	05/11/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	200.6	200.4	199.3	198.8
pH	pH	5.3	5.0	4.9	5.1
Conductivity	µmhos/cm	20	18	18	17
Alkalinity	mg/L	1	1	0	1
Gross Alpha	pCi/L	2.5	-	-	-
Nonvolatile Beta	pCi/L	3.5	-	-	-
Total Radium	pCi/L	0.9	-	1.2	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.040	-	0.019	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.006	-	0.010	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.58	-	-	-
Zinc	mg/L	0.079	-	0.127	-
Nitrate (as N)	mg/L	0.59	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.012	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: SRW 10, Silverton Road Waste Site

SRP Grid Coordinates	N 103387.9 E 40944.3	Screen Zone Elevation	ft (msl) 223.0 - 193.0
Latitude	33.321206° N	Top of Casing Elevation	303.4
Longitude	81.759856° W	Casing Material	PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.4	5.3	5.3	5.2
Conductivity	µmhos/cm	21	21	21	24
Alkalinity	mg/L	2	2	2	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	0.8	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.012	-	0.016	-
Lead	mg/L	0.009	-	0.009	-
Manganese	mg/L	0.003	-	0.003	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.89	-	-	-
Zinc	mg/L	0.018	-	0.012	-
Nitrate (as N)	mg/L	0.49	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.657	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SRW 11, Silverton Road Waste Site

SRP Grid Coordinates	N 103693.2 E 40874.2	Screen Zone Elevation	ft (msl) 220.6 - 190.6
Latitude	33.321766° N	Top of Casing Elevation	295.8
Longitude	81.760635° W	Casing Material	PVC

Parameter	Units	03/16/88	05/09/88	08/03/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.7	212.1	211.1	211.1
pH	pH	4.9	5.0	5.0	4.9
Conductivity	µmhos/cm	22	22	23	22
Alkalinity	mg/L	1	0	0	0
Gross Alpha	pCi/L	1.8	-	-	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Total Radium	pCi/L	<1.0	-	1.0	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.009	-	0.024	-
Lead	mg/L	0.012	-	0.008	-
Manganese	mg/L	<0.002	-	0.003	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.11	-	-	-
Zinc	mg/L	0.018	-	0.007	-
Nitrate (as N)	mg/L	0.57	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.014	-	0.083	-
Carbon Tetrachloride	mg/L	0.007	-	0.007	-
Chloroform	mg/L	0.007	-	0.005	-
Tetrachloroethylene	mg/L	0.006	-	0.003	-
Trichloroethylene	mg/L	0.003	-	0.005	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SRW 12A, Silverton Road Waste Site

SRP Grid Coordinates	N 103710.3 E 39013.3	Screen Zone Elevation	ft (msl) 113.7 - 103.9
Latitude	33.318763° N	Top of Casing Elevation	236.3
Longitude	81.765567° W	Casing Material	PVC

Parameter	Units	03/21/88	05/03/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.6	194.3	193.1	192.7
pH	pH	4.7	4.9	4.7	4.8
Conductivity	µmhos/cm	22	20	20	19
Alkalinity	mg/L	1	1	0	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	2.1	-	-	-
Total Radium	pCi/L	<1.0	-	0.5	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	<0.004	-	0.016	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.003	-	0.002	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.54	-	-	-
Zinc	mg/L	0.008	-	0.022	-
Nitrate (as N)	mg/L	0.78	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: SRW 12B, Silverton Road Waste Site

SRP Grid Coordinates	N 103702.7 E 39020.3	Screen Zone Elevation	ft (msl) 156.1 - 146.3
Latitude	33.318758° N	Top of Casing Elevation	236.3
Longitude	81.765533° W	Casing Material	PVC

Parameter	Units	03/21/88	05/03/88	08/06/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	188.7	188.6	187.2	186.9
pH	pH	5.7	5.4	5.4	5.5
Conductivity	µmhos/cm	17	15	14	13
Alkalinity	mg/L	2	2	1	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	0.3	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.054	-	0.043	-
Lead	mg/L	0.011	-	<0.006	-
Manganese	mg/L	0.003	-	<0.002	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.11	-	-	-
Zinc	mg/L	0.065	-	0.055	-
Nitrate (as N)	mg/L	0.22	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.062	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.001	<0.001	0.002	0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: SRW 12C, Silverton Road Waste Site

SRP Grid Coordinates	N 103712.5 E 39023.1	Screen Zone Elevation	ft (msl) 198.9 - 179.1
Latitude	33.318784° N	Top of Casing Elevation	236.3
Longitude	81.765545° W	Casing Material	PVC

Parameter	Units	03/21/88	05/03/88	08/08/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	195.3	194.9	194	193.4
pH	pH	5.4	5.5	4.5	5.4
Conductivity	µmhos/cm	16	15	15	14
Alkalinity	mg/L	2	4	3	2
Gross Alpha	pCi/L	1.2	-	-	-
Nonvolatile Beta	pCi/L	2.1	-	-	-
Total Radium	pCi/L	1.6	-	<1.0	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.093	-	0.050	-
Lead	mg/L	<0.006	-	0.012	-
Manganese	mg/L	0.004	-	0.007	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.10	-	-	-
Zinc	mg/L	0.181	-	0.231	-
Nitrate (as N)	mg/L	0.31	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	1.40	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	0.002	0.001	0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS, CONT'D.

Well: SRW 13A, Silverton Road Waste Site

SRP Grid	N 103001.0			ft (msl)
Coordinates	E 40668.2	Screen Zone Elevation		103.6 - 93.8
Latitude	33.319899° N	Top of Casing Elevation		297.7
Longitude	81.759830° W	Casing Material		PVC

Parameter	Units	03/05/88	05/03/88	08/06/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	202.5	202.3	201.2	200.9
pH	pH	5.1	5.0	5.0	4.9
Conductivity	µmhos/cm	20	20	20	19
Alkalinity	mg/L	1	1	0	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	0.5	-
Arsenic	mg/L	0.003	-	-	-
Iron	mg/L	0.009	-	<0.004	-
Lead	mg/L	<0.006	-	0.029	-
Manganese	mg/L	0.009	-	0.002	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.66	-	-	-
Zinc	mg/L	0.006	-	0.017	-
Nitrate (as N)	mg/L	1.02	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.006	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.010
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.010
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.010
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.010

Well: SRW 13B, Silverton Road Waste Site

SRP Grid	N 102993.6			ft (msl)
Coordinates	E 40675.8	Screen Zone Elevation		163.2 - 153.3
Latitude	33.319895° N	Top of Casing Elevation		297.7
Longitude	81.759796° W	Casing Material		PVC

Parameter	Units	03/21/88	05/03/88	08/06/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.9	204.4	203.4	203
pH	pH	5.2	5.1	5.0	5.0
Conductivity	µmhos/cm	21	18	18	17
Alkalinity	mg/L	1	1	1	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	3.3	-	-	-
Total Radium	pCi/L	<1.0	-	0.9	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.030	-	0.007	-
Lead	mg/L	0.019	-	0.011	-
Manganese	mg/L	0.009	-	0.007	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.61	-	-	-
Zinc	mg/L	0.026	-	0.027	-
Nitrate (as N)	mg/L	0.64	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: SRW 13C, Silverton Road Waste Site

SRP Grid	N 102986.5			ft (msl)
Coordinates	E 40682.7	Screen Zone Elevation		225.4 - 195.8
Latitude	33.319891° N	Top of Casing Elevation		297.7
Longitude	81.759764° W	Casing Material		PVC

Parameter	Units	03/21/88	05/03/88	08/06/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.5	210.8	210.1	209.6
pH	pH	5.4	5.2	5.1	5.2
Conductivity	µmhos/cm	26	23	27	25
Alkalinity	mg/L	2	2	0	2
Gross Alpha	pCi/L	1.4	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	0.8	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.177	-	0.053	-
Lead	mg/L	0.013	-	0.012	-
Manganese	mg/L	0.016	-	0.021	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.06	-	-	-
Zinc	mg/L	0.164	-	0.204	-
Nitrate (as N)	mg/L	0.85	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	0.0135	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: SRW 14A, Silverton Road Waste Site

SRP Grid	N 102831.3			ft (msl)
Coordinates	E 41538.6	Screen Zone Elevation		123.7 - 107.9
Latitude	33.320946° N	Top of Casing Elevation		327.0
Longitude	81.757209° W	Casing Material		PVC

Parameter	Units	03/20/88	05/03/88	08/09/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	205.3	204.6	203.6	203.7
pH	pH	5.5	5.4	4.9	5.3
Conductivity	µmhos/cm	27	24	25	23
Alkalinity	mg/L	2	2	1	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.008	-	0.018	-
Lead	mg/L	<0.006	-	0.012	-
Manganese	mg/L	0.004	-	0.005	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.58	-	-	-
Zinc	mg/L	0.010	-	0.017	-
Nitrate (as N)	mg/L	1.11	-	-	-
Sulfate	mg/L	23.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	1.40	-
Tot. Org. Halogens	mg/L	<0.005	-	1.31	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.003	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	0.003	0.005	0.005
1,1,1-TCE	mg/L	<0.001	<0.010	<0.001	<0.001

Well: SRW 14B, Silverton Road Waste Site

SRP Grid	N 102836.1			ft (msl)
Coordinates	E 41548.1	Screen Zone Elevation		162.9 - 153.1
Latitude	33.320972° N	Top of Casing Elevation		326.9
Longitude	81.757193° W	Casing Material		PVC

Parameter	Units	03/20/88	05/03/88	08/07/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.3	206.6	205.7	205.1
pH	pH	5.6	5.5	5.2	5.4
Conductivity	µmhos/cm	26	25	25	23
Alkalinity	mg/L	3	3	3	3
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	1.5	-	-	-
Total Radium	pCi/L	<1.0	-	1.3	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.009	-	0.046	-
Lead	mg/L	<0.006	-	0.009	-
Manganese	mg/L	0.008	-	0.011	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.51	-	-	-
Zinc	mg/L	0.019	-	0.054	-
Nitrate (as N)	mg/L	0.91	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.000
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.000
Trichloroethylene	mg/L	<0.001	<0.001	0.001	0.000
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.000

Well: SRW 14C, Silverton Road Waste Site

SRP Grid	N 102824.2			ft (msl)
Coordinates	E 41546.4	Screen Zone Elevation		228.3 - 198.6
Latitude	33.320943° N	Top of Casing Elevation		326.9
Longitude	81.757174° W	Casing Material		PVC

Parameter	Units	03/20/88	05/03/88	08/07/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.6	5.3	5.0	4.9
Conductivity	µmhos/cm	20	17	18	21
Alkalinity	mg/L	2	2	2	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	0.5	-
Arsenic	mg/L	<0.002	-	-	-
Iron	mg/L	0.015	-	0.062	-
Lead	mg/L	0.011	-	0.019	-
Manganese	mg/L	0.016	-	0.022	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.59	-	-	-
Zinc	mg/L	0.164	-	0.206	-
Nitrate (as N)	mg/L	0.45	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS, CONT'D.

Well: SRW 15A, Silverton Road Waste Site

SRP Grid	N	104778.0		ft (msl)
Coordinates	E	41234.7	Screen Zone Elevation	107.6 - 97.8
Latitude		33.324752° N	Top of Casing Elevation	319.1
Longitude		81.761797° W	Casing Material	PVC

Parameter	Units	03/20/88	05/07/88	08/07/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.7	211	209.8	209.7
pH	pH	5.3	5.7	5.5	5.5
Conductivity	µmhos/cm	29	26	26	26
Alkalinity	mg/L	4	4	3	3
Gross Alpha	pCi/L	< 3.0	-	-	-
Nonvolatile Beta	pCi/L	2.1	-	-	-
Total Radium	pCi/L	0.8	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.055	-	0.071	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.024	-	0.011	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.85	-	-	-
Zinc	mg/L	0.048	-	0.060	-
Nitrate (as N)	mg/L	0.96	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 16A, Silverton Road Waste Site

SRP Grid	N	103763.4		ft (msl)
Coordinates	E	42830.9	Screen Zone Elevation	144.1 - 119.4
Latitude		33.325117° N	Top of Casing Elevation	346.8
Longitude		81.755620° W	Casing Material	PVC

Parameter	Units	03/18/88	11/01/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	217.7	213.8
pH	pH	-	6.7
Conductivity	µmhos/cm	-	181
Alkalinity	mg/L	-	53
Gross Alpha	pCi/L	-	-
Nonvolatile Beta	pCi/L	-	-
Total Radium	pCi/L	-	-
Arsenic	mg/L	-	-
Iron	mg/L	-	-
Lead	mg/L	-	-
Manganese	mg/L	-	-
Silver	mg/L	-	-
Sodium	mg/L	-	-
Zinc	mg/L	-	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Tot. Org. Carbon	mg/L	-	-
Tot. Org. Halogens	mg/L	-	-
Carbon Tetrachloride	mg/L	-	-
Chloroform	mg/L	-	< 0.010
Tetrachloroethylene	mg/L	-	< 0.010
Trichloroethylene	mg/L	-	< 0.010
1,1,1-TCE	mg/L	-	0.012

Well: SRW 15B, Silverton Road Waste Site

SRP Grid	N	104772.9		ft (msl)
Coordinates	E	41252.5	Screen Zone Elevation	161.6 - 151.8
Latitude		33.324770° N	Top of Casing Elevation	319.1
Longitude		81.761740° W	Casing Material	PVC

Parameter	Units	03/20/88	05/07/88	08/07/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.8	211.1	210.2	209.8
pH	pH	5.4	5.4	5.5	5.1
Conductivity	µmhos/cm	21	22	19	18
Alkalinity	mg/L	2	1	2	1
Gross Alpha	pCi/L	3.8	-	-	-
Nonvolatile Beta	pCi/L	4.2	-	-	-
Total Radium	pCi/L	1.9	-	0.7	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.014	-	0.031	-
Lead	mg/L	0.061	-	0.011	-
Manganese	mg/L	0.003	-	0.004	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.45	-	-	-
Zinc	mg/L	0.016	-	0.028	-
Nitrate (as N)	mg/L	0.49	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 16B, Silverton Road Waste Site

SRP Grid	N	103772.0		ft (msl)
Coordinates	E	42825.8	Screen Zone Elevation	169.9 - 160.1
Latitude		33.325128° N	Top of Casing Elevation	346.8
Longitude		81.755650° W	Casing Material	PVC

Parameter	Units	03/18/88	05/11/88	08/07/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.8	216.9	216.1	215.8
pH	pH	5.2	5.0	5.2	5.2
Conductivity	µmhos/cm	20	19	22	18
Alkalinity	mg/L	2	1	1	1
Gross Alpha	pCi/L	2.7	-	-	-
Nonvolatile Beta	pCi/L	3.8	-	-	-
Total Radium	pCi/L	1.7	-	1.2	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.008	-	0.034	-
Lead	mg/L	0.015	-	0.007	-
Manganese	mg/L	0.019	-	0.016	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.66	-	-	-
Zinc	mg/L	0.036	-	0.046	-
Nitrate (as N)	mg/L	0.81	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 15C, Silverton Road Waste Site

SRP Grid	N	104774.9		ft (msl)
Coordinates	E	41245.1	Screen Zone Elevation	217.3 - 187.7
Latitude		33.324762° N	Top of Casing Elevation	319.1
Longitude		81.761763° W	Casing Material	PVC

Parameter	Units	03/20/88	05/07/88	08/07/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.5	214.7	213.7	213.4
pH	pH	5.5	5.4	5.3	5.0
Conductivity	µmhos/cm	22	18	19	18
Alkalinity	mg/L	3	1	1	1
Gross Alpha	pCi/L	1.5	-	-	-
Nonvolatile Beta	pCi/L	2.8	-	-	-
Total Radium	pCi/L	1.0	-	0.6	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	0.007	-	0.021	-
Lead	mg/L	< 0.006	-	0.007	-
Manganese	mg/L	0.007	-	0.006	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.61	-	-	-
Zinc	mg/L	0.023	-	0.034	-
Nitrate (as N)	mg/L	0.67	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: SRW 16C, Silverton Road Waste Site

SRP Grid	N	103772.4		ft (msl)
Coordinates	E	42841.8	Screen Zone Elevation	235.7 - 205.7
Latitude		33.325155° N	Top of Casing Elevation	346.6
Longitude		81.755609° W	Casing Material	PVC

Parameter	Units	03/18/88	05/11/88	08/07/88	10/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.5	217.8	216.8	216.4
pH	pH	5.1	4.9	5.1	5.2
Conductivity	µmhos/cm	19	17	18	16
Alkalinity	mg/L	1	0	0	1
Gross Alpha	pCi/L	5.0	-	-	-
Nonvolatile Beta	pCi/L	5.3	-	-	-
Total Radium	pCi/L	1.2	-	1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Iron	mg/L	< 0.004	-	0.006	-
Lead	mg/L	0.013	-	0.006	-
Manganese	mg/L	0.076	-	0.009	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.48	-	-	-
Zinc	mg/L	0.011	-	0.013	-
Nitrate (as N)	mg/L	0.43	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-10
GROUNDWATER MONITORING RESULTS FROM THE SILVERTON ROAD WASTE SITE WELLS, CONT'D.

Other Analyses

SRW 6	08/03/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 7	08/03/88	
trans-1,2-Dichloroethene		<0.0025 mg/L
1,1-Dichloroethylene		<0.0025 mg/L
SRW 8	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 9	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 9A	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 9A	10/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 9B	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 9B	10/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 10	08/03/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 11	08/03/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12A	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12A	10/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12B	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12B	10/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12C	08/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 12C	10/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 13A	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 13A	10/20/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
SRW 13B	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 13B	10/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 13C	08/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 13C	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 14A	08/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 14A	10/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 14B	08/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 14B	10/20/88	
trans-1,2-Dichloroethene		<0.00025 mg/L
1,1-Dichloroethylene		<0.00025 mg/L
SRW 14C	08/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 14C	10/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
SRW 16A	11/01/88	
trans-1,2-Dichloroethene		<0.01 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.01 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-11
MAXIMUM CONSTITUENT LEVELS AT C AREA

Constituent	DWS	Units	CRP	CDB	CSB	CCB
Gross Alpha	15	pCi/L	9	2.3	1.26	-
Nonvolatile Beta	-	pCi/L	< 2	5.9	172	-
Total Radium	5	pCi/L	0.8	1.4	0.88	-
Tritium	20	pCi/mL	**259**	**433**	**861**	10.8
Arsenic	0.05	mg/L	< 0.002	-	< 0.002	-
Barium	1	mg/L	-	-	0.277	-
Cadmium	0.01	mg/L	-	-	< 0.002	-
Chromium	0.05	mg/L	**0.101**	-	**0.089**	-
Lead	0.05	mg/L	**0.108**	**0.157**	**0.145**	-
Mercury	0.002	mg/L	-	-	< 0.0002	-
Selenium	0.01	mg/L	-	-	< 0.002	-
Silver	0.05	mg/L	< 0.002	-	0.003	-
Nitrate (as N)	10	mg/L	1.06	-	-	-
Carbon Tetrachloride	0.005	mg/L	< 0.001	-	< 0.001	-
Chloroform	0.1*	mg/L	< 0.001	-	0.004	-
Trichloroethylene	0.005	mg/L	**13.7**	-	**3.44**	-
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	-	< 0.001	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

CRP = C-Area Burning/Rubble Pit Wells
CDB = C-Area Disassembly Basin Wells
CSB = C-Area Reactor Seepage Basins Wells
CCB = C-Area Coal Pile Runoff Containment Basin Wells

TABLE 5-12
GROUNDWATER MONITORING RESULTS FROM THE C-AREA BURNING/RUBBLE PIT WELLS

Well: CRP 1, C-Area Burning/Rubble Pit

SRP Grid	N 68617.7		ft (msl)
Coordinates	E 44372.2	Screen Zone Elevation	217.8 - 187.8
Latitude	33.249932° N	Top of Casing Elevation	274.6
Longitude	81.683240° W	Casing Material	PVC

Parameter	Units	03/09/88	05/30/88	09/13/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.3	206.4	205.7	205.1
pH	pH	5.8	6.0	6.0	6.1
Conductivity	µmhos/cm	50	52	45	46
Alkalinity	mg/L	12	15	14	6
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	62.2	-	79.0	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	5.70	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L				0.010
Potassium	mg/L	<0.500	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.67	-	-	-
Nitrate (as N)	mg/L	-	-	-	1.00
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.269	-	0.522	-
Carbon Tetrachloride	mg/L	<0.025	-	<0.025	-
Chloroform	mg/L	<0.025	-	<0.025	-
Tetrachloroethylene	mg/L	<0.001	-	<0.025	-
Trichloroethylene	mg/L	<0.025	-	0.648	-
1,1,1-TCE	mg/L	<0.025	-	<0.025	-

Well: CRP 2, C-Area Burning/Rubble Pit

SRP Grid	N 69043.0		ft (msl)
Coordinates	E 44336.4	Screen Zone Elevation	201.8 - 171.8
Latitude	33.250814° N	Top of Casing Elevation	278.7
Longitude	81.684160° W	Casing Material	PVC

Parameter	Units	03/09/88	05/30/88	09/13/88	12/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	206.3	205.5	204.9	204.5
pH	pH	5.1	5.2	5.4	5.3
Conductivity	µmhos/cm	17	15	14	85
Alkalinity	mg/L	1	2	1	1
Gross Alpha	pCi/L	<3.0	-	0.1	0.3
Nonvolatile Beta	pCi/L	<2.0	-	0.6	1.1
Total Radium	pCi/L	0.8	-	-	-
Tritium	pCi/mL	343	-	259	404
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.690	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Lead	mg/L	0.010	-	0.012	-
Manganese	mg/L	-	-	-	0.007
Potassium	mg/L	<0.500	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.28	-	-	-
Nitrate (as N)	mg/L	-	-	-	0.30
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.008	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	0.003	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: CRP 3, C-Area Burning/Rubble Pit

SRP Grid	N 68665.5		ft (msl)
Coordinates	E 44001.0	Screen Zone Elevation	214.0 - 184.0
Latitude	33.249432° N	Top of Casing Elevation	265.8
Longitude	81.684309° W	Casing Material	PVC

Parameter	Units	03/09/88	05/31/88	09/14/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	204.6	-	-
pH	pH	11.4	11.8	10.9	12.1
Conductivity	µmhos/cm	1050	1647	1650	2400
Alkalinity	mg/L	256	375	342	430
Gross Alpha	pCi/L	9.0	-	-	-
Nonvolatile Beta	pCi/L	<8.0	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	17.4	-	14.3	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	105	-	-	-
Chromium	mg/L	0.062	-	0.101	-
Lead	mg/L	0.108	-	0.041	-
Manganese	mg/L			-	<0.002
Potassium	mg/L	2.69	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	5.31	-	-	-
Nitrate (as N)	mg/L	-	-	-	2.11
Sulfate	mg/L	6.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	1.20	-	-	-
Tot. Org. Halogens	mg/L	2.34	-	7.75	-
Carbon Tetrachloride	mg/L	<0.100	-	<0.001	-
Chloroform	mg/L	<0.100	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	0.002	-
Trichloroethylene	mg/L	<0.100	-	13.7	-
1,1,1-TCE	mg/L	<0.100	-	<0.001	-

Well: CRP 4, C-Area Burning/Rubble Pit

SRP Grid	N 68447.4		ft (msl)
Coordinates	E 44101.2	Screen Zone Elevation	210.7 - 180.7
Latitude	33.249113° N	Top of Casing Elevation	267.7
Longitude	81.683622° W	Casing Material	PVC

Parameter	Units	03/09/88	05/30/88	09/13/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207	205.8	205.3	204.6
pH	pH	5.2	5.3	5.4	5.4
Conductivity	µmhos/cm	21	20	20	20
Alkalinity	mg/L	2	2	2	0
Gross Alpha	pCi/L	1.6	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	14.3	-	9.58	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	1.33	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Lead	mg/L	0.025	-	<0.006	-
Manganese	mg/L	-	-	-	0.004
Potassium	mg/L	<0.500	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.55	-	-	-
Nitrate (as N)	mg/L	-	-	-	0.51
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-13
GROUNDWATER MONITORING RESULTS FROM THE C-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: CCB 1, C-Area Coal Pile Runoff Containment Basin

SRP Grid	N 65438.5		ft (msl)
Coordinates	E 46990.1	Screen Zone Elevation	228.4 - 198.4
Latitude	33.247174° N	Top of Casing Elevation	278.6
Longitude	81.670175° W	Casing Material	PVC

Parameter	Units	02/23/88	06/11/88	09/25/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224	222.7	221.8	221
pH	pH	4.8	5.0	4.5	4.6
Conductivity	µmhos/cm	28	16	18	24
Alkalinity	mg/L	0	0	0	0
Tritium	pCi/mL	9.70	-	-	-
Chloride	mg/L	1.4	-	-	-
Copper	mg/L	0.017	0.012	-	-
Iron	mg/L	0.020	0.117	-	-
Zinc	mg/L	-	0.053	-	-
Sulfate	mg/L	<5.0	<5.0	-	-

Well: CCB 2, C-Area Coal Pile Runoff Containment Basin

SRP Grid	N 65306.1		ft (msl)
Coordinates	E 46893.6	Screen Zone Elevation	228.6 - 198.6
Latitude	33.246723° N	Top of Casing Elevation	270.4
Longitude	81.670172° W	Casing Material	PVC

Parameter	Units	02/23/88	06/11/88	09/26/88	11/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.4	223.4	222.5	221.8
pH	pH	4.6	5.0	-	5.7
Conductivity	µmhos/cm	28	24	-	46
Alkalinity	mg/L	0	0	-	9
Tritium	pCi/mL	10.0	-	-	-
Chloride	mg/L	1.5	-	-	-
Copper	mg/L	0.007	0.088	-	-
Iron	mg/L	0.023	0.044	-	-
Zinc	mg/L	-	0.026	-	-
Sulfate	mg/L	<5.0	<5.0	-	-

Well: CCB 3, C-Area Coal Pile Runoff Containment Basin

SRP Grid	N 65187.5		ft (msl)
Coordinates	E 47006.6	Screen Zone Elevation	235.6 - 205.6
Latitude	33.246645° N	Top of Casing Elevation	267.4
Longitude	81.669645° W	Casing Material	PVC

Parameter	Units	02/23/88	06/11/88	09/25/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.4	223.4	222.6	222.2
pH	pH	4.9	5.0	4.7	4.6
Conductivity	µmhos/cm	20	17	18	20
Alkalinity	mg/L	0	0	0	0
Tritium	pCi/mL	8.30	-	-	-
Chloride	mg/L	1.3	-	-	-
Copper	mg/L	0.040	0.030	-	-
Iron	mg/L	0.039	0.084	-	-
Zinc	mg/L	-	0.025	-	-
Sulfate	mg/L	<5.0	<5.0	-	-

Well: CCB 4, C-Area Coal Pile Runoff Containment Basin

SRP Grid	N 65310.2		ft (msl)
Coordinates	E 47181.6	Screen Zone Elevation	241.2 - 211.2
Latitude	33.247202° N	Top of Casing Elevation	283.0
Longitude	81.669422° W	Casing Material	PVC

Parameter	Units	02/23/88	06/11/88	09/25/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226	225	224.2	223.9
pH	pH	4.9	5.0	4.9	4.6
Conductivity	µmhos/cm	24	14	15	16
Alkalinity	mg/L	1	1	0	0
Tritium	pCi/mL	10.8	-	-	-
Chloride	mg/L	1.3	-	-	-
Copper	mg/L	0.006	0.026	-	-
Iron	mg/L	0.021	0.156	-	-
Zinc	mg/L	-	0.027	-	-
Sulfate	mg/L	<5.0	<5.0	-	-

TABLE 5-14
GROUNDWATER MONITORING RESULTS FROM THE C-AREA DISASSEMBLY BASIN WELLS

Well: CDB 1, C-Area Disassembly Basin

SRP Grid	N 67514.6		ft (msl)
Coordinates	E 45685.5	Screen Zone Elevation	216.6 - 195.7
Latitude	33.249636° N	Top of Casing Elevation	288.9
Longitude	81.677641° W	Casing Material	PVC

Parameter	Units	03/15/88	06/14/88	09/12/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.1	211.3	210.7	210.2
pH	pH	5.8	5.6	5.8	5.7
Conductivity	µmhos/cm	84	87	122	106
Alkalinity	mg/L	14	16	36	36
Gross Alpha	pCi/L	2.3	-	1.5	-
Nonvolatile Beta	pCi/L	5.9	-	4.6	-
Total Radium	pCi/L	1.4	-	1.0	-
Tritium	pCi/mL	178	-	114	-
Iron	mg/L	0.147	-	0.619	-
Lead	mg/L	0.156	-	0.029	-
Manganese	mg/L	0.117	-	0.150	-
Sodium	mg/L	4.57	-	-	-
Sulfate	mg/L	< 5.0	-	-	-

Well: CDB 2, C-Area Disassembly Basin

SRP Grid	N 67415.3		ft (msl)
Coordinates	E 45617.7	Screen Zone Elevation	216.1 - 195.1
Latitude	33.249306° N	Top of Casing Elevation	288.6
Longitude	81.677626° W	Casing Material	PVC

Parameter	Units	03/15/88	06/14/88	09/12/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.3	211.4	210.9	210.3
pH	pH	5.4	5.2	5.1	4.9
Conductivity	µmhos/cm	66	77	78	89
Alkalinity	mg/L	6	4	10	5
Gross Alpha	pCi/L	1.7	-	0.8	-
Nonvolatile Beta	pCi/L	3.7		2.5	
Total Radium	pCi/L	0.7	-	1.0	-
Tritium	pCi/mL	370	-	433	-
Iron	mg/L	0.042	-	0.048	-
Lead	mg/L	0.157	-	0.046	-
Manganese	mg/L	0.060	-	0.042	-
Sodium	mg/L	10.2	-	-	-
Sulfate	mg/L	11.0	-	-	-

TABLE 5-15
GROUNDWATER MONITORING RESULTS FROM THE C-AREA REACTOR SEEPAGE BASINS WELLS

Well: CSB 1A, C-Area Reactor Seepage Basins

SRP Grid	N 67593.0		
Coordinates	E 44974.0	Screen Zone Elevation	ft (msl) 224.9 - 194.9
Latitude	33.248648° N	Top of Casing Elevation	291.8
Longitude	81.679666° W	Casing Material	PVC

Parameter	Units	03/09/88	06/02/88	09/18/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210	209.1	208.5	-
pH	pH	11.3	11.1	11.6	11.7
Conductivity	µmhos/cm	870	645	870	830
Alkalinity	mg/L	196	121	115	177
Gross Alpha	pCi/L	0.0	0.1	0.3	0.2
Nonvolatile Beta	pCi/L	172	1.0	0.4	0.8
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	37.6	44.6	17.6	66.7
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	-	0.015	0.012	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	79.2	116	83.0	-
Chromium	mg/L	0.058	0.089	0.066	-
Copper	mg/L	-	0.137	0.103	-
Iron	mg/L	0.006	0.808	5.30	-
Lead	mg/L	0.023	0.145	0.142	-
Manganese	mg/L	< 0.002	0.003	0.036	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	0.004	0.012	-
Potassium	mg/L	2.97	2.00	1.00	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	0.0030	< 0.0020	-
Sodium	mg/L	4.50	3.05	2.53	-
Zinc	mg/L	-	0.033	0.033	-
Sulfate	mg/L	10.0	-	-	-
Phenols	mg/L	0.027	-	-	-
Tot. Org. Carbon	mg/L	1.10	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.018	-	0.083	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.007	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CSB 3A, C-Area Reactor Seepage Basins

SRP Grid	N 67385.6		
Coordinates	E 44648.3	Screen Zone Elevation	ft (msl) 223.0 - 193.0
Latitude	33.247658° N	Top of Casing Elevation	284.9
Longitude	81.680120° W	Casing Material	PVC

Parameter	Units	03/09/88	06/09/88	09/18/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.7	207.9	207.3	206.8
pH	pH	6.1	5.8	5.7	5.9
Conductivity	µmhos/cm	38	57	33	32
Alkalinity	mg/L	10	9	7	7
Gross Alpha	pCi/L	0.6	0.2	0.1	1.2
Nonvolatile Beta	pCi/L	< 2.0	0.3	1.5	1.6
Total Radium	pCi/L	< 1.0	-	0.4	-
Tritium	pCi/mL	37100	46300	27700	32300
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	4.03	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	-	-	-	-
Iron	mg/L	0.025	-	-	-
Lead	mg/L	0.039	-	0.054	-
Manganese	mg/L	0.014	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	2.43	-	-	-
Zinc	mg/L	-	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.090	-	32.1	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	0.211	-	0.162	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CSB 2A, C-Area Reactor Seepage Basins

SRP Grid	N 67310.2		
Coordinates	E 44802.6	Screen Zone Elevation	ft (msl) 222.6 - 192.6
Latitude	33.247743° N	Top of Casing Elevation	284.6
Longitude	81.679567° W	Casing Material	PVC

Parameter	Units	03/09/88	06/09/88	09/18/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.2	208.4	207.8	207.6
pH	pH	6.3	5.8	6.2	6.0
Conductivity	µmhos/cm	64	78	74	72
Alkalinity	mg/L	19	22	22	22
Gross Alpha	pCi/L	0.5	0.5	0.6	0.5
Nonvolatile Beta	pCi/L	< 2.0	1.9	2.2	0.8
Total Radium	pCi/L	< 1.0	-	0.9	-
Tritium	pCi/mL	61.7	94.4	73.1	89.1
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	4.74	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	-	-	-	-
Iron	mg/L	0.026	-	-	-
Lead	mg/L	0.077	-	0.086	-
Manganese	mg/L	0.025	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	0.730	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	3.77	-	-	-
Zinc	mg/L	-	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.129	-	7.32	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	0.004	-
Tetrachloroethylene	mg/L	< 0.001	-	0.003	-
Trichloroethylene	mg/L	0.105	-	3.44	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CSB 4A, C-Area Reactor Seepage Basins

SRP Grid	N 67561.8		
Coordinates	E 44618.5	Screen Zone Elevation	ft (msl) 218.0 - 188.0
Latitude	33.247999° N	Top of Casing Elevation	285.1
Longitude	81.680541° W	Casing Material	PVC

Parameter	Units	03/09/88	06/08/88	09/17/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.2	207.9	207.3	206.9
pH	pH	5.9	5.7	5.3	5.6
Conductivity	µmhos/cm	53	52	39	34
Alkalinity	mg/L	14	7	16	13
Gross Alpha	pCi/L	1.0	0.1	0.5	1.3
Nonvolatile Beta	pCi/L	3.2	1.3	0.6	2.0
Total Radium	pCi/L	< 1.0	-	0.9	-
Tritium	pCi/mL	86100	32200	32900	32500
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	3.18	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	-	-	-	-
Iron	mg/L	0.037	-	-	-
Lead	mg/L	< 0.006	-	0.016	-
Manganese	mg/L	0.042	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	0.592	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	5.13	-	-	-
Zinc	mg/L	-	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.838	-	30.3	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	0.002	-
Tetrachloroethylene	mg/L	< 0.001	-	0.003	-
Trichloroethylene	mg/L	0.422	-	1.74	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-15
GROUNDWATER MONITORING RESULTS FROM THE C-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: CSB 5A, C-Area Reactor Seepage Basins

SRP Grid	N 67751.6		ft (msl)
Coordinates	E 44618.9	Screen Zone Elevation	215.9 - 185.9
Latitude	33.248420° N	Top of Casing Elevation	282.8
Longitude	81.680908° W	Casing Material	PVC

Parameter	Units	03/09/88	06/09/88	09/18/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.8	208	207.3	206.9
pH	pH	10.6	11.2	10.9	11.3
Conductivity	µmhos/cm	398	535	310	350
Alkalinity	mg/L	87	87	70	81
Gross Alpha	pCi/L	0.2	0.2	0.0	0.3
Nonvolatile Beta	pCi/L	9.5	3.1	2.3	2.3
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	3030	4660	5690	6510
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	23.5	-	-	-
Chromium	mg/L	0.006	-	0.006	-
Copper	mg/L	-	-	-	-
Iron	mg/L	0.008	-	-	-
Lead	mg/L	0.007	-	0.014	-
Manganese	mg/L	< 0.002	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	3.89	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	4.07	-	-	-
Zinc	mg/L	-	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	0.008	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.266	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	0.024	-	0.012	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Other Analyses

CSB 1A	06/02/88	
Turbidity		9.95 NTU
Turbidity		9.11 NTU
CSB 6A	06/01/88	
Turbidity		3.26 NTU

Well: CSB 6A, C-Area Reactor Seepage Basins

SRP Grid	N 67812.4		ft (msl)
Coordinates	E 44863.8	Screen Zone Elevation	219.8 - 189.8
Latitude	33.248954° N	Top of Casing Elevation	286.8
Longitude	81.680382° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/17/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.7	208.8	208.2	207.8
pH	pH	6.5	6.3	6.0	6.3
Conductivity	µmhos/cm	94	100	87	92
Alkalinity	mg/L	37	30	21	27
Gross Alpha	pCi/L	0.3	0.1	0.2	0.4
Nonvolatile Beta	pCi/L	4.4	2.2	1.1	0.1
Total Radium	pCi/L	< 1.0	-	0.6	-
Tritium	pCi/mL	2130	3870	756	653
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	-	0.010	0.277	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	19.7	14.3	12.4	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	-	0.005	0.008	-
Iron	mg/L	0.014	0.011	0.225	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	-
Manganese	mg/L	0.007	0.007	0.010	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	< 0.004	< 0.004	-
Potassium	mg/L	0.632	0.571	0.530	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	3.09	2.99	2.70	-
Zinc	mg/L	-	0.008	0.013	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	0.006	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.010	-	0.634	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.004	-	0.003	-
Trichloroethylene	mg/L	0.004	-	0.007	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-16
MAXIMUM CONSTITUENT LEVELS AT CENTRAL SHOPS AREA

Constituent	DWS	Units	CSA	CSO	CSR	HXB
Gross Alpha	15	pCi/L	1.5	-	7.3	-
Nonvolatile Beta	-	pCi/L	2	-	9.6	-
Tritium	20	pCi/mL	-	-	**236**	-
Barium	1	mg/L	-	0.054	-	-
Cadmium	0.01	mg/L	0.002	-	-	-
Fluoride	4	mg/L	0.1	-	-	-
Lead	0.05	mg/L	0.006	0.021	0.01	-
Silver	0.05	mg/L	-	-	-	<0.002
Nitrate (as N)	10	mg/L	4.36	-	0.87	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

CSA = Central Shops Hydrofluoric Acid Spill Area Wells
CSO = Fire Department Training Facility Wells
CSR = Central Shops Burning/Rubble Pits Wells
HXB = Ford Building Seepage Basin Wells

TABLE 5-17
GROUNDWATER MONITORING RESULTS FROM THE CENTRAL SHOPS BURNING/RUBBLE PITS WELLS

Well: CSR 1, Central Shops Burning/Rubble Pits

SRP Grid	N 64413.1		ft (msl)
Coordinates	E 52804.3	Screen Zone Elevation	267.2 - 237.2
Latitude	33.254392° N	Top of Casing Elevation	274.1
Longitude	81.652880° W	Casing Material	PVC

Parameter	Units	03/04/88	05/24/88	09/04/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	256.4	255.8	254.9	254
pH	pH	4.8	4.8	4.8	4.6
Conductivity	µmhos/cm	35	29	30	33
Alkalinity	mg/L	1	0	1	0
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	10.1	-	5.95	-
Copper	mg/L	< 0.004	-	-	-
Iron	mg/L	0.045	-	0.618	-
Lead	mg/L	0.010	-	0.008	-
Nickel	mg/L	0.004	-	-	-
Nitrate (as N)	mg/L	0.61	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	1.10	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-

Well: CSR 2, Central Shops Burning/Rubble Pits

SRP Grid	N 64733.2		ft (msl)
Coordinates	E 53525.1	Screen Zone Elevation	285.5 - 255.5
Latitude	33.256276° N	Top of Casing Elevation	297.7
Longitude	81.651604° W	Casing Material	PVC

Parameter	Units	03/04/88	05/24/88	09/05/88	12/21/88
Sampling Method	NA	Pump			
Water Elevation	ft	259.7	-	-	-
pH	pH	5.1	-	-	-
Conductivity	µmhos/cm	46	-	-	-
Alkalinity	mg/L	1	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	7.50	-	-	-
Copper	mg/L	0.009	-	-	-
Iron	mg/L	0.071	-	-	-
Lead	mg/L	< 0.006	-	-	-
Nickel	mg/L	0.006	-	-	-
Nitrate (as N)	mg/L	0.20	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-

Well: CSR 3, Central Shops Burning/Rubble Pits

SRP Grid	N 65234.8		ft (msl)
Coordinates	E 53229.9	Screen Zone Elevation	268.1 - 238.1
Latitude	33.256904° N	Top of Casing Elevation	285.2
Longitude	81.653355° W	Casing Material	PVC

Parameter	Units	03/04/88	05/25/88	09/05/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	255	254.3	253.3	252.3
pH	pH	5.1	5.0	5.6	4.5
Conductivity	µmhos/cm	20	19	37	23
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	9.70	-	3.69	-
Copper	mg/L	0.007	-	-	-
Iron	mg/L	0.071	-	0.183	-
Lead	mg/L	0.009	-	< 0.006	-
Nickel	mg/L	0.004	-	-	-
Nitrate (as N)	mg/L	0.38	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-

Well: CSR 4, Central Shops Burning/Rubble Pits

SRP Grid	N 64412.8		ft (msl)
Coordinates	E 53214.4	Screen Zone Elevation	267.6 - 237.6
Latitude	33.255060° N	Top of Casing Elevation	284.7
Longitude	81.651800° W	Casing Material	PVC

Parameter	Units	03/04/88	05/24/88	09/05/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	256.8	256	255	254
pH	pH	4.7	5.2	5.0	4.7
Conductivity	µmhos/cm	25	25	47	27
Alkalinity	mg/L	1	1	1	1
Gross Alpha	pCi/L	7.3	-	0.6	-
Nonvolatile Beta	pCi/L	9.6	-	1.4	-
Tritium	pCi/mL	236	-	3.02	-
Copper	mg/L	0.008	-	-	-
Iron	mg/L	0.041	-	0.055	-
Lead	mg/L	< 0.006	-	0.006	-
Nickel	mg/L	< 0.004	-	-	-
Nitrate (as N)	mg/L	0.87	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-

TABLE 5-18
GROUNDWATER MONITORING RESULTS FROM THE FIRE DEPARTMENT TRAINING FACILITY WELLS

Well: CSO 1, Fire Department Training Facility

SRP Grid	N 61071.1		ft (msl)
Coordinates	E 52484.2	Screen Zone Elevation	262.0 - 232.0
Latitude	33.246477° N	Top of Casing Elevation	303.9
Longitude	81.647234° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	252.5	251.5	250.8	250
pH	pH	4.7	4.8	4.8	4.7
Conductivity	µmhos/cm	40	45	43	51
Alkalinity	mg/L	1	1	1	0
Tritium	pCi/mL	5.40	-	-	-
Barium	mg/L	0.054	-	-	-
Lead	mg/L	<0.006	-	0.021	-

Well: CSO 2, Fire Department Training Facility

SRP Grid	N 61114.3		ft (msl)
Coordinates	E 52559.0	Screen Zone Elevation	239.7 - 209.7
Latitude	33.246695° N	Top of Casing Elevation	301.9
Longitude	81.647121° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	252.8	251.6	251	250.1
pH	pH	5.0	4.8	4.6	4.6
Conductivity	µmhos/cm	27	32	31	35
Alkalinity	mg/L	1	1	1	0
Tritium	pCi/mL	5.90	-	-	-
Barium	mg/L	0.036	-	-	-
Lead	mg/L	<0.006	-	0.016	-

TABLE 5-19
GROUNDWATER MONITORING RESULTS FROM THE FORD BUILDING SEEPAGE BASIN WELLS

Well: HXB 1, Ford Building Seepage Basin

SRP Grid	N 60549.7		ft (msl)
Coordinates	E 52557.8	Screen Zone Elevation	244.2 - 214.2
Latitude	33.245444° N	Top of Casing Elevation	306.2
Longitude	81.646028° W	Casing Material	PVC

Parameter	Units	01/28/88	05/14/88	08/16/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	251.2	250.3	249.4	248.9
pH	pH	4.8	4.8	4.7	4.9
Conductivity	µmhos/cm	23	27	27	27
Alkalinity	mg/L	0	0	0	0
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-

Well: HXB 2, Ford Building Seepage Basin

SRP Grid	N 60866.5		ft (msl)
Coordinates	E 52892.8	Screen Zone Elevation	242.1 - 212.1
Latitude	33.246691° N	Top of Casing Elevation	304.4
Longitude	81.645762° W	Casing Material	PVC

Parameter	Units	01/28/88	06/10/88	08/16/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	252.9	251.1	250.7	249.9
pH	pH	4.9	4.9	4.7	4.9
Conductivity	µmhos/cm	22	36	28	26
Alkalinity	mg/L	1	1	0	0
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-

Well: HXB 3, Ford Building Seepage Basin

SRP Grid	N 60631.2		ft (msl)
Coordinates	E 52707.3	Screen Zone Elevation	242.2 - 212.2
Latitude	33.245868° N	Top of Casing Elevation	304.2
Longitude	81.645793° W	Casing Material	PVC

Parameter	Units	01/28/88	05/14/88	08/16/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	250.8	251.1	250	249.2
pH	pH	4.8	4.9	4.7	4.9
Conductivity	µmhos/cm	22	26	27	25
Alkalinity	mg/L	0	0	0	0
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-

TABLE 5-20
GROUNDWATER MONITORING RESULTS FROM THE HAZARDOUS WASTE STORAGE FACILITY WELLS

Well: HWS 1A, Hazardous Waste Storage Facility at Central Shops

SRP Grid	N 64885.1		ft (msl)
Coordinates	E 50234.8	Screen Zone Elevation	255.2 - 225.2
Latitude	33.251244° N	Top of Casing Elevation	324.6
Longitude	81.660560° W	Casing Material	PVC

Parameter	Units	01/28/88	05/21/88	08/11/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	244.5	244	243.7	243.9
pH	pH	4.6	5.0	4.5	4.6
Conductivity	µmhos/cm	16	21	19	20
Alkalinity	mg/L	0	1	0	0

Well: HWS 2, Hazardous Waste Storage Facility at Central Shops

SRP Grid	N 64786.3		ft (msl)
Coordinates	E 50346.4	Screen Zone Elevation	245.3 - 215.3
Latitude	33.251207° N	Top of Casing Elevation	323.2
Longitude	81.660075° W	Casing Material	PVC

Parameter	Units	01/28/88	05/21/88	08/11/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	245	244.5	244.2	244.3
pH	pH	4.8	5.0	4.5	4.6
Conductivity	µmhos/cm	18	21	26	23
Alkalinity	mg/L	0	1	0	0

TABLE 5-21
GROUNDWATER MONITORING RESULTS FROM THE HYDROFLUORIC ACID SPILL AREA WELLS

Well: CSA 1, Central Shops Hydrofluoric Acid Spill Area

SRP Grid	N 61808.4		ft (msl)
Coordinates	E 50197.0	Screen Zone Elevation	262.0 - 232.0
Latitude	33.244377° N	Top of Casing Elevation	290.8
Longitude	81.654686° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.4	242.2	241.7	241
pH	pH	4.7	4.9	4.6	5.0
Conductivity	µmhos/cm	46	57	50	55
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	1.5	-	-	-
Nonvolatile Beta	pCi/L	1.7	-	-	-
Cadmium	mg/L	0.002	-	<0.002	-
Chloride	mg/L	2.1	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Lead	mg/L	-	-	<0.006	-
Nitrate (as N)	mg/L	3.22	-	-	-

Well: CSA 2, Central Shops Hydrofluoric Acid Spill Area

SRP Grid	N 61761.8		ft (msl)
Coordinates	E 50218.6	Screen Zone Elevation	248.2 - 218.2
Latitude	33.244309° N	Top of Casing Elevation	290.1
Longitude	81.654539° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.7	242.6	242.2	241.2
pH	pH	5.6	5.0	4.6	5.1
Conductivity	µmhos/cm	32	42	39	40
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	1.3	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Chloride	mg/L	1.3	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Lead	mg/L	-	-	<0.006	-
Nitrate (as N)	mg/L	2.70	-	-	-

Well: CSA 3, Central Shops Hydrofluoric Acid Spill Area

SRP Grid	N 61720.2		ft (msl)
Coordinates	E 50173.2	Screen Zone Elevation	248.6 - 218.6
Latitude	33.244143° N	Top of Casing Elevation	289.4
Longitude	81.654578° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.1	241.9	241.4	240.5
pH	pH	4.9	4.9	4.7	5.0
Conductivity	µmhos/cm	39	48	44	45
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	1.4	-	-	-
Nonvolatile Beta	pCi/L	2.0	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Chloride	mg/L	1.4	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Lead	mg/L	-	-	<0.006	-
Nitrate (as N)	mg/L	2.83	-	-	-

Well: CSA 4, Central Shops Hydrofluoric Acid Spill Area

SRP Grid	N 61781.9		ft (msl)
Coordinates	E 50132.7	Screen Zone Elevation	248.4 - 218.4
Latitude	33.244213° N	Top of Casing Elevation	290.4
Longitude	81.654804° W	Casing Material	PVC

Parameter	Units	01/30/88	05/14/88	07/24/88	10/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	242.8	241.7	241.1	240.3
pH	pH	5.0	4.9	4.8	5.1
Conductivity	µmhos/cm	37	47	44	45
Alkalinity	mg/L	2	1	1	1
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Chloride	mg/L	1.7	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Lead	mg/L	-	-	<0.006	-
Nitrate (as N)	mg/L	4.36	-	-	-

TABLE 5-22
MAXIMUM CONSTITUENT LEVELS AT D AREA

Constituent	DWS	Units	DBP	DCB	DOB
Gross Alpha	15	pCi/L	-	**191**	-
Nonvolatile Beta	-	pCi/L	-	145	-
Total Radium	6	pCi/L	-	**48.4**	-
Tritium	20	pCi/mL	-	**261**	-
Arsenic	0.05	mg/L	-	**0.249**	-
Barium	1	mg/L	0.084	0.336	-
Cadmium	0.01	mg/L	-	**0.042**	-
Chromium	0.05	mg/L	-	**0.854**	-
Fluoride	4	mg/L	-	**14.2**	-
Lead	0.05	mg/L	0.006	**0.075**	-
Mercury	0.002	mg/L	-	0.001	-
Selenium	0.01	mg/L	-	**0.027**	-
Silver	0.05	mg/L	-	0.026	-
Nitrate (as N)	10	mg/L	1.98	2.28	-
Carbon Tetrachloride	0.005	mg/L	<0.001	<0.001	<0.001
Chloroform	0.1*	mg/L	<0.001	0.004	<0.001
Trichloroethylene	0.005	mg/L	<0.001	**0.088**	**0.113**
1,1,1-Trichloroethane	0.2	mg/L	<0.001	0.023	<0.001
Benzene	0.005	mg/L	-	<0.01	-
Chloroethene	0.002	mg/L	-	<0.01	-
1,4-Dichlorobenzene	0.075	mg/L	-	-	<0.01
1,2-Dichloroethane	0.005	mg/L	-	<0.005	-
1,1-Dichloroethylene	0.005	mg/L	-	<0.005	-
2,4-D	0.1	mg/L	-	<0.0003	-
Endrin	0.0002	mg/L	-	<0.0001	-
Lindane	0.004	mg/L	-	<0.00001	-
Methoxychlor	0.1	mg/L	-	<0.0005	-
Silvex	0.01	mg/L	-	<0.0001	-
Toxaphene	0.005	mg/L	-	<0.001	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

DBP = D-Area Burning/Rubble Pits Wells
DCB = D-Area Coal Pile Runoff Containment Basin Wells
DOB = D-Area Oil Disposal Basin Wells

TABLE 5-23
GROUNDWATER MONITORING RESULTS FROM THE D-AREA BURNING/RUBBLE PITS WELLS

Well: DBP 1, D-Area Burning/Rubble Pits

SRP Grid	N 66691.4		ft (msl)
Coordinates	E 18661.8	Screen Zone Elevation	123.2 - 93.2
Latitude	33.203695° N	Top of Casing Elevation	135.2
Longitude	81.747129° W	Casing Material	PVC

Parameter	Units	02/11/88	05/21/88	09/03/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	118.2	117.7	115.3	117.1
pH	pH	4.8	5.1	4.6	4.8
Conductivity	µmhos/cm	47	51	46	45
Alkalinity	mg/L	0	1	1	0
Barium	mg/L	0.016	-	-	-
Chloride	mg/L	6.4	-	-	-
Copper	mg/L	-	-	-	0.005
Iron	mg/L	0.041	-	0.065	-
Lead	mg/L	0.006	-	-	-
Manganese	mg/L	0.014	-	0.009	-
Sodium	mg/L	4.92	-	-	-
Nitrate (as N)	mg/L	1.98	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: DBP 2, D-Area Burning/Rubble Pits

SRP Grid	N 66478.2		ft (msl)
Coordinates	E 18407.3	Screen Zone Elevation	114.3 - 84.3
Latitude	33.202609° N	Top of Casing Elevation	126.3
Longitude	81.747384° W	Casing Material	PVC

Parameter	Units	02/10/88	05/21/88	09/03/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	116.9	115.9	113.3	115.8
pH	pH	4.3	4.5	4.1	4.4
Conductivity	µmhos/cm	160	260	171	134
Alkalinity	mg/L	0	0	0	0
Barium	mg/L	0.084	-	-	-
Chloride	mg/L	9.0	-	-	-
Copper	mg/L	-	-	-	0.005
Iron	mg/L	0.030	-	0.295	-
Lead	mg/L	< 0.006	-	-	-
Manganese	mg/L	0.151	-	0.198	-
Sodium	mg/L	10.4	-	-	-
Nitrate (as N)	mg/L	1.35	-	-	-
Sulfate	mg/L	51.0	-	-	-
Tot. Org. Carbon	mg/L	1.60	-	-	-
Tot. Org. Halogens	mg/L	0.072	-	0.095	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: DBP 3, D-Area Burning/Rubble Pits

SRP Grid	N 66775.5		ft (msl)
Coordinates	E 18427.5	Screen Zone Elevation	116.4 - 86.4
Latitude	33.203499° N	Top of Casing Elevation	128.3
Longitude	81.747909° W	Casing Material	PVC

Parameter	Units	02/10/88	05/21/88	09/03/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	120.5	118.2	116.8	120.3
pH	pH	5.4	5.7	5.1	5.5
Conductivity	µmhos/cm	53	51	52	64
Alkalinity	mg/L	5	4	3	1
Barium	mg/L	0.009	-	-	-
Chloride	mg/L	8.1	-	-	-
Copper	mg/L	-	-	-	< 0.004
Iron	mg/L	0.033	-	0.159	-
Lead	mg/L	< 0.006	-	-	-
Manganese	mg/L	0.034	-	0.015	-
Sodium	mg/L	11.0	-	-	-
Nitrate (as N)	mg/L	0.56	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: DBP 4, D-Area Burning/Rubble Pits

SRP Grid	N 66679.6		ft (msl)
Coordinates	E 18342.1	Screen Zone Elevation	114.2 - 84.2
Latitude	33.203147° N	Top of Casing Elevation	126.2
Longitude	81.747947° W	Casing Material	PVC

Parameter	Units	02/10/88	05/21/88	09/03/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	118.9	117.3	114.6	118
pH	pH	4.4	4.6	4.2	4.4
Conductivity	µmhos/cm	125	141	86	127
Alkalinity	mg/L	0	0	0	0
Barium	mg/L	0.047	-	-	-
Chloride	mg/L	7.7	-	-	-
Copper	mg/L	-	-	-	0.007
Iron	mg/L	0.033	-	0.120	-
Lead	mg/L	< 0.006	-	-	-
Manganese	mg/L	0.902	-	0.302	-
Sodium	mg/L	8.90	-	-	-
Nitrate (as N)	mg/L	0.48	-	-	-
Sulfate	mg/L	48.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-24
GROUNDWATER MONITORING RESULTS FROM THE D-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: DCB 1A, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 64028.5 E 19856.3	Screen Zone Elevation	ft (msl) 120.1 - 90.1
Latitude	33.199760° N	Top of Casing Elevation	127.1
Longitude	81.738816° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	114.1	114.5	114.3	113.9
pH	pH	2.4	2.4	1.8	2.1
Conductivity	µmhos/cm	4930	4800	5100	5940
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	78.4	-	74.8	-
Nonvolatile Beta	pCi/L	47.6	-	50.2	-
Total Radium	pCi/L	6.8	-	17.9	-
Tritium	pCi/mL	5.30	-	-	-
Arsenic	mg/L	-	-	<0.020	-
Barium	mg/L	0.013	-	-	-
Beryllium	mg/L	0.064	-	0.071	-
Cadmium	mg/L	0.037	-	0.023	-
Calcium	mg/L	140	-	193	-
Chloride	mg/L	2.0	-	-	-
Chromium	mg/L	0.202	-	0.030	-
Copper	mg/L	0.408	0.457	0.238	-
Fluoride	mg/L	<0.10	-	14.2	-
Iron	mg/L	107	214	198	-
Lead	mg/L	<0.006	-	0.036	-
Magnesium	mg/L	219	-	-	-
Manganese	mg/L	31.5	-	24.8	-
Mercury	mg/L	0.0004	-	<0.0002	-
Nickel	mg/L	1.42	-	1.03	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	0.027	-	<0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0130	-	<0.0020	-
Sodium	mg/L	16.3	-	-	-
Total Phosphates	mg/L	0.040	-	-	-
Zinc	mg/L	7.30	2.60	<0.002	-
Nitrate (as N)	mg/L	0.27	-	-	-
Sulfate	mg/L	4280	4240	3590	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	4.70	-	-	-
Tot. Org. Halogens	mg/L	0.120	-	0.236	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.045	-	0.068	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DCB 3A, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 62674.9 E 20899.9	Screen Zone Elevation	ft (msl) 126.2 - 96.2
Latitude	33.198472° N	Top of Casing Elevation	133.0
Longitude	81.733442° W	Casing Material	PVC

Parameter	Units	03/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	118.9	119.1	118.7	118.5
pH	pH	5.2	5.2	4.7	4.9
Conductivity	µmhos/cm	62	53	136	94
Alkalinity	mg/L	3	1	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	1.7	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	5.50	-	-	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	0.032	-	-	-
Beryllium	mg/L	<0.005	-	<0.005	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	2.25	-	-	-
Chloride	mg/L	5.1	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Copper	mg/L	<0.004	0.006	0.009	-
Fluoride	mg/L	<0.10	-	<0.10	-
Iron	mg/L	0.081	0.521	0.580	-
Lead	mg/L	<0.006	-	0.021	-
Magnesium	mg/L	0.928	-	-	-
Manganese	mg/L	0.070	-	0.277	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	0.026	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.002	-	<0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	5.30	-	-	-
Total Phosphates	mg/L	<0.020	-	-	-
Zinc	mg/L	0.010	0.139	0.018	-
Nitrate (as N)	mg/L	0.59	-	-	-
Sulfate	mg/L	12.0	9.3	33.6	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	3.10	-	-	-
Tot. Org. Halogens	mg/L	0.008	-	0.624	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.003	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DCB 2A, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 63436.1 E 20895.2	Screen Zone Elevation	ft (msl) 127.4 - 97.4
Latitude	33.200147° N	Top of Casing Elevation	134.3
Longitude	81.734933° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	123.1	123.1	123	122.7
pH	pH	5.9	5.0	4.6	4.7
Conductivity	µmhos/cm	52	43	46	54
Alkalinity	mg/L	1	1	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	2.1	-	1.2	-
Nonvolatile Beta	pCi/L	2.6	-	2.9	-
Total Radium	pCi/L	<1.0	-	0.8	-
Tritium	pCi/mL	3.90	-	-	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	0.028	-	-	-
Beryllium	mg/L	<0.005	-	<0.005	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	2.57	-	-	-
Chloride	mg/L	1.5	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Copper	mg/L	0.127	0.295	0.407	-
Fluoride	mg/L	<0.10	-	<0.10	-
Iron	mg/L	0.020	1.00	0.117	-
Lead	mg/L	0.018	-	0.075	-
Magnesium	mg/L	1.04	-	-	-
Manganese	mg/L	0.020	-	0.041	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	0.009	-	<0.004	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.002	-	<0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	0.0020	-
Sodium	mg/L	4.69	-	-	-
Total Phosphates	mg/L	0.090	-	-	-
Zinc	mg/L	0.092	0.094	0.163	-
Nitrate (as N)	mg/L	2.28	-	-	-
Sulfate	mg/L	<5.0	<5.0	9.2	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.019	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.002	-	0.002	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DCB 4A, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 62678.8 E 20493.8	Screen Zone Elevation	ft (msl) 122.5 - 92.5
Latitude	33.197818° N	Top of Casing Elevation	129.5
Longitude	81.734518° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	08/20/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	117.9	118.2	116.8	118
pH	pH	4.3	4.4	4.3	4.0
Conductivity	µmhos/cm	448	490	445	630
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	7.2	-	6.8	-
Nonvolatile Beta	pCi/L	6.9	-	5.7	-
Total Radium	pCi/L	1.3	-	1.2	-
Tritium	pCi/mL	5.50	-	-	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	0.052	-	-	-
Beryllium	mg/L	0.007	-	0.005	-
Cadmium	mg/L	0.003	-	0.003	-
Calcium	mg/L	48.3	-	-	-
Chloride	mg/L	<1.0	-	-	-
Chromium	mg/L	0.009	-	<0.004	-
Copper	mg/L	0.029	0.030	0.030	-
Fluoride	mg/L	0.97	-	1.14	-
Iron	mg/L	0.011	0.245	0.544	-
Lead	mg/L	0.010	-	0.027	-
Magnesium	mg/L	25.0	-	-	-
Manganese	mg/L	0.798	-	0.924	-
Mercury	mg/L	0.0006	-	<0.0002	-
Nickel	mg/L	0.090	-	0.114	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.002	-	<0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0020	-	<0.0020	-
Sodium	mg/L	7.65	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Zinc	mg/L	0.219	0.338	0.266	-
Nitrate (as N)	mg/L	0.78	-	-	-
Sulfate	mg/L	1110	371	275	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.041	-	0.014	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.004	-	0.006	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-24
GROUNDWATER MONITORING RESULTS FROM THE D-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS, CONT'D.

Well: DCB 5A, D-Area Coal Pile Runoff Containment Basin

				ft (msl)
SRP Grid	N 63126.1			
Coordinates	E 20139.8	Screen Zone Elevation		115.9 - 85.9
Latitude	33.198228° N	Top of Casing Elevation		122.9
Longitude	81.736317° W	Casing Material		PVC

Parameter	Units	03/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	117.5	117.9	117.8	117.5
pH	pH	5.1	5.2	5.2	4.9
Conductivity	µmhos/cm	518	490	505	606
Alkalinity	mg/L	2	1	2	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	5.0	-	3.5	-
Total Radium	pCi/L	< 1.0	-	0.7	-
Tritium	pCi/mL	5.70	-	-	-
Arsenic	mg/L	-	-	< 0.002	-
Barium	mg/L	0.047	-	-	-
Beryllium	mg/L	0.007	-	0.006	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	45.5	-	-	-
Chloride	mg/L	2.0	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	0.017	0.011	0.017	-
Fluoride	mg/L	0.54	-	0.36	-
Iron	mg/L	0.044	0.048	0.056	-
Lead	mg/L	< 0.006	-	0.018	-
Magnesium	mg/L	24.2	-	-	-
Manganese	mg/L	0.948	-	0.926	-
Mercury	mg/L	0.0003	-	< 0.0002	-
Nickel	mg/L	0.053	-	0.053	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	4.48	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Zinc	mg/L	0.529	0.101	0.145	-
Nitrate (as N)	mg/L	1.46	-	-	-
Sulfate	mg/L	-	-	213	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	2.10	-	-	-
Tot. Org. Halogens	mg/L	0.023	-	128	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	0.029	-	0.045	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: DCB 7, D-Area Coal Pile Runoff Containment Basin

				ft (msl)
SRP Grid	N 64001.4			
Coordinates	E 20036.3	Screen Zone Elevation		128.9 - 108.9
Latitude	33.199994° N	Top of Casing Elevation		132.8
Longitude	81.738290° W	Casing Material		PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	12/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	116.5	116.7	116.8	115.8
pH	pH	2.9	2.9	2.4	3.2
Conductivity	µmhos/cm	1870	2300	4700	1860
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	1540	1830	3730	-
Gross Alpha	pCi/L	< 10.0	19.1	39.6	-
Nonvolatile Beta	pCi/L	< 12.0	20.9	12.8	-
Total Radium	pCi/L	1.8	3.7	7.4	-
Tritium	pCi/mL	0.90	< 0.70	< 0.70	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	-
Barium	mg/L	0.035	0.021	0.024	-
Beryllium	mg/L	0.101	-	0.380	-
Cadmium	mg/L	0.017	0.014	0.051	-
Calcium	mg/L	82.8	92.2	129	-
Chloride	mg/L	2.0	5.5	8.0	-
Chromium	mg/L	0.223	0.026	0.006	-
Copper	mg/L	0.109	0.289	0.520	-
Fluoride	mg/L	3.90	3.73	4.87	-
Iron	mg/L	37.5	71.6	373	-
Lead	mg/L	< 0.006	0.014	0.063	-
Magnesium	mg/L	67.4	91.4	189	-
Manganese	mg/L	11.9	9.35	23.1	-
Mercury	mg/L	0.0003	0.0003	< 0.0002	-
Nickel	mg/L	0.634	-	1.37	-
Potassium	mg/L	1.35	1.16	2.07	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	17.9	18.9	49.2	-
Silver	mg/L	0.0050	0.0060	0.0080	-
Sodium	mg/L	8.64	7.26	20.1	-
Total Phosphates	mg/L	-	0.200	0.150	-
Zinc	mg/L	-	1.62	5.62	-
Nitrate (as N)	mg/L	< 0.05	0.13	0.16	-
Sulfate	mg/L	1010	1240	2950	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	1.30	3.70	2.20	-
Tot. Org. Halogens	mg/L	0.075	0.104	0.118	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	< 0.005
Chloroform	mg/L	0.004	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	< 0.005
Trichloroethylene	mg/L	0.046	-	0.064	0.067
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	< 0.005

Well: DCB 6, D-Area Coal Pile Runoff Containment Basin

				ft (msl)
SRP Grid	N 64167.9			
Coordinates	E 19979.3	Screen Zone Elevation		129.5 - 109.5
Latitude	33.200269° N	Top of Casing Elevation		133.2
Longitude	81.738763° W	Casing Material		PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	12/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	115.5	115.6	115.7	114.7
pH	pH	3.2	3.3	2.5	3.3
Conductivity	µmhos/cm	3330	3450	3800	3700
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	4050	4160	4180	-
Gross Alpha	pCi/L	23.6	< 22.0	40.8	-
Nonvolatile Beta	pCi/L	32.4	32.4	27.0	-
Total Radium	pCi/L	7.4	4.2	8.8	-
Tritium	pCi/mL	4.90	5.10	1.47	-
Arsenic	mg/L	< 0.002	0.150	0.010	-
Barium	mg/L	0.018	0.018	0.016	-
Beryllium	mg/L	0.019	-	0.021	-
Cadmium	mg/L	0.016	0.020	0.012	-
Calcium	mg/L	427	157	155	-
Chloride	mg/L	8.1	5.0	12.0	-
Chromium	mg/L	0.176	0.060	0.174	-
Copper	mg/L	0.250	0.140	0.209	-
Fluoride	mg/L	< 0.10	5.90	4.87	-
Iron	mg/L	31.0	73.6	17.1	-
Lead	mg/L	0.018	0.022	0.031	-
Magnesium	mg/L	215	2.35	85.0	-
Manganese	mg/L	23.9	21.0	10.1	-
Mercury	mg/L	0.0005	0.0004	< 0.0002	-
Nickel	mg/L	0.778	-	0.481	-
Potassium	mg/L	7.11	6.27	3.28	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	18.3	23.0	56.4	-
Silver	mg/L	0.0100	0.0100	0.0020	-
Sodium	mg/L	31.6	38.0	18.1	-
Total Phosphates	mg/L	-	0.070	0.120	-
Zinc	mg/L	-	2.39	1.08	-
Nitrate (as N)	mg/L	0.06	< 0.05	0.27	-
Sulfate	mg/L	3120	2860	2950	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	3.10	3.10	3.70	-
Tot. Org. Halogens	mg/L	0.189	0.072	0.158	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	< 0.005
Chloroform	mg/L	< 0.001	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	0.001	-	0.002	< 0.010
Trichloroethylene	mg/L	0.042	-	0.050	0.036
1,1,1-TCE	mg/L	0.023	-	< 0.001	< 0.005

Well: DCB 8, D-Area Coal Pile Runoff Containment Basin

				ft (msl)
SRP Grid	N 63473.9			
Coordinates	E 21014.1	Screen Zone Elevation		130.3 - 110.3
Latitude	33.200425° N	Top of Casing Elevation		136.8
Longitude	81.734694° W	Casing Material		PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	124.3	124.4	124.4	123.9
pH	pH	6.5	5.0	5.2	4.7
Conductivity	µmhos/cm	42	34	37	55
Alkalinity	mg/L	2	0	0	0
TDS	mg/L	44	101	41	-
Gross Alpha	pCi/L	0.9	2.2	< 3.0	-
Nonvolatile Beta	pCi/L	2.1	2.1	< 2.0	-
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	-
Tritium	pCi/mL	4.40	4.10	3.50	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	-
Barium	mg/L	0.014	0.016	0.014	-
Beryllium	mg/L	< 0.005	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	-
Calcium	mg/L	1.47	1.97	1.79	-
Chloride	mg/L	1.6	3.2	3.0	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	0.012	0.006	< 0.004	-
Fluoride	mg/L	< 0.10	0.76	< 0.10	-
Iron	mg/L	0.028	0.056	0.115	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	-
Magnesium	mg/L	0.820	0.860	0.795	-
Manganese	mg/L	0.015	0.028	0.017	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Nickel	mg/L	0.006	-	< 0.004	-
Potassium	mg/L	0.727	0.738	0.937	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	4.56	5.26	10.5	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	-
Sodium	mg/L	4.33	2.40	1.78	-
Total Phosphates	mg/L	0.050	0.020	< 0.020	-
Zinc	mg/L	-	0.010	0.004	-
Nitrate (as N)	mg/L	1.95	1.62	1.94	-
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	0.005	5.80	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	0.002	-	0.002	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-24
GROUNDWATER MONITORING RESULTS FROM THE D-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS, CONT'D.

Well: DCB 9, D-Area Coal Pile Runoff Containment Basin

SRP Grid	N 64190.6		ft (msl)
Coordinates	E 19807.4	Screen Zone Elevation	117.3 - 97.3
Latitude	33.200039° N	Top of Casing Elevation	122.3
Longitude	81.739259° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	113.6	113.8	113.6	112.9
pH	pH	3.1	3.4	3.4	3.7
Conductivity	µmhos/cm	1961	1460	1400	1395
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	1940	1390	1310	-
Gross Alpha	pCi/L	< 8.0	< 3.0	34.5	-
Nonvolatile Beta	pCi/L	< 11.0	1.6	7.2	-
Total Radium	pCi/L	2.2	2.0	0.9	-
Tritium	pCi/mL	4.50	5.50	3.48	-
Arsenic	mg/L	< 0.002	< 0.002	0.010	-
Barium	mg/L	0.021	0.032	0.032	-
Beryllium	mg/L	0.016	-	0.018	-
Cadmium	mg/L	0.014	0.008	0.008	-
Calcium	mg/L	146	114	106	-
Chloride	mg/L	7.0	6.8	7.0	-
Chromium	mg/L	0.065	0.017	< 0.004	-
Copper	mg/L	0.099	0.078	0.058	-
Fluoride	mg/L	1.90	1.96	3.78	-
Iron	mg/L	8.14	3.90	0.198	-
Lead	mg/L	< 0.006	0.026	0.023	-
Magnesium	mg/L	90.7	70.0	81.8	-
Manganese	mg/L	67.8	42.0	64.3	-
Mercury	mg/L	0.0010	0.0008	0.0004	-
Nickel	mg/L	0.548	-	0.330	-
Potassium	mg/L	4.25	< 0.500	3.40	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	23.4	28.2	72.7	-
Silver	mg/L	0.0070	0.0050	0.0260	-
Sodium	mg/L	18.2	14.7	16.6	-
Total Phosphates	mg/L	0.030	0.030	0.020	-
Zinc	mg/L	-	1.26	0.852	-
Nitrate (as N)	mg/L	0.58	0.63	0.79	-
Sulfate	mg/L	1220	838	792	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	1.30	1.30	1.50	-
Tot. Org. Halogens	mg/L	0.118	0.066	15.0	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	< 0.005
Chloroform	mg/L	< 0.001	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	0.004	-	0.004	< 0.005
Trichloroethylene	mg/L	0.052	-	0.067	0.078
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	< 0.005

Well: DCB 10, D-Area Coal Pile Runoff Containment Basin

SRP Grid	N 63803.1		ft (msl)
Coordinates	E 19852.3	Screen Zone Elevation	119.8 - 99.8
Latitude	33.199255° N	Top of Casing Elevation	123.9
Longitude	81.738388° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	113.7	114.1	114.1	112.8
pH	pH	2.6	2.7	2.4	2.4
Conductivity	µmhos/cm	2950	3600	6100	5900
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	3260	4530	746	-
Gross Alpha	pCi/L	< 16.0	26.4	191	-
Nonvolatile Beta	pCi/L	25.1	38.0	65.6	-
Total Radium	pCi/L	2.7	8.1	48.4	-
Tritium	pCi/mL	4.60	6.20	< 0.70	-
Arsenic	mg/L	< 0.010	0.249	0.175	-
Barium	mg/L	0.010	0.013	0.011	-
Beryllium	mg/L	0.029	-	0.390	-
Cadmium	mg/L	0.024	0.028	0.042	-
Calcium	mg/L	113	136	187	-
Chloride	mg/L	1.5	1.3	7.5	-
Chromium	mg/L	0.226	0.107	0.854	-
Copper	mg/L	0.464	0.421	0.610	-
Fluoride	mg/L	1.70	4.30	4.00	-
Iron	mg/L	30.5	42.6	286	-
Lead	mg/L	< 0.006	< 0.006	0.052	-
Magnesium	mg/L	140	131	336	-
Manganese	mg/L	16.1	12.9	36.2	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Nickel	mg/L	1.95	-	6.71	-
Potassium	mg/L	0.663	0.786	0.510	-
Selenium	mg/L	0.004	< 0.002	0.020	-
Silica	mg/L	59.6	90.6	246	-
Silver	mg/L	0.0090	0.0100	0.0040	-
Sodium	mg/L	13.8	12.1	41.8	-
Total Phosphates	mg/L	0.050	0.030	0.020	-
Zinc	mg/L	-	3.25	0.659	-
Nitrate (as N)	mg/L	0.26	0.07	0.27	-
Sulfate	mg/L	2050	3100	4670	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	2.70	4.40	10.5	-
Tot. Org. Halogens	mg/L	0.026	0.048	0.766	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	< 0.005
Chloroform	mg/L	< 0.001	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	< 0.005
Trichloroethylene	mg/L	< 0.001	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	< 0.005

Well: DCB 11, D-Area Coal Pile Runoff Containment Basin

SRP Grid	N 64638.3		ft (msl)
Coordinates	E 19248.6	Screen Zone Elevation	126.8 - 106.8
Latitude	33.200116° N	Top of Casing Elevation	130.6
Longitude	81.741598° W	Casing Material	PVC

Parameter	Units	02/05/88	06/12/88	09/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	121	120.9	121	120.3
pH	pH	3.8	5.6	3.5	5.4
Conductivity	µmhos/cm	5040	4800	4800	3770
Alkalinity	mg/L	0	9	4	20
TDS	mg/L	6430	5850	4990	-
Gross Alpha	pCi/L	< 25.0	14.1	< 3.0	-
Nonvolatile Beta	pCi/L	145	111	95.9	-
Total Radium	pCi/L	1.1	0.6	< 1.0	-
Tritium	pCi/mL	2.90	1.80	< 0.70	-
Arsenic	mg/L	0.019	0.014	< 0.002	-
Barium	mg/L	0.032	0.026	0.021	-
Beryllium	mg/L	0.043	-	0.044	-
Cadmium	mg/L	0.009	0.011	0.007	-
Calcium	mg/L	234	53.4	218	-
Chloride	mg/L	12.3	4.3	10.5	-
Chromium	mg/L	0.045	< 0.004	< 0.004	-
Copper	mg/L	0.017	0.014	0.021	-
Fluoride	mg/L	0.20	0.19	0.28	-
Iron	mg/L	803	462	375	-
Lead	mg/L	0.071	0.037	0.039	-
Magnesium	mg/L	289	184	296	-
Manganese	mg/L	22.3	10.5	14.6	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Nickel	mg/L	0.089	-	0.070	-
Potassium	mg/L	99.8	86.5	10.5	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	13.2	16.5	31.2	-
Silver	mg/L	0.0120	0.0100	0.0130	-
Sodium	mg/L	64.2	51.1	70.8	-
Total Phosphates	mg/L	< 0.020	0.030	< 0.020	-
Zinc	mg/L	-	0.072	0.056	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	-
Sulfate	mg/L	4800	4010	2950	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	4.70	< 1.000	1.40	-
Tot. Org. Halogens	mg/L	0.008	< 0.005	0.770	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: DCB 12, D-Area Coal Pile Runoff Containment Basin

SRP Grid	N 65150.0		ft (msl)
Coordinates	E 18529.8	Screen Zone Elevation	112.0 - 92.0
Latitude	33.200073° N	Top of Casing Elevation	116.9
Longitude	81.744482° W	Casing Material	PVC

Parameter	Units	02/05/88	06/01/88	09/21/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	109.1	108.6	108.7	108.4
pH	pH	3.7	4.2	4.0	3.7
Conductivity	µmhos/cm	638	150	590	1200
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	504	69	13	-
Gross Alpha	pCi/L	5.8	< 3.0	< 3.0	-
Nonvolatile Beta	pCi/L	5.6	1.1	< 2.0	-
Total Radium	pCi/L	2.0	< 1.0	0.7	-
Tritium	pCi/mL	166	261	155	-
Arsenic	mg/L	0.031	< 0.002	< 0.002	-
Barium	mg/L	0.056	0.071	0.080	-
Beryllium	mg/L	0.014	-	0.009	-
Cadmium	mg/L	0.006	< 0.002	< 0.002	-
Calcium	mg/L	21.9	4.70	22.3	-
Chloride	mg/L	18.8	9.4	16.0	-
Chromium	mg/L	0.021	< 0.004	< 0.004	-
Copper	mg/L	0.015	0.007	0.039	-
Fluoride	mg/L	3.00	0.41	1.37	-
Iron	mg/L	0.180	0.146	0.126	-
Lead	mg/L	< 0.064	< 0.006	0.032	-
Magnesium	mg/L	14.5	1.33	10.6	-
Manganese	mg/L	2.01	0.087	1.39	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Nickel	mg/L	0.040	-	0.028	-
Potassium	mg/L	1.08	0.764	0.600	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	-
Silica	mg/L	9.26	6.59	21.8	-
Silver	mg/L	0.0020	< 0.0020	< 0.0020	-
Sodium	mg/L	21.5	8.08	14.9	-
Total Phosphates	mg/L	< 0.020	0.020	< 0.020	-
Zinc	mg/L	-	0.021	0.080	-
Nitrate (as N)	mg/L	1.18	1.11	1.30	-
Sulfate	mg/L	290	30.0	282	-
Phenols	mg/L	< 0.005	< 0.005	< 0.005	-
Tot. Org. Carbon	mg/L	2.50	< 1.000	4.20	-
Tot. Org. Halogens	mg/L	0.068	0.048	0.563	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	< 0.005
Chloroform	mg/L	< 0.001	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	0.089	-	0.011	< 0.005
Trichloroethylene	mg/L	0.013	-	0.088	0.050
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	< 0.005

TABLE 5-24
GROUNDWATER MONITORING RESULTS FROM THE D-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS, CONT'D.

Well: DCB 13, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 63842.5 E 19235.4	Screen Zone Elevation	ft (msl) 122.1 - 102.0
Latitude	33.198335° N	Top of Casing Elevation	129.8
Longitude	81.740087° W	Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	-
pH	pH	5.4
Conductivity	µmhos/cm	270
Alkalinity	mg/L	41
TDS	mg/L	160
Gross Alpha	pCi/L	4.0
Nonvolatile Beta	pCi/L	<2.0
Total Radium	pCi/L	0.8
Tritium	pCi/mL	1.67
Arsenic	mg/L	0.004
Barium	mg/L	0.336
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	14.5
Chloride	mg/L	20.8
Chromium	mg/L	<0.004
Copper	mg/L	-
Fluoride	mg/L	0.15
Iron	mg/L	21.2
Lead	mg/L	<0.006
Magnesium	mg/L	2.63
Manganese	mg/L	0.111
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	2.62
Selenium	mg/L	<0.002
Silica	mg/L	25.3
Silver	mg/L	<0.0020
Sodium	mg/L	9.74
Total Phosphates	mg/L	0.070
Zinc	mg/L	-
Nitrate (as N)	mg/L	<0.05
Sulfate	mg/L	24.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	4.50
Tot. Org. Halogens	mg/L	0.134
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: DCB 14, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 64909.8 E 19392.4	Screen Zone Elevation	ft (msl) 114.6 - 94.6
Latitude	33.200951° N	Top of Casing Elevation	129.4
Longitude	81.741747° W	Casing Material	PVC

Parameter	Units	12/10/88
Sampling Method	NA	Pump
Water Elevation	ft	109.1
pH	pH	4.2
Conductivity	µmhos/cm	7100
Alkalinity	mg/L	0
TDS	mg/L	1280
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	59.4
Total Radium	pCi/L	2.5
Tritium	pCi/mL	225
Arsenic	mg/L	0.002
Barium	mg/L	<0.004
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	71.0
Chloride	mg/L	14.4
Chromium	mg/L	0.018
Copper	mg/L	-
Fluoride	mg/L	9.00
Iron	mg/L	706
Lead	mg/L	0.019
Magnesium	mg/L	106
Manganese	mg/L	19.3
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	7.71
Selenium	mg/L	<0.002
Silica	mg/L	21.0
Silver	mg/L	0.0140
Sodium	mg/L	56.9
Total Phosphates	mg/L	0.210
Zinc	mg/L	-
Nitrate (as N)	mg/L	<0.05
Sulfate	mg/L	6000
Phenols	mg/L	0.006
Tot. Org. Carbon	mg/L	8.40
Tot. Org. Halogens	mg/L	0.202
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: DCB 15, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 64607.4 E 17635.9	Screen Zone Elevation	ft (msl) 119.9 - 99.8
Latitude	33.197413° N	Top of Casing Elevation	127.6
Longitude	81.745778° W	Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	107.7
pH	pH	5.5
Conductivity	µmhos/cm	350
Alkalinity	mg/L	0
TDS	mg/L	212
Gross Alpha	pCi/L	4.2
Nonvolatile Beta	pCi/L	5.5
Total Radium	pCi/L	<1.0
Tritium	pCi/mL	5.96
Arsenic	mg/L	<0.002
Barium	mg/L	0.084
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	16.8
Chloride	mg/L	7.4
Chromium	mg/L	<0.004
Copper	mg/L	-
Fluoride	mg/L	0.16
Iron	mg/L	14.6
Lead	mg/L	0.047
Magnesium	mg/L	3.91
Manganese	mg/L	0.275
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	3.47
Selenium	mg/L	<0.002
Silica	mg/L	18.9
Silver	mg/L	<0.0020
Sodium	mg/L	12.2
Total Phosphates	mg/L	0.040
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.26
Sulfate	mg/L	112
Phenols	mg/L	0.003
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.039
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: DCB 16, D-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 63956.0 E 17611.2	Screen Zone Elevation	ft (msl) 120.1 - 100.1
Latitude	33.195933° N	Top of Casing Elevation	127.9
Longitude	81.744577° W	Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	109.8
pH	pH	6.8
Conductivity	µmhos/cm	840
Alkalinity	mg/L	218
TDS	mg/L	480
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	10.1
Total Radium	pCi/L	<1.0
Tritium	pCi/mL	0.56
Arsenic	mg/L	<0.002
Barium	mg/L	0.074
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	94.4
Chloride	mg/L	14.0
Chromium	mg/L	<0.004
Copper	mg/L	-
Fluoride	mg/L	0.16
Iron	mg/L	8.23
Lead	mg/L	<0.006
Magnesium	mg/L	8.96
Manganese	mg/L	0.087
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	9.50
Selenium	mg/L	<0.002
Silica	mg/L	1.51
Silver	mg/L	<0.0020
Sodium	mg/L	22.5
Total Phosphates	mg/L	<0.020
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.08
Sulfate	mg/L	156
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.031
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

TABLE 5-24
GROUNDWATER MONITORING RESULTS FROM THE D-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS, CONT'D.

Other Analyses
(GCMS Scan and Pest Herb* Analytes: Table 5-91)

DCB 6 12/12/88
GCMS Scan detected the following: None

DCB 7 12/12/88
GCMS Scan detected the following: None

DCB 9 12/26/88
GCMS Scan detected the following: None

DCB 10 12/26/88
GCMS Scan detected the following: None

DCB 12 12/26/88
GCMS Scan detected the following: None

DCB 13 12/11/88
Pest/Herb* analyses detected the following: None

DCB 14 12/10/88
Pest/Herb* analyses detected the following: None

DCB 15 12/11/88
Pest/Herb* analyses detected the following: None

DCB 16 12/11/88
Pest/Herb* analyses detected the following: None

TABLE 5-25
GROUNDWATER MONITORING RESULTS FROM THE D-AREA OIL DISPOSAL BASIN WELLS

Well: DOB 1, D-Area Oil Disposal Basin

SRP Grid	N 68438.1			ft (msl)
Coordinates	E 23567.8	Screen Zone Elevation		144.7 - 114.7
Latitude	33.215570° N	Top of Casing Elevation		151.7
Longitude	81.737623° W	Casing Material		PVC

Parameter	Units	02/10/88	05/22/88	09/03/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	138.6	139.6	137.9	137.4
pH	pH	5.0	5.2	4.7	4.9
Conductivity	µmhos/cm	74	93	84	78
Alkalinity	mg/L	2	10	1	0
Iron	mg/L	0.213	-	0.352	-
Magnesium	mg/L	4.27	-	-	-
Manganese	mg/L	0.049	-	0.043	-
Sulfate	mg/L	23.0	-	-	-
Phenols	mg/L	-	-	-	<0.010
Tot. Org. Carbon	mg/L	4.00	-	-	-
Tot. Org. Halogens	mg/L	0.015	-	0.026	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.010	-	0.013	-
Trichloroethylene	mg/L	<0.001	-	0.002	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DOB 2, D-Area Oil Disposal Basin

SRP Grid	N 68568.0			ft (msl)
Coordinates	E 23340.8	Screen Zone Elevation		145.3 - 115.3
Latitude	33.215486° N	Top of Casing Elevation		152.2
Longitude	81.738472° W	Casing Material		PVC

Parameter	Units	02/10/88	05/22/88	09/03/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	136.2	139.3	137.3	137
pH	pH	5.1	5.1	5.1	5.1
Conductivity	µmhos/cm	47	51	47	-
Alkalinity	mg/L	2	5	2	1
Iron	mg/L	0.175	-	0.400	-
Magnesium	mg/L	1.20	-	-	-
Manganese	mg/L	0.019	-	0.016	-
Sulfate	mg/L	6.0	-	-	-
Phenols	mg/L	-	-	-	<0.010
Tot. Org. Carbon	mg/L	2.80	-	-	-
Tot. Org. Halogens	mg/L	0.012	-	0.100	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.001	-	0.010	-
Trichloroethylene	mg/L	0.004	-	0.113	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DOB 3, D-Area Oil Disposal Basin

SRP Grid	N 68693.5			ft (msl)
Coordinates	E 23633.3	Screen Zone Elevation		145.9 - 115.9
Latitude	33.216241° N	Top of Casing Elevation		152.8
Longitude	81.737947° W	Casing Material		PVC

Parameter	Units	02/10/88	05/22/88	09/03/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	138.2	139.4	137.6	137.2
pH	pH	5.6	5.6	5.3	5.5
Conductivity	µmhos/cm	31	29	34	34
Alkalinity	mg/L	3	2	3	1
Iron	mg/L	0.118	-	0.086	-
Magnesium	mg/L	0.647	-	-	-
Manganese	mg/L	0.006	-	0.007	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	-	-	-	<0.010
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.009	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: DOB 4, D-Area Oil Disposal Basin

SRP Grid	N 68514.4			ft (msl)
Coordinates	E 23815.6	Screen Zone Elevation		139.2 - 109.2
Latitude	33.216143° N	Top of Casing Elevation		153.0
Longitude	81.737119° W	Casing Material		PVC

Parameter	Units	02/10/88	05/22/88	09/03/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	137.9	139.1	137.4	136.8
pH	pH	4.7	5.1	4.8	5.2
Conductivity	µmhos/cm	34	34	36	38
Alkalinity	mg/L	1	2	2	0
Iron	mg/L	0.023	-	0.167	-
Magnesium	mg/L	0.798	-	-	-
Manganese	mg/L	0.011	-	0.009	-
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	-	-	-	<0.010
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.023	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Other Analyses
(Base/Neutral/Acid Analytes: Table 5-91)

DOB 1 12/26/88

Base/Neutral/Acid (BNA) analyses detected the following: None

DOB 2 12/26/88

Base/Neutral/Acid (BNA) analyses detected the following:

Bis(2-Ethylhexyl) Phthalate 0.022 mg/L

DOB 3 12/26/88

Base/Neutral/Acid (BNA) analyses detected the following: None

DOB 4 12/26/88

Base/Neutral/Acid (BNA) analyses detected the following: None

TABLE 5-26
MAXIMUM CONSTITUENT LEVELS AT F AREA

Constituent	DWS	Units	FAC	FAL	FBP	FCA
Gross Alpha	15	pCi/L	**39.9**	-	11.1	**238**
Nonvolatile Beta	-	pCi/L	32.6	2.7	88.1	833
Total Radium	5	pCi/L	**21.8**	-	2.6	**11.8**
Tritium	20	pCi/mL	<0.7	-	7.7	**452**
Cobalt-60	0.1	pCi/mL	-	-	-	0
Chromium-51	6	pCi/mL	-	-	-	0
Cesium-134	0.08	pCi/mL	-	-	-	0
Cesium-137	0.2	pCi/mL	-	-	-	0
Iodine-131	0.003	pCi/mL	-	-	-	0
Ruthenium-103	0.2	pCi/mL	-	-	-	0
Ruthenium-106	0.03	pCi/mL	-	-	-	0
Antimony-125	0.3	pCi/mL	-	-	-	0
Strontium-89/90	8	pCi/L	-	-	-	5.44
Zirconium/Niobium-95	0.2	pCi/mL	-	-	-	0
Arsenic	0.05	mg/L	<0.002	-	-	<0.002
Barium	1	mg/L	0.016	-	0.017	0.087
Cadmium	0.01	mg/L	<0.002	-	<0.002	0.006
Chromium	0.05	mg/L	0.006	-	-	-
Fluoride	4	mg/L	0.13	-	-	1
Lead	0.05	mg/L	0.006	-	0.006	0.047
Mercury	0.002	mg/L	0.0003	-	-	-
Selenium	0.01	mg/L	<0.002	-	-	-
Silver	0.05	mg/L	<0.002	-	-	<0.002
Nitrate (as N)	10	mg/L	0.27	-	9.72	**31.2**
Carbon Tetrachloride	0.005	mg/L	-	<0.001	**0.012**	<0.001
Chloroform	0.1*	mg/L	-	<0.001	<0.001	0.001
Trichloroethylene	0.005	mg/L	-	**0.051**	**0.076**	**0.435**
1,1,1-Trichloroethane	0.2	mg/L	-	<0.001	<0.001	<0.001
2,4-D	0.1	mg/L	<0.0003	-	-	-
Endrin	0.0002	mg/L	<0.0001	-	-	-
Lindane	0.004	mg/L	<0.00001	-	-	-
Methoxychlor	0.1	mg/L	<0.0005	-	-	-
Silvex	0.01	mg/L	<0.0001	-	-	-
Toxaphene	0.005	mg/L	<0.001	-	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). *Analytical results in bold are above the drinking water standards.*

* Federal primary drinking water standard for trihalomethanes.

FAC = F-Area Acid/Caustic Basin Wells
FAL = F-Area A-Line Wells
FBP = F-Area Burning/Rubble Pits Wells
FCA = F-Area Canyon Building Wells

TABLE 5-26
MAXIMUM CONSTITUENT LEVELS AT F AREA, CONT'D.

Constituent	DWS	Units	FCB	FET	FNB	FSB
Gross Alpha	15	pCi/L	9.1	4.6	**71**	**2140**
Nonvolatile Beta	-	pCi/L	6.8	3.5	651	10900
Total Radium	5	pCi/L	4.3	1.3	**12.1**	**140**
Tritium	20	pCi/mL	10.4	10.4	**515**	**65800**
Arsenic	0.05	mg/L	<0.002	<0.002	-	**0.13**
Barium	1	mg/L	0.032	0.011	0.109	**2.16**
Cadmium	0.01	mg/L	<0.002	<0.002	<0.002	**0.113**
Chromium	0.05	mg/L	0.024	<0.004	0.005	**0.247**
Fluoride	4	mg/L	<0.1	<0.1	0.21	**15.5**
Lead	0.05	mg/L	0.032	<0.006	0.022	**3.6**
Mercury	0.002	mg/L	<0.0002	0.0008	0.0011	**0.0037**
Selenium	0.01	mg/L	<0.002	<0.002	-	**0.034**
Silver	0.05	mg/L	0.004	<0.002	<0.002	0.009
Nitrate (as N)	10	mg/L	1.49	2.59	**30.7**	**545**
Carbon Tetrachloride	0.005	mg/L	-	-	<0.001	<0.001
Chloroform	0.1*	mg/L	-	-	<0.001	<0.001
Trichloroethylene	0.005	mg/L	-	-	**0.075**	**0.019**
1,1,1-Trichloroethane	0.2	mg/L	-	-	<0.001	0.005
Benzene	0.005	mg/L	-	-		**0.019**
Chloroethene	0.002	mg/L	-	-	-	<0.01
1,2-Dichloroethane	0.005	mg/L	-	-	-	<0.005
1,1-Dichloroethylene	0.005	mg/L	-	-	-	<0.005
2,4-D	0.1	mg/L	<0.0003	<0.0003	-	<0.0003
Endrin	0.0002	mg/L	<0.0001	<0.0001	-	<0.0001
Lindane	0.004	mg/L	<0.00001	<0.00001	-	<0.00001
Methoxychlor	0.1	mg/L	<0.0005	<0.0005	-	<0.0005
Silvex	0.01	mg/L	<0.0001	<0.0001	-	<0.0001
Toxaphene	0.005	mg/L	<0.001	<0.001	-	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

FCB = F-Area Coal Pile Runoff Containment Basin Wells
FET = F-Area Effluent Treatment Retention Basin Wells
FNB = Old F-Area Seepage Basin Wells
FSB = F-Area Seepage Basins Wells

TABLE 5-26
MAXIMUM CONSTITUENT LEVELS AT F AREA, CONT'D.

Constituent	DWS	Units	FTF	NBG	F
Gross Alpha	15	pCi/L	**114**	6	**140**
Nonvolatile Beta	-	pCi/L	43900	31.6	6800
Total Radium	5	pCi/L	**52.3**	1.4	-
Tritium	20	pCi/mL	**257**	**955**	**32500**
Cobalt-60	0.1	pCi/mL	0	-	-
Chromium-51	6	pCi/mL	0	-	-
Cesium-134	0.08	pCi/mL	0	-	-
Cesium-137	0.2	pCi/mL	0	-	-
Iodine-131	0.003	pCi/mL	0	-	-
Ruthenium-103	0.2	pCi/mL	0	-	-
Ruthenium-106	0.03	pCi/mL	0	-	-
Antimony-125	0.3	pCi/mL	0	-	-
Strontium-89/90	8	pCi/L	-	-	**173**
Zirconium/Niobium-95	0.2	pCi/mL	0	-	-
Arsenic	0.05	mg/L	-	< 0.002	-
Cadmium	0.01	mg/L	< 0.002	-	-
Chromium	0.05	mg/L	< 0.004	-	-
Lead	0.05	mg/L	-	0.031	-
Mercury	0.002	mg/L	-	0.0006	-
Nitrate (as N)	10	mg/L	**324**	**34**	-
Carbon Tetrachloride	0.005	mg/L	-	< 0.001	-
Chloroform	0.1*	mg/L	-	< 0.001	-
Trichloroethylene	0.005	mg/L	-	**0.132**	-
1,1,1-Trichloroethane	0.2	mg/L	-	< 0.001	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

FTF = F-Area Tank Farm Wells
NBG = Naval Fuel Material Facility
F = F-Area Seepage Basins Wells

TABLE 5-27
GROUNDWATER MONITORING RESULTS FROM THE F-AREA ACID/CAUSTIC BASIN WELLS

Well: FAC 3, F-Area Acid/Caustic Basin

SRP Grid Coordinates	N 78018.3 E 55322.7	Screen Zone Elevation	ft (msl) 254.8 - 224.8	
Latitude	33.288592° N	Top of Casing Elevation	311.8	
Longitude	81.672674° W	Casing Material	PVC	

Parameter	Units	02/22/88	06/09/88	09/18/88	12/21/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	230.9	229	228.5	228
pH	pH	8.9	8.4	9.5	10.1
Conductivity	µmhos/cm	215	285	192	220
Alkalinity	mg/L	38	34	38	49
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	27.0	-	14.2	-
Nonvolatile Beta	pCi/L	32.6	-	11.7	-
Total Radium	pCi/L	21.8	-	4.6	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	0.006	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.006	-	0.006	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.002	-	<0.002	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	3.21	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	0.012	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	50.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot Org Carbon	mg/L	4.00			-
Tot. Org. Halogens	mg/L	0.024	-	0.026	-

Well: FAC 5, F-Area Acid/Caustic Basin

SRP Grid Coordinates	N 77960.3 E 55241.3	Screen Zone Elevation	ft (msl) 234.0 - 214.0	
Latitude	33.288331° N	Top of Casing Elevation	315.8	
Longitude	81.672776° W	Casing Material	PVC	

Parameter	Units	12/14/88
Sampling Method	NA	Bail
Water Elevation	ft	221.8
pH	pH	5.3
Conductivity	µmhos/cm	100
Alkalinity	mg/L	6
TDS	mg/L	50
Gross Alpha	pCi/L	7.3
Nonvolatile Beta	pCi/L	7.5
Total Radium	pCi/L	4.8
Tritium	pCi/mL	<0.70
Arsenic	mg/L	<0.002
Barium	mg/L	0.016
Cadmium	mg/L	<0.002
Calcium	mg/L	4.62
Chloride	mg/L	2.5
Chromium	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	0.060
Lead	mg/L	<0.006
Magnesium	mg/L	1.49
Manganese	mg/L	0.144
Mercury	mg/L	<0.0002
Potassium	mg/L	2.19
Selenium	mg/L	<0.002
Silica	mg/L	7.34
Silver	mg/L	<0.0020
Sodium	mg/L	7.20
Total Phosphates	mg/L	0.160
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.18
Sulfate	mg/L	32.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.010

Well: FAC 4, F-Area Acid/Caustic Basin

SRP Grid Coordinates	N 78223.8 E 55472.9	Screen Zone Elevation	ft (msl) 237.8 - 207.8	
Latitude	33.289292° N	Top of Casing Elevation	309.9	
Longitude	81.672678° W	Casing Material	PVC	

Parameter	Units	01/27/88	05/12/88	08/16/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.7	227.9	227.7	227.6
pH	pH	4.9	5.1	4.8	4.8
Conductivity	µmhos/cm	115	126	130	128
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	39.9	-	23.4	-
Nonvolatile Beta	pCi/L	27.7	-	15.5	-
Total Radium	pCi/L	9.3	-	6.6	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.271	-	0.272	-
Mercury	mg/L	0.0003	-	<0.0002	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	4.06	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	0.010	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	36.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.021	-	0.016	-

Well: FAC 6, F-Area Acid/Caustic Basin

SRP Grid Coordinates	N 78129.0 E 55335.5	Screen Zone Elevation	ft (msl) 236.2 - 216.2	
Latitude	33.288858° N	Top of Casing Elevation	312.5	
Longitude	81.672855° W	Casing Material	PVC	

Parameter	Units	12/14/88
Sampling Method	NA	Bail
Water Elevation	ft	217
pH	pH	5.8
Conductivity	µmhos/cm	52
Alkalinity	mg/L	8
TDS	mg/L	126
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	3.7
Total Radium	pCi/L	<1.0
Tritium	pCi/mL	<0.70
Arsenic	mg/L	<0.002
Barium	mg/L	0.009
Cadmium	mg/L	<0.002
Calcium	mg/L	2.70
Chloride	mg/L	3.6
Chromium	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	0.127
Lead	mg/L	<0.006
Magnesium	mg/L	0.393
Manganese	mg/L	0.087
Mercury	mg/L	<0.0002
Potassium	mg/L	2.16
Selenium	mg/L	<0.002
Silica	mg/L	12.9
Silver	mg/L	<0.0020
Sodium	mg/L	5.19
Total Phosphates	mg/L	0.150
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.22
Sulfate	mg/L	6.5
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	3.30
Tot. Org. Halogens	mg/L	<0.005

TABLE 5-27
GROUNDWATER MONITORING RESULTS FROM THE F-AREA ACID/CAUSTIC BASIN WELLS, CONT'D.

Well: FAC 7, F-Area Acid/Caustic Basin

SRP Grid	N 78123.4		
Coordinates	E 55356.2	Screen Zone Elevation	ft (msl) 235.7 - 215.7
Latitude	33.288879° N	Top of Casing Elevation	312.0
Longitude	81.672790° W	Casing Material	PVC

Parameter	Units	12/14/88
Sampling Method	NA	Bail
Water Elevation	ft	217.4
pH	pH	6.0
Conductivity	µmhos/cm	122
Alkalinity	mg/L	21
TDS	mg/L	100
Gross Alpha	pCi/L	4.8
Nonvolatile Beta	pCi/L	13.8
Total Radium	pCi/L	4.2
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.007
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.94
Chloride	mg/L	3.3
Chromium	mg/L	< 0.004
Fluoride	mg/L	0.13
Iron	mg/L	0.035
Lead	mg/L	< 0.006
Magnesium	mg/L	0.230
Manganese	mg/L	0.020
Mercury	mg/L	< 0.0002
Potassium	mg/L	5.63
Selenium	mg/L	< 0.002
Silica	mg/L	10.5
Silver	mg/L	< 0.0020
Sodium	mg/L	11.1
Total Phosphates	mg/L	1.11
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.23
Sulfate	mg/L	10.3
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.40
Tot. Org. Halogens	mg/L	< 0.005

Well: FAC 8, F-Area Acid/Caustic Basin

SRP Grid	N 78090.9		
Coordinates	E 55366.0	Screen Zone Elevation	ft (msl) 236.0 - 216.0
Latitude	33.288823° N	Top of Casing Elevation	311.0
Longitude	81.672701° W	Casing Material	PVC

Parameter	Units	12/14/88
Sampling Method	NA	Bail
Water Elevation	ft	223.9
pH	pH	5.8
Conductivity	µmhos/cm	54
Alkalinity	mg/L	10
TDS	mg/L	64
Gross Alpha	pCi/L	4.8
Nonvolatile Beta	pCi/L	8.4
Total Radium	pCi/L	4.7
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.016
Cadmium	mg/L	< 0.002
Calcium	mg/L	3.99
Chloride	mg/L	3.6
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.506
Manganese	mg/L	0.078
Mercury	mg/L	< 0.0002
Potassium	mg/L	1.52
Selenium	mg/L	< 0.002
Silica	mg/L	10.7
Silver	mg/L	< 0.0020
Sodium	mg/L	3.26
Total Phosphates	mg/L	0.450
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.27
Sulfate	mg/L	7.2
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	2.20
Tot. Org. Halogens	mg/L	< 0.005

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

FAC 5 12/14/88
Turbidity 14.1 NTU
Pest/Herb* analyses detected the following: None

FAC 6 12/14/88
Turbidity 15.8 NTU
Pest/Herb* analyses detected the following: None

FAC 7 12/14/88
Turbidity 20.4 NTU
Turbidity 20.9 NTU
Pest/Herb* analyses detected the following: None

FAC 8 12/14/88
Pest/Herb* analyses detected the following: None

TABLE 5-28
GROUNDWATER MONITORING RESULTS FROM THE F-AREA A LINE AND CANYON BUILDING WELLS

Well: FAL 1, F-Area A Line

SRP Grid	N 78115.9		ft (msl)
Coordinates	E 53756.4	Screen Zone Elevation	238.5 - 207.0
Latitude	33.286252° N	Top of Casing Elevation	312.9
Longitude	81.676988° W	Casing Material	PVC

Parameter	Units	03/11/88	06/14/88	09/11/88	11/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.2	218.3	218	217.7
pH	pH	6.5	6.8	6.6	6.9
Conductivity	µmhos/cm	129	165	178	163
Alkalinity	mg/L	61	83	69	64
Nonvolatile Beta	pCi/L	2.7	-	-	-
Calcium	mg/L	1.51	-	-	-
Iron	mg/L	0.020	-	0.052	-
Manganese	mg/L	0.004	-	0.094	-
Sodium	mg/L	12.8	-	-	-
Total Phosphates	mg/L	<0.020	-	-	-
Sulfate	mg/L	9.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.033	-	0.053	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	0.001	-
Trichloroethylene	mg/L	<0.001	-	0.051	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FAL 2, F-Area A Line

SRP Grid	N 78231.9		ft (msl)
Coordinates	E 53757.4	Screen Zone Elevation	238.0 - 206.6
Latitude	33.286510° N	Top of Casing Elevation	312.1
Longitude	81.677211° W	Casing Material	PVC

Parameter	Units	03/11/88	06/14/88	09/11/88	11/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.5	216.5	216.1	215.9
pH	pH	5.8	5.9	5.6	5.8
Conductivity	µmhos/cm	85	86	83	72
Alkalinity	mg/L	23	32	16	16
Nonvolatile Beta	pCi/L	2.2	-	-	-
Calcium	mg/L	4.06	-	-	-
Iron	mg/L	0.182	-	0.227	-
Manganese	mg/L	0.141	-	0.031	-
Sodium	mg/L	10.2	-	-	-
Total Phosphates	mg/L	0.060	-	-	-
Sulfate	mg/L	10.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.038	-	0.061	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	0.033	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FCA 2D, F-Area Canyon Building

SRP Grid	N 78295.8		ft (msl)
Coordinates	E 53715.2	Screen Zone Elevation	239.0 - 219.0
Latitude	33.286582° N	Top of Casing Elevation	312.2
Longitude	81.677446° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/15/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.7	226.3	225.7	225.4
pH	pH	4.1	4.4	3.8	4.1
Conductivity	µmhos/cm	425	320	330	355
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	18.7	53.2	157	94.7
Nonvolatile Beta	pCi/L	19.6	221	449	199
Total Radium	pCi/L	6.2	-	7.3	-
Tritium	pCi/mL	20.7	22.4	12.3	14.5
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.087	-	-	-
Cadmium	mg/L	0.003	-	0.006	-
Calcium	mg/L	21.2	-	-	-
Chloride	mg/L	<1.0	-	-	-
Fluoride	mg/L	1.00	-	-	-
Iron	mg/L	0.024	-	0.044	-
Lead	mg/L	0.018	-	0.047	-
Magnesium	mg/L	8.48	-	-	-
Manganese	mg/L	0.217	-	0.288	-
Potassium	mg/L	1.61	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.78	-	-	-
Total Phosphates	mg/L	1.37	-	-	-
Nitrate (as N)	mg/L	4.95	-	31.2	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	5.90	-	<1.000	-
Tot. Org. Halogens	mg/L	0.350	-	0.292	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.010	-
Chloroform	mg/L	<0.001	-	<0.010	-
Tetrachloroethylene	mg/L	0.004	-	0.004	-
Trichloroethylene	mg/L	0.435	-	0.388	-
1,1,1-TCE	mg/L	<0.001	-	<0.010	-

Well: FCA 9D, F-Area Canyon Building

SRP Grid	N 78600.5		ft (msl)
Coordinates	E 53733.1	Screen Zone Elevation	241.9 - 221.9
Latitude	33.287286° N	Top of Casing Elevation	311.9
Longitude	81.677991° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/15/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.3	225.8	225.5	225.2
pH	pH	4.7	4.5	4.2	4.4
Conductivity	µmhos/cm	52	82	113	137
Alkalinity	mg/L	2	0	0	0
Gross Alpha	pCi/L	238	5.1	13.2	12.8
Nonvolatile Beta	pCi/L	833	9.5	15.7	19.0
Total Radium	pCi/L	7.3	-	5.5	-
Tritium	pCi/mL	4.60	4.46	3.86	7.01
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.016	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	2.17	-	-	-
Chloride	mg/L	<1.0	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.021	-	0.028	-
Lead	mg/L	0.012	-	0.010	-
Magnesium	mg/L	0.407	-	-	-
Manganese	mg/L	0.016	-	0.047	-
Potassium	mg/L	0.692	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	5.56	-	-	-
Total Phosphates	mg/L	1.74	-	-	-
Nitrate (as N)	mg/L	5.23	-	8.33	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	1.60	-	<1.000	-
Tot. Org. Halogens	mg/L	0.016	-	0.006	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FCA 10A, F-Area Canyon Building

SRP Grid	N 78640.4		ft (msl)
Coordinates	E 53571.9	Screen Zone Elevation	241.0 - 221.0
Latitude	33.287111° N	Top of Casing Elevation	311.8
Longitude	81.678493° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/12/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226	225.5	225.2	224.5
pH	pH	6.6	5.8	5.9	6.4
Conductivity	µmhos/cm	99	89	72	87
Alkalinity	mg/L	5	3	5	-
Gross Alpha	pCi/L	28.7	2.4	3.3	3.2
Nonvolatile Beta	pCi/L	30.5	8.5	3.8	5.4
Total Radium	pCi/L	11.8	-	1.9	-
Tritium	pCi/mL	10.6	6.72	6.80	8.34
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.013	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	4.59	-	-	-
Chloride	mg/L	3.0	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.023	-	0.114	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	0.997	-	-	-
Manganese	mg/L	0.010	-	0.003	-
Potassium	mg/L	3.45	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	11.3	-	-	-
Total Phosphates	mg/L	2.02	-	-	-
Nitrate (as N)	mg/L	12.6	-	3.73	-
Sulfate	mg/L	9.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	3.10	-	<1.000	-
Tot. Org. Halogens	mg/L	0.024	-	0.008	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-28
GROUNDWATER MONITORING RESULTS FROM THE F-AREA A LINE AND CANYON BUILDING WELLS, CONT'D.

Well: FCA 10D, F-Area Canyon Building

SRP Grid	N	78640.0		ft (msl)
Coordinates	E	53732.0	Screen Zone Elevation	239.5 - 219.5
Latitude		33.287371° N	Top of Casing Elevation	311.3
Longitude		81.678070° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/15/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.3	225.8	225.5	224.9
pH	pH	6.4	5.2	5.5	5.2
Conductivity	µmhos/cm	86	101	116	120
Alkalinity	mg/L	2	0	2	-
Gross Alpha	pCi/L	3.1	-	-	1.1
Nonvolatile Beta	pCi/L	11.7	-	-	15.4
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	8.50	-	8.85	8.28
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.026	-	-	-
Cadmium	mg/L	0.002	-	-	-
Calcium	mg/L	7.24	-	-	-
Chloride	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.034	-	-	-
Lead	mg/L	0.014	-	-	-
Magnesium	mg/L	0.992	-	-	-
Manganese	mg/L	0.003	-	-	-
Potassium	mg/L	1.79	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	6.87	-	-	-
Total Phosphates	mg/L	11.2	-	-	-
Nitrate (as N)	mg/L	6.73	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	2.00	-	-	-
Tot. Org. Halogens	mg/L	0.025	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FCA 16A, F-Area Canyon Building

SRP Grid	N	78899.5		ft (msl)
Coordinates	E	53568.8	Screen Zone Elevation	235.1 - 215.1
Latitude		33.287679° N	Top of Casing Elevation	312.2
Longitude		81.679004° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/12/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.8	225.3	225	224.4
pH	pH	6.0	5.8	5.9	6.1
Conductivity	µmhos/cm	78	73	74	83
Alkalinity	mg/L	17	12	15	-
Gross Alpha	pCi/L	8.4	1.7	3.2	6.2
Nonvolatile Beta	pCi/L	24.5	5.7	9.0	7.1
Total Radium	pCi/L	5.7	-	1.4	-
Tritium	pCi/mL	5.70	7.58	5.90	5.36
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.014	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	4.71	-	-	-
Chloride	mg/L	5.8	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.038	-	0.260	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	0.364	-	-	-
Manganese	mg/L	0.008	-	0.007	-
Potassium	mg/L	6.30	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	8.05	-	-	-
Total Phosphates	mg/L	0.780	-	-	-
Nitrate (as N)	mg/L	2.45	-	2.54	-
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	3.40	-	4.00	-
Tot. Org. Halogens	mg/L	0.038	-	0.013	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	0.004	-
Trichloroethylene	mg/L	0.003	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FCA 16D, F-Area Canyon Building

SRP Grid	N	78898.5		ft (msl)
Coordinates	E	53719.5	Screen Zone Elevation	241.1 - 221.1
Latitude		33.287922° N	Top of Casing Elevation	310.7
Longitude		81.678606° W	Casing Material	Steel

Parameter	Units	03/24/88	06/11/88	09/13/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.8	225.4	225.1	224.5
pH	pH	6.3	6.0	6.0	6.1
Conductivity	µmhos/cm	116	144	134	131
Alkalinity	mg/L	14	16	19	-
Gross Alpha	pCi/L	9.0	0.3	21.2	6.4
Nonvolatile Beta	pCi/L	21.5	21.5	24.5	14.8
Total Radium	pCi/L	3.0	-	8.1	-
Tritium	pCi/mL	452	405	261	257
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.032	-	-	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	8.95	-	-	-
Chloride	mg/L	5.2	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.022	-	0.013	-
Lead	mg/L	<0.006	-	0.006	-
Magnesium	mg/L	0.790	-	-	-
Manganese	mg/L	0.021	-	0.017	-
Potassium	mg/L	1.50	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	12.0	-	-	-
Total Phosphates	mg/L	0.120	-	-	-
Nitrate (as N)	mg/L	11.9	-	11.0	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	1.30	-	1.00	-
Tot. Org. Halogens	mg/L	0.234	-	0.175	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.284	-	0.178	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Other Analyses
(Gamma PHA Analytes: Table 5-91)

FCA 2C 03/24/88
Strontium 89/90 5.44 pCi/L
Gamma PHA analyses detected the following: None

FCA 2C 06/11/88
Strontium 89/90 0.00 pCi/L
Gamma PHA analyses detected the following: None

FCA 2C 09/15/88
Gamma PHA analyses detected the following: None

FCA 2C 12/03/88
Strontium 89/90 4.17 pCi/L
Gamma PHA analyses detected the following: None

FCA 2D 03/24/88
Strontium 89/90 3.06 pCi/L
Gamma PHA analyses detected the following: None

FCA 2D 06/11/88
Strontium 89/90 0.00 pCi/L
Gamma PHA analyses detected the following: None

FCA 2D 12/03/88
Strontium 89/90 1.23 pCi/L
Gamma PHA analyses detected the following: None

FCA 9D 03/24/88
Strontium 89/90 5.1 pCi/L
Gamma PHA analyses detected the following: None

FCA 9D 06/11/88
Strontium 89/90 1.86 pCi/L
Gamma PHA analyses detected the following: None

FCA 9D 09/15/88
Gamma PHA analyses detected the following: None

TABLE 5-28
GROUNDWATER MONITORING RESULTS FROM THE F-AREA A LINE AND CANYON BUILDING WELLS, CONT'D.

FCA 9D	12/03/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 10A	03/24/88	
Strontium 89/90		- 1.02 pCi/L
Gamma PHA analyses detected the following: None		
FCA 10A	06/11/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 10A	09/12/88	
Gamma PHA analyses detected the following: None		
FCA 10A	12/03/88	
Strontium 89/90		0.36 pCi/L
Gamma PHA analyses detected the following: None		
FCA 10C	09/13/88	
Gamma PHA analyses detected the following: None		
FCA 10D	03/24/88	
Strontium 89/90		- 0.51 pCi/L
FCA 10D	09/15/88	
Gamma PHA analyses detected the following: None		
FCA 10D	12/03/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16A	03/24/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16A	06/11/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16A	09/12/88	
Gamma PHA analyses detected the following: None		
FCA 16A	12/03/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16B	03/24/88	
Strontium 89/90		1.38 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16B	06/11/88	
Strontium 89/90		0.00 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16B	09/12/88	
Gamma PHA analyses detected the following: None		
FCA 16D	03/24/88	
Strontium 89/90		- 0.34 pCi/L
FCA 16D	06/11/88	
Strontium 89/90		1.47 pCi/L
Gamma PHA analyses detected the following: None		
FCA 16D	09/13/88	
Gamma PHA analyses detected the following: None		
FCA 16D	12/03/88	
Strontium 89/90		2.17 pCi/L
Gamma PHA analyses detected the following: None		

TABLE 5-29
GROUNDWATER MONITORING RESULTS FROM THE F-AREA BURNING/RUBBLE PITS WELLS

Well: FBP 1A, F-Area Burning/Rubble Pits

SRP Grid	N 78893.0		ft (msl)
Coordinates	E 51080.7	Screen Zone Elevation	191.8 - 161.8
Latitude	33.283604° N	Top of Casing Elevation	287.9
Longitude	81.685542° W	Casing Material	PVC

Parameter	Units	03/14/88	06/01/88	09/14/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	206.4	205.8	205	204.5
pH	pH	4.8	4.6	4.7	4.3
Conductivity	µmhos/cm	84	96	109	120
Alkalinity	mg/L	1	0	1	0
Gross Alpha	pCi/L	2.6	-	4.5	-
Nonvolatile Beta	pCi/L	50.6	-	88.1	-
Total Radium	pCi/L	< 1.0	-	1.2	-
Tritium	pCi/mL	7.70	-	-	-
Barium	mg/L	0.017	-	-	-
Cadmium	mg/L	< 0.002	-	-	-
Calcium	mg/L	6.12	-	-	-
Iron	mg/L	0.046	-	-	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.025	-	0.036	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	0.822	-
Sodium	mg/L	3.60	-	-	-
Nitrate (as N)	mg/L	5.68	-	9.72	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	0.299	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.005	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.008	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: FBP 2A, F-Area Burning/Rubble Pits

SRP Grid	N 79711.4		ft (msl)
Coordinates	E 50534.1	Screen Zone Elevation	167.1 - 137.1
Latitude	33.284521° N	Top of Casing Elevation	289.1
Longitude	81.688572° W	Casing Material	PVC

Parameter	Units	03/15/88	06/01/88	09/14/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	191.2	190.8	189.7	188.8
pH	pH	5.0	5.0	4.3	4.7
Conductivity	µmhos/cm	76	67	47	49
Alkalinity	mg/L	4	2	3	2
Gross Alpha	pCi/L	4.2	-	2.5	-
Nonvolatile Beta	pCi/L	3.0	-	8.5	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	7.30	-	-	-
Barium	mg/L	0.009	-	-	-
Cadmium	mg/L	< 0.002	-	-	-
Calcium	mg/L	2.50	-	-	-
Iron	mg/L	0.029	-	-	-
Lead	mg/L	0.006	-	< 0.006	-
Manganese	mg/L	0.025	-	0.013	-
Nickel	mg/L	0.005	-	-	-
Potassium	mg/L	-	-	-	-
Sodium	mg/L	8.87	-	-	-
Nitrate (as N)	mg/L	2.19	-	1.81	-
Sulfate	mg/L	7.0	-	-	-
Tot. Org. Carbon	mg/L	1.00	-	-	-
Tot. Org. Halogens	mg/L	0.160	-	0.099	-
Carbon Tetrachloride	mg/L	0.012	-	0.008	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.060	-	0.052	-
Trichloroethylene	mg/L	0.061	-	0.076	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: FBP 3A, F-Area Burning/Rubble Pits

SRP Grid	N 79838.9		ft (msl)
Coordinates	E 50913.4	Screen Zone Elevation	171.0 - 141.0
Latitude	33.285422° N	Top of Casing Elevation	292.9
Longitude	81.687821° W	Casing Material	PVC

Parameter	Units	03/15/88	06/01/88	09/14/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	193.6	193.4	192.3	191.3
pH	pH	5.3	5.2	5.0	4.8
Conductivity	µmhos/cm	57	60	59	70
Alkalinity	mg/L	4	1	3	1
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.2	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	5.40	-	-	-
Barium	mg/L	0.010	-	-	-
Cadmium	mg/L	< 0.002	-	-	-
Calcium	mg/L	3.47	-	-	-
Iron	mg/L	0.027	-	-	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.006	-	0.010	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	-	-
Sodium	mg/L	4.25	-	-	-
Nitrate (as N)	mg/L	0.50	-	0.44	-
Sulfate	mg/L	10.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.861	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.008	-	0.006	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: FBP 4, F-Area Burning/Rubble Pits

SRP Grid	N 79320.0		ft (msl)
Coordinates	E 51368.2	Screen Zone Elevation	195.2 - 165.2
Latitude	33.285017° N	Top of Casing Elevation	286.3
Longitude	81.685615° W	Casing Material	PVC

Parameter	Units	03/15/88	06/16/88	09/14/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.6	210.4	209.8	209.7
pH	pH	4.9	4.8	4.8	4.5
Conductivity	µmhos/cm	22	25	24	32
Alkalinity	mg/L	0	0	0	1
Gross Alpha	pCi/L	< 3.0	-	11.1	-
Nonvolatile Beta	pCi/L	< 2.0	-	7.1	-
Total Radium	pCi/L	< 1.0	-	2.6	-
Tritium	pCi/mL	6.10	-	-	-
Barium	mg/L	< 0.004	-	-	-
Cadmium	mg/L	< 0.002	-	-	-
Calcium	mg/L	0.584	-	-	-
Iron	mg/L	0.036	-	-	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.002	-	0.003	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	-	-
Sodium	mg/L	2.19	-	-	-
Nitrate (as N)	mg/L	0.58	-	0.47	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.584	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-30
GROUNDWATER MONITORING RESULTS FROM THE F-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: FCB 1, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76835.4		ft (msl)
Coordinates	E 54871.8	Screen Zone Elevation	235.6 - 205.6
Latitude	33.285240° N	Top of Casing Elevation	307.6
Longitude	81.671563° W	Casing Material	PVC

Parameter	Units	02/29/88	06/01/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	230.2	229.7
pH	pH	11.4	11.6
Conductivity	µmhos/cm	1400	1350
Alkalinity	mg/L	399	344
TDS	mg/L	-	-
Gross Alpha	pCi/L	<4.0	-
Nonvolatile Beta	pCi/L	<3.0	-
Total Radium	pCi/L	<1.0	-
Tritium	pCi/mL	10.4	-
Arsenic	mg/L	-	-
Barium	mg/L	0.032	-
Cadmium	mg/L	-	-
Calcium	mg/L	122	-
Chloride	mg/L	-	-
Chromium	mg/L	0.024	-
Copper	mg/L	0.011	0.009
Fluoride	mg/L		
Iron	mg/L	0.015	<0.004
Lead	mg/L	0.032	-
Magnesium	mg/L	-	-
Manganese	mg/L	<0.002	-
Mercury	mg/L	-	-
Potassium	mg/L	-	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	0.0040	-
Sodium	mg/L	3.14	-
Total Phosphates	mg/L	0.060	-
Zinc	mg/L	0.258	0.172
Nitrate (as N)	mg/L	-	
Sulfate	mg/L	<5.0	5.6
Phenols	mg/L	0.038	-
Tot. Org. Carbon	mg/L	1.10	-
Tot. Org. Halogens	mg/L		-

Well: FCB 3, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76427.8		ft (msl)
Coordinates	E 54874.4	Screen Zone Elevation	225.3 - 195.3
Latitude	33.284343° N	Top of Casing Elevation	302.3
Longitude	81.670764° W	Casing Material	PVC

Parameter	Units	02/28/88	06/13/88	09/17/88	12/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.2	221.1	220.5	220.1
pH	pH	6.3	6.0	5.2	5.9
Conductivity	µmhos/cm	91	59	69	59
Alkalinity	mg/L	56	31	34	25
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	8.2	-	9.1	-
Nonvolatile Beta	pCi/L	6.8	-	-	-
Total Radium	pCi/L	4.3	-	2.5	-
Tritium	pCi/mL	9.20	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.018	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	50.2	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	0.005	0.005	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.022	0.140	0.195	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.010	-	0.013	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.55	-	-	-
Total Phosphates	mg/L	0.450	-	-	-
Zinc	mg/L	0.014	0.079	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	<5.0	<5.0		
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-

Well: FCB 2, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76679.7		ft (msl)
Coordinates	E 55046.7	Screen Zone Elevation	235.2 - 205.2
Latitude	33.285181° N	Top of Casing Elevation	307.3
Longitude	81.670800° W	Casing Material	PVC

Parameter	Units	02/26/88	06/13/88	09/17/88	12/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	230	229.4	228.9	228.4
pH	pH	4.7	4.7	4.8	4.5
Conductivity	µmhos/cm	27	24	28	18
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.4	-	3.0	-
Nonvolatile Beta	pCi/L	2.7	-	-	-
Total Radium	pCi/L	1.4	-	1.0	-
Tritium	pCi/mL	7.60	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.007	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.689	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	<0.004	<0.004	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.045	0.018	0.073	-
Lead	mg/L	0.013	-	0.014	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.004	-	0.004	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.39	-	-	-
Total Phosphates	mg/L	0.020	-	-	-
Zinc	mg/L	0.013	0.017	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	<5.0	<5.0	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-

Well: FCB 4, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76780.4		ft (msl)
Coordinates	E 54605.9	Screen Zone Elevation	234.5 - 204.5
Latitude	33.284685° N	Top of Casing Elevation	306.6
Longitude	81.672156° W	Casing Material	PVC

Parameter	Units	03/11/88	06/06/88	09/11/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	229.2	228.5	228.2	227.7
pH	pH	5.9	5.6	4.8	5.0
Conductivity	µmhos/cm	32	41	38	36
Alkalinity	mg/L	4	2	3	2
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	0.8	-	<1.0	-
Tritium	pCi/mL	5.70	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.008	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.946	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	0.007	-	-	-
Copper	mg/L	0.005	0.005	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.735	0.549	0.776	-
Lead	mg/L	0.007	-	0.014	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.054	-	0.057	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.64	-	-	-
Total Phosphates	mg/L	0.040	-	-	-
Zinc	mg/L	0.798	0.531	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	<5.0	<5.0	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-

TABLE 5-30
GROUNDWATER MONITORING RESULTS FROM THE F-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS, CONT'D.

Well: FCB 5, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76492.6		ft (msl)
Coordinates	E 54773.0	Screen Zone Elevation	237.1 - 217.1
Latitude	33.284321° N	Top of Casing Elevation	303.9
Longitude	81.671157° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	226.6
pH	pH	5.5
Conductivity	µmhos/cm	30
Alkalinity	mg/L	0
TDS	mg/L	47
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	<2.0
Total Radium	pCi/L	0.7
Tritium	pCi/mL	7.21
Arsenic	mg/L	<0.002
Barium	mg/L	0.024
Cadmium	mg/L	<0.002
Calcium	mg/L	1.80
Chloride	mg/L	3.2
Chromium	mg/L	<0.004
Copper	mg/L	-
Fluoride	mg/L	<0.10
Iron	mg/L	0.040
Lead	mg/L	<0.006
Magnesium	mg/L	0.371
Manganese	mg/L	0.044
Mercury	mg/L	<0.0002
Potassium	mg/L	0.610
Selenium	mg/L	<0.002
Silica	mg/L	7.59
Silver	mg/L	<0.0020
Sodium	mg/L	2.79
Total Phosphates	mg/L	0.020
Zinc	mg/L	-
Nitrate (as N)	mg/L	0.73
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.009

Well: FCB 6, F-Area Coal Pile Runoff Containment Basin

SRP Grid	N 76582.1		ft (msl)
Coordinates	E 54733.4	Screen Zone Elevation	235.1 - 215.1
Latitude	33.284454° N	Top of Casing Elevation	310.5
Longitude	81.671435° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	228
pH	pH	7.1
Conductivity	µmhos/cm	119
Alkalinity	mg/L	37
TDS	mg/L	109
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	5.2
Total Radium	pCi/L	1.2
Tritium	pCi/mL	8.50
Arsenic	mg/L	<0.002
Barium	mg/L	0.023
Cadmium	mg/L	<0.002
Calcium	mg/L	10.9
Chloride	mg/L	3.7
Chromium	mg/L	<0.004
Copper	mg/L	-
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.784
Manganese	mg/L	0.016
Mercury	mg/L	<0.0002
Potassium	mg/L	5.48
Selenium	mg/L	<0.002
Silica	mg/L	8.57
Silver	mg/L	<0.0020
Sodium	mg/L	8.58
Total Phosphates	mg/L	0.040
Zinc	mg/L	-
Nitrate (as N)	mg/L	1.49
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.038

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

FCB 5 12/04/88
Pest/Herb* analyses detected the following: None

FCB 6 12/04/88
Pest/Herb* analyses detected the following: None

TABLE 5-31
GROUNDWATER MONITORING RESULTS FROM THE F-AREA EFFLUENT TREATMENT RETENTION BASIN WELLS

Well: FET 1D, F-Area Effluent Treatment Basin

SRP Grid Coordinates	N 76165.6 E 53299.9	Screen Zone Elevation	ft (msl) 226.9 - 206.9
Latitude	33.281194° N	Top of Casing Elevation	270.0
Longitude	81.674401° W	Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	222.4
pH	pH	5.7
Conductivity	µmhos/cm	54
Alkalinity	mg/L	4
TDS	mg/L	46
Gross Alpha	pCi/L	1.2
Nonvolatile Beta	pCi/L	2.7
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	6.66
Arsenic	mg/L	< 0.002
Barium	mg/L	0.011
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.47
Chloride	mg/L	3.7
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	1.17
Lead	mg/L	< 0.006
Magnesium	mg/L	0.492
Manganese	mg/L	0.063
Mercury	mg/L	0.0006
Potassium	mg/L	0.854
Selenium	mg/L	< 0.002
Silica	mg/L	8.15
Silver	mg/L	< 0.0020
Sodium	mg/L	10.2
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.70
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.009

Well: FET 3D, F-Area Effluent Treatment Basin

SRP Grid Coordinates	N 75961.0 E 53025.7	Screen Zone Elevation	ft (msl) 223.0 - 203.0
Latitude	33.280294° N	Top of Casing Elevation	285.2
Longitude	81.674725° W	Casing Material	PVC

Parameter	Units	12/10/88
Sampling Method	NA	Pump
Water Elevation	ft	220.9
pH	pH	5.4
Conductivity	µmhos/cm	47
Alkalinity	mg/L	2
TDS	mg/L	< 5
Gross Alpha	pCi/L	1.5
Nonvolatile Beta	pCi/L	1.6
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	8.87
Arsenic	mg/L	< 0.002
Barium	mg/L	0.008
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.45
Chloride	mg/L	3.4
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.381
Manganese	mg/L	0.023
Mercury	mg/L	0.0008
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	6.51
Silver	mg/L	< 0.0020
Sodium	mg/L	10.6
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	2.33
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: FET 2D, F-Area Effluent Treatment Basin

SRP Grid Coordinates	N 76045.8 E 52981.2	Screen Zone Elevation	ft (msl) 229.5 - 209.5
Latitude	33.280409° N	Top of Casing Elevation	270.0
Longitude	81.675007° W	Casing Material	PVC

Parameter	Units	12/10/88
Sampling Method	NA	Pump
Water Elevation	ft	221.1
pH	pH	4.9
Conductivity	µmhos/cm	51
Alkalinity	mg/L	0
TDS	mg/L	34
Gross Alpha	pCi/L	4.6
Nonvolatile Beta	pCi/L	3.5
Total Radium	pCi/L	1.3
Tritium	pCi/mL	10.4
Arsenic	mg/L	< 0.002
Barium	mg/L	0.011
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.26
Chloride	mg/L	4.1
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.021
Lead	mg/L	< 0.006
Magnesium	mg/L	0.842
Manganese	mg/L	0.018
Mercury	mg/L	< 0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	7.00
Silver	mg/L	< 0.0020
Sodium	mg/L	4.40
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	2.59
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: FET 4D, F-Area Effluent Treatment Basin

SRP Grid Coordinates	N 75959.3 E 53149.0	Screen Zone Elevation	ft (msl) 225.1 - 205.1
Latitude	33.280491° N	Top of Casing Elevation	286.9
Longitude	81.674397° W	Casing Material	PVC

Parameter	Units	12/10/88
Sampling Method	NA	Pump
Water Elevation	ft	221.5
pH	pH	5.1
Conductivity	µmhos/cm	47
Alkalinity	mg/L	0
TDS	mg/L	74
Gross Alpha	pCi/L	2.4
Nonvolatile Beta	pCi/L	2.5
Total Radium	pCi/L	0.7
Tritium	pCi/mL	8.38
Arsenic	mg/L	< 0.002
Barium	mg/L	0.009
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.769
Chloride	mg/L	3.4
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.056
Lead	mg/L	< 0.006
Magnesium	mg/L	0.695
Manganese	mg/L	0.017
Mercury	mg/L	< 0.0002
Potassium	mg/L	0.601
Selenium	mg/L	< 0.002
Silica	mg/L	6.02
Silver	mg/L	< 0.0020
Sodium	mg/L	4.31
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	2.59
Sulfate	mg/L	1.7
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.006

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

FET 1D 12/11/88
Pest/Herb* analyses detected the following: None

FET 3D 12/10/88
Pest/Herb* analyses detected the following: None

FET 2D 12/10/88
Pest/Herb* analyses detected the following: None

FET 4D 12/10/88
Pest/Herb* analyses detected the following: None

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS

Well: F 10, F-Area Seepage Basin

SRP Grid	N 75155.3			ft (msl)
Coordinates	E 50444.3	Screen Zone Elevation		276.5 - 266.5
Latitude	33.274299° N	Top of Casing Elevation		280.1
Longitude	81.679956° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	-	-	Pump	-
Water Elevation	ft	-	-	271.6	-
pH	pH	-	-	3.0	-
Conductivity	µmhos/cm	-	-	3260	-
Gross Alpha	pCi/L	-	-	0.0	-
Nonvolatile Beta	pCi/L	-	-	684	-
Tritium	pCi/mL	-	-	32500	-

Well: F 15, F-Area Seepage Basin

SRP Grid	N 74716.0			ft (msl)
Coordinates	E 50738.3	Screen Zone Elevation		-
Latitude	33.273808° N	Top of Casing Elevation		253.5
Longitude	81.678329° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	248.2	207.9	207.4	207.5
pH	pH	4.4	3.3	3.9	4.6
Conductivity	µmhos/cm	103	-	435	122
Gross Alpha	pCi/L	10.0	22.7	-	17.2
Nonvolatile Beta	pCi/L	71.0	116	-	65.2
Tritium	pCi/mL	919	3600	5620	2380

Well: F 16, F-Area Seepage Basin

SRP Grid	N 74597.1			ft (msl)
Coordinates	E 50029.0	Screen Zone Elevation		-
Latitude	33.272387° N	Top of Casing Elevation		255.9
Longitude	81.679965° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	-
Water Elevation	ft	205.9	205.7	206.3	-
pH	pH	4.4	3.4	-	-
Conductivity	µmhos/cm	58	-	-	-
Gross Alpha	pCi/L	7.6	31.8	-	-
Nonvolatile Beta	pCi/L	190	567	-	-
Tritium	pCi/mL	1090	12000	-	-

Well: F 17, F-Area Seepage Basin

SRP Grid	N 74303.4			ft (msl)
Coordinates	E 50466.4	Screen Zone Elevation		-
Latitude	33.272452° N	Top of Casing Elevation		239.8
Longitude	81.678243° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.4	204	203.4	203.8
pH	pH	6.3	6.0	6.9	6.4
Conductivity	µmhos/cm	279	-	335	366
Gross Alpha	pCi/L	9.6	8.2	7.6	49.6
Nonvolatile Beta	pCi/L	2410	3430	3240	6800
Tritium	pCi/mL	2970	2530	2760	3380

Well: F 18A, F-Area Seepage Basin

SRP Grid	N 74170.2			ft (msl)
Coordinates	E 50108.0	Screen Zone Elevation		204.4 - 194.4
Latitude	33.271572° N	Top of Casing Elevation		233.4
Longitude	81.678928° W	Casing Material		PVC

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203.4	203.2	202.5	202.4
pH	pH	3.5	2.7	3.4	3.6
Conductivity	µmhos/cm	1016	-	810	452
Gross Alpha	pCi/L	16.9	43.5	50.5	140
Nonvolatile Beta	pCi/L	398	262	234	193
Tritium	pCi/mL	14800	3470	6290	4910

Well: F 24, F-Area Seepage Basin

SRP Grid	N 76069.0			ft (msl)
Coordinates	E 51322.9	Screen Zone Elevation		-
Latitude	33.277754° N	Top of Casing Elevation		291.0
Longitude	81.679418° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	-	-	-
Water Elevation	ft	219.6	-	-	-
pH	pH	5.7	-	-	-
Conductivity	µmhos/cm	40	-	-	-
Gross Alpha	pCi/L	0.0	-	-	-
Nonvolatile Beta	pCi/L	3.4	-	-	-
Tritium	pCi/mL	44.7	-	-	-

Well: F 25, F-Area Seepage Basin

SRP Grid	N 75083.8			ft (msl)
Coordinates	E 51322.1	Screen Zone Elevation		-
Latitude	33.275574° N	Top of Casing Elevation		260.9
Longitude	81.677506° W	Casing Material		Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.9	211.4	212.1	212.1
pH	pH	5.9	4.9	5.6	6.6
Conductivity	µmhos/cm	83	-	54	67
Gross Alpha	pCi/L	0.9	1.4	1.6	4.7
Nonvolatile Beta	pCi/L	89.5	82.6	113	258
Tritium	pCi/mL	127	68.2	38.4	34.2

Other Analyses

F 10	08/13/88	
Strontium 89/90		173 pCi/L

Well: FSB 76, F-Area Seepage Basins

SRP Grid	N 76141.6			ft (msl)
Coordinates	E 51388.8	Screen Zone Elevation		227.0 - 197.0
Latitude	33.278022° N	Top of Casing Elevation		294.2
Longitude	81.679386° W	Casing Material		PVC

Parameter	Units	01/13/88	04/03/88	07/05/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.6	217.2	216.5	215.9
pH	pH	5.4	5.5	5.2	5.2
Conductivity	µmhos/cm	49	69	67	74
Alkalinity	mg/L	3	2	4	3
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	7.0	7.7	7.8	8.3
Nonvolatile Beta	pCi/L	9.2	6.9	10.8	7.3
Total Radium	pCi/L	3.0	-	2.4	-
Tritium	pCi/mL	293	323	260	523
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.012	-	0.013	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.37	-	-	-
Chloride	mg/L	1.8	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.331	0.646	0.623
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.028	< 0.004	0.023	< 0.020
Lead	mg/L	0.044	0.044	< 0.006	0.049
Magnesium	mg/L	1.21	-	-	-
Manganese	mg/L	0.007	0.011	0.008	0.010
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.005	0.005	< 0.004	0.007
Potassium	mg/L	< 0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	5.09	5.15	7.12	9.10
Total Phosphates	mg/L	0.040	< 0.020	< 0.020	< 0.020
Zinc	mg/L	0.945	0.817	0.938	0.827
Nitrate (as N)	mg/L	4.73	5.60	6.27	6.11
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.122
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 76A, F-Area Seepage Basins

SRP Grid	N 76131.9			ft (msl)
Coordinates	E 51391.6	Screen Zone Elevation		47.4 - 36.9
Latitude	33.278005° N	Top of Casing Elevation		293.9
Longitude	81.679359° W	Casing Material		PVC

Parameter	Units	02/17/88	04/03/88	07/05/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	154.4	154.9	153.9	152.8
pH	pH	6.8	6.9	6.4	6.5
Conductivity	µmhos/cm	113	128	112	137
Alkalinity	mg/L	57	44	45	45
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	<3.0	2.1	<3.0
Nonvolatile Beta	pCi/L	4.4	1.7	2.9	2.3
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	1.50	<0.70	<0.70	<0.70
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.024	-	0.019	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	22.5	-	-	-
Chloride	mg/L	2.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.008	<0.004	0.009
Fluoride	mg/L	0.11	-	-	-
Iron	mg/L	0.007	<0.004	0.598	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.455	-	-	-
Manganese	mg/L	0.006	0.005	0.007	0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	3.12	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.47	2.26	1.98	2.07
Total Phosphates	mg/L	0.310	0.300	0.300	0.430
Zinc	mg/L	0.010	0.015	0.017	0.029
Nitrate (as N)	mg/L	0.27	0.41	<0.05	<0.05
Sulfate	mg/L	8.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 76B, F-Area Seepage Basins

SRP Grid	N 76122.4			ft (msl)
Coordinates	E 51394.0	Screen Zone Elevation		109.7 - 99.2
Latitude	33.277988° N	Top of Casing Elevation		293.8
Longitude	81.679335° W	Casing Material		PVC

Parameter	Units	01/13/88	04/03/88	07/05/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	151	151.7	150.5	150.3
pH	pH	6.7	7.0	6.7	6.8
Conductivity	µmhos/cm	116	136	130	121
Alkalinity	mg/L	53	55	54	53
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	<3.0	1.1	<3.0
Nonvolatile Beta	pCi/L	<2.0	2.7	<2.0	<2.0
Total Radium	pCi/L	<1.0	-	0.4	-
Tritium	pCi/mL	1.60	<0.70	<0.70	<0.70
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.021	-	0.018	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	24.9	-	-	-
Chloride	mg/L	2.6	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.010	<0.004	0.014
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.070	<0.004	0.093	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.630	-	-	-
Manganese	mg/L	<0.002	<0.002	<0.002	0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.737	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.22	1.62	1.65	1.85
Total Phosphates	mg/L	0.360	0.290	0.470	0.340
Zinc	mg/L	0.005	0.005	0.027	0.017
Nitrate (as N)	mg/L	0.66	0.77	0.64	0.61
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 76C, F-Area Seepage Basins

SRP Grid	N 76112.4			ft (msl)
Coordinates	E 51396.4	Screen Zone Elevation		165.3 - 154.8
Latitude	33.277970° N	Top of Casing Elevation		293.6
Longitude	81.679309° W	Casing Material		PVC

Parameter	Units	01/13/88	04/03/88	07/05/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.7	212.1	211.6	211
pH	pH	6.2	6.0	5.7	5.8
Conductivity	µmhos/cm	38	49	44	43
Alkalinity	mg/L	15	11	21	11
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.8	<3.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	<2.0	<2.0	0.8
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	3.30	2.78	3.55	2.17
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.007	-	0.007	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.12	-	-	-
Chloride	mg/L	<1.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	0.247
Copper	mg/L	-	0.012	0.005	0.017
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.019	0.128	0.006	0.147
Lead	mg/L	<0.006	<0.006	0.009	<0.006
Magnesium	mg/L	0.304	-	-	-
Manganese	mg/L	0.018	0.018	0.015	0.028
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.56	2.02	2.15	3.84
Total Phosphates	mg/L	0.040	0.060	0.020	0.050
Zinc	mg/L	0.024	0.026	0.029	0.037
Nitrate (as N)	mg/L	1.31	0.56	1.24	1.19
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.007	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 77, F-Area Seepage Basins

SRP Grid	N 75129.4			ft (msl)
Coordinates	E 50713.1	Screen Zone Elevation		216.4 - 186.4
Latitude	33.274681° N	Top of Casing Elevation		273.3
Longitude	81.679198° W	Casing Material		PVC

Parameter	Units	01/13/88	04/03/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213	212.6	212.1	211.9
pH	pH	3.3	3.8	3.5	3.7
Conductivity	µmhos/cm	734	945	592	278
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	548	706	366	253
Nonvolatile Beta	pCi/L	1090	1400	790	341
Total Radium	pCi/L	27.5	-	16.0	-
Tritium	pCi/mL	10800	7430	36500	2280
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.117	-	0.084	-
Cadmium	mg/L	0.005	0.005	<0.002	<0.002
Calcium	mg/L	2.10	-	-	-
Chloride	mg/L	3.6	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.054	0.071	0.133
Fluoride	mg/L	0.93	-	-	-
Iron	mg/L	0.026	0.031	0.044	0.021
Lead	mg/L	0.020	0.013	<0.006	0.016
Magnesium	mg/L	2.20	-	-	-
Manganese	mg/L	0.365	0.432	0.200	0.080
Mercury	mg/L	0.0006	0.0005	0.0002	0.0002
Nickel	mg/L	0.014	0.012	<0.004	0.005
Potassium	mg/L	0.764	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	44.0	37.3	14.5	9.70
Total Phosphates	mg/L	<0.020	<0.020	0.050	<0.020
Zinc	mg/L	0.076	0.045	0.038	0.036
Nitrate (as N)	mg/L	90.6	16.8	57.8	24.7
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 78, F-Area Seepage Basins

SRP Grid	N 74764.0			ft (msl)
Coordinates	E 50164.7	Screen Zone Elevation		217.7 - 187.7
Latitude	33.272978° N	Top of Casing Elevation		272.6
Longitude	81.679932° W	Casing Material		PVC

Parameter	Units	01/23/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.9	208.6	208.1	208.2
pH	pH	3.0	3.3	2.9	2.9
Conductivity	µmhos/cm	2800	3310	3300	3140
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1580	2030	1640	1240
Nonvolatile Beta	pCi/L	4420	5960	4880	4310
Total Radium	pCi/L	19.5	-	8.6	-
Tritium	pCi/mL	46100	36200	3660	48200
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.192	-	0.183	-
Cadmium	mg/L	0.017	0.020	0.013	0.008
Calcium	mg/L	2.50	-	-	-
Chloride	mg/L	< 1.0	-	-	-
Chromium	mg/L	0.021	0.032	0.018	0.032
Copper	mg/L	-	0.610	0.077	0.090
Fluoride	mg/L	0.75	-	-	-
Iron	mg/L	0.142	0.121	0.089	0.098
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.93	-	-	-
Manganese	mg/L	0.556	1.55	1.19	1.12
Mercury	mg/L	0.0002	0.0011	0.0015	0.0009
Nickel	mg/L	0.054	0.065	0.049	0.050
Potassium	mg/L	3.56	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0030	-	-	-
Sodium	mg/L	55.4	51.7	78.9	89.0
Total Phosphates	mg/L	0.130	0.130	0.150	0.360
Zinc	mg/L	0.191	0.193	0.165	0.185
Nitrate (as N)	mg/L	248	404	327	416
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	2.20	4.70	5.40	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 78B, F-Area Seepage Basins

SRP Grid	N 74765.9			ft (msl)
Coordinates	E 50178.8	Screen Zone Elevation		92.8 - 82.4
Latitude	33.273005° N	Top of Casing Elevation		272.8
Longitude	81.679898° W	Casing Material		PVC

Parameter	Units	01/22/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153.6	153.7	152.9	152.8
pH	pH	7.7	7.7	7.2	7.3
Conductivity	µmhos/cm	199	229	221	228
Alkalinity	mg/L	0	76	68	76
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.6	0.8	1.9	1.6
Nonvolatile Beta	pCi/L	9.9	13.3	9.8	5.2
Total Radium	pCi/L	0.9	-	< 1.0	-
Tritium	pCi/mL	556	240	221	215
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.042	-	0.044	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	32.4	-	-	-
Chloride	mg/L	1.9	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.008	0.007	0.012
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.005	0.025	0.014	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.600	-	-	-
Manganese	mg/L	< 0.002	< 0.002	0.002	0.002
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	0.931	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	3.81	3.40	3.49	3.55
Total Phosphates	mg/L	< 0.020	0.060	0.110	0.080
Zinc	mg/L	0.003	0.014	0.007	0.011
Nitrate (as N)	mg/L	7.30	6.86	6.63	5.55
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 78A, F-Area Seepage Basins

SRP Grid	N 74757.7			ft (msl)
Coordinates	E 50172.8	Screen Zone Elevation		37.5 - 27.0
Latitude	33.272977° N	Top of Casing Elevation		272.6
Longitude	81.679898° W	Casing Material		PVC

Parameter	Units	01/22/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	155.4	155.2	154.6	154.3
pH	pH	6.8	6.7	6.3	6.4
Conductivity	µmhos/cm	99	116	114	135
Alkalinity	mg/L	33	49	40	33
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	< 3.0	< 3.0	2.3	1.3
Nonvolatile Beta	pCi/L	4.2	2.9	5.1	4.5
Total Radium	pCi/L	0.5	-	< 1.0	-
Tritium	pCi/mL	14.6	8.10	23.6	9.00
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.019	-	0.018	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	15.3	-	-	-
Chloride	mg/L	2.9	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.004	< 0.004	0.009
Fluoride	mg/L	0.13	-	-	-
Iron	mg/L	< 0.004	0.010	0.015	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.522	-	-	-
Manganese	mg/L	0.018	0.014	0.012	0.013
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.30	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.32	1.68	1.80	1.79
Total Phosphates	mg/L	0.220	0.200	0.180	0.160
Zinc	mg/L	0.004	0.011	0.005	0.014
Nitrate (as N)	mg/L	22.1	0.26	0.46	0.18
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 78C, F-Area Seepage Basins

SRP Grid	N 74772.5			ft (msl)
Coordinates	E 50170.2	Screen Zone Elevation		151.4 - 141.6
Latitude	33.273006° N	Top of Casing Elevation		273.5
Longitude	81.679934° W	Casing Material		PVC

Parameter	Units	01/24/88	04/05/88	07/10/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208	207.7	207.1	206.9
pH	pH	4.3	4.5	4.1	4.3
Conductivity	µmhos/cm	1850	2150	2010	2010
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	95.3	318	310	85.4
Nonvolatile Beta	pCi/L	1750	1820	1770	1570
Total Radium	pCi/L	38.9	-	20.5	-
Tritium	pCi/mL	10100	9010	8530	10700
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.467	-	0.429	-
Cadmium	mg/L	0.018	0.016	0.016	0.009
Calcium	mg/L	172	-	-	-
Chloride	mg/L	< 1.0	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.034	0.045	0.052
Fluoride	mg/L	1.53	-	-	-
Iron	mg/L	0.120	0.156	0.017	0.100
Lead	mg/L	0.007	0.016	0.031	0.016
Magnesium	mg/L	30.0	-	-	-
Manganese	mg/L	4.94	5.39	5.40	7.80
Mercury	mg/L	< 0.0002	< 0.0002	0.0005	< 0.0002
Nickel	mg/L	0.104	0.097	0.090	0.063
Potassium	mg/L	4.37	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0030	-	-	-
Sodium	mg/L	136	112	173	99.5
Total Phosphates	mg/L	0.080	0.080	0.100	0.070
Zinc	mg/L	0.714	0.524	0.439	0.489
Nitrate (as N)	mg/L	237	215	200	218
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	2.70	1.00	2.60	1.10
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 79, F-Area Seepage Basins

SRP Grid	N	73663.1		ft (msl)
Coordinates	E	50139.7	Screen Zone Elevation	204.1 - 174.1
Latitude		33.270502° N	Top of Casing Elevation	217.8
Longitude		81.677859° W	Casing Material	PVC

Parameter	Units	01/23/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	202.2	201.7	201.5	201.3
pH	pH	3.3	3.5	3.3	3.2
Conductivity	µmhos/cm	1900	1867	1933	1902
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	528	540	704	370
Nonvolatile Beta	pCi/L	1650	1760	1640	1350
Total Radium	pCi/L	41.0	-	20.0	-
Tritium	pCi/mL	21700	19400	10600	22200
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.433	-	0.389	-
Cadmium	mg/L	0.005	0.007	0.005	0.003
Calcium	mg/L	4.62	-	-	-
Chloride	mg/L	1.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.075	0.056	0.064
Fluoride	mg/L	1.11	-	-	-
Iron	mg/L	0.175	0.192	0.173	0.209
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	2.25	-	-	-
Manganese	mg/L	4.22	4.54	4.54	8.65
Mercury	mg/L	0.0012	0.0011	0.0010	0.0007
Nickel	mg/L	0.051	0.047	0.038	0.043
Potassium	mg/L	1.73	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	165	129	115	120
Total Phosphates	mg/L	0.040	0.050	0.140	0.150
Zinc	mg/L	0.160	0.180	0.129	0.251
Nitrate (as N)	mg/L	219	201	188	250
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	1.60	1.40	1.50	<1.000
Tot. Org. Halogens	mg/L	0.007	<0.005	<0.005	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 79B, F-Area Seepage Basins

SRP Grid	N	73666.1		ft (msl)
Coordinates	E	50159.2	Screen Zone Elevation	91.2 - 80.7
Latitude		33.270541° N	Top of Casing Elevation	218.2
Longitude		81.677813° W	Casing Material	PVC

Parameter	Units	01/22/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	157.3	157.1	156.5	156.5
pH	pH	6.8	7.2	6.8	6.8
Conductivity	µmhos/cm	159	164	163	168
Alkalinity	mg/L	68	70	76	65
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	1.5	1.0	<3.0
Nonvolatile Beta	pCi/L	2.1	2.1	2.7	1.1
Total Radium	pCi/L	1.6	-	<1.0	-
Tritium	pCi/mL	17.2	11.9	11.6	11.4
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.024	-	0.024	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	26.2	-	-	-
Chloride	mg/L	1.8	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	<0.004	0.011
Fluoride	mg/L	0.16	-	-	-
Iron	mg/L	0.005	<0.004	0.026	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.493	-	-	-
Manganese	mg/L	<0.002	0.002	<0.002	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.738	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.00	1.87	1.85	1.90
Total Phosphates	mg/L	0.450	0.380	0.360	0.390
Zinc	mg/L	<0.002	0.008	0.005	0.010
Nitrate (as N)	mg/L	0.79	0.82	0.79	0.85
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 79A, F-Area Seepage Basins

SRP Grid	N	73664.5		ft (msl)
Coordinates	E	50149.6	Screen Zone Elevation	34.4 - 24.0
Latitude		33.270522° N	Top of Casing Elevation	218.1
Longitude		81.677836° W	Casing Material	PVC

Parameter	Units	01/22/88	04/05/88	07/30/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	157.1	156.7	155.9	156.5
pH	pH	6.6	6.6	6.2	6.2
Conductivity	µmhos/cm	830	85	83	85
Alkalinity	mg/L	29	29	40	30
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	<3.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	<2.0	1.5	1.2
Total Radium	pCi/L	0.5	-	<1.0	-
Tritium	pCi/mL	15.0	18.3	9.04	9.34
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.016	-	0.018	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	11.3	-	-	-
Chloride	mg/L	1.9	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	0.069
Copper	mg/L	-	<0.004	0.026	0.007
Fluoride	mg/L	0.16	-	-	-
Iron	mg/L	0.004	0.104	0.048	0.043
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.449	-	-	-
Manganese	mg/L	<0.002	0.004	0.007	0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.02	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.27	1.73	1.68	2.55
Total Phosphates	mg/L	0.160	0.130	0.140	0.130
Zinc	mg/L	0.002	0.005	0.022	0.009
Nitrate (as N)	mg/L	0.41	0.49	0.19	0.29
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 79C, F-Area Seepage Basins

SRP Grid	N	73668.0		ft (msl)
Coordinates	E	50171.3	Screen Zone Elevation	159.6 - 149.8
Latitude		33.270565° N	Top of Casing Elevation	218.4
Longitude		81.677785° W	Casing Material	PVC

Parameter	Units	01/22/88	04/05/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	196.8	196.4	196	196.1
pH	pH	3.2	3.7	3.4	3.4
Conductivity	µmhos/cm	1625	1697	1616	1515
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1030	1250	1010	638
Nonvolatile Beta	pCi/L	4830	5390	4890	4780
Total Radium	pCi/L	88.7	-	49.4	-
Tritium	pCi/mL	10400	9620	8660	11300
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.620	-	0.530	-
Cadmium	mg/L	0.037	0.037	0.040	0.032
Calcium	mg/L	16.9	-	-	-
Chloride	mg/L	<1.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.098	0.086	0.080
Fluoride	mg/L	1.64	-	-	-
Iron	mg/L	0.042	0.051	0.067	0.040
Lead	mg/L	0.014	<0.006	0.007	<0.006
Magnesium	mg/L	10.3	-	-	-
Manganese	mg/L	2.56	2.55	2.54	2.38
Mercury	mg/L	0.0002	<0.0002	0.0016	0.0004
Nickel	mg/L	0.051	0.045	0.040	0.035
Potassium	mg/L	2.85	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	148	111	11800	122
Total Phosphates	mg/L	0.020	0.040	0.070	0.030
Zinc	mg/L	0.163	0.134	0.127	0.134
Nitrate (as N)	mg/L	206	182	187	165
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.009	0.009	0.006	0.010
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 87A, F-Area Seepage Basins

SRP Grid	N	75601.7		ft (msl)
Coordinates	E	50115.8	Screen Zone Elevation	43.6 - 33.1
Latitude	33.274751° N		Top of Casing Elevation	287.8
Longitude	81.681688° W		Casing Material	PVC

Parameter	Units	02/17/88	04/03/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153	153.4	152.4	152.2
pH	pH	6.4	6.6	6.2	6.3
Conductivity	µmhos/cm	88	105	104	107
Alkalinity	mg/L	36	46	65	36
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	0.9	1.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	2.3	1.9	<2.0
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	20.3	7.20	16.4	18.6
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.021	-	0.015	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	19.6	-	-	-
Chloride	mg/L	2.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.004	<0.004	0.008
Fluoride	mg/L	0.10	-	-	-
Iron	mg/L	0.006	<0.004	0.046	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.531	-	-	-
Manganese	mg/L	0.006	0.002	0.003	0.003
Mercury	mg/L	<0.0002	<0.0002	0.0011	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.02	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.70	1.70	1.73	1.73
Total Phosphates	mg/L	0.320	0.250	0.320	0.250
Zinc	mg/L	0.007	0.008	0.011	0.011
Nitrate (as N)	mg/L	0.51	0.36	0.33	0.30
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 87B, F-Area Seepage Basins

SRP Grid	N	75597.0		ft (msl)
Coordinates	E	50104.9	Screen Zone Elevation	100.5 - 90.0
Latitude	33.274722° N		Top of Casing Elevation	287.5
Longitude	81.681708° W		Casing Material	PVC

Parameter	Units	01/23/88	04/03/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	150.4	150.8	149.5	149.7
pH	pH	6.4	6.6	6.0	5.9
Conductivity	µmhos/cm	720	81	66	67
Alkalinity	mg/L	21	25	22	14
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	1.9	0.8	2.5
Nonvolatile Beta	pCi/L	<2.0	4.9	3.8	4.2
Total Radium	pCi/L	0.4	-	0.6	-
Tritium	pCi/mL	52.3	38.2	43.0	41.1
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.006	-	0.004	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	11.3	-	-	-
Chloride	mg/L	1.6	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.006	<0.004	0.007
Fluoride	mg/L	0.27	-	-	-
Iron	mg/L	0.008	<0.004	0.095	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.481	-	-	-
Manganese	mg/L	0.004	0.003	0.004	0.004
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.918	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.16	1.80	2.19	2.14
Total Phosphates	mg/L	1.29	1.65	<0.020	1.24
Zinc	mg/L	0.015	0.006	<0.002	0.014
Nitrate (as N)	mg/L	1.78	1.47	2.74	2.21
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 87C, F-Area Seepage Basins

SRP Grid	N	75591.9		ft (msl)
Coordinates	E	50093.4	Screen Zone Elevation	159.3 - 148.8
Latitude	33.274692° N		Top of Casing Elevation	287.5
Longitude	81.681728° W		Casing Material	PVC

Parameter	Units	01/23/88	04/03/88	07/09/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.8	208.4	207.5	207.6
pH	pH	6.4	6.5	6.1	6.0
Conductivity	µmhos/cm	1150	133	157	170
Alkalinity	mg/L	9	20	10	8
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.3	2.2	4.5	1.6
Nonvolatile Beta	pCi/L	3.8	6.7	12.5	11.1
Total Radium	pCi/L	0.8	-	0.6	-
Tritium	pCi/mL	203	825	776	922
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.015	-	0.024	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	9.76	-	-	-
Chloride	mg/L	1.6	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.008	0.004	0.009
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.014	<0.004	0.021	<0.020
Lead	mg/L	<0.006	0.027	<0.006	0.008
Magnesium	mg/L	1.18	-	-	-
Manganese	mg/L	0.006	0.010	0.008	0.012
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	0.004	<0.004	<0.004
Potassium	mg/L	0.713	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	5.96	4.04	8.93	8.90
Total Phosphates	mg/L	0.070	<0.020	0.020	<0.020
Zinc	mg/L	0.008	0.799	0.007	0.018
Nitrate (as N)	mg/L	6.15	10.6	13.5	12.9
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	2.00	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 87D, F-Area Seepage Basins

SRP Grid	N	75586.3		ft (msl)
Coordinates	E	50081.1	Screen Zone Elevation	216.8 - 187.4
Latitude	33.274660° N		Top of Casing Elevation	287.3
Longitude	81.681749° W		Casing Material	PVC

Parameter	Units	01/24/88	04/04/88	07/10/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	3.1	5.7	5.3	5.9
Conductivity	µmhos/cm	885	212	204	179
Alkalinity	mg/L	0	5	15	26
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	153	19.6	22.1	23.1
Nonvolatile Beta	pCi/L	879	62.1	66.6	54.1
Total Radium	pCi/L	33.4	-	4.4	-
Tritium	pCi/mL	8620	1930	1890	3530
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.520	-	0.075	-
Cadmium	mg/L	0.040	0.007	0.003	0.002
Calcium	mg/L	31.0	-	-	-
Chloride	mg/L	1.4	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	0.006
Copper	mg/L	-	0.604	0.630	0.339
Fluoride	mg/L	0.42	-	-	-
Iron	mg/L	0.354	0.147	0.122	0.120
Lead	mg/L	0.048	0.030	<0.006	<0.006
Magnesium	mg/L	15.2	-	-	-
Manganese	mg/L	1.23	0.483	0.279	0.323
Mercury	mg/L	<0.0002	<0.0002	0.0005	<0.0002
Nickel	mg/L	0.036	0.018	0.010	0.010
Potassium	mg/L	2.68	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	5.55	34.2	945	13.2
Total Phosphates	mg/L	<0.020	0.020	0.030	<0.020
Zinc	mg/L	0.245	0.211	0.156	0.157
Nitrate (as N)	mg/L	117	33.0	32.5	28.8
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.014	0.008	0.008	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 88C, F-Area Seepage Basins

SRP Grid	N 75619.4			ft (msl)
Coordinates	E 51518.0	Screen Zone Elevation		168.4 - 158.4
Latitude	33.277078° N	Top of Casing Elevation		283.0
Longitude	81.678031° W	Casing Material		PVC

Parameter	Units	02/07/88	05/03/88	07/09/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.2	211.7	211.6	211
pH	pH	5.7	5.6	5.5	5.1
Conductivity	µmhos/cm	52	48	47	56
Alkalinity	mg/L	10	9	6	7
TDS	mg/L	58	38	46	82
Gross Alpha	pCi/L	<3.0	1.0	1.0	<3.0
Nonvolatile Beta	pCi/L	1.7	<2.0	1.2	1.6
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	18.1	14.7	17.6	25.7
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.015	<0.004	0.012	0.020
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	3.95	0.751	3.07	4.83
Chloride	mg/L	1.5	3.2	2.9	3.4
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	0.005
Fluoride	mg/L	<0.10	<0.10	0.12	<0.10
Iron	mg/L	0.008	0.042	0.028	0.129
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.441	0.010	0.468	0.570
Manganese	mg/L	0.021	0.027	0.018	0.019
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	0.610	0.695	0.581	0.667
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.89	3.86	3.58	7.80
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.93	14.3	3.23	4.07
Total Phosphates	mg/L	0.050	0.030	0.020	0.060
Zinc	mg/L	-	-	0.030	0.011
Nitrate (as N)	mg/L	1.77	1.22	1.75	1.79
Sulfate	mg/L	5.0	5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.010	0.011	0.008	0.013
Carbon Tetrachloride	mg/L	-	-	<0.001	<0.005
Chloroform	mg/L	-	-	<0.001	<0.005
Tetrachloroethylene	mg/L	-	-	0.007	0.008
Trichloroethylene	mg/L	-	-	<0.001	<0.005
1,1,1-TCE	mg/L	-	-	<0.001	<0.005

Well: FSB 89C, F-Area Seepage Basins

SRP Grid	N 75553.2			ft (msl)
Coordinates	E 51345.2	Screen Zone Elevation		166.1 - 156.1
Latitude	33.276650° N	Top of Casing Elevation		281.3
Longitude	81.678357° W	Casing Material		PVC

Parameter	Units	02/13/88	04/01/88	07/10/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.6	211.5	210.8	210.4
pH	pH	6.4	6.0	5.8	5.8
Conductivity	µmhos/cm	70	68	62	67
Alkalinity	mg/L	15	15	13	18
TDS	mg/L	46	48	56	90
Gross Alpha	pCi/L	<3.0	<3.0	1.3	1.1
Nonvolatile Beta	pCi/L	<2.0	3.8	2.1	2.5
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	24.0	31.5	18.7	25.0
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.012	0.010	0.015
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.00	4.36	4.30	4.55
Chloride	mg/L	2.8	3.1	2.5	3.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	0.011
Fluoride	mg/L	<0.10	0.11	<0.10	<0.10
Iron	mg/L	0.010	0.006	0.019	0.021
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.358	0.363	0.423	0.406
Manganese	mg/L	0.025	0.025	0.021	0.031
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	2.75	2.30	1.75	2.12
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.32	4.42	4.10	4.48
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	4.81	4.59	3.72	3.77
Total Phosphates	mg/L	0.080	0.040	<0.020	0.030
Zinc	mg/L	-	-	0.008	0.024
Nitrate (as N)	mg/L	1.83	1.82	1.60	1.87
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.011	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.005	0.005	0.008
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	0.005	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 88D, F-Area Seepage Basins

SRP Grid	N 75621.8			ft (msl)
Coordinates	E 51527.0	Screen Zone Elevation		222.1 - 202.1
Latitude	33.277098° N	Top of Casing Elevation		282.4
Longitude	81.678012° W	Casing Material		PVC

Parameter	Units	02/08/88	04/02/88	07/10/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.9	215.5	214.9	214.6
pH	pH	5.9	5.2	4.2	4.4
Conductivity	µmhos/cm	798	1200	1180	959
Alkalinity	mg/L	54	6	0	0
TDS	mg/L	626	962	952	662
Gross Alpha	pCi/L	50.3	403	333	141
Nonvolatile Beta	pCi/L	352	1710	1070	734
Total Radium	pCi/L	3.7	7.1	9.2	7.7
Tritium	pCi/mL	3120	3240	3000	2810
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.254	0.292	0.324	0.358
Cadmium	mg/L	0.113	<0.002	0.003	<0.002
Calcium	mg/L	49.2	36.6	45.5	31.9
Chloride	mg/L	1.5	1.4	1.0	<1.0
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.014	0.027
Fluoride	mg/L	<0.10	0.29	0.36	0.27
Iron	mg/L	0.157	0.532	0.204	0.217
Lead	mg/L	<0.006	0.012	0.024	0.071
Magnesium	mg/L	4.82	4.28	4.80	6.39
Manganese	mg/L	0.656	0.638	0.954	1.21
Mercury	mg/L	<0.0002	<0.0002	0.0005	<0.0002
Nickel	mg/L	-	-	0.019	0.028
Potassium	mg/L	1.41	9.81	<0.500	5.58
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	9.52	10.8	34.4	28.3
Silver	mg/L	<0.0020	0.0030	<0.0020	<0.0020
Sodium	mg/L	124	140	16400	95.9
Total Phosphates	mg/L	0.080	0.080	0.070	0.050
Zinc	mg/L	-	-	0.139	0.189
Nitrate (as N)	mg/L	79.6	120	140	110
Sulfate	mg/L	5.0	<5.0	<5.0	7.9
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.10	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.009	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 89D, F-Area Seepage Basins

SRP Grid	N 75548.3			ft (msl)
Coordinates	E 51335.8	Screen Zone Elevation		221.9 - 201.9
Latitude	33.276623° N	Top of Casing Elevation		281.2
Longitude	81.678372° W	Casing Material		PVC

Parameter	Units	02/13/88	04/01/88	07/10/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.2	215	214.3	214
pH	pH	5.3	5.0	4.3	4.1
Conductivity	µmhos/cm	175	205	317	578
Alkalinity	mg/L	6	4	0	0
TDS	mg/L	138	150	236	392
Gross Alpha	pCi/L	32.2	29.2	94.9	99.5
Nonvolatile Beta	pCi/L	338	296	562	830
Total Radium	pCi/L	2.4	3.2	2.9	6.8
Tritium	pCi/mL	1070	1410	1510	2530
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.042	0.060	0.075	0.117
Cadmium	mg/L	<0.002	<0.002	<0.002	0.003
Calcium	mg/L	7.60	7.60	7.33	9.20
Chloride	mg/L	1.8	2.5	2.4	7.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.012	0.026
Fluoride	mg/L	<0.10	<0.10	0.17	0.18
Iron	mg/L	0.014	0.026	0.016	0.108
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.899	1.14	1.25	1.48
Manganese	mg/L	0.191	0.216	0.330	0.495
Mercury	mg/L	<0.0002	<0.0002	0.0008	0.0005
Nickel	mg/L	-	-	0.009	0.014
Potassium	mg/L	1.87	1.46	0.931	1.08
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.93	6.87	6.55	7.17
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	20.8	22.8	33.4	65.2
Total Phosphates	mg/L	0.030	0.030	0.030	<0.020
Zinc	mg/L	-	-	0.033	0.065
Nitrate (as N)	mg/L	7.64	19.3	27.1	51.4
Sulfate	mg/L	5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 90C, F-Area Seepage Basins

SRP Grid	N 75382.9			ft (msl)
Coordinates	E 51148.6	Screen Zone Elevation		168.1 - 158.1
Latitude	33.275952° N	Top of Casing Elevation		278.4
Longitude	81.678544° W	Casing Material		PVC

Parameter	Units	02/13/88	04/02/88	07/10/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.3	210.4	209.9	209.4
pH	pH	6.6	6.5	6.7	7.2
Conductivity	µmhos/cm	195	175	208	203
Alkalinity	mg/L	50	13	41	40
TDS	mg/L	184	132	156	272
Gross Alpha	pCi/L	2.0	2.3	4.8	8.4
Nonvolatile Beta	pCi/L	22.2	17.3	19.2	13.9
Total Radium	pCi/L	0.5	1.3	1.3	0.6
Tritium	pCi/mL	611	981	894	1050
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.057	0.039	0.042	0.044
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	27.2	9.40	17.6	12.4
Chloride	mg/L	2.9	3.4	3.2	3.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	< 0.004	0.009
Fluoride	mg/L	0.10	< 0.10	0.12	< 0.10
Iron	mg/L	0.008	0.017	0.026	0.023
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	2.89	2.30	2.80	2.89
Manganese	mg/L	0.028	0.043	0.022	0.031
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	-	-	0.004	0.005
Potassium	mg/L	1.51	2.92	1.95	2.18
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.41	6.57	4.95	4.99
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	17.1	9.20	7.55	10.7
Total Phosphates	mg/L	0.050	0.030	0.040	< 0.020
Zinc	mg/L	-	-	0.016	0.036
Nitrate (as N)	mg/L	4.18	11.0	14.5	13.2
Sulfate	mg/L	5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	1.10	< 1.000	2.10
Tot. Org. Halogens	mg/L	0.011	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	-
Chloroform	mg/L	-	-	< 0.001	-
Tetrachloroethylene	mg/L	-	-	< 0.001	-
Trichloroethylene	mg/L	-	-	< 0.001	-
1,1,1-TCE	mg/L	-	-	< 0.001	-

Well: FSB 91C, F-Area Seepage Basins

SRP Grid	N 75213.3			ft (msl)
Coordinates	E 50953.5	Screen Zone Elevation		159.1 - 149.1
Latitude	33.275259° N	Top of Casing Elevation		279.3
Longitude	81.678728° W	Casing Material		PVC

Parameter	Units	02/14/88	04/02/88	07/10/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.6	210.6	209.8	209.6
pH	pH	9.1	10.2	5.9	6.7
Conductivity	µmhos/cm	658	740	666	688
Alkalinity	mg/L	50	59	39	48
TDS	mg/L	492	590	549	590
Gross Alpha	pCi/L	103	398	98.1	154
Nonvolatile Beta	pCi/L	1850	1400	1820	1610
Total Radium	pCi/L	45.6	40.8	33.1	33.3
Tritium	pCi/mL	5260	3450	3040	3290
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.376	0.265	0.312	0.241
Cadmium	mg/L	0.002	0.015	0.007	0.004
Calcium	mg/L	58.3	44.9	41.9	51.5
Chloride	mg/L	1.1	3.8	2.1	5.8
Chromium	mg/L	0.006	0.007	< 0.004	< 0.004
Copper	mg/L	-	-	0.014	0.021
Fluoride	mg/L	0.71	1.40	1.39	0.47
Iron	mg/L	0.021	0.009	0.038	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	3.55	1.60	4.46	4.15
Manganese	mg/L	0.436	0.004	0.710	0.550
Mercury	mg/L	< 0.0002	< 0.0002	0.0007	< 0.0002
Nickel	mg/L	-	-	0.018	0.018
Potassium	mg/L	9.89	25.3	8.46	0.884
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	1.67	2.71	2.12	2.21
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	59.2	57.0	5380	49.6
Total Phosphates	mg/L	0.050	0.090	0.030	< 0.020
Zinc	mg/L	-	-	0.026	0.032
Nitrate (as N)	mg/L	45.9	66.3	68.8	66.3
Sulfate	mg/L	< 5.0	9.8	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.00	1.20	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	0.007	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	-
Chloroform	mg/L	-	-	< 0.001	-
Tetrachloroethylene	mg/L	-	-	< 0.001	-
Trichloroethylene	mg/L	-	-	0.001	-
1,1,1-TCE	mg/L	-	-	< 0.001	-

Well: FSB 90D, F-Area Seepage Basins

SRP Grid	N 75376.9			ft (msl)
Coordinates	E 51140.7	Screen Zone Elevation		225.1 - 205.1
Latitude	33.275926° N	Top of Casing Elevation		278.6
Longitude	81.678553° W	Casing Material		PVC

Parameter	Units	02/14/88	04/02/88	07/10/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.2	214	213.3	213.1
pH	pH	4.8	4.2	4.0	4.3
Conductivity	µmhos/cm	1050	1450	1501	1372
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	790	940	1030	1070
Gross Alpha	pCi/L	163	294	102	318
Nonvolatile Beta	pCi/L	2310	1950	3360	3420
Total Radium	pCi/L	45.4	31.6	51.4	63.4
Tritium	pCi/mL	15300	13200	15200	12000
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	0.013
Barium	mg/L	0.538	0.908	1.20	1.25
Cadmium	mg/L	0.013	< 0.002	0.026	0.020
Calcium	mg/L	37.5	43.9	45.8	50.7
Chloride	mg/L	2.7	2.6	2.9	2.7
Chromium	mg/L	0.017	0.005	0.007	0.008
Copper	mg/L	-	-	0.031	0.027
Fluoride	mg/L	0.98	2.50	2.71	0.85
Iron	mg/L	0.165	0.453	0.766	0.526
Lead	mg/L	0.100	0.243	0.194	0.233
Magnesium	mg/L	9.12	12.6	15.5	14.6
Manganese	mg/L	2.05	2.75	4.87	4.48
Mercury	mg/L	< 0.0002	< 0.0002	0.0005	< 0.0002
Nickel	mg/L	-	-	0.058	0.068
Potassium	mg/L	11.7	1.32	9.94	0.620
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	< 0.100	7.95	7.62	7.29
Silver	mg/L	< 0.0020	0.0020	0.0040	< 0.0020
Sodium	mg/L	119	113	11600	96.1
Total Phosphates	mg/L	0.020	0.090	0.060	< 0.020
Zinc	mg/L	-	-	0.434	0.433
Nitrate (as N)	mg/L	139	148	172	170
Sulfate	mg/L	6.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.80	1.40	1.50	1.30
Tot. Org. Halogens	mg/L	0.022	0.019	0.007	0.012
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

Well: FSB 91D, F-Area Seepage Basins

SRP Grid	N 75207.6			ft (msl)
Coordinates	E 50946.6	Screen Zone Elevation		220.9 - 200.9
Latitude	33.275235° N	Top of Casing Elevation		279.2
Longitude	81.678735° W	Casing Material		PVC

Parameter	Units	02/14/88	04/02/88	07/09/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.3	213.2	212.6	212.4
pH	pH	3.3	3.3	3.3	3.2
Conductivity	µmhos/cm	3110	3300	3390	3630
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	116	1260	1290	1520
Gross Alpha	pCi/L	1570	1300	1270	1050
Nonvolatile Beta	pCi/L	3790	5320	3030	3010
Total Radium	pCi/L	63.3	64.8	51.9	72.2
Tritium	pCi/mL	35400	32500	27200	35700
Arsenic	mg/L	0.098	< 0.002	< 0.002	0.016
Barium	mg/L	0.473	0.497	0.472	0.508
Cadmium	mg/L	0.014	0.007	0.012	0.002
Calcium	mg/L	10.4	18.3	11.0	5.94
Chloride	mg/L	2.1	4.1	6.4	< 1.0
Chromium	mg/L	0.086	< 0.004	0.005	< 0.004
Copper	mg/L	-	-	0.047	0.070
Fluoride	mg/L	2.94	3.00	3.32	0.15
Iron	mg/L	0.105	0.142	0.131	0.094
Lead	mg/L	< 0.006	0.087	0.022	< 0.006
Magnesium	mg/L	2.64	2.84	2.89	1.97
Manganese	mg/L	1.33	1.53	1.19	1.64
Mercury	mg/L	0.0003	0.0003	0.0006	0.0005
Nickel	mg/L	-	-	0.043	0.046
Potassium	mg/L	2.56	3.33	3.50	2.55
Selenium	mg/L	< 0.002	< 0.002	0.013	< 0.002
Silica	mg/L	16.1	22.6	8.51	18.6
Silver	mg/L	0.0050	0.0070	0.0080	< 0.0020
Sodium	mg/L	148	99.3	13500	99.2
Total Phosphates	mg/L	0.490	0.690	0.250	0.470
Zinc	mg/L	-	-	0.142	0.145
Nitrate (as N)	mg/L	377	393	361	478
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	-	0.029	0.014
Tot. Org. Carbon	mg/L	2.70	2.60	9.70	4.30
Tot. Org. Halogens	mg/L	0.064	0.028	0.035	0.028
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 92D, F-Area Seepage Basins

SRP Grid	N 75045.8		ft (msl)
Coordinates	E 50557.6	Screen Zone Elevation	221.7 - 201.7
Latitude	33.274242° N	Top of Casing Elevation	275.9
Longitude	81.679445° W	Casing Material	PVC

Parameter	Units	03/06/88	04/02/88	07/16/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.2	212.2	211.4	211.9
pH	pH	3.4	3.5	3.4	3.3
Conductivity	µmhos/cm	2500	2600	1954	2700
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	980	1130	962	1210
Gross Alpha	pCi/L	722	805	245	503
Nonvolatile Beta	pCi/L	6550	10900	7320	7500
Total Radium	pCi/L	116	131	83.7	140
Tritium	pCi/mL	30100	26600	21900	29100
Arsenic	mg/L	0.062	< 0.002	< 0.002	0.067
Barium	mg/L	0.732	1.27	0.914	1.35
Cadmium	mg/L	0.054	0.077	0.077	0.050
Calcium	mg/L	8.04	15.2	17.7	23.8
Chloride	mg/L	2.3	3.5	4.6	4.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.041	0.034
Fluoride	mg/L	3.80	4.10	9.40	4.90
Iron	mg/L	0.058	0.152	0.040	0.102
Lead	mg/L	0.020	0.056	0.022	< 0.006
Magnesium	mg/L	9.60	16.9	25.0	21.8
Manganese	mg/L	1.80	2.31	2.02	2.31
Mercury	mg/L	0.0004	0.0003	0.0005	0.0005
Nickel	mg/L	-	-	0.048	0.060
Potassium	mg/L	4.20	5.49	3.83	6.25
Selenium	mg/L	0.016	< 0.002	< 0.002	0.004
Silica	mg/L	10.2	9.55	6.77	11.4
Silver	mg/L	0.0030	0.0060	0.0050	0.0020
Sodium	mg/L	101	156	151	129
Total Phosphates	mg/L	0.350	0.180	0.040	0.060
Zinc	mg/L	-	-	0.192	0.248
Nitrate (as N)	mg/L	286	287	212	283
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	0.039	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	[illegible]	[illegible]	[illegible]	< 1.000
Tot. Org. Halogens	mg/L	0.010	0.009	0.009	0.022
Carbon Tetrachloride	mg/L	-	-	< 0.001	-
Chloroform	mg/L	-	-	< 0.001	-
Tetrachloroethylene	mg/L	-	-	< 0.001	-
Trichloroethylene	mg/L	-	-	< 0.001	-
1,1,1-TCE	mg/L	-	-	< 0.001	-

Well: FSB 93D, F-Area Seepage Basins

SRP Grid	N 74888.5		ft (msl)
Coordinates	E 50452.4	Screen Zone Elevation	217.9 - 197.9
Latitude	33.273723° N	Top of Casing Elevation	276.1
Longitude	81.679416° W	Casing Material	PVC

Parameter	Units	02/15/88	04/02/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211	210.7	210.1	210.9
pH	pH	4.5	5.2	3.8	4.9
Conductivity	µmhos/cm	1450	1200	2770	1355
Alkalinity	mg/L	0	15	0	0
TDS	mg/L	117	1310	290	1320
Gross Alpha	pCi/L	400	284	270	292
Nonvolatile Beta	pCi/L	3890	2760	3000	2930
Total Radium	pCi/L	60.0	33.9	29.4	55.9
Tritium	pCi/mL	22500	13600	31200	30500
Arsenic	mg/L	0.012	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.481	0.325	0.368	0.790
Cadmium	mg/L	0.006	0.004	0.006	< 0.002
Calcium	mg/L	79.0	96.0	94.2	59.0
Chloride	mg/L	2.9	2.6	4.4	1.4
Chromium	mg/L	0.025	< 0.004	< 0.004	0.013
Copper	mg/L	-	-	0.013	0.024
Fluoride	mg/L	< 0.10	2.70	15.5	3.20
Iron	mg/L	0.889	0.733	0.265	0.026
Lead	mg/L	0.167	0.021	0.039	0.009
Magnesium	mg/L	6.21	4.69	5.58	0.077
Manganese	mg/L	1.22	0.824	0.909	0.003
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	< 0.0002
Nickel	mg/L	-	-	0.020	0.006
Potassium	mg/L	10.2	18.6	11.0	137
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.58	3.31	6.63	10.1
Silver	mg/L	0.0020	< 0.0020	0.0040	< 0.0020
Sodium	mg/L	88.0	90.0	81.8	227
Total Phosphates	mg/L	0.030	0.050	0.030	0.040
Zinc	mg/L	-	-	0.104	0.150
Nitrate (as N)	mg/L	212	209	329	345
Sulfate	mg/L	< 5.0	< 5.0	5.4	13.9
Phenols	mg/L	< 0.005	< 0.005	0.097	< 0.005
Tot. Org. Carbon	mg/L	[illegible]	1.70	2.00	1.20
Tot. Org. Halogens	mg/L	0.016	0.014	0.015	0.021
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

Well: FSB 93C, F-Area Seepage Basins

SRP Grid	N 74897.3		ft (msl)
Coordinates	E 50458.3	Screen Zone Elevation	152.0 - 142.0
Latitude	33.273752° N	Top of Casing Elevation	276.2
Longitude	81.679418° W	Casing Material	PVC

Parameter	Units	02/15/88	04/03/88	07/16/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.6	208.4	207.9	207.6
pH	pH	5.8	6.0	5.2	5.4
Conductivity	µmhos/cm	280	330	325	367
Alkalinity	mg/L	7	4	3	6
TDS	mg/L	232	288	266	256
Gross Alpha	pCi/L	3.5	6.8	7.3	4.7
Nonvolatile Beta	pCi/L	36.3	51.8	33.9	33.8
Total Radium	pCi/L	0.9	1.2	0.8	0.4
Tritium	pCi/mL	1730	1580	1040	1510
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.056	0.054	0.055	0.066
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	20.5	21.3	18.5	22.6
Chloride	mg/L	3.1	5.5	3.0	3.3
Chromium	mg/L	0.007	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.008	0.009
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.013	0.013	0.020	< 0.020
Lead	mg/L	0.011	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	4.31	4.47	5.76	5.60
Manganese	mg/L	0.110	0.114	0.099	0.111
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	-	-	0.004	0.011
Potassium	mg/L	2.64	19.8	2.12	1.52
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.33	4.66	4.39	4.32
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	20.3	25.2	25.6	25.5
Total Phosphates	mg/L	< 0.020	0.080	0.020	< 0.020
Zinc	mg/L	-	-	0.027	0.039
Nitrate (as N)	mg/L	40.0	274	34.6	35.6
Sulfate	mg/L	5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.009
Carbon Tetrachloride	mg/L	-	-	< 0.001	-
Chloroform	mg/L	-	-	< 0.001	-
Tetrachloroethylene	mg/L	-	-	< 0.001	-
Trichloroethylene	mg/L	-	-	0.002	-
1,1,1-TCE	mg/L	-	-	< 0.001	-

Well: FSB 94C, F-Area Seepage Basins

SRP Grid	N 74869.0		ft (msl)
Coordinates	E 50180.0	Screen Zone Elevation	149.8 - 139.8
Latitude	33.273235° N	Top of Casing Elevation	281.1
Longitude	81.680096° W	Casing Material	PVC

Parameter	Units	02/05/88	04/02/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.1	208	207.2	207.4
pH	pH	11.5	11.6	11.5	12.3
Conductivity	µmhos/cm	2550	2500	2560	2850
Alkalinity	mg/L	467	420	395	366
TDS	mg/L	994	838	160	1280
Gross Alpha	pCi/L	103	30.3	25.2	28.4
Nonvolatile Beta	pCi/L	1000	474	600	854
Total Radium	pCi/L	4.7	5.1	3.3	5.9
Tritium	pCi/mL	4320	4850	7240	7070
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.246	0.202	0.249	0.313
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	83.5	75.2	62.6	106
Chloride	mg/L	3.3	4.2	2.7	1.9
Chromium	mg/L	0.006	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.009	0.021
Fluoride	mg/L	0.79	1.08	5.96	1.58
Iron	mg/L	0.025	0.041	0.021	0.032
Lead	mg/L	< 0.006	0.010	< 0.006	< 0.006
Magnesium	mg/L	0.074	0.003	0.053	0.043
Manganese	mg/L	0.004	0.004	0.004	0.003
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	-	-	0.006	0.005
Potassium	mg/L	110	104	133	128
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.13	2.48	2.56	2.86
Silver	mg/L	0.0030	0.0030	0.0060	< 0.0020
Sodium	mg/L	209	175	193	189
Total Phosphates	mg/L	0.080	0.110	< 0.020	< 0.020
Zinc	mg/L	-	-	0.019	0.007
Nitrate (as N)	mg/L	57.0	276	107	147
Sulfate	mg/L	58.0	62.6	30.9	29.1
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	3.80	3.10	3.30	3.20
Tot. Org. Halogens	mg/L	0.006	0.016	0.009	0.014
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 94D, F-Area Seepage Basins

SRP Grid	N	74863.4		ft (msl)
Coordinates	E	50188.6	Screen Zone Elevation	221.8 - 201.8
Latitude		33.273237° N	Top of Casing Elevation	281.1
Longitude		81.680062° W	Casing Material	PVC

Parameter	Units	02/16/88	04/02/88	07/16/88	10/15/88
Sampling Method	NA	*Pump*	*Pump*	-	-
Water Elevation	ft	-	-	-	-
pH	pH	3.8	3.2	-	-
Conductivity	µmhos/cm	2550	2950	-	-
Alkalinity	mg/L	*0*	*0*	-	-
TDS	mg/L	101	1440	-	-
Gross Alpha	pCi/L	1160	973	-	-
Nonvolatile Beta	pCi/L	4320	4260	-	-
Total Radium	pCi/L	15.4	16.1	-	-
Tritium	pCi/mL	52800	49300	-	-
Arsenic	mg/L	0.108	<0.002	-	-
Barium	mg/L	0.710	0.548	-	-
Cadmium	mg/L	0.011	<0.002	-	-
Calcium	mg/L	41.4	20.0	-	-
Chloride	mg/L	2.2	1.9	-	-
Chromium	*mg/L*	*0.142*	*0.056*	-	-
Copper	mg/L	-	-	-	-
Fluoride	mg/L	1.02	1.23	-	-
Iron	mg/L	1.39	2.20	-	-
Lead	mg/L	0.212	0.190	-	-
Magnesium	mg/L	1.26	1.24	-	-
Manganese	mg/L	2.04	2.18	-	-
Mercury	mg/L	<0.0002	<0.0002	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	6.23	38.9	-	-
Selenium	mg/L	0.034	<0.002	-	-
Silica	mg/L	56.8	46.0	-	-
Silver	mg/L	0.0040	0.0060	-	-
Sodium	mg/L	58.4	85.0	-	-
Total Phosphates	mg/L	0.200	0.710	-	-
Zinc	*mg/L*	-	-	-	-
Nitrate (as N)	mg/L	302	289	-	-
Sulfate	mg/L	23.5	22.0	-	-
Phenols	mg/L	0.020	0.044	-	-
Tot. Org. Carbon	mg/L	3.80	4.40	-	-
Tot. Org. Halogens	mg/L	0.007	0.012	-	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB 95D, F-Area Seepage Basins

SRP Grid	N	74977.5		ft (msl)
Coordinates	E	50008.9	Screen Zone Elevation	227.8 - 207.8
Latitude		33.273196° N	Top of Casing Elevation	284.3
Longitude		81.680757° W	Casing Material	PVC

Parameter	Units	02/16/88	04/02/88	07/17/88	10/16/88
Sampling Method	NA	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	210.3	209.9	209.1	209.5
pH	pH	4.0	3.9	3.7	3.6
Conductivity	µmhos/cm	2300	2800	2730	3080
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	144	1630	1340	1310
Gross Alpha	pCi/L	671	963	990	1390
Nonvolatile Beta	pCi/L	3200	8020	2720	2610
Total Radium	pCi/L	25.9	16.3	12.9	11.6
Tritium	pCi/mL	44200	47900	37600	33600
Arsenic	mg/L	0.066	<0.002	0.010	0.089
Barium	mg/L	0.768	0.980	0.564	0.325
Cadmium	mg/L	0.013	<0.002	0.007	<0.002
Calcium	mg/L	174	223	125	103
Chloride	mg/L	2.7	1.9	4.0	1.5
Chromium	*mg/L*	*0.092*	*0.066*	*0.146*	*0.031*
Copper	mg/L	-	-	0.097	2.04
Fluoride	mg/L	1.69	1.85	1.86	1.23
Iron	mg/L	1.32	7.24	3.93	13.0
Lead	mg/L	0.380	0.794	1.98	3.60
Magnesium	mg/L	2.20	1.92	2.31	1.17
Manganese	mg/L	2.18	2.29	2.50	1.03
Mercury	mg/L	<0.0002	<0.0002	0.0002	<0.0002
Nickel	mg/L	-	-	0.153	0.085
Potassium	mg/L	8.50	22.9	9.02	1.85
Selenium	mg/L	0.021	<0.002	0.010	<0.002
Silica	*mg/L*	*25.9*	*33.0*	*31.1*	*86.8*
Silver	mg/L	0.0040	0.0070	0.0090	<0.0020
Sodium	mg/L	62.0	69.0	66.0	145
Total Phosphates	mg/L	0.200	0.430	0.300	0.200
Zinc	mg/L	-	-	0.898	1.71
Nitrate (as N)	mg/L	291	153	326	301
Sulfate	mg/L	6.0	14.0	15.8	31.5
Phenols	mg/L	0.017	0.053	0.017	<0.005
Tot. Org. Carbon	mg/L	2.80	3.60	5.50	1.50
Tot. Org. Halogens	mg/L	<0.005	0.006	0.011	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	0.005	-

Well: FSB 95C, F-Area Seepage Basins

SRP Grid	N	74971.7		ft (msl)
Coordinates	E	50016.7	Screen Zone Elevation	155.8 - 145.8
Latitude		33.273196° N	Top of Casing Elevation	284.0
Longitude		81.680725° W	Casing Material	PVC

Parameter	Units	02/15/88	04/03/88	07/16/88	10/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	*207.9*	*207.1*	*206.4*	*206.1*
pH	pH	6.8	10.7	10.0	11.9
Conductivity	µmhos/cm	720	1025	916	2390
Alkalinity	mg/L	46	119	51	394
TDS	mg/L	668	1010	616	986
Gross Alpha	pCi/L	14.4	23.9	16.3	12.3
Nonvolatile Beta	pCi/L	317	657	280	295
Total Radium	pCi/L	3.7	2.2	1.4	2.4
Tritium	pCi/mL	3740	3410	3380	5840
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.124	0.118	0.104	0.287
Cadmium	mg/L	0.002	<0.002	<0.002	<0.002
Calcium	mg/L	87.8	148	81.6	240
Chloride	mg/L	3.7	3.7	3.7	2.6
Chromium	mg/L	0.015	0.010	0.006	0.008
Copper	*mg/L*	-	-	*0.008*	*0.023*
Fluoride	mg/L	<0.10	0.17	0.19	0.23
Iron	mg/L	0.020	0.138	0.102	0.055
Lead	mg/L	0.009	<0.006	<0.006	<0.006
Magnesium	mg/L	12.5	5.81	14.1	0.025
Manganese	mg/L	0.406	<0.002	0.009	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	0.006	<0.004
Potassium	mg/L	4.10	7.78	3.84	30.1
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	5.22	5.68	4.19	3.08
Silver	mg/L	0.0020	*0.0040*	*0.0030*	*<0.0020*
Sodium	mg/L	43.0	47.0	65.0	60.0
Total Phosphates	mg/L	0.070	0.240	0.030	<0.020
Zinc	mg/L	-	-	0.009	0.016
Nitrate (as N)	*mg/L*	*70.5*	*352*	*77.6*	*87.6*
Sulfate	mg/L	23.5	29.4	<5.0	15.8
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	1.50
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 96A, F-Area Seepage Basins

SRP Grid	N	74882.2		ft (msl)
Coordinates	E	49778.7	Screen Zone Elevation	95.7 - 85.7
Latitude		33.272609° N	Top of Casing Elevation	279.8
Longitude		81.681178° W	Casing Material	***

Parameter	Units	02/08/88	04/02/88	07/11/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	*152.4*	*152.7*	*151.6*	*151.6*
pH	pH	11.6	11.9	11.5	12.1
Conductivity	µmhos/cm	3230	2600	1590	1100
Alkalinity	mg/L	865	523	367	268
TDS	mg/L	1040	654	476	370
Gross Alpha	pCi/L	140	<3.0	<3.0	12.5
Nonvolatile Beta	pCi/L	262	118	43.4	28.3
Total Radium	pCi/L	2.5	1.1	0.5	1.3
Tritium	pCi/mL	7.30	8.80	8.11	9.90
Arsenic	mg/L	0.004	0.003	0.003	0.003
Barium	mg/L	0.355	0.225	0.136	0.098
Cadmium	*mg/L*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Calcium	mg/L	48.6	34.3	14.2	7.86
Chloride	mg/L	4.0	3.2	2.8	2.4
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	0.005
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.013	0.026	0.022	0.053
Lead	mg/L	0.014	0.006	0.010	<0.006
Magnesium	mg/L	0.013	0.018	0.030	0.119
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	*<0.004*	*<0.004*
Potassium	mg/L	184	114	69.1	52.1
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	8.85	9.10	10.7	26.1
Silver	*mg/L*	*0.0030*	*0.0020*	*0.0040*	*<0.0020*
Sodium	mg/L	207	151	93.2	83.4
Total Phosphates	mg/L	0.050	0.060	0.030	0.080
Zinc	mg/L	-	-	0.008	0.003
Nitrate (as N)	mg/L	0.25	0.28	0.29	0.22
Sulfate	mg/L	33.0	26.0	19.2	14.4
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	3.80	2.00	2.00	3.40
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	*mg/L*	-	-	*<0.001*	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 97A, F-Area Seepage Basins

SRP Grid	N 75171.2			ft (msl)
Coordinates	E 49965.7	Screen Zone Elevation		95.8 - 85.8
Latitude	33.273554° N	Top of Casing Elevation		286.1
Longitude	81.681247° W	Casing Material		***

Parameter	Units	02/14/88	04/03/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	151.3	151.6	150.6	150.8
pH	pH	7.9	7.6	7.1	7.2
Conductivity	µmhos/cm	291	305	302	310
Alkalinity	mg/L	107	82	81	77
TDS	mg/L	240	202	250	174
Gross Alpha	pCi/L	<3.0	<3.0	2.2	3.9
Nonvolatile Beta	pCi/L	18.5	12.7	10.1	4.0
Total Radium	pCi/L	0.7	0.8	<1.0	0.7
Tritium	pCi/mL	477	478	471	468
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.058	0.059	0.057	0.051
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	53.8	37.2	39.8	40.3
Chloride	mg/L	2.0	2.4	2.5	2.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	0.010
Fluoride	mg/L	<0.10	<0.10	0.11	<0.10
Iron	mg/L	<0.004	0.008	0.026	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	1.36	1.26	1.20	1.16
Manganese	mg/L	0.007	0.009	0.013	0.017
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	2.15	1.39	1.05	1.28
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	24.7	10.7	9.35	8.79
Silver	mg/L	<0.0020	<0.0020	0.0050	<0.0020
Sodium	mg/L	18.4	11.3	10.4	10.3
Total Phosphates	mg/L	0.130	0.110	0.140	0.130
Zinc	mg/L	-	-	0.005	0.004
Nitrate (as N)	mg/L	5.84	13.1	14.4	12.6
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 97D, F-Area Seepage Basins

SRP Grid	N 75188.9			ft (msl)
Coordinates	E 49975.5	Screen Zone Elevation		216.9 - 196.9
Latitude	33.273609° N	Top of Casing Elevation		286.0
Longitude	81.681255° W	Casing Material		PVC

Parameter	Units	02/14/88	04/02/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.9	210.7	210	210.2
pH	pH	8.4	9.0	4.2	6.0
Conductivity	µmhos/cm	2610	780	2870	1331
Alkalinity	mg/L	28	23	0	8
TDS	mg/L	1350	2320	2120	1540
Gross Alpha	pCi/L	55.6	156	232	698
Nonvolatile Beta	pCi/L	843	1470	1380	2060
Total Radium	pCi/L	14.1	13.5	15.3	21.6
Tritium	pCi/mL	17600	18600	29200	24500
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.101	0.216	0.258	0.421
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	67.8	93.0	55.1	143
Chloride	mg/L	1.4	1.7	1.7	1.8
Chromium	mg/L	0.006	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.012	0.031
Fluoride	mg/L	0.34	0.43	1.40	1.94
Iron	mg/L	0.067	0.007	0.431	0.122
Lead	mg/L	<0.006	<0.006	0.029	0.007
Magnesium	mg/L	0.689	1.40	3.20	4.79
Manganese	mg/L	0.013	0.235	0.330	0.515
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Nickel	mg/L	-	-	0.010	0.013
Potassium	mg/L	7.21	<0.500	7.98	7.64
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	1.96	4.04	19.8	30.2
Silver	mg/L	0.0020	0.0030	0.0040	<0.0020
Sodium	mg/L	43.0	35.4	65.5	79.2
Total Phosphates	mg/L	0.060	0.040	0.120	0.060
Zinc	mg/L	-	-	0.046	0.119
Nitrate (as N)	mg/L	118	133	325	192
Sulfate	mg/L	12.0	10.8	14.1	20.8
Phenols	mg/L	<0.005	<0.005	0.005	<0.005
Tot. Org. Carbon	mg/L	2.70	2.00	2.30	1.40
Tot. Org. Halogens	mg/L	0.013	0.011	0.007	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	<0.005
Chloroform	mg/L	-	-	<0.001	<0.005
Tetrachloroethylene	mg/L	-	-	<0.001	<0.005
Trichloroethylene	mg/L	-	-	<0.001	<0.005
1,1,1-TCE	mg/L	-	-	<0.001	<0.005

Well: FSB 97C, F-Area Seepage Basins

SRP Grid	N 75179.6			ft (msl)
Coordinates	E 49970.6	Screen Zone Elevation		153.8 - 143.8
Latitude	33.273580° N	Top of Casing Elevation		286.1
Longitude	81.681250° W	Casing Material		PVC

Parameter	Units	02/14/88	04/02/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.7	207.7	207.1	206.6
pH	pH	10.6	10.5	9.3	9.1
Conductivity	µmhos/cm	700	745	850	1048
Alkalinity	mg/L	42	35	31	35
TDS	mg/L	458	598	598	684
Gross Alpha	pCi/L	27.1	47.5	33.4	68.8
Nonvolatile Beta	pCi/L	270	316	272	329
Total Radium	pCi/L	13.2	8.2	10.3	11.3
Tritium	pCi/mL	4260	3680	4920	6560
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.289	0.310	0.235	0.271
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	69.0	50.4	30.7	62.7
Chloride	mg/L	2.8	2.7	2.6	2.6
Chromium	mg/L	0.007	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	0.019
Fluoride	mg/L	0.33	0.40	0.51	0.36
Iron	mg/L	0.012	0.039	0.022	0.075
Lead	mg/L	<0.006	<0.006	<0.006	0.012
Magnesium	mg/L	1.07	1.22	3.11	5.63
Manganese	mg/L	0.005	0.002	0.030	0.175
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	-	0.005	0.005
Potassium	mg/L	18.2	17.8	16.0	13.3
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	<0.100	2.77	2.36	4.90
Silver	mg/L	<0.0020	<0.0020	0.0020	<0.0020
Sodium	mg/L	69.0	65.0	87.7	116
Total Phosphates	mg/L	<0.020	0.050	0.030	<0.020
Zinc	mg/L	-	-	0.006	0.011
Nitrate (as N)	mg/L	45.9	272	84.1	111
Sulfate	mg/L	16.0	<5.0	<5.0	9.2
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	2.20	1.80	1.60	1.60
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 98A, F-Area Seepage Basins

SRP Grid	N 75389.8			ft (msl)
Coordinates	E 50121.6	Screen Zone Elevation		94.7 - 84.7
Latitude	33.274291° N	Top of Casing Elevation		283.0
Longitude	81.681261° W	Casing Material		***

Parameter	Units	02/15/88	04/04/88	07/18/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	150.8	151.1	150	149.9
pH	pH	11.3	11.3	11.9	12.7
Conductivity	µmhos/cm	380	920	5180	5010
Alkalinity	mg/L	131	203	272	85
TDS	mg/L	120	240	1250	1690
Gross Alpha	pCi/L	3.4	<3.0	49.8	36.4
Nonvolatile Beta	pCi/L	7.6	<6.0	160	38.9
Total Radium	pCi/L	<1.0	3.4	10.9	8.1
Tritium	pCi/mL	24.7	22.6	25.6	19.1
Arsenic	mg/L	0.002	0.003	<0.002	<0.002
Barium	mg/L	0.093	0.193	1.72	0.116
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	40.4	56.2	434	325
Chloride	mg/L	2.1	2.4	<1.0	<1.0
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.014	0.020
Fluoride	mg/L	0.57	<0.10	0.12	0.12
Iron	mg/L	0.035	0.024	0.008	0.027
Lead	mg/L	<0.006	<0.006	0.006	0.010
Magnesium	mg/L	0.264	0.119	0.006	0.161
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	0.004
Potassium	mg/L	7.56	8.74	15.2	18.9
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	7.10	6.51	<0.100	1.90
Silver	mg/L	0.0020	<0.0020	0.0080	<0.0020
Sodium	mg/L	16.4	15.4	28.2	19.4
Total Phosphates	mg/L	0.100	0.260	<0.020	<0.020
Zinc	mg/L	-	-	0.009	0.010
Nitrate (as N)	mg/L	1.29	0.98	0.21	0.21
Sulfate	mg/L	6.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	2.00	3.70
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.006
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 98C, F-Area Seepage Basins

SRP Grid	N	75381.2		ft (msl)
Coordinates	E	50116.5	Screen Zone Elevation	156.8 - 146.8
Latitude		33.274264° N	Top of Casing Elevation	283.1
Longitude		*81.681258° W*	*Casing Material*	*PVC*

Parameter	Units	03/06/88	04/04/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	*ft*	*208.9*	*208.4*	*207.8*	*207.8*
pH	pH	3.4	3.3	3.4	3.3
Conductivity	µmhos/cm	2150	2200	2040	2120
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	926	984	947	976
Gross Alpha	pCi/L	968	763	820	871
Nonvolatile Beta	pCi/L	2800	2690	2320	2080
Total Radium	pCi/L	111	96.3	75.1	73.7
Tritium	pCi/mL	14100	12200	12600	14500
Arsenic	mg/L	0.024	<0.002	0.004	0.047
Barium	mg/L	0.832	0.007	0.599	0.635
Cadmium	*mg/L*	*0.014*	*0.016*	*0.019*	*0.013*
Calcium	mg/L	11.6	15.0	12.7	13.5
Chloride	mg/L	2.4	2.4	4.2	8.5
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.105	0.108
Fluoride	mg/L	1.92	1.87	1.80	1.63
Iron	mg/L	0.067	0.092	0.058	0.055
Lead	mg/L	<0.006	0.044	<0.006	<0.006
Magnesium	mg/L	3.93	0.015	4.85	5.04
Manganese	mg/L	4.93	8.44	3.52	3.37
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	*mg/L*	-	-	*0.047*	*0.038*
Potassium	mg/L	2.15	4.15	2.76	2.17
Selenium	mg/L	0.008	<0.002	<0.002	<0.002
Silica	mg/L	26.5	37.8	29.3	63.2
Silver	mg/L	0.0030	0.0050	0.0060	<0.0020
Sodium	mg/L	135	145	133	136
Total Phosphates	mg/L	0.150	0.120	0.170	0.130
Zinc	mg/L	-	-	0.140	0.127
Nitrate (as N)	mg/L	285	238	224	217
Sulfate	mg/L	-	<5.0	<5.0	6.9
Phenols	mg/L	0.012	<0.005	<0.005	<0.005
Tot. Org. Carbon	*mg/L*	*1.10*	*<1.000*	*<1.000*	*<1.000*
Tot. Org. Halogens	mg/L	0.006	0.006	0.007	0.006
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 99A, F-Area Seepage Basins

SRP Grid	N	75675.6		ft (msl)
Coordinates	E	50314.8	Screen Zone Elevation	102.9 - 92.9
Latitude		33.275239° N	Top of Casing Elevation	287.6
Longitude		*81.681308° W*	Casing Material	***

Parameter	Units	02/03/88	04/04/88	07/30/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	*ft*	*150*	*150.3*	*149.5*	*149.3*
pH	pH	7.0	9.0	8.9	8.4
Conductivity	µmhos/cm	169	180	170	181
Alkalinity	mg/L	74	76	76	70
TDS	mg/L	106	134	112	120
Gross Alpha	pCi/L	3.6	<3.0	1.6	2.5
Nonvolatile Beta	pCi/L	9.1	8.6	4.8	4.8
Total Radium	pCi/L	<1.0	0.6	0.5	<1.0
Tritium	pCi/mL	46.8	42.6	39.7	38.0
Arsenic	mg/L	0.002	0.002	<0.002	<0.002
Barium	mg/L	0.028	0.033	0.035	0.042
Cadmium	*mg/L*	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	17.5	16.6	20.9	18.8
Chloride	mg/L	<1.0	2.1	5.0	2.2
Chromium	mg/L	0.015	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.005	0.010
Fluoride	mg/L	0.13	<0.10	0.37	*<0.10*
Iron	mg/L	0.004	0.011	0.015	<0.020
Lead	mg/L	0.010	<0.006	<0.006	<0.006
Magnesium	mg/L	0.982	0.832	0.990	1.34
Manganese	mg/L	0.005	0.003	0.004	0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	4.87	5.66	5.94	4.14
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	7.46	7.98	8.02	16.5
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	*mg/L*	9.39	*12.8*	*10.5*	*7.00*
Total Phosphates	mg/L	0.420	0.440	0.220	0.190
Zinc	mg/L	-	-	<0.002	<0.002
Nitrate (as N)	mg/L	1.52	1.48	1.36	1.39
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	1.10	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	*mg/L*	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB 98D, F-Area Seepage Basins

SRP Grid	N	75371.9		ft (msl)
Coordinates	E	50111.6	Screen Zone Elevation	218.8 - 198.8
Latitude		33.274235° N	Top of Casing Elevation	283.1
Longitude		81.681253° W	Casing Material	PVC

Parameter	Units	02/15/88	04/02/88	07/18/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.3	212	211.3	211.5
pH	pH	9.1	11.4	5.1	12.2
Conductivity	µmhos/cm	1600	2650	2390	3070
Alkalinity	mg/L	62	220	35	354
TDS	mg/L	1350	1520	2100	1490
Gross Alpha	*pCi/L*	*82.9*	*72.0*	209	104
Nonvolatile Beta	pCi/L	757	712	1340	1050
Total Radium	pCi/L	17.1	21.4	33.2	25.8
Tritium	pCi/mL	23500	15900	19500	18800
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.470	1.20	*0.876*	*0.536*
Cadmium	mg/L	<0.002	<0.002	<0.002	0.012
Calcium	mg/L	50.1	88.0	23.0	120
Chloride	mg/L	2.2	1.9	1.5	<1.0
Chromium	mg/L	0.008	0.017	0.006	<0.004
Copper	mg/L	-	-	0.009	0.033
Fluoride	*mg/L*	0.50	0.61	1.17	0.76
Iron	mg/L	0.046	0.021	0.026	0.514
Lead	mg/L	0.007	0.006	<0.006	0.075
Magnesium	mg/L	5.60	0.143	0.661	7.29
Manganese	mg/L	0.673	0.003	<0.002	0.934
Mercury	mg/L	<0.0002	<0.0002	0.0003	*<0.0002*
Nickel	mg/L	-	-	0.006	0.026
Potassium	mg/L	103	133	122	13.2
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	7.93	1.99	4.62	3.72
Silver	mg/L	0.0030	0.0040	0.0060	<0.0020
Sodium	mg/L	210	209	233	93.5
Total Phosphates	mg/L	0.060	0.130	0.040	<0.020
Zinc	mg/L	-	-	0.004	0.157
Nitrate (as N)	mg/L	194	284	233	220
Sulfate	mg/L	9.0	<5.0	<5.0	<5.0
Phenols	*mg/L*	*<0.005*	*<0.005*	<0.005	<0.005
Tot. Org. Carbon	mg/L	2.00	2.70	2.20	2.10
Tot. Org. Halogens	mg/L	0.021	0.013	0.017	0.009
Carbon Tetrachloride	mg/L	-	-	<0.001	<0.005
Chloroform	mg/L	-	-	<0.001	<0.005
Tetrachloroethylene	mg/L	-	-	<0.001	<0.005
Trichloroethylene	mg/L	-	-	<0.001	<0.005
1,1,1-TCE	mg/L	-	-	<0.001	<0.005

Well: FSB 99C, F-Area Seepage Basins

SRP Grid	N	75683.7		ft (msl)
Coordinates	E	50320.6	Screen Zone Elevation	167.2 - 157.2
Latitude		33.275266° N	*Top of Casing Elevation*	287.7
Longitude		81.681308° W	Casing Material	PVC

Parameter	Units	02/03/88	04/04/88	07/17/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.5	209.4	208.5	208.5
pH	pH	6.7	6.6	6.2	6.1
Conductivity	µmhos/cm	203	240	232	553
Alkalinity	mg/L	24	23	29	18
TDS	mg/L	134	196	177	168
Gross Alpha	pCi/L	8.2	13.4	5.8	9.2
Nonvolatile Beta	pCi/L	27.6	40.0	41.4	44.3
Total Radium	pCi/L	1.9	2.9	2.6	2.3
Tritium	pCi/mL	1900	1820	1720	1950
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	*mg/L*	*0.360*	0.009	0.062	0.069
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	6.72	38.5	9.87	11.7
Chloride	mg/L	1.8	2.4	2.5	<1.0
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	*0.012*
Fluoride	mg/L	<0.10	<0.10	0.13	<0.10
Iron	mg/L	0.022	0.046	0.022	0.030
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	2.23	0.039	4.67	4.82
Manganese	mg/L	0.027	0.031	0.045	0.047
Mercury	mg/L	<0.0002	<0.0002	0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	5.86	6.13	23.3	35.1
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.66	3.79	3.78	8.27
Silver	*mg/L*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Sodium	mg/L	22.9	24.0	22.0	20.7
Total Phosphates	mg/L	<0.020	0.160	0.030	<0.020
Zinc	mg/L	-	-	0.008	0.012
Nitrate (as N)	mg/L	18.1	17.8	22.1	22.2
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.007
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	*mg/L*	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB 99D, F-Area Seepage Basins

SRP Grid	N 75691.7			ft (msl)
Coordinates	E 50326.9	Screen Zone Elevation		218.1 - 198.1
Latitude	33.275294° N	Top of Casing Elevation		287.6
Longitude	81.681307° W	Casing Material		PVC

Parameter	Units	02/03/88	04/04/88	07/17/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.4	213.2	212.3	212.3
pH	pH	3.7	3.9	4.3	4.5
Conductivity	µmhos/cm	299	220	125	100
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	162	178	152	102
Gross Alpha	pCi/L	92.0	87.0	17.8	12.7
Nonvolatile Beta	pCi/L	276	164	65.3	39.4
Total Radium	pCi/L	3.3	2.1	1.4	0.6
Tritium	pCi/mL	2690	1300	486	289
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.094	0.092	0.045	0.027
Cadmium	mg/L	0.003	<0.002	<0.002	<0.002
Calcium	mg/L	13.2	16.3	8.82	9.81
Chloride	mg/L	1.2	1.4	1.4	1.8
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	0.008
Fluoride	mg/L	0.17	0.15	0.12	<0.10
Iron	mg/L	0.092	0.062	0.065	0.028
Lead	mg/L	0.007	<0.006	<0.006	<0.006
Magnesium	mg/L	2.00	2.17	0.926	0.542
Manganese	mg/L	0.367	0.399	0.166	0.096
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Nickel	mg/L	-	-	0.005	0.006
Potassium	mg/L	1.00	0.923	0.988	2.33
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	10.8	-	11.8	13.8
Silver	mg/L	<0.0020	0.0020	0.0020	<0.0020
Sodium	mg/L	11.7	11.8	8.02	7.83
Total Phosphates	mg/L	0.100	0.040	<0.020	0.030
Zinc	mg/L	-	-	0.023	0.017
Nitrate (as N)	mg/L	32.2	19.7	10.8	7.13
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	0.005	0.005	<0.005	<0.005
Tot Org Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.007
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB101A, F-Area Seepage Basins

SRP Grid	N 75719.0			ft (msl)
Coordinates	E 51191.3	Screen Zone Elevation		102.9 - 92.9
Latitude	33.276765° N	Top of Casing Elevation		285.2
Longitude	81.679085° W	Casing Material		***

Parameter	Units	02/03/88	05/03/88	07/16/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	151.5	150.8	150.5	149.3
pH	pH	6.9	9.0	7.1	7.3
Conductivity	µmhos/cm	174	180	174	165
Alkalinity	mg/L	80	75	68	73
TDS	mg/L	102	120	103	146
Gross Alpha	pCi/L	1.2	1.2	1.2	1.4
Nonvolatile Beta	pCi/L	2.5	2.0	2.2	1.5
Total Radium	pCi/L	<1.0	0.4	<1.0	<1.0
Tritium	pCi/mL	<0.70	<0.70	1.12	<0.70
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	<0.004	0.063	0.034	0.036
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	23.9	34.6	23.2	24.0
Chloride	mg/L	1.2	2.5	2.9	2.8
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.010	0.017
Fluoride	mg/L	<0.10	0.10	<0.10	<0.10
Iron	mg/L	<0.004	<0.004	0.017	<0.020
Lead	mg/L	0.009	<0.006	<0.006	<0.006
Magnesium	mg/L	<0.002	0.023	0.536	0.683
Manganese	mg/L	<0.002	0.006	0.004	0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	0.004
Potassium	mg/L	27.1	1.81	1.26	1.76
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	7.93	7.77	7.72	8.18
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.61	3.12	2.17	2.74
Total Phosphates	mg/L	0.120	0.110	0.130	0.150
Zinc	mg/L	-	-	0.006	0.017
Nitrate (as N)	mg/L	1.64	1.14	1.48	1.91
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	0.005	0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB100A, F-Area Seepage Basins

SRP Grid	N 75534.4			ft (msl)
Coordinates	E 50958.4	Screen Zone Elevation		105.8 - 95.8
Latitude	33.275977° N	Top of Casing Elevation		286.0
Longitude	81.679339° W	Casing Material		***

Parameter	Units	02/04/88	04/02/88	07/11/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	150.9	151.2	150.1	150.4
pH	pH	10.3	10.7	10.2	10.9
Conductivity	µmhos/cm	1335	630	416	517
Alkalinity	mg/L	211	168	132	142
TDS	mg/L	296	294	244	252
Gross Alpha	pCi/L	7.4	<3.0	5.0	4.3
Nonvolatile Beta	pCi/L	19.9	54.4	14.3	13.2
Total Radium	pCi/L	1.4	<1.0	<1.0	<1.0
Tritium	pCi/mL	46.3	61.2	78.4	92.0
Arsenic	mg/L	<0.002	0.004	0.004	0.005
Barium	mg/L	0.027	0.032	0.013	0.026
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	6.43	6.14	3.93	4.25
Chloride	mg/L	3.4	4.9	3.2	2.9
Chromium	mg/L	0.014	0.010	0.007	0.008
Copper	mg/L	-	-	<0.004	0.005
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.009	0.019	0.023	<0.020
Lead	mg/L	0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.204	0.109	0.134	0.154
Manganese	mg/L	<0.002	<0.002	0.004	<0.002
Mercury	mg/L	<0.0002	<0.0002	0.0009	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	1.36	29.0	1.52	22.7
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	6.67	6.94	6.88	15.0
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	74.8	77.0	53.8	75.0
Total Phosphates	mg/L	0.170	0.170	0.300	0.190
Zinc	mg/L	-	-	0.004	0.003
Nitrate (as N)	mg/L	1.94	2.00	3.86	2.92
Sulfate	mg/L	<5.0	44.0	36.9	33.1
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.30	2.40	1.20	<1.000
Tot. Org. Halogens	mg/L	0.010	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB102C, F-Area Seepage Basins

SRP Grid	N 73582.9			ft (msl)
Coordinates	E 50834.8	Screen Zone Elevation		155.9 - 145.9
Latitude	33.271459° N	Top of Casing Elevation		201.1
Longitude	81.675873° W	Casing Material		PVC

Parameter	Units	02/27/88	04/04/88	07/17/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	195.2	195.1	194.5	194.6
pH	pH	4.7	4.7	4.5	4.4
Conductivity	µmhos/cm	652	660	606	620
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	454	520	479	428
Gross Alpha	pCi/L	27.0	39.4	19.8	16.2
Nonvolatile Beta	pCi/L	1060	949	749	624
Total Radium	pCi/L	9.8	7.3	4.4	6.0
Tritium	pCi/mL	3050	2840	2180	2300
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.140	0.153	0.137	0.139
Cadmium	mg/L	0.009	0.009	0.008	<0.002
Calcium	mg/L	23.1	26.0	21.4	57.0
Chloride	mg/L	1.5	2.6	2.3	2.1
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	0.013
Fluoride	mg/L	0.56	0.48	0.64	0.40
Iron	mg/L	0.022	0.068	0.021	0.051
Lead	mg/L	0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	7.64	8.90	8.74	6.52
Manganese	mg/L	1.33	1.56	1.37	1.08
Mercury	mg/L	<0.0002	0.0006	0.0009	0.0010
Nickel	mg/L	-	-	0.024	0.022
Potassium	mg/L	1.50	1.48	6.60	1.47
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.71	4.92	4.63	9.30
Silver	mg/L	<0.0020	0.0020	<0.0020	<0.0020
Sodium	mg/L	111	65.4	69.0	71.5
Total Phosphates	mg/L	<0.020	0.130	0.060	0.040
Zinc	mg/L	-	-	0.056	0.044
Nitrate (as N)	mg/L	96.0	72.4	68.0	72.4
Sulfate	mg/L	<5.0	<5.0	<5.0	7.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB103C, F-Area Seepage Basins

SRP Grid	N	74210.0		ft (msl)
Coordinates	E	49651.3	Screen Zone Elevation	157.1 - 147.1
Latitude		33.270915° N	Top of Casing Elevation	242.4
Longitude		81.680207° W	Casing Material	PVC

Parameter	Units	02/27/88	04/04/88	07/19/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	202.1	201.9	201.1	201
pH	pH	6.1	5.9	5.8	6.0
Conductivity	µmhos/cm	217	220	228	231
Alkalinity	mg/L	15	11	17	13
TDS	mg/L	152	200	192	290
Gross Alpha	pCi/L	1.3	1.8	3.3	4.6
Nonvolatile Beta	pCi/L	26.7	16.4	20.5	12.2
Total Radium	*pCi/L*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Tritium	pCi/mL	531	596	535	726
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.057	0.056	0.041	0.048
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	18.0	20.3	17.5	18.6
Chloride	mg/L	1.9	2.5	2.5	2.4
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.005	0.026
Fluoride	mg/L	< 0.10	< 0.10	0.12	< 0.10
Iron	mg/L	0.009	0.014	0.007	0.028
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.79	1.82	1.36	1.80
Manganese	*mg/L*	*0.101*	*0.098*	*0.053*	*0.050*
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	< 0.0002
Nickel	mg/L	-	-	< 0.004	0.006
Potassium	mg/L	2.04	1.66	1.41	1.86
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.83	6.81	6.52	6.52
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	9.99	10.3	8.25	9.36
Total Phosphates	mg/L	0.060	0.050	0.040	< 0.020
Zinc	mg/L	-	-	0.014	0.048
Nitrate (as N)	mg/L	16.0	18.4	18.7	21.6
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.013	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB104D, F-Area Seepage Basins

SRP Grid	N	73865.2		ft (msl)
Coordinates	E	49255.4	Screen Zone Elevation	210.4 - 190.4
Latitude		33.269506° N	Top of Casing Elevation	219.2
Longitude		81.680579° W	Casing Material	PVC

Parameter	Units	03/10/88	04/05/88	07/19/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203.7	203.6	202.9	202.5
pH	pH	3.8	3.7	3.6	3.2
Conductivity	µmhos/cm	1600	1500	1476	1893
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	704	752	675	640
Gross Alpha	pCi/L	1100	1900	997	1220
Nonvolatile Beta	pCi/L	1920	2280	1630	1380
Total Radium	*pCi/L*	*44.9*	*62.3*	*49.2*	*61.6*
Tritium	pCi/mL	8770	9970	7370	7420
Arsenic	mg/L	< 0.002	< 0.002	0.012	0.054
Barium	mg/L	0.273	0.360	0.247	0.441
Cadmium	*mg/L*	*< 0.002*	*0.002*	*0.005*	*0.009*
Calcium	mg/L	5.62	4.63	2.81	5.28
Chloride	mg/L	7.2	2.1	4.0	4.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.055	0.073
Fluoride	mg/L	1.30	1.28	1.20	1.16
Iron	mg/L	0.696	0.553	0.166	0.190
Lead	mg/L	0.021	0.029	0.010	< 0.006
Magnesium	mg/L	1.26	1.47	1.18	4.46
Manganese	mg/L	2.53	5.76	2.05	5.55
Mercury	mg/L	0.0003	0.0002	0.0002	< 0.0002
Nickel	mg/L	-	-	0.023	0.043
Potassium	mg/L	0.921	1.08	0.919	1.02
Selenium	*mg/L*	*< 0.002*	*< 0.002*	*0.004*	*< 0.002*
Silica	mg/L	20.5	26.2	47.5	47.1
Silver	mg/L	0.0030	0.0030	< 0.0020	< 0.0020
Sodium	mg/L	81.4	126	85.6	104
Total Phosphates	mg/L	0.030	0.070	0.120	0.080
Zinc	mg/L	-	-	0.071	0.115
Nitrate (as N)	mg/L	141	163	182	191
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.20	< 1.000	< 1.000	1.80
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB104C, F-Area Seepage Basins

SRP Grid	N	73872.6		ft (msl)
Coordinates	E	49248.6	Screen Zone Elevation	160.7 - 150.7
Latitude		33.269511° N	Top of Casing Elevation	219.1
Longitude		81.680612° W	Casing Material	PVC

Parameter	Units	03/10/88	04/05/88	07/19/88	10/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	200.4	200	199.2	199
pH	pH	6.2	5.7	5.7	5.3
Conductivity	µmhos/cm	295	298	302	354
Alkalinity	mg/L	6	3	8	4
TDS	*mg/L*	*232*	*276*	*276*	*258*
Gross Alpha	pCi/L	2.3	3.1	11.6	< 3.0
Nonvolatile Beta	pCi/L	49.0	24.3	36.6	40.3
Total Radium	pCi/L	0.7	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	937	1000	817	939
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.044	0.063	0.065	0.060
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	24.1	26.7	35.1	30.5
Chloride	mg/L	2.0	2.5	2.6	2.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.007	0.009
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.039	0.014	0.005	0.027
Lead	mg/L	< 0.006	< 0.006	0.018	< 0.006
Magnesium	mg/L	2.32	2.99	3.67	4.16
Manganese	mg/L	0.022	0.022	0.180	0.032
Mercury	*mg/L*	*< 0.0002*	*< 0.0002*	*0.0004*	*< 0.0002*
Nickel	mg/L	-	-	< 0.004	0.013
Potassium	mg/L	2.82	2.78	1.61	12.0
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.46	-	4.60	5.71
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	9.18	12.4	9.80	12.5
Total Phosphates	mg/L	0.030	0.110	0.030	0.020
Zinc	mg/L	-	-	0.022	0.030
Nitrate (as N)	mg/L	31.3	29.6	31.1	32.2
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	*mg/L*	*0.019*	< 0.005	< 0.005	0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB105C, F-Area Seepage Basins

SRP Grid	N	75234.2		ft (msl)
Coordinates	E	49828.0	Screen Zone Elevation	151.5 - 141.5
Latitude		33.273468° N	Top of Casing Elevation	285.8
Longitude		81.681732° W	Casing Material	PVC

Parameter	Units	03/13/88	04/05/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.3	207.2	206.2	206.4
pH	pH	3.7	3.6	3.5	3.5
Conductivity	µmhos/cm	1600	1600	1558	1716
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	748	794	713	662
Gross Alpha	pCi/L	334	674	459	410
Nonvolatile Beta	pCi/L	2360	2610	2190	2040
Total Radium	pCi/L	98.4	102	91.7	111
Tritium	pCi/mL	6470	9200	8090	9340
Arsenic	mg/L	< 0.002	< 0.002	0.004	0.034
Barium	mg/L	0.520	0.620	0.534	0.551
Cadmium	mg/L	0.031	0.031	0.027	0.020
Calcium	*mg/L*	*22.6*	*28.0*	*18.7*	*21.0*
Chloride	mg/L	2.6	3.0	4.0	9.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.077	0.077
Fluoride	mg/L	3.00	2.46	8.95	8.00
Iron	mg/L	0.066	0.096	0.058	0.051
Lead	mg/L	0.007	0.015	0.013	< 0.006
Magnesium	mg/L	8.80	12.3	9.34	9.08
Manganese	mg/L	4.18	9.72	4.15	4.40
Mercury	mg/L	0.0003	0.0002	0.0004	0.0004
Nickel	mg/L	-	-	0.056	0.045
Potassium	mg/L	2.12	2.20	11.2	2.13
Selenium	mg/L	< 0.002	< 0.002	0.003	< 0.002
Silica	*mg/L*	*10.0*	*10.4*	*8.75*	*23.1*
Silver	mg/L	0.0020	0.0050	0.0040	< 0.0020
Sodium	mg/L	73.0	108	96.5	105
Total Phosphates	mg/L	< 0.020	0.750	0.270	0.280
Zinc	mg/L	-	-	0.178	0.153
Nitrate (as N)	mg/L	154	164	171	199
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	0.006	0.007	0.007
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB105D, F-Area Seepage Basins

SRP Grid	N 75244.3			ft (msl)
Coordinates	E 49833.3	Screen Zone Elevation		223.7 - 203.7
Latitude	33.273499° N	Top of Casing Elevation		285.8
Longitude	81.681737° W	Casing Material		PVC

Parameter	Units	03/13/88	04/06/88	07/18/88	10/16/88
Sampling Method	NA	-	Pump	Pump	Pump
Water Elevation	ft	-	210.1	209.6	209.5
pH	pH	-	4.1	3.9	3.8
Conductivity	µmhos/cm	-	910	2010	2760
Alkalinity	mg/L	-	0	0	0
TDS	mg/L	-	574	954	796
Gross Alpha	pCi/L	-	62.1	236	472
Nonvolatile Beta	pCi/L	-	1210	2860	4270
Total Radium	pCi/L	-	27.9	30.9	53.1
Tritium	pCi/mL	-	65800	15800	13700
Arsenic	mg/L	-	< 0.002	< 0.002	0.100
Barium	mg/L	-	0.700	0.983	2.16
Cadmium	mg/L	-	0.022	0.024	0.043
Calcium	mg/L	-	56.5	42.2	62.6
Chloride	mg/L	-	4.4	4.0	3.6
Chromium	mg/L	-	< 0.004	< 0.004	0.015
Copper	mg/L	-	-	0.092	0.075
Fluoride	mg/L	-	0.73	8.05	1.81
Iron	mg/L	-	1.14	0.940	25.8
Lead	mg/L	-	0.123	0.467	0.701
Magnesium	mg/L	-	11.7	15.9	23.2
Manganese	mg/L	-	2.68	4.94	4.76
Mercury	mg/L	-	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	-	-	0.206	0.174
Potassium	mg/L	-	3.20	38.1	8.61
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	14.8	10.3	23.5
Silver	mg/L	-	0.0030	0.0040	< 0.0020
Sodium	mg/L	-	65.1	72.9	104
Total Phosphates	mg/L	-	0.080	0.090	0.110
Zinc	mg/L	-	-	0.966	0.998
Nitrate (as N)	mg/L	-	96.0	187	197
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	-	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	-	1.40	1.30	1.20
Tot. Org. Halogens	mg/L	-	0.008	0.023	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB106C, F-Area Seepage Basins

SRP Grid	N 74190.1			ft (msl)
Coordinates	E 50651.3	Screen Zone Elevation		166.0 - 156.0
Latitude	33.272503° N	Top of Casing Elevation		235.1
Longitude	81.677536° W	Casing Material		PVC

Parameter	Units	02/27/88	04/05/88	07/17/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	200.8	200.8	200.3	200.4
pH	pH	6.0	5.4	5.1	4.9
Conductivity	µmhos/cm	777	740	638	671
Alkalinity	mg/L	29	10	8	4
TDS	mg/L	534	606	456	472
Gross Alpha	pCi/L	60.1	150	45.2	54.6
Nonvolatile Beta	pCi/L	2070	2430	1710	1660
Total Radium	pCi/L	23.6	24.8	23.7	25.1
Tritium	pCi/mL	3270	3160	2310	2420
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.214	0.235	0.197	0.235
Cadmium	mg/L	0.014	0.016	0.013	< 0.002
Calcium	mg/L	45.7	47.4	26.7	46.5
Chloride	mg/L	3.4	3.6	3.3	8.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.011	0.016
Fluoride	mg/L	0.68	0.76	0.72	0.55
Iron	mg/L	0.039	0.058	0.045	0.032
Lead	mg/L	0.007	< 0.006	0.010	< 0.006
Magnesium	mg/L	10.1	12.0	8.70	8.23
Manganese	mg/L	1.94	2.28	1.66	1.62
Mercury	mg/L	0.0003	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	-	-	0.023	0.021
Potassium	mg/L	1.47	1.57	144	1.63
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.45	3.84	3.19	7.30
Silver	mg/L	< 0.0020	0.0020	< 0.0020	< 0.0020
Sodium	mg/L	66.0	63.0	47.6	52.4
Total Phosphates	mg/L	0.080	0.220	0.100	0.090
Zinc	mg/L	-	-	0.053	0.046
Nitrate (as N)	mg/L	101	77.2	66.6	76.7
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	8.4
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB107C, F-Area Seepage Basins

SRP Grid	N 75184.0			ft (msl)
Coordinates	E 51158.1	Screen Zone Elevation		160.8 - 150.8
Latitude	33.275528° N	Top of Casing Elevation		270.9
Longitude	81.678133° W	Casing Material		PVC

Parameter	Units	03/13/88	04/05/88	07/19/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.1	210	209.3	209
pH	pH	7.4	7.1	6.7	7.1
Conductivity	µmhos/cm	240	215	225	235
Alkalinity	mg/L	81	81	77	71
TDS	mg/L	148	152	125	258
Gross Alpha	pCi/L	2.1	1.7	< 3.0	8.1
Nonvolatile Beta	pCi/L	15.5	20.5	24.4	35.0
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	106	1230	108	196
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.017	0.028	0.027	0.024
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	25.1	27.6	31.3	25.4
Chloride	mg/L	1.8	3.0	2.9	3.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.006	0.015
Fluoride	mg/L	< 0.10	0.14	0.15	0.11
Iron	mg/L	0.021	0.021	0.008	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	0.007
Magnesium	mg/L	1.14	1.46	1.65	1.68
Manganese	mg/L	0.029	0.048	0.040	0.045
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	-	-	< 0.004	0.006
Potassium	mg/L	2.03	1.49	1.45	1.13
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.82	-	3.16	3.50
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	10.4	12.5	7.72	8.09
Total Phosphates	mg/L	-	0.110	0.080	0.040
Zinc	mg/L	-	-	0.007	0.036
Nitrate (as N)	mg/L	6.80	7.20	5.33	7.25
Sulfate	mg/L	5.0	5.1	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	0.032	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.005	< 0.005	< 0.005	0.009
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB107D, F-Area Seepage Basins

SRP Grid	N 75177.2			ft (msl)
Coordinates	E 51149.8	Screen Zone Elevation		220.9 - 200.9
Latitude	33.275499° N	Top of Casing Elevation		271.0
Longitude	81.678141° W	Casing Material		PVC

Parameter	Units	03/13/88	04/05/88	07/19/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.4	213.3	212.7	212.4
pH	pH	4.6	4.2	3.8	3.8
Conductivity	µmhos/cm	405	575	726	635
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	308	388	382	448
Gross Alpha	pCi/L	72.8	185	167	292
Nonvolatile Beta	pCi/L	757	1330	2070	1550
Total Radium	pCi/L	6.6	13.1	17.7	21.3
Tritium	pCi/mL	2640	3870	3400	3460
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.057	0.119	0.240	0.212
Cadmium	mg/L	0.004	0.008	0.011	0.006
Calcium	mg/L	4.28	8.70	11.2	6.82
Chloride	mg/L	1.6	3.9	2.9	2.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	-	0.052	0.046
Fluoride	mg/L	0.30	0.53	1.33	0.71
Iron	mg/L	0.048	0.089	0.274	0.352
Lead	mg/L	< 0.006	< 0.006	0.025	0.011
Magnesium	mg/L	1.30	2.66	5.05	2.76
Manganese	mg/L	0.592	1.15	1.76	0.856
Mercury	mg/L	0.0031	0.0037	< 0.0002	0.0027
Nickel	mg/L	-	-	0.029	0.019
Potassium	mg/L	0.902	1.07	1.04	1.15
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	7.44	8.31	8.85	7.94
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	45.2	75.0	62.8	54.1
Total Phosphates	mg/L	0.140	0.050	0.020	< 0.020
Zinc	mg/L	-	-	0.090	0.067
Nitrate (as N)	mg/L	47.8	57.2	75.7	64.1
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.009	0.013	0.008	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB108D, F-Area Seepage Basins

				ft (msl)
SRP Grid	N 76260.7			
Coordinates	E 51142.3	Screen Zone Elevation		223.8 - 203.8
Latitude	33.277883° N	Top of Casing Elevation		298.0
Longitude	81.680266° W	Casing Material		PVC

Parameter	Units	02/07/88	04/02/88	07/10/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.2	217.1	216.5	215
pH	pH	5.6	6.7	6.1	6.6
Conductivity	µmhos/cm	71	93	67	74
Alkalinity	mg/L	22	27	16	18
TDS	mg/L	46	72	60	80
Gross Alpha	pCi/L	3.0	<3.0	0.8	1.5
Nonvolatile Beta	pCi/L	4.8	3.5	2.8	1.5
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	11.0	12.6	8.89	10.6
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.016	0.011	0.020
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	6.64	7.47	5.54	5.77
Chloride	mg/L	2.3	3.7	3.0	3.8
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.034	0.008	0.057	0.024
Lead	mg/L	<0.006	<0.006	0.006	<0.006
Magnesium	mg/L	0.249	0.269	0.359	0.295
Manganese	mg/L	0.038	0.025	0.041	0.008
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	0.007
Potassium	mg/L	0.620	1.21	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.38	3.44	3.04	6.70
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	7.38	7.58	4.67	4.70
Total Phosphates	mg/L	0.060	0.040	0.020	<0.020
Zinc	mg/L	-	-	0.064	0.017
Nitrate (as N)	mg/L	1.32	1.27	1.41	1.50
Sulfate	mg/L	<5.0	5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.008	<0.005
Carbon Tetrachloride	mg/L	-	-	<0.001	-
Chloroform	mg/L	-	-	<0.001	-
Tetrachloroethylene	mg/L	-	-	<0.001	-
Trichloroethylene	mg/L	-	-	<0.001	-
1,1,1-TCE	mg/L	-	-	<0.001	-

Well: FSB109D, F-Area Seepage Basins

				ft (msl)
SRP Grid	N 75855.9			
Coordinates	E 50488.6	Screen Zone Elevation		225.8 - 205.8
Latitude	33.275921° N	Top of Casing Elevation		293.1
Longitude	81.681200° W	Casing Material		PVC

Parameter	Units	02/14/88	04/06/88	07/19/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.9	213.7	212.9	212.7
pH	pH	6.2	5.6	5.5	5.3
Conductivity	µmhos/cm	210	205	98	185
Alkalinity	mg/L	8	11	9	8
TDS	mg/L	232	134	91	256
Gross Alpha	pCi/L	3.7	6.4	1.4	6.3
Nonvolatile Beta	pCi/L	29.1	14.4	7.5	11.2
Total Radium	pCi/L	1.6	0.7	<1.0	<1.0
Tritium	pCi/mL	1030	992	563	827
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.025	0.021	0.018	0.016
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.74	0.463	2.73	2.78
Chloride	mg/L	2.9	3.1	3.4	3.0
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.006	0.015
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.009	0.022	0.047	0.025
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	2.06	1.68	1.32	1.42
Manganese	mg/L	0.063	0.046	0.018	0.018
Mercury	mg/L	<0.0002	<0.0002	0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	0.018
Potassium	mg/L	0.943	0.782	0.540	0.633
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.87	4.22	4.05	3.84
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	32.0	2.88	13.8	24.8
Total Phosphates	mg/L	0.020	0.030	<0.020	<0.020
Zinc	mg/L	-	-	0.038	0.067
Nitrate (as N)	mg/L	10.3	18.6	11.4	18.1
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.027	0.031	0.017	0.036
Carbon Tetrachloride	mg/L	-	-	<0.001	<0.005
Chloroform	mg/L	-	-	<0.001	<0.005
Tetrachloroethylene	mg/L	-	-	<0.001	<0.005
Trichloroethylene	mg/L	-	-	0.019	<0.005
1,1,1-TCE	mg/L	-	-	<0.001	<0.005

Well: FSB110C, F-Area Seepage Basins

				ft (msl)
SRP Grid	N 74190.7			
Coordinates	E 50150.6	Screen Zone Elevation		147.2 - 137.2
Latitude	33.271687° N	Top of Casing Elevation		234.0
Longitude	81.678855° W	Casing Material		PVC

Parameter	Units	02/14/88	04/05/88	07/19/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	201	200.8	200.2	200.2
pH	pH	9.6	9.6	9.3	9.3
Conductivity	µmhos/cm	315	350	346	337
Alkalinity	mg/L	47	29	31	30
TDS	mg/L	292	260	249	-
Gross Alpha	pCi/L	<3.0	1.9	9.6	5.5
Nonvolatile Beta	pCi/L	66.5	57.3	50.3	17.0
Total Radium	pCi/L	0.8	0.6	0.6	-
Tritium	pCi/mL	805	795	681	816
Arsenic	mg/L	<0.002	<0.002	<0.002	-
Barium	mg/L	0.069	0.074	0.091	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	38.3	24.4	27.4	-
Chloride	mg/L	2.5	2.8	2.7	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	0.025
Fluoride	mg/L	<0.10	<0.10	0.10	-
Iron	mg/L	<0.004	0.026	0.019	<0.020
Lead	mg/L	<0.006	<0.006	0.012	<0.006
Magnesium	mg/L	-	1.56	1.68	-
Manganese	mg/L	0.041	0.027	0.004	0.006
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	-	<0.004	0.043
Potassium	mg/L	8.58	8.21	19.3	-
Selenium	mg/L	<0.002	<0.002	<0.002	-
Silica	mg/L	4.68	4.70	3.47	-
Silver	mg/L	<0.0020	<0.0020	<0.0020	-
Sodium	mg/L	44.8	25.9	34.8	18.7
Total Phosphates	mg/L	0.140	0.180	0.060	0.020
Zinc	mg/L	0.018	-	<0.002	0.097
Nitrate (as N)	mg/L	11.2	24.6	27.8	26.7
Sulfate	mg/L	5.0	<5.0	<5.0	-
Phenols	mg/L	<0.005	<0.005	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.022
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB110D, F-Area Seepage Basins

				ft (msl)
SRP Grid	N 74193.3			
Coordinates	E 50141.6	Screen Zone Elevation		211.1 - 191.1
Latitude	33.271678° N	Top of Casing Elevation		234.5
Longitude	81.678884° W	Casing Material		PVC

Parameter	Units	02/27/88	04/05/88	07/19/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.9	204.7	204.1	204
pH	pH	3.3	3.3	3.3	3.0
Conductivity	µmhos/cm	3120	3600	3750	3870
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	1340	1570	1410	1740
Gross Alpha	pCi/L	1430	2140	905	959
Nonvolatile Beta	pCi/L	2600	3330	2870	3100
Total Radium	pCi/L	25.9	25.3	25.8	30.7
Tritium	pCi/mL	37800	43200	31700	34600
Arsenic	mg/L	0.097	<0.002	0.025	0.130
Barium	mg/L	0.451	0.432	0.203	0.272
Cadmium	mg/L	0.009	<0.002	0.006	<0.002
Calcium	mg/L	15.1	13.6	3.50	4.62
Chloride	mg/L	<1.0	3.3	1.0	<1.0
Chromium	mg/L	0.011	0.018	0.016	0.017
Copper	mg/L	-	-	0.085	0.143
Fluoride	mg/L	1.61	1.69	1.45	0.52
Iron	mg/L	4.23	3.71	0.778	0.747
Lead	mg/L	<0.006	0.089	0.012	<0.006
Magnesium	mg/L	4.30	2.93	1.35	1.55
Manganese	mg/L	3.61	4.02	1.58	2.14
Mercury	mg/L	0.0002	<0.0002	<0.0002	0.0012
Nickel	mg/L	-	-	0.048	0.070
Potassium	mg/L	4.23	4.70	2.11	2.49
Selenium	mg/L	0.003	<0.002	0.028	<0.002
Silica	mg/L	18.8	67.0	65.7	73.0
Silver	mg/L	0.0040	0.0070	0.0050	<0.0020
Sodium	mg/L	173	172	130	123
Total Phosphates	mg/L	<0.020	0.110	0.060	0.130
Zinc	mg/L	-	-	0.188	0.256
Nitrate (as N)	mg/L	440	391	426	545
Sulfate	mg/L	9.0	10.0	<5.0	<5.0
Phenols	mg/L	0.019	-	0.015	0.040
Tot. Org. Carbon	mg/L	2.90	2.50	<1.000	3.60
Tot. Org. Halogens	mg/L	0.016	0.016	0.011	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-32
GROUNDWATER MONITORING RESULTS FROM THE F-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: FSB111C, F-Area Seepage Basins

SRP Grid	N	75383.3		ft (msl)
Coordinates	E	51526.3	Screen Zone Elevation	169.0 - 159.0
Latitude	33.276569° N		Top of Casing Elevation	276.3
Longitude	81.677550° W		Casing Material	PVC

Parameter	Units	03/13/88	04/05/88	07/31/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.7	211.6	210.9	210.8
pH	pH	5.9	5.7	4.9	5.4
Conductivity	µmhos/cm	57	54	55	68
Alkalinity	mg/L	11	11	11	9
TDS	mg/L	38	52	44	64
Gross Alpha	pCi/L	<3.0	<3.0	1.2	<3.0
Nonvolatile Beta	pCi/L	<2.0	<2.0	<2.0	<2.0
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	20.4	6.60	4.54	5.35
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.007	0.009	0.006	0.007
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	4.27	5.07	4.81	5.49
Chloride	mg/L	2.4	3.4	3.4	6.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	<0.004	0.004
Fluoride	mg/L	<0.10	<0.10	0.14	<0.10
Iron	mg/L	0.010	0.018	0.025	0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.362	0.424	0.337	0.401
Manganese	mg/L	0.032	0.027	0.013	0.013
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	-	<0.004	<0.004
Potassium	mg/L	<0.500	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.88	4.96	4.63	4.78
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.42	3.35	2.54	3.54
Total Phosphates	mg/L	0.100	0.280	0.140	0.140
Zinc	mg/L	-	-	<0.002	0.007
Nitrate (as N)	mg/L	1.79	1.69	1.83	1.75
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.012
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: FSB111D, F-Area Seepage Basins

SRP Grid	N	75382.9		ft (msl)
Coordinates	E	51515.9	Screen Zone Elevation	221.7 - 201.7
Latitude	33.276552° N		Top of Casing Elevation	276.6
Longitude	81.677577° W		Casing Material	PVC

Parameter	Units	03/16/88	04/05/88	07/19/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	214.6	214	213.6
pH	pH	5.1	5.1	5.0	4.7
Conductivity	µmhos/cm	52	45	44	44
Alkalinity	mg/L	6	3	2	0
TDS	mg/L	48	50	50	48
Gross Alpha	pCi/L	1.2	1.5	1.5	1.7
Nonvolatile Beta	pCi/L	7.6	6.8	8.0	9.0
Total Radium	pCi/L	0.6	<1.0	<1.0	<1.0
Tritium	pCi/mL	8.70	8.80	5.90	6.64
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.013	0.018	0.057	0.020
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.26	1.66	22.6	2.44
Chloride	mg/L	4.0	4.6	2.7	4.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	-	0.007	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.066	0.017	0.014	0.030
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.388	0.546	0.393	0.744
Manganese	mg/L	0.059	0.052	<0.002	0.055
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	-	<0.004	0.009
Potassium	mg/L	<0.500	<0.500	34.7	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.88	4.33	8.30	3.92
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.65	5.03	19.6	3.12
Total Phosphates	mg/L	0.040	0.020	<0.020	<0.020
Zinc	mg/L	-	-	0.003	0.034
Nitrate (as N)	mg/L	1.72	1.97	2.05	2.24
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.008	0.009	0.012
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Other Analyses
(GCMS Scan and Pest Herb* Analytes: Table 5-91)

FSB 88C 10/16/88
GCMS Scan detected the following: None

FSB 90D 10/23/88
GCMS Scan detected the following: None

FSB 91D 10/22/88
GCMS Scan detected the following:
Benzene 0.014 mg/L

FSB 93D 10/16/88
GCMS Scan detected the following: None

FSB 94C 10/16/88
GCMS Scan detected the following: None

FSB 97D 10/16/88
GCMS Scan detected the following: None

FSB 98D 10/16/88
GCMS Scan detected the following: None

FSB102C 02/27/88
Pest/Herb* analyses detected the following: None

FSB103C 02/27/88
Pest/Herb* analyses detected the following: None

FSB104D 03/10/88
Pest/Herb* analyses detected the following: None

FSB104D 03/10/88
Pest/Herb* analyses detected the following: None

FSB105C 03/13/88
Pest/Herb* analyses detected the following: None

FSB106C 02/27/88
Pest/Herb* analyses detected the following: None

FSB107C 03/13/88
Pest/Herb* analyses detected the following: None

FSB107D 03/13/88
Pest/Herb* analyses detected the following: None

FSB109D 10/22/88
GCMS Scan detected the following:
Benzene 0.019 mg/L

FSB110D 02/27/88
Pest/Herb* analyses detected the following: None

FSB111C 03/13/88
Pest/Herb* analyses detected the following: None

FSB111D 03/16/88
Pest/Herb* analyses detected the following: None

TABLE 5-33
GROUNDWATER MONITORING RESULTS FROM THE F-AREA TANK FARM WELLS

Well: FTF 2, F-Area Tank Farm

SRP Grid	N 77336.0		ft (msl)
Coordinates	E 53275.1	Screen Zone Elevation	239.4 - 219.4
Latitude	33.283742° N	Top of Casing Elevation	281.3
Longitude	81.676740° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.1	224.1	224.5	224.1
pH	pH	7.6	5.8	6.9	-
Conductivity	µmhos/cm	76	-	81	-
Gross Alpha	pCi/L	0.7	1.0	1.3	-
Nonvolatile Beta	pCi/L	2.7	3.2	2.8	-
Total Radium	pCi/L	-	5.0	-	-
Tritium	pCi/mL	5.79	3.92	2.70	-
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	0.35	-	-

Well: FTF 3, F-Area Tank Farm

SRP Grid	N 77235.3		ft (msl)
Coordinates	E 53244.8	Screen Zone Elevation	221.2 - 218.2
Latitude	33.283470° N	Top of Casing Elevation	280.0
Longitude	81.676624° W	Casing Material	Steel

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.9	225	224	224
pH	pH	7.1	6.2	6.8	6.6
Conductivity	µmhos/cm	98	-	109	105
Gross Alpha	pCi/L	1.8	0.4	10.0	3.6
Nonvolatile Beta	pCi/L	6.2	7.8	7.8	4.0
Total Radium	pCi/L	-	3.2	5.3	-
Tritium	pCi/mL	3.97	4.79	3.16	3.42
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	6.05
Nitrate (as N)	mg/L	-	0.21	324	0.06

Well: FTF 4, F-Area Tank Farm

SRP Grid	N 77132.9		ft (msl)
Coordinates	E 53268.2	Screen Zone Elevation	236.6 - 216.6
Latitude	33.283281° N	Top of Casing Elevation	278.5
Longitude	81.676363° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.1	225.1	224.1	224.5
pH	pH	7.1	6.3	6.8	7.0
Conductivity	µmhos/cm	99	-	111	155
Gross Alpha	pCi/L	2.1	0.8	0.4	1.5
Nonvolatile Beta	pCi/L	10.3	5.9	5.6	8.1
Total Radium	pCi/L	-	23.6	5.2	-
Tritium	pCi/mL	10.6	7.91	6.95	3.83
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	7.45
Nitrate (as N)	mg/L	-	0.52	155	0.88

Well: FTF 5, F-Area Tank Farm

SRP Grid	N 77035.6		ft (msl)
Coordinates	E 53168.3	Screen Zone Elevation	235.3 - 215.3
Latitude	33.282903° N	Top of Casing Elevation	277.3
Longitude	81.676437° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224	224.9	222.6	224.1
pH	pH	7.2	7.2	7.8	7.5
Conductivity	µmhos/cm	312	-	314	408
Gross Alpha	pCi/L	71.9	0.4	1.2	0.5
Nonvolatile Beta	pCi/L	280	338	269	355
Total Radium	pCi/L	-	0.5	< 1.0	-
Tritium	pCi/mL	40.2	39.5	32.5	34.7
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	27.6
Nitrate (as N)	mg/L	-	0.80	1.86	1.39

Well: FTF 6, F-Area Tank Farm

SRP Grid	N 77151.4		ft (msl)
Coordinates	E 53062.0	Screen Zone Elevation	236.9 - 216.9
Latitude	33.282986° N	Top of Casing Elevation	278.0
Longitude	81.676942° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.4	224.8	223.5	223.4
pH	pH	7.1	5.4	6.5	-
Conductivity	µmhos/cm	164	-	277	576
Gross Alpha	pCi/L	5.6	0.2	68.6	< 43.7
Nonvolatile Beta	pCi/L	1050	303	21800	43900
Total Radium	pCi/L	-	33.9	25.9	-
Tritium	pCi/mL	12.7	8.69	113	257
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	77.0
Nitrate (as N)	mg/L	-	1.25	14.6	36.1

Well: FTF 7, F-Area Tank Farm

SRP Grid	N 77235.9		ft (msl)
Coordinates	E 53089.7	Screen Zone Elevation	226.1 - 222.1
Latitude	33.283218° N	Top of Casing Elevation	280.0
Longitude	81.677033° W	Casing Material	Steel

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.7	224.7	224.1	223
pH	pH	7.2	8.6	7.5	6.9
Conductivity	µmhos/cm	56	-	73	85
Gross Alpha	pCi/L	114	0.2	1.8	40.0
Nonvolatile Beta	pCi/L	5490	222	559	1600
Total Radium	pCi/L	-	1.9	9.7	-
Tritium	pCi/mL	3.90	2.82	7.11	7.08
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	8.62
Nitrate (as N)	mg/L	-	0.61	1.28	0.10

Well: FTF 9, F-Area Tank Farm

SRP Grid	N 77482.8		ft (msl)
Coordinates	E 52769.5	Screen Zone Elevation	236.4 - 216.4
Latitude	33.283241° N	Top of Casing Elevation	271.9
Longitude	81.678356° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	223.9	223.2	222.7	223.1
pH	pH	7.1	5.9	7.2	-
Conductivity	µmhos/cm	79	-	208	-
Gross Alpha	pCi/L	0.3	< 3.0	114	-
Nonvolatile Beta	pCi/L	2.4	< 2.0	65.0	-
Total Radium	pCi/L	-	24.2	24.0	-
Tritium	pCi/mL	14.6	0.54	6.89	-
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	1.77	2.56	-

Well: FTF 10, F-Area Tank Farm

SRP Grid	N 77336.0		ft (msl)
Coordinates	E 52905.0	Screen Zone Elevation	235.1 - 215.1
Latitude	33.283138° N	Top of Casing Elevation	271.1
Longitude	81.677714° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	-
Water Elevation	ft	223.1	223.6	-	-
pH	pH	7.1	7.1	-	-
Conductivity	µmhos/cm	130	-	352	-
Gross Alpha	pCi/L	1.8	0.0	-	-
Nonvolatile Beta	pCi/L	6.5	10.4	-	-
Total Radium	pCi/L	-	52.3	-	-
Tritium	pCi/mL	11.0	9.13	-	-
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	2.50	-	-

TABLE 5-33
GROUNDWATER MONITORING RESULTS FROM THE F-AREA TANK FARM WELLS, CONT'D.

Well: FTF 11, F-Area Tank Farm

SRP Grid	N 77180.7		ft (msl)
Coordinates	E 52748.8	Screen Zone Elevation	235.8 - 215.8
Latitude	33.282539° N	Top of Casing Elevation	271.2
Longitude	81.677824° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	227.5	223.7	-	-
pH	pH	7.1	4.8	-	-
Conductivity	µmhos/cm	49	-	-	-
Gross Alpha	pCi/L	3.4	2.5	-	-
Nonvolatile Beta	pCi/L	6.5	5.2	-	-
Total Radium	pCi/L	-	52.3	-	-
Tritium	pCi/mL	23.4	19.0	-	-
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	1.75	-	-

Well: FTF 12, F-Area Tank Farm

SRP Grid	N 77321.4		ft (msl)
Coordinates	E 52648.5	Screen Zone Elevation	235.0 - 215.0
Latitude	33.282687° N	Top of Casing Elevation	271.7
Longitude	81.678361° W	Casing Material	Steel

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.9	226.9	227.1	227.1
pH	pH	7.2	10.7	11.8	11.8
Conductivity	µmhos/cm	1460	-	1760	1611
Gross Alpha	pCi/L	0.3	<0.1	0.2	0.2
Nonvolatile Beta	pCi/L	7.6	7.2	8.4	10.2
Total Radium	pCi/L	-	0.6	<1.0	-
Tritium	pCi/mL	20.5	20.4	15.0	10.2
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	7.73
Nitrate (as N)	mg/L	-	0.89	1.49	2.65

Well: FTF 13, F-Area Tank Farm

SRP Grid	N 76637.8		ft (msl)
Coordinates	E 53098.4	Screen Zone Elevation	236.1 - 216.1
Latitude	33.281909° N	Top of Casing Elevation	285.8
Longitude	81.675849° W	Casing Material	Steel

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.6	224.5	224	223
pH	pH	7.1	9.4	11.3	11.5
Conductivity	µmhos/cm	195	-	652	1074
Gross Alpha	pCi/L	0.5	0.3	0.0	0.5
Nonvolatile Beta	pCi/L	1.5	0.2	2.4	2.3
Total Radium	pCi/L	-	1.1	-	-
Tritium	pCi/mL	11.4	10.7	8.79	9.16
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	0.96	5.11	-

Well: FTF 15, F-Area Tank Farm

SRP Grid	N 76732.0		ft (msl)
Coordinates	E 53230.0	Screen Zone Elevation	227.5 - 197.5
Latitude	33.282332° N	Top of Casing Elevation	286.5
Longitude	81.675685° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.1	225.1	224.2	224.5
pH	pH	7.1	4.4	5.2	5.6
Conductivity	µmhos/cm	46	-	61	59
Gross Alpha	pCi/L	1.2	0.2	1.6	12.5
Nonvolatile Beta	pCi/L	1.0	1.6	2.4	11.6
Total Radium	pCi/L	-	6.4	7.8	-
Tritium	pCi/mL	10.6	10.6	8.45	6.96
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	4.98
Nitrate (as N)	mg/L	-	5.94	3.50	3.75

Well: FTF 16, F-Area Tank Farm

SRP Grid	N 76758.6		ft (msl)
Coordinates	E 52879.8	Screen Zone Elevation	233.8 - 203.8
Latitude	33.281820° N	Top of Casing Elevation	288.6
Longitude	81.676659° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	223.8	223.9	222.8	222.6
pH	pH	7.2	4.3	5.6	5.8
Conductivity	µmhos/cm	48	-	47	43
Gross Alpha	pCi/L	0.4	0.5	0.9	0.7
Nonvolatile Beta	pCi/L	1.6	1.5	1.2	0.9
Total Radium	pCi/L	-	5.6	4.9	-
Tritium	pCi/mL	9.14	8.57	6.40	6.74
Cadmium	mg/L	-	-	<0.002	-
Chromium	mg/L	-	-	<0.004	-
Sodium	mg/L	-	-	-	4.87
Nitrate (as N)	mg/L	-	1.36	1.87	1.88

Well: FTF 17, F-Area Tank Farm

SRP Grid	N 76872.0		ft (msl)
Coordinates	E 52884.0	Screen Zone Elevation	230.6 - 200.6
Latitude	33.282077° N	Top of Casing Elevation	289.6
Longitude	81.676868° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.3	224.6	223.6	222.2
pH	pH	6.9	4.6	5.2	5.9
Conductivity	µmhos/cm	45	-	66	56
Gross Alpha	pCi/L	0.5	0.4	1.5	2.9
Nonvolatile Beta	pCi/L	2.9	1.6	3.9	2.9
Total Radium	pCi/L	-	9.8	6.7	-
Tritium	pCi/mL	12.5	10.6	8.49	8.42
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	4.51
Nitrate (as N)	mg/L	-	1.49	2.82	2.50

Well: FTF 18, F-Area Tank Farm

SRP Grid	N 76955.8		ft (msl)
Coordinates	E 52879.2	Screen Zone Elevation	232.3 - 202.3
Latitude	33.282255° N	Top of Casing Elevation	288.0
Longitude	81.677043° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.2	225	222.9	222.8
pH	pH	7.0	5.5	5.7	5.7
Conductivity	µmhos/cm	37	-	67	45
Gross Alpha	pCi/L	0.8	0.3	0.6	1.6
Nonvolatile Beta	pCi/L	1.5	2.1	2.2	1.4
Total Radium	pCi/L	-	6.2	10.3	-
Tritium	pCi/mL	8.25	17.0	8.77	7.83
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	6.37
Nitrate (as N)	mg/L	-	1.04	1.38	1.32

Well: FTF 19, F-Area Tank Farm

SRP Grid	N 77139.1		ft (msl)
Coordinates	E 52670.4	Screen Zone Elevation	228.3 - 198.3
Latitude	33.282319° N	Top of Casing Elevation	287.2
Longitude	81.677949° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	223.3	223.9	223	221.6
pH	pH	7.2	4.8	6.2	5.7
Conductivity	µmhos/cm	52	-	76	53
Gross Alpha	pCi/L	0.5	0.4	0.1	1.4
Nonvolatile Beta	pCi/L	9.7	7.8	3.4	4.1
Total Radium	pCi/L	-	2.7	3.3	-
Tritium	pCi/mL	9.73	8.49	2.27	7.26
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	8.91
Nitrate (as N)	mg/L	-	1.93	1.66	2.61

TABLE 5-33
GROUNDWATER MONITORING RESULTS FROM THE F-AREA TANK FARM WELLS, CONT'D.

Well: FTF 20, F-Area Tank Farm

SRP Grid Coordinates	N 77015.0 E 52500.0	Screen Zone Elevation	ft (msl) 228.3 - 198.3
Latitude	33.281767° N	Top of Casing Elevation	287.1
Longitude	81.678157° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	222.7	222.8	221.8	221.7
pH	pH	7.0	4.8	6.4	6.1
Conductivity	µmhos/cm	58	-	65	58
Gross Alpha	pCi/L	1.7	0.8	0.8	0.9
Nonvolatile Beta	pCi/L	5.5	3.8	2.8	2.8
Total Radium	pCi/L	-	6.5	8.1	-
Tritium	pCi/mL	12.8	8.46	5.60	6.43
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	9.16
Nitrate (as N)	mg/L	-	1.25	1.36	1.66

Well: FTF 21, F-Area Tank Farm

SRP Grid Coordinates	N 76866.7 E 52498.6	Screen Zone Elevation	ft (msl) 228.7 - 198.7
Latitude	33.281437° N	Top of Casing Elevation	287.5
Longitude	81.677872° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	223.7	223.5	222.5	221.1
pH	pH	7.9	11.2	12.3	11.8
Conductivity	µmhos/cm	473	-	5030	1957
Gross Alpha	pCi/L	0.2	<0.1	0.3	<0.1
Nonvolatile Beta	pCi/L	16.6	13.7	13.6	24.8
Total Radium	pCi/L	-	1.5	2.0	-
Tritium	pCi/mL	9.87	9.18	8.65	7.58
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	40.1
Nitrate (as N)	mg/L	-	0.12	0.11	0.22

Well: FTF 22, F-Area Tank Farm

SRP Grid Coordinates	N 76751.3 E 52494.7	Screen Zone Elevation	ft (msl) 242.6 - 212.6
Latitude	33.281175° N	Top of Casing Elevation	286.8
Longitude	81.677659° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	221.6	222.1	221.4	221.6
pH	pH	5.8	5.5	5.4	5.6
Conductivity	µmhos/cm	50	-	53	48
Gross Alpha	pCi/L	1.4	0.4	1.5	3.1
Nonvolatile Beta	pCi/L	1.8	3.1	3.6	2.5
Total Radium	pCi/L	-	9.1	5.1	-
Tritium	pCi/mL	12.2	11.1	8.82	9.15
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	5.31
Nitrate (as N)	mg/L	-	1.67	2.08	2.26

Well: FTF 23, F-Area Tank Farm

SRP Grid Coordinates	N 76611.8 E 52660.3	Screen Zone Elevation	ft (msl) 231.2 - 201.2
Latitude	33.281137° N	Top of Casing Elevation	286.0
Longitude	81.676951° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	222	222.3	222.2	221.4
pH	pH	7.2	5.1	5.3	5.5
Conductivity	µmhos/cm	45	-	60	60
Gross Alpha	pCi/L	2.5	1.7	1.9	2.6
Nonvolatile Beta	pCi/L	3.4	2.6	4.9	0.6
Total Radium	pCi/L	-	5.5	<1.0	-
Tritium	pCi/mL	9.61	11.4	7.79	8.08
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	6.18
Nitrate (as N)	mg/L	-	3.20	2.89	2.80

Well: FTF 24A, F-Area Tank Farm

SRP Grid Coordinates	N 77256.6 E 52780.8	Screen Zone Elevation	ft (msl) 232.7 - 212.7
Latitude	33.282759° N	Top of Casing Elevation	270.3
Longitude	81.677887° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	223.6	225.5	222.9	223
pH	pH	7.0	5.6	7.2	6.7
Conductivity	µmhos/cm	130	-	147	133
Gross Alpha	pCi/L	0.3	0.4	0.3	1.2
Nonvolatile Beta	pCi/L	5.7	5.8	4.3	5.1
Total Radium	pCi/L	-	32.1	27.2	-
Tritium	pCi/mL	20.2	25.8	18.8	17.2
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	19.0
Nitrate (as N)	mg/L	-	2.12	3.24	3.37

Well: FTF 25A, F-Area Tank Farm

SRP Grid Coordinates	N 77308.4 E 52868.7	Screen Zone Elevation	ft (msl) 232.8 - 212.8
Latitude	33.283017° N	Top of Casing Elevation	271.2
Longitude	81.677756° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.1	224.2	223.7	222.7
pH	pH	7.1	6.7	7.8	7.1
Conductivity	µmhos/cm	172	-	216	175
Gross Alpha	pCi/L	0.4	0.6	0.1	2.8
Nonvolatile Beta	pCi/L	13.1	12.1	14.5	19.3
Total Radium	pCi/L	-	25.3	24.2	-
Tritium	pCi/mL	18.6	14.7	13.1	12.4
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	20.2
Nitrate (as N)	mg/L	-	2.84	3.49	3.95

Well: FTF 26, F-Area Tank Farm

SRP Grid Coordinates	N 77250.0 E 52875.4	Screen Zone Elevation	ft (msl) 226.3 - 206.3
Latitude	33.282899° N	Top of Casing Elevation	270.9
Longitude	81.677625° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.5	224.3	223.4	222.7
pH	pH	7.1	6.3	7.2	6.7
Conductivity	µmhos/cm	124	-	198	133
Gross Alpha	pCi/L	0.4	0.5	0.9	1.4
Nonvolatile Beta	pCi/L	25.1	17.5	36.5	24.0
Total Radium	pCi/L	-	26.3	18.4	-
Tritium	pCi/mL	15.9	10.7	12.8	7.14
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	8.35
Nitrate (as N)	mg/L	-	2.19	2.61	2.55

Well: FTF 27, F-Area Tank Farm

SRP Grid Coordinates	N 77227.2 E 52823.5	Screen Zone Elevation	ft (msl) 243.5 - 213.5
Latitude	33.282764° N	Top of Casing Elevation	270.5
Longitude	81.677717° W	Casing Material	PVC

Parameter	Units	02/06/88	05/21/88	08/06/88	11/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.1	224.5	223.3	227.1
pH	pH	6.9	6.6	7.3	7.1
Conductivity	µmhos/cm	185	-	148	129
Gross Alpha	pCi/L	0.4	44.1	0.1	0.1
Nonvolatile Beta	pCi/L	7.1	33.5	5.6	9.2
Total Radium	pCi/L	-	14.8	29.4	-
Tritium	pCi/mL	20.4	14.2	20.1	24.7
Cadmium	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	10.1
Nitrate (as N)	mg/L	-	4.72	4.87	2.99

TABLE 5-33
GROUNDWATER MONITORING RESULTS FROM THE F-AREA TANK FARM WELLS, CONT'D.

Other Analyses
(Gamma PHA Analytes: Table 5-91)

FTF 24A 02/06/88
Gamma PHA analyses detected the following: None

FTF 24A 05/21/88
Gamma PHA analyses detected the following: None

FTF 24A 08/06/88
Gamma PHA analyses detected the following: None

FTF 24A 11/05/88
Gamma PHA analyses detected the following: None

FTF 25A 02/06/88
Gamma PHA analyses detected the following: None

FTF 25A 05/21/88
Gamma PHA analyses detected the following: None

FTF 25A 08/06/88
Lead 212 0.146 pCi/mL
Thorium 234 0.674 pCi/mL
Gamma PHA analyses detected the following: None

FTF 25A 11/05/88
Gamma PHA analyses detected the following: None

FTF 26 02/06/88
Gamma PHA analyses detected the following: None

FTF 25 05/21/88
Gamma PHA analyses detected the following: None

FTF 26 08/06/88
Gamma PHA analyses detected the following: None

FTF 26 11/05/88
Gamma PHA analyses detected the following: None

FTF 27 02/06/88
Gamma PHA analyses detected the following: None

FTF 27 05/21/88
Gamma PHA analyses detected the following: None

FTF 27 08/06/88
Gamma PHA analyses detected the following: None

FTF 27 11/05/88
Gamma PHA analyses detected the following: None

TABLE 5-34
GROUNDWATER MONITORING RESULTS FROM THE NAVAL FUEL MATERIAL FACILITY BACKGROUND WELLS

Well: NBG 1, F-Area Naval Fuels Background Wells

SRP Grid	N 79300.4			ft (msl)
Coordinates	E 53879.3	Screen Zone Elevation		232.3 - 200.9
Latitude	33.289072° N	Top of Casing Elevation		311.5
Longitude	81.678966° W	Casing Material		PVC

Parameter	Units	03/16/88	06/14/88	09/11/88	12/21/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	224.5	224.1	224	222.8
pH	pH	5.3	5.2	5.0	4.8
Conductivity	µmhos/cm	86	114	148	156
Alkalinity	*mg/L*	*4*	*5*	*4*	*2*
Gross Alpha	pCi/L	4.4	-	4.7	-
Nonvolatile Beta	pCi/L	10.2	-	31.6	-
Total Radium	pCi/L	1.4	-	-	-
Tritium	pCi/mL	356	-	405	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	3.81	-	-	-
Iron	mg/L	0.056	-	-	-
Lead	mg/L	0.031	-	0.021	-
Manganese	mg/L	0.009	-	0.020	-
Mercury	mg/L	0.0006	-	<0.0002	-
Sodium	mg/L	9.70	-	-	-
Total Phosphates	mg/L	0.060	-	-	-
Nitrate (as N)	mg/L	10.2	-	10.7	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	*mg/L*	*<0.005*	-	-	-
Tot. Org. Halogens	mg/L	0.093	-	0.106	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	*0.002*	-	*0.002*	-
Trichloroethylene	mg/L	0.089	-	0.132	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: NBG 2, F-Area Naval Fuels Background Wells

SRP Grid	N 79099.8			ft (msl)
Coordinates	E 53958.4	Screen Zone Elevation		233.6 - 203.6
Latitude	33.288757° N	Top of Casing Elevation		312.7
Longitude	81.678368° W	Casing Material		PVC

Parameter	Units	03/16/88	06/14/88	09/11/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.1	224.8	224.7	224.2
pH	pH	5.3	5.3	5.0	4.9
Conductivity	µmhos/cm	323	311	394	486
Alkalinity	mg/L	5	7	6	4
Gross Alpha	pCi/L	6.0	-	3.7	-
Nonvolatile Beta	pCi/L	10.5	-	13.9	-
Total Radium	pCi/L	1.4	-	-	-
Tritium	pCi/mL	955	-	790	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	7.27	-	-	-
Iron	mg/L	0.193	-	-	-
Lead	mg/L	0.020	-	0.015	-
Manganese	mg/L	0.039	-	0.035	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Sodium	mg/L	49.5	-	-	-
Total Phosphates	mg/L	0.230	-	-	-
Nitrate (as N)	*mg/L*	*34.0*	-	*32.7*	-
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.064	-	0.054	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.002	-
Chloroform	mg/L	<0.001	-	<0.002	-
Tetrachloroethylene	mg/L	0.007	-	0.004	-
Trichloroethylene	mg/L	0.039	-	0.066	-
1,1,1-TCE	mg/L	<0.001	-	<0.002	-

Well: NBG 3, F-Area Naval Fuels Background Wells

SRP Grid	N 78939.6			ft (msl)
Coordinates	E 54068.1	Screen Zone Elevation		233.5 - 202.1
Latitude	33.288582° N	Top of Casing Elevation		312.4
Longitude	81.677767° W	Casing Material		PVC

Parameter	Units	03/11/88	06/14/88	09/11/88	12/21/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	222.5	216.8	216.3	215.6
pH	pH	6.4	6.8	6.5	6.3
Conductivity	µmhos/cm	105	157	141	124
Alkalinity	*mg/L*	*41*	*92*	*61*	*44*
Gross Alpha	pCi/L	1.6	-	1.5	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Total Radium	pCi/L	<1.0	-	-	-
Tritium	pCi/mL	9.90	-	10.4	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	16.4	-	-	-
Iron	mg/L	0.059	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.003	-	0.005	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Sodium	mg/L	*2.92*	-	-	-
Total Phosphates	mg/L	0.190	-	-	-
Nitrate (as N)	mg/L	1.65	-	1.81	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	*mg/L*	*<0.005*	-	-	-
Tot. Org. Halogens	mg/L	0.015	-	0.012	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.002	-	0.001	-
Trichloroethylene	mg/L	0.002	-	0.021	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: NBG 4, F-Area Naval Fuels Background Wells

SRP Grid	N 78942.1			ft (msl)
Coordinates	E 54329.2	Screen Zone Elevation		227.5 - 196.1
Latitude	33.289014° N	Top of Casing Elevation		306.5
Longitude	81.677085° W	Casing Material		PVC

Parameter	Units	03/11/88	06/14/88	09/11/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.2	216.4	215.8	215
pH	pH	5.3	5.4	5.3	5.0
Conductivity	µmhos/cm	30	29	34	31
Alkalinity	mg/L	3	4	4	1
Gross Alpha	pCi/L	1.0	-	1.5	-
Nonvolatile Beta	pCi/L	2.1	-	-	-
Total Radium	pCi/L	<1.0	-	-	-
Tritium	pCi/mL	9.10	-	7.79	-
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	2.00	-	-	-
Iron	mg/L	0.013	-	-	-
Lead	mg/L	0.010	-	0.006	-
Manganese	*mg/L*	*0.005*	-	*0.004*	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Sodium	mg/L	1.92	-	-	-
Total Phosphates	mg/L	<0.020	-	-	-
Nitrate (as N)	mg/L	1.51	-	1.45	-
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.010	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.004	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	0.005	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-34
GROUNDWATER MONITORING RESULTS FROM THE NAVAL FUEL MATERIAL FACILITY BACKGROUND WELLS, CONT'D.

Well: NBG 5, F-Area Naval Fuels Background Wells

SRP Grid	N 78943.4		ft (msl)
Coordinates	E 54515.6	Screen Zone Elevation	226.4 - 194.9
Latitude	33.289321° N	Top of Casing Elevation	303.5
Longitude	81.676597° W	Casing Material	PVC

Parameter	Units	03/11/88	06/14/88	09/11/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.6	216.7	216.2	215.4
pH	pH	5.7	5.9	5.7	5.3
Conductivity	µmhos/cm	44	43	45	43
Alkalinity	mg/L	7	13	13	8
Gross Alpha	pCi/L	4.1	-	1.4	-
Nonvolatile Beta	pCi/L	1.9	-	-	-
Total Radium	pCi/L	< 1.0	-	-	-
Tritium	pCi/mL	12.5	-	8.15	-
Arsenic	mg/L	< 0.002	-	-	-
Calcium	mg/L	4.27	-	-	-
Iron	mg/L	0.171	-	-	-
Lead	mg/L	< 0.006	-	0.008	-
Manganese	mg/L	0.006	-	0.005	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Sodium	mg/L	1.98	-	-	-
Total Phosphates	mg/L	0.110	-	-	-
Nitrate (as N)	mg/L	1.20	-	1.39	-
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.006	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.004	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	0.008	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-35
GROUNDWATER MONITORING RESULTS FROM THE OLD F-AREA SEEPAGE BASIN WELLS

Well: FNB 1, Old F-Area Seepage Basin

SRP Grid	N 80151.5		ft (msl)
Coordinates	E 54271.6	Screen Zone Elevation	207.2 - 177.2
Latitude	33.291594° N	Top of Casing Elevation	284.3
Longitude	81.679586° W	Casing Material	PVC

Parameter	Units	03/02/88	05/12/88	08/24/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.4	209.6	209	208.6
pH	pH	4.7	4.6	4.6	4.7
Conductivity	µmhos/cm	76	81	82	79
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	7.3	-	3.1	5.1
Nonvolatile Beta	pCi/L	9.6	-	11.6	9.8
Total Radium	pCi/L	1.6	-	1.1	1.5
Tritium	pCi/mL	236	-	194	269
Barium	mg/L	0.020	-	0.017	0.021
Beryllium	mg/L	<0.005	-	-	<0.005
Cadmium	mg/L	<0.002	-	-	<0.002
Chromium	mg/L	<0.004	-	-	<0.004
Copper	mg/L	<0.004	-	<0.004	0.006
Fluoride	mg/L	<0.10	-	-	<0.10
Iron	mg/L	0.020	-	0.027	0.052
Lead	mg/L	0.013	-	0.013	0.011
Manganese	mg/L	0.017	-	0.016	0.020
Mercury	mg/L	<0.0002	-	0.0002	0.0004
Nickel	mg/L	<0.004	-	-	0.005
Silver	mg/L	<0.0020	-	-	<0.0020
Sodium	mg/L	8.37	-	-	8.35
Zinc	mg/L	0.008	-	-	0.023
Nitrate (as N)	mg/L	8.35	-	6.50	7.11
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	<1.000	-
Tot. Org. Halogens	mg/L	0.049	-	0.006	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.075	-	0.059	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FNB 2, Old F-Area Seepage Basin

SRP Grid	N 80442.3		ft (msl)
Coordinates	E 54362.1	Screen Zone Elevation	210.8 - 180.8
Latitude	33.292385° N	Top of Casing Elevation	287.8
Longitude	81.679913° W	Casing Material	PVC

Parameter	Units	03/02/88	05/12/88	08/24/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	206.3	205.5	204.9	204.5
pH	pH	3.7	3.7	3.7	3.8
Conductivity	µmhos/cm	282	321	250	300
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	71.7	-	63.4	54.8
Nonvolatile Beta	pCi/L	633	-	614	651
Total Radium	pCi/L	10.9	-	12.1	8.2
Tritium	pCi/mL	515	-	349	471
Barium	mg/L	0.109	-	0.089	0.103
Beryllium	mg/L	<0.005	-	-	<0.005
Cadmium	mg/L	<0.002	-	-	<0.002
Chromium	mg/L	<0.004	-	-	<0.004
Copper	mg/L	0.012	-	0.010	0.014
Fluoride	mg/L	0.21	-	-	0.21
Iron	mg/L	0.071	-	0.131	0.155
Lead	mg/L	<0.006	-	0.010	<0.006
Manganese	mg/L	0.422	-	0.351	0.405
Mercury	mg/L	0.0005	-	0.0003	0.0011
Nickel	mg/L	0.024	-	-	0.024
Silver	mg/L	<0.0020	-	-	<0.0020
Sodium	mg/L	14.8	-	-	14.0
Zinc	mg/L	0.025	-	-	0.045
Nitrate (as N)	mg/L	27.8	-	4.75	30.7
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	<1.000	-
Tot. Org. Halogens	mg/L	0.012	-	0.028	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.018	-	0.015	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FNB 3, Old F-Area Seepage Basin

SRP Grid	N 80553.1		ft (msl)
Coordinates	E 54105.8	Screen Zone Elevation	212.1 - 182.1
Latitude	33.292212° N	Top of Casing Elevation	284.0
Longitude	81.680803° W	Casing Material	PVC

Parameter	Units	03/02/88	05/12/88	08/24/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.5	207.9	207.2	206.7
pH	pH	4.3	4.3	4.3	4.6
Conductivity	µmhos/cm	130	131	129	100
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.2	-	19.9	10.8
Nonvolatile Beta	pCi/L	98	-	125	95.8
Total Radium	pCi/L	5.8	-	4.8	2.0
Tritium	pCi/mL	116	-	84.1	92.7
Barium	mg/L	0.064	-	0.046	0.034
Beryllium	mg/L	<0.005	-	-	<0.005
Cadmium	mg/L	<0.002	-	-	<0.002
Chromium	mg/L	<0.004	-	-	0.005
Copper	mg/L	0.009	-	0.005	0.007
Fluoride	mg/L	0.15	-	-	<0.10
Iron	mg/L	0.058	-	0.063	0.049
Lead	mg/L	0.008	-	0.014	0.022
Manganese	mg/L	0.271	-	0.187	0.131
Mercury	mg/L	<0.0002	-	<0.0002	0.0003
Nickel	mg/L	0.010	-	-	0.008
Silver	mg/L	<0.0020	-	-	<0.0020
Sodium	mg/L	6.36	-	-	6.06
Zinc	mg/L	0.056	-	-	0.060
Nitrate (as N)	mg/L	13.5	-	10.7	8.37
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	1.60	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: FNB 4, Old F-Area Seepage Basin

SRP Grid	N 80409.8		ft (msl)
Coordinates	E 53843.5	Screen Zone Elevation	209.6 - 179.6
Latitude	33.291467° N	Top of Casing Elevation	291.5
Longitude	81.681216° W	Casing Material	PVC

Parameter	Units	03/02/88	05/12/88	08/24/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.4	212.8	211.8	211.3
pH	pH	4.5	4.5	4.6	4.7
Conductivity	µmhos/cm	33	33	28	32
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	2.4	-	1.9	2.1
Nonvolatile Beta	pCi/L	<2.0	-	<2.0	2.8
Total Radium	pCi/L	<1.0	-	1.0	1.1
Tritium	pCi/mL	6.90	-	4.32	-
Barium	mg/L	0.007	-	0.006	0.006
Beryllium	mg/L	<0.005	-	-	<0.005
Cadmium	mg/L	<0.002	-	-	<0.002
Chromium	mg/L	<0.004	-	-	<0.004
Copper	mg/L	<0.004	-	<0.004	<0.004
Fluoride	mg/L	<0.10	-	-	<0.10
Iron	mg/L	0.014	-	0.055	0.031
Lead	mg/L	<0.006	-	<0.006	<0.006
Manganese	mg/L	0.007	-	0.009	0.009
Mercury	mg/L	<0.0002	-	-	<0.0002
Nickel	mg/L	<0.004	-	-	<0.004
Silver	mg/L	<0.0020	-	-	<0.0020
Sodium	mg/L	2.47	-	-	2.12
Zinc	mg/L	0.013	-	-	0.043
Nitrate (as N)	mg/L	1.42	-	1.32	1.54
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-36
MAXIMUM CONSTITUENT LEVELS AT GENERAL AREAS

Constituent	DWS	Units	BRD	CMP	Z	ZW
Gross Alpha	15	pCi/L	6.3	5.9	**32.2**	5.9
Nonvolatile Beta	-	pCi/L	4.2	9.6	321	16.9
Total Radium	5	pCi/L	1.2	2.6	-	-
Tritium	20	pCi/mL	-	-	**79.7**	**387**
Arsenic	0.05	mg/L	-	<0.002	-	-
Barium	1	mg/L	-	0.044	-	-
Cadmium	0.01	mg/L	-	-	-	-
Chromium	0.05	mg/L		0.007	-	-
Fluoride	4	mg/L	-	0.34	-	-
Lead	0.05	mg/L	**0.135**	0.045	-	-
Mercury	0.002	mg/L	-	-	-	-
Selenium	0.01	mg/L	-	-	-	-
Silver	0.05	mg/L	-	0.002	-	-
Nitrate (as N)	10	mg/L	1.72	-	-	-
Carbon Tetrachloride	0.005	mg/L	-	<0.001	-	-
Chloroform	0.1*	mg/L	-	<0.001	-	-
Trichloroethylene	0.005	mg/L		**0.007**	-	-
1,1,1-Trichloroethane	0.2	mg/L	-	<0.001		
2,4-D	0.1	mg/L	-	<0.0003	-	-
Endrin	0.0002	mg/L	-	<0.0001	-	-
Lindane	0.004	mg/L	-	<0.00001	-	-
Methoxychlor	0.1	mg/L	-	<0.0005	-	-
Silvex	0.01	mg/L	-	<0.0001	-	-
Toxaphene	0.005	mg/L	-	<0.001	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

BRD = Road A Chemical Basin (Baxley Road) Wells
CMP = Chemicals, Metals, Pesticides Pits Wells
Z = Wells Scattered Around F Area and H Area
ZW = Wells Scattered in and Around F Area and H Area

TABLE 5-36
MAXIMUM CONSTITUENT LEVELS AT GENERAL AREAS, CONT'D.

Constituent	DWS	Units	GBW	LFW	SSS
Gross Alpha	15	pCi/L	<3	**20.2**	**23.7**
Nonvolatile Beta	-	pCi/L	<2	25	15.4
Total Radium	5	pCi/L	-	**7.7**	**20**
Tritium	20	pCi/mL	-	**99**	5.85
Arsenic	0.05	mg/L	-	0.015	<0.002
Barium	1	mg/L	-	0.026	0.05
Cadmium	0.01	mg/L	-	<0.002	<0.002
Chromium	0.05	mg/L	<0.004	0.028	<0.004
Fluoride	4	mg/L	-	0.31	0.11
Lead	0.05	mg/L	<0.006	0.029	<0.006
Mercury	0.002	mg/L	-	0.0012	0.0002
Selenium	0.01	mg/L	-	-	<0.002
Silver	0.05	mg/L	-	<0.002	<0.002
Nitrate (as N)	10	mg/L	-	1.06	2.82
Carbon Tetrachloride	0.005	mg/L	-	**0.008**	-
Chloroform	0.1*	mg/L	-	0.006	-
Trichloroethylene	0.005	mg/L	-	**0.097**	-
1,1,1-Trichloroethane	0.2	mg/L	-	0.048	-
Benzene	0.005	mg/L	-	**0.008**	-
Chloroethene	0.002	mg/L	-	<0.01	-
1,2-Dichloroethane	0.005	mg/L	-	**0.013**	-
1,1-Dichloroethylene	0.005	mg/L	-	**0.019**	-
2,4-D	0.1	mg/L	-	<0.0003	<0.0003
Endrin	0.0002	mg/L	-	<0.0001	<0.0001
Lindane	0.004	mg/L	-	<0.00001	<0.00001
Methoxychlor	0.1	mg/L	-	<0.0005	<0.0005
Silvex	0.01	mg/L	-	0.0007	<0.0001
Toxaphene	0.005	mg/L	-	<0.001	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

GBW = Background Well near Hawthorne Fire Tower
LFW = Sanitary Landfill Wells
SSS = Sewage Sludge Application Sites Wells

TABLE 5-36
MAXIMUM CONSTITUENT LEVELS AT GENERAL AREAS, CONT'D.

Constituent	DWS	Units	FSS	HSS	KSS	PSS
Gross Alpha	15	pCi/L	3.2	4.6	<3	2.6
Nonvolatile Beta	-	pCi/L	1.7	1.6	<2	1.4
Total Radium	5	pCi/L	0.8	4.4	1.4	2.3
Tritium	20	pCi/mL	**487**	5.08	2.77	0.86
Arsenic	0.05	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	1	mg/L	0.014	0.039	0.011	0.006
Cadmium	0.01	mg/L	<0.002	<0.002	<0.002	<0.002
Chromium	0.05	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	4	mg/L	0.2	<0.1	1	<0.1
Lead	0.05	mg/L	0.018	0.042	<0.006	<0.006
Mercury	0.002	mg/L	0.0003	<0.0002	<0.0002	<0.0002
Selenium	0.01	mg/L	<0.002	<0.002	<0.002	<0.002
Silver	0.05	mg/L	<0.002	<0.002	<0.002	<0.002
Nitrate (as N)	10	mg/L	3.33	1.05	0.55	0.62
2,4-D	0.1	mg/L	<0.0003	<0.0003	<0.0003	<0.0003
Endrin	0.0002	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lindane	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Methoxychlor	0.1	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
Silvex	0.01	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Toxaphene	0.005	mg/L	<0.001	<0.001	<0.0001	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

FSS = F-Area Sludge Land Application Site Wells
HSS = H-Area Sludge Land Application Site Wells
KSS = K-Area Sludge Land Application Site Wells
PSS = P-Area Sludge Land Application Site Wells

TABLE 5-37
GROUNDWATER MONITORING RESULTS FROM THE BACKGROUND WELL NEAR HAWTHORNE FIRE TOWER

Well: GBW 1, Background Well Near Hawthorne Fire Tower

SRP Grid	N 87385.2		ft (msl)
Coordinates	E 87762.0	Screen Zone Elevation	279.6 - 249.6
Latitude	33.362223° N	Top of Casing Elevation	333.6
Longitude	81.605399° W	Casing Material	PVC

Parameter	Units	02/23/88	05/31/88	09/14/88	11/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	263.9	263.3	262.6	261.3
pH	pH	5.2	5.0	4.8	4.6
Conductivity	µmhos/cm	16	34	13	14
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Chromium	mg/L	<0.004	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

TABLE 5-38
GROUNDWATER MONITORING RESULTS FROM THE CHEMICAL, METALS, PESTICIDES PITS WELLS

Well: CMP 8, Chemicals, Metals, Pesticides Pits

SRP Grid	N 52681.4			ft (msl)
Coordinates	E 54272.4	Screen Zone Elevation		214.0 - 184.0
Latitude	33.230835° N	Top of Casing Elevation		228.6
Longitude	81.626244° W	Casing Material		PVC

Parameter	Units	03/06/88	05/30/88	09/13/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	202.3	202.2	201.3	201.1
pH	pH	5.5	5.5	5.3	5.5
Conductivity	µmhos/cm	26	29	28	29
Alkalinity	mg/L	8	7	4	15
Gross Alpha	pCi/L	< 3.0	-	1.2	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.3	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.008	-	-	-
Calcium	mg/L	2.24	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.010	-	0.024	
Lead	mg/L	0.035	-	0.030	-
Manganese	mg/L	0.010	-	0.008	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.60	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Zinc	mg/L	0.263	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.009	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 8B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 52674.6			ft (msl)
Coordinates	E 54280.2	Screen Zone Elevation		166.6 - 156.6
Latitude	33.230832° N	Top of Casing Elevation		229.5
Longitude	81.626210° W	Casing Material		PVC

Parameter	Units	03/06/88	05/30/88	09/13/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	197.8	197.3	197.2	197.1
pH	pH	6.9	6.9	6.8	7.0
Conductivity	µmhos/cm	120	134	127	127
Alkalinity	mg/L	59	76	57	51
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.8	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.019	-	-	-
Calcium	mg/L	20.6	-	-	-
Chromium	mg/L	0.005	-	-	-
Fluoride	mg/L	0.24	-	-	-
Iron	mg/L	0.008	-	0.049	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	1.33	-	-	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	1.96	-	-	-
Total Phosphates	mg/L	0.730	-	-	-
Zinc	mg/L	0.007	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 8A, Chemicals, Metals, Pesticides Pits

SRP Grid	N 52671.2			ft (msl)
Coordinates	E 54270.2	Screen Zone Elevation		23.5 - 13.7
Latitude	33.230809° N	Top of Casing Elevation		229.7
Longitude	81.626230° W	Casing Material		PVC

Parameter	Units	03/06/88	05/30/88	09/13/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	181.2	181.1	180.5	180.1
pH	pH	6.4	6.3	6.7	6.4
Conductivity	µmhos/cm	101	120	121	117
Alkalinity	mg/L	34	34	34	41
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	2.4	-	2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.025	-	-	-
Calcium	mg/L	16.0	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	0.13	-	-	-
Iron	mg/L	0.244	-	0.410	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.024	-	0.027	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	1.86	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.23	-	-	-
Total Phosphates	mg/L	0.100	-	-	-
Zinc	mg/L	0.039	-	-	-
Sulfate	mg/L	9.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 9B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51691.6			ft (msl)
Coordinates	E 53842.3	Screen Zone Elevation		159.0 - 149.0
Latitude	33.227944° N	Top of Casing Elevation		315.1
Longitude	81.625455° W	Casing Material		PVC

Parameter	Units	03/05/88	05/29/88	09/10/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.4	194.2	193.9	192.6
pH	pH	9.5	9.2	9.0	9.2
Conductivity	µmhos/cm	130	142	131	142
Alkalinity	mg/L	62	69	58	62
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	1.8	-	2.5	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.018	-	-	-
Calcium	mg/L	18.8	-	-	-
Chromium	mg/L	0.007	-	-	-
Fluoride	mg/L	0.11	-	-	-
Iron	mg/L	0.014	-	0.027	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	2.33	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	6.64	-	-	-
Total Phosphates	mg/L	0.020	-	-	-
Zinc	mg/L	0.016	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-38
GROUNDWATER MONITORING RESULTS FROM THE CHEMICAL, METALS, PESTICIDES PITS WELLS, CONT'D.

Well: CMP 10, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51390.4		ft (msl)
Coordinates	E 54006.5	Screen Zone Elevation	218.8 - 188.8
Latitude	33.227545° N	Top of Casing Elevation	310.9
Longitude	81.624439° W	Casing Material	PVC

Parameter	Units	03/05/88	05/29/88	09/10/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.6	219.4	218.6	217.5
pH	pH	5.0	4.8	4.2	5.0
Conductivity	µmhos/cm	195	22	19	22
Alkalinity	*mg/L*	*2*	*1*	*1*	*0*
Gross Alpha	pCi/L	1.1	-	1.2	-
Nonvolatile Beta	pCi/L	2.2	-	1.1	-
Total Radium	pCi/L	0.6	-	0.7	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.012	-	-	-
Calcium	mg/L	0.832	-	-	-
Chromium	*mg/L*	*<0.004*	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.016	-	0.058	-
Lead	mg/L	0.012	-	0.030	-
Manganese	mg/L	0.009	-	0.007	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	0.712	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.73	-	-	-
Total Phosphates	mg/L	<0.020	-	-	-
Zinc	*mg/L*	*0.019*	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: CMP 11, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51481.3		ft (msl)
Coordinates	E 53640.6	Screen Zone Elevation	215.2 - 185.2
Latitude	33.227149° N	Top of Casing Elevation	310.5
Longitude	81.625578° W	Casing Material	PVC

Parameter	Units	03/05/88	05/30/88	09/08/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.4	210.8	209.9	209.2
pH	pH	5.3	5.0	4.9	5.1
Conductivity	µmhos/cm	55	47	27	27
Alkalinity	*mg/L*	*3*	*1*	*5*	*1*
Gross Alpha	pCi/L	5.5	-	4.3	-
Nonvolatile Beta	pCi/L	7.4	-	4.0	-
Total Radium	pCi/L	2.6	-	1.7	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.034	-	-	-
Calcium	mg/L	5.04	-	-	-
Chromium	*mg/L*	<0.004	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.020	-	0.032	-
Lead	mg/L	0.045	-	0.009	-
Manganese	mg/L	0.015	-	0.006	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	1.00	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.00	-	-	-
Total Phosphates	mg/L	0.020	-	-	-
Zinc	*mg/L*	0.049	-	-	-
Sulfate	mg/L	10.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: CMP 10B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51380.7		ft (msl)
Coordinates	E 54005.9	Screen Zone Elevation	147.4 - 137.4
Latitude	33.227523° N	Top of Casing Elevation	310.8
Longitude	81.624422° W	Casing Material	PVC

Parameter	Units	03/05/88	05/29/88	09/10/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.7	194.4	194.2	192.8
pH	pH	7.6	7.6	7.3	7.7
Conductivity	µmhos/cm	185	196	189	206
Alkalinity	*mg/L*	91	114	72	90
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	1.1	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.031	-	-	-
Calcium	mg/L	35.2	-	-	-
Chromium	mg/L	<0.004	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.058	-	0.092	-
Lead	*mg/L*	*<0.006*	-	<0.006	-
Manganese	mg/L	0.003	-	<0.002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	1.06	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.71	-	-	-
Total Phosphates	mg/L	0.050	-	-	-
Zinc	mg/L	0.007	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: CMP 11B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51456.6		ft (msl)
Coordinates	E 53661.9	Screen Zone Elevation	149.7 - 139.7
Latitude	33.227129° N	Top of Casing Elevation	310.2
Longitude	81.625474° W	Casing Material	PVC

Parameter	Units	03/05/88	05/29/88	09/07/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.6	194.4	193.9	192.7
pH	pH	7.8	7.9	7.3	7.7
Conductivity	µmhos/cm	190	200	187	194
Alkalinity	mg/L	91	100	78	90
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	1.8	-
Total Radium	*pCi/L*	*0.6*	-	<1.0	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.032	-	-	-
Calcium	mg/L	34.1	-	-	-
Chromium	mg/L	<0.004	-	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	<0.004	-	0.074	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.002	-	<0.002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	*mg/L*	1.53	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.95	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Zinc	mg/L	0.004	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-38
GROUNDWATER MONITORING RESULTS FROM THE CHEMICAL, METALS, PESTICIDES PITS WELLS, CONT'D.

Well: CMP 12, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51956.4		ft (msl)
Coordinates	E 53518.9	Screen Zone Elevation	223.6 - 193.6
Latitude	33.228002° N	Top of Casing Elevation	282.9
Longitude	81.626821° W	Casing Material	PVC

Parameter	Units	03/04/88	05/30/88	09/08/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.6	210	209.3	209.2
pH	pH	5.4	5.0	4.7	5.0
Conductivity	µmhos/cm	19	20	19	18
Alkalinity	mg/L	2	1	1	0
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.3	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.007	-	-	-
Calcium	mg/L	1.29	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.015	-	0.029	-
Lead	mg/L	0.038	-	< 0.006	-
Manganese	mg/L	0.009	-	0.006	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	0.525	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.33	-	-	-
Total Phosphates	mg/L	0.170	-	-	-
Zinc	mg/L	0.196	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.006	-	0.006	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	0.002	-
Trichloroethylene	mg/L	0.002	-	0.004	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 12B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51943.3		ft (msl)
Coordinates	E 53517.7	Screen Zone Elevation	158.0 - 148.0
Latitude	33.227971° N	Top of Casing Elevation	283.9
Longitude	81.626798° W	Casing Material	PVC

Parameter	Units	03/04/88	05/29/88	09/07/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.2	193.9	193.4	192.4
pH	pH	7.7	7.8	7.4	7.7
Conductivity	µmhos/cm	185	197	181	190
Alkalinity	mg/L	86	103	77	85
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.029	-	-	-
Calcium	mg/L	34.5	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.009	-	0.017	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	0.874	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.84	-	-	-
Total Phosphates	mg/L	0.300	-	-	-
Zinc	mg/L	0.043	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.020	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 12A, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51949.2		ft (msl)
Coordinates	E 53524.6	Screen Zone Elevation	32.1 - 22.1
Latitude	33.227995° N	Top of Casing Elevation	284.1
Longitude	81.626792° W	Casing Material	PVC

Parameter	Units	03/04/88	05/29/88	09/07/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	180.4	180.1	179.1	177.8
pH	pH	7.0	6.8	6.7	6.7
Conductivity	µmhos/cm	180	193	173	185
Alkalinity	mg/L	75	70	68	66
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.4	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.035	-	-	-
Calcium	mg/L	31.0	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.166	-	0.220	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.112	-	0.097	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	1.51	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.33	-	-	-
Total Phosphates	mg/L	0.300	-	-	-
Zinc	mg/L	0.011	-	-	-
Sulfate	mg/L	9.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 13, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51862.0		ft (msl)
Coordinates	E 53945.5	Screen Zone Elevation	212.7 - 182.7
Latitude	33.228489° N	Top of Casing Elevation	289.2
Longitude	81.625514° W	Casing Material	PVC

Parameter	Units	03/05/88	05/30/88	09/08/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.4	206.9	206.1	206.1
pH	pH	5.8	6.3	6.2	6.3
Conductivity	µmhos/cm	68	73	70	61
Alkalinity	mg/L	29	32	19	29
Gross Alpha	pCi/L	5.9	-	3.0	-
Nonvolatile Beta	pCi/L	6.5	-	2.8	-
Total Radium	pCi/L	1.7	-	0.3	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.021	-	-	-
Calcium	mg/L	9.52	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.005	-	0.015	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.014	-	0.010	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.85	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Zinc	mg/L	0.096	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	0.020	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.011	-	0.013	-
Trichloroethylene	mg/L	0.007	-	0.006	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-38
GROUNDWATER MONITORING RESULTS FROM THE CHEMICAL, METALS, PESTICIDES PITS WELLS, CONT'D.

Well: CMP 13B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51855.5		ft (msl)
Coordinates	E 53937.8	Screen Zone Elevation	144.2 - 134.2
Latitude	33.228462° N	Top of Casing Elevation	289.1
Longitude	81.625522° W	Casing Material	PVC

Parameter	Units	03/04/88	05/29/88	09/07/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.2	193.9	193.5	192.3
pH	pH	7.9	8.2	7.8	8.0
Conductivity	µmhos/cm	185	201	181	192
Alkalinity	mg/L	88	93	79	88
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	1.5	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.035	-	-	-
Calcium	mg/L	32.8	-	-	-
Chromium	mg/L	0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.006	-	0.028	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	0.003	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	1.47	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.04	-	-	-
Total Phosphates	mg/L	0.040	-	-	-
Zinc	mg/L	0.003	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.010	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 14C, Chemicals, Metals, Pesticides Pits

SRP Grid	N 52371.7		ft (msl)
Coordinates	E 52579.6	Screen Zone Elevation	215.1 - 185.1
Latitude	33.227389° N	Top of Casing Elevation	264.1
Longitude	81.630099° W	Casing Material	PVC

Parameter	Units	03/06/88	05/25/88	08/20/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.1	212.7	212.2	211.8
pH	pH	4.9	5.0	6.4	4.7
Conductivity	µmhos/cm	16	16	16	19
Alkalinity	mg/L	0	1	12	0
Gross Alpha	pCi/L	1.4	-	1.2	-
Nonvolatile Beta	pCi/L	1.7	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	0.3	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	< 0.004	-	-	-
Calcium	mg/L	0.425	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.005	-	0.081	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.005	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.33	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Zinc	mg/L	0.008	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.006	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 14B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 52376.4		ft (msl)
Coordinates	E 52587.3	Screen Zone Elevation	140.0 - 130.0
Latitude	33.227412° N	Top of Casing Elevation	264.5
Longitude	81.630088° W	Casing Material	PVC

Parameter	Units	03/06/88	05/25/88	08/20/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.1	193.9	193.2	193.3
pH	pH	7.8	7.8	9.3	7.8
Conductivity	µmhos/cm	165	187	165	164
Alkalinity	mg/L	74	77	65	78
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.018	-	-	-
Calcium	mg/L	31.4	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.006	-	0.084	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	0.653	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.58	-	-	-
Total Phosphates	mg/L	0.060	-	-	-
Zinc	mg/L	0.011	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 15A, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51357.2		ft (msl)
Coordinates	E 52896.8	Screen Zone Elevation	24.2 - 14.2
Latitude	33.225662° N	Top of Casing Elevation	276.5
Longitude	81.627295° W	Casing Material	PVC

Parameter	Units	03/04/88	05/29/88	09/07/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	178.8	178.8	177.7	176.7
pH	pH	6.6	6.2	6.2	6.1
Conductivity	µmhos/cm	110	116	105	106
Alkalinity	mg/L	29	40	30	26
Gross Alpha	pCi/L	< 3.0	-	0.7	-
Nonvolatile Beta	pCi/L	5.8	-	6.0	-
Total Radium	pCi/L	< 1.0	-	0.4	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.019	-	-	-
Calcium	mg/L	10.7	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	0.34	-	-	-
Iron	mg/L	0.183	-	0.174	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.036	-	0.028	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	5.82	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	4.02	-	-	-
Total Phosphates	mg/L	0.480	-	-	-
Zinc	mg/L	0.010	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-38
GROUNDWATER MONITORING RESULTS FROM THE CHEMICAL, METALS, PESTICIDES PITS WELLS, CONT'D.

Well: CMP 15B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51349.5			ft (msl)
Coordinates	E 52904.7	Screen Zone Elevation		155.1 - 145.1
Latitude	33.225658° N	Top of Casing Elevation		276.4
Longitude	81.627260° W	Casing Material		PVC

Parameter	Units	03/05/88	05/30/88	09/08/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203	202.2	201.4	201
pH	pH	8.6	8.8	6.9	8.7
Conductivity	µmhos/cm	89	94	108	101
Alkalinity	mg/L	40	34	37	47
Gross Alpha	pCi/L	1.6	-	1.1	-
Nonvolatile Beta	pCi/L	9.6	-	2.8	-
Total Radium	pCi/L	< 1.0	-	0.4	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.044	-	-	-
Calcium	mg/L	10.6	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.034	-	0.055	-
Lead	mg/L	< 0.005	-	0.014	-
Manganese	mg/L	0.005	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	5.41	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	3.76	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Zinc	mg/L	0.026	-	-	-
Sulfate	mg/L	9.0	-	-	-
Tot. Org. Carbon	mg/L	6.50	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 15C, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51361.4			ft (msl)
Coordinates	E 52907.8	Screen Zone Elevation		250.6 - 220.6
Latitude	33.225689° N	Top of Casing Elevation		277.0
Longitude	81.627274° W	Casing Material		PVC

Parameter	Units	03/05/88	05/30/88	09/08/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.9	-	-	-
pH	pH	6.0	4.9	5.0	4.9
Conductivity	µmhos/cm	14	15	16	17
Alkalinity	mg/L	1	1	5	0
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.005	-	-	-
Calcium	mg/L	0.207	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.026	-	0.008	-
Lead	mg/L	< 0.006	-	0.007	-
Manganese	mg/L	0.007	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.38	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Zinc	mg/L	0.012	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.044	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: CMP 16B, Chemicals, Metals, Pesticides Pits

SRP Grid	N 51576.7			ft (msl)
Coordinates	E 53649.9	Screen Zone Elevation		151.7 - 141.7
Latitude	33.227702° N	Top of Casing Elevation		317.7
Longitude	81.625212° W	Casing Material		PVC

Parameter	Units	03/06/88	05/29/88	09/10/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.1	194.2	194	192.6
pH	pH	7.7	7.7	7.5	7.8
Conductivity	µmhos/cm	171	199	189	197
Alkalinity	mg/L	93	90	90	90
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	1.9	-	1.2	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.034	-	-	-
Calcium	mg/L	35.7	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.011	-	0.015	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.003	-	< 0.002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	1.09	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	1.93	-	-	-
Total Phosphates	mg/L	0.050	-	-	-
Zinc	mg/L	0.011	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Other Analyses
(Pest/Herb* Analytes: Table 5-51)

CMP 8 03/06/88
Pest/Herb* analyses detected the following: None

CMP 8A 03/06/88
Pest/Herb* analyses detected the following: None

CMP 8B 03/06/88
Pest/Herb* analyses detected the following: None

CMP 9B 03/05/88
Pest/Herb* analyses detected the following: None

CMP 10 03/05/88
Pest/Herb* analyses detected the following: None

CMP 10B 03/05/88
Pest/Herb* analyses detected the following: None

CMP 11 03/05/88
Pest/Herb* analyses detected the following: None

CMP 11B 03/05/88
Pest/Herb* analyses detected the following: None

CMP 12 03/04/88
Pest/Herb* analyses detected the following: None

CMP 12A 03/04/88
Pest/Herb* analyses detected the following: None

CMP 12B 03/04/88
Pest/Herb* analyses detected the following: None

CMP 13 03/05/88
Pest/Herb* analyses detected the following: None

CMP 13B 03/04/88
Pest/Herb* analyses detected the following: None

CMP 14B 03/06/88
Pest/Herb* analyses detected the following: None

CMP 14C 03/06/88
Pest/Herb* analyses detected the following: None

CMP 15A 03/04/88
Pest/Herb* analyses detected the following: None

CMP 15B 03/05/88
Pest/Herb* analyses detected the following: None

CMP 15C 03/05/88
Pest/Herb* analyses detected the following: None

CMP 16B 03/06/88
Pest/Herb* analyses detected the following: None

TABLE 5-39
GROUNDWATER MONITORING RESULTS FROM THE ROAD A CHEMICAL BASIN WELLS

Well: BRD 1, Road A Chemical Basin

SRP Grid	N 55860.5			ft (msl)
Coordinates	E 29277.7	Screen Zone Elevation		178.9 - 148.9
Latitude	33.197085° N	Top of Casing Elevation		205.8
Longitude	81.698178° W	Casing Material		PVC

Parameter	Units	02/10/88	05/21/88	09/03/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	166.8	166.3	165.4	165.1
pH	pH	5.1	5.4	4.6	4.7
Conductivity	µmhos/cm	28	29	27	28
Alkalinity	mg/L	1	2	1	0
Gross Alpha	pCi/L	3.0	-	2.5	-
Nonvolatile Beta	pCi/L	1.9	-	2.9	-
Total Radium	pCi/L	1.2	-	0.6	-
Lead	mg/L	0.016	-	0.009	-
Manganese	mg/L	0.358	-	0.017	-
Sodium	mg/L	2.51	-	1.99	-
Nitrate (as N)	mg/L	1.54	-	1.50	-

Well: BRD 2, Road A Chemical Basin

SRP Grid	N 56093.3			ft (msl)
Coordinates	E 29357.1	Screen Zone Elevation		178.5 - 148.5
Latitude	33.197729° N	Top of Casing Elevation		207.3
Longitude	81.698422° W	Casing Material		PVC

Parameter	Units	02/10/88	05/21/88	09/03/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	169.3	168.8	170.2	169.3
pH	pH	5.7	5.8	5.0	5.2
Conductivity	µmhos/cm	26	29	23	29
Alkalinity	mg/L	3	3	3	3
Gross Alpha	pCi/L	< 3.0	-	0.9	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.4	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Lead	mg/L	0.029	-	0.034	-
Manganese	mg/L	0.006	-	0.006	-
Sodium	mg/L	2.25	-	1.48	-
Nitrate (as N)	mg/L	1.38	-	0.99	-

Well: BRD 3, Road A Chemical Basin

SRP Grid	N 55918.7			ft (msl)
Coordinates	E 29538.9	Screen Zone Elevation		188.5 - 158.5
Latitude	33.197640° N	Top of Casing Elevation		220.4
Longitude	81.697604° W	Casing Material		PVC

Parameter	Units	02/11/88	05/22/88	09/04/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	6.0	5.9	5.6	-
Conductivity	µmhos/cm	34	32	34	-
Alkalinity	mg/L	5	8	7	-
Gross Alpha	pCi/L	6.3	-	2.3	-
Nonvolatile Beta	pCi/L	4.2	-	2.1	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Lead	mg/L	0.135	-	0.134	-
Manganese	mg/L	0.020	-	0.017	-
Sodium	mg/L	1.91	-	1.50	-
Nitrate (as N)	mg/L	1.72	-	1.45	-

Well: BRD 4, Road A Chemical Basin

SRP Grid	N 56060.4			ft (msl)
Coordinates	E 29219.2	Screen Zone Elevation		159.1 - 129.1
Latitude	33.197431° N	Top of Casing Elevation		197.9
Longitude	81.698720° W	Casing Material		PVC

Parameter	Units	02/11/88	05/21/88	09/03/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	165.9	165.5	164.3	164.1
pH	pH	5.0	5.1	4.9	4.7
Conductivity	µmhos/cm	23	26	24	24
Alkalinity	mg/L	0	1	1	0
Gross Alpha	pCi/L	2.0	-	0.6	-
Nonvolatile Beta	pCi/L	< 2.0	-	0.9	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.004	-	0.004	-
Sodium	mg/L	1.93	-	1.53	-
Nitrate (as N)	mg/L	1.31	-	1.23	-

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS

Well: LFW 6, Sanitary Landfill

SRP Grid	N 84537.8			ft (msl)
Coordinates	E 45241.2	Screen Zone Elevation		160.0 - 140.0
Latitude	33.286553° N	Top of Casing Elevation		171.7
Longitude	81.711886° W	Casing Material		Steel

Parameter	Units	02/02/88	05/12/88	08/10/88	10/24/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	152.7	152.5	151.7	151.6
pH	pH	6.0	6.3	6.2	6.3
Conductivity	µmhos/cm	200	220	240	234
Alkalinity	mg/L	88	103	97	94
Gross Alpha	pCi/L	2.1	-	3.4	-
Nonvolatile Beta	pCi/L	7.8	-	3.2	-
Total Radium	pCi/L	1.8	-	0.9	-
Tritium	pCi/mL	6.80	-	7.20	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.006	-	0.005	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	2.68	-	-	-
Chloride	mg/L	5.2	-	7.5	-
Chromium	mg/L	-	< 0.004	0.006	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	0.21	-
Iron	mg/L	28.4	-	35.3	-
Lead	mg/L	0.012	-	0.010	-
Magnesium	mg/L	4.69	-	5.25	-
Manganese	mg/L	0.018	-	0.024	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.013	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	5.72	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.032	-
Nitrate (as N)	mg/L	< 0.05	-	0.06	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	0.019	-
Tot. Org. Carbon	mg/L	2.00	-	2.50	-
Tot. Org. Halogens	mg/L	0.136	-	0.006	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 8, Sanitary Landfill

SRP Grid	N 84032.6			ft (msl)
Coordinates	E 45415.3	Screen Zone Elevation		158.8 - 138.8
Latitude	33.285720° N	Top of Casing Elevation		170.5
Longitude	81.710445° W	Casing Material		Steel

Parameter	Units	02/02/88	05/15/88	08/10/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	149.1	149	148.1	148.1
pH	pH	6.8	6.9	6.6	6.7
Conductivity	µmhos/cm	500	475	461	434
Alkalinity	mg/L	209	171	184	167
Gross Alpha	pCi/L	9.4	3.0	5.4	-
Nonvolatile Beta	pCi/L	16.0	10.9	11.8	-
Total Radium	pCi/L	6.1	-	2.0	-
Tritium	pCi/mL	27.0	50.5	15.4	-
Arsenic	mg/L	0.010	-	0.011	-
Barium	mg/L	< 0.004	-	0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	8.19	-	-	-
Chloride	mg/L	37.9	-	23.6	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	0.25	-
Iron	mg/L	63.2	-	61.8	-
Lead	mg/L	0.025	-	0.023	-
Magnesium	mg/L	14.0	-	19.0	-
Manganese	mg/L	0.040	-	0.045	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.016	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	28.4	-	-	-
Total Phosphates	mg/L	-	-	0.040	-
Zinc	mg/L	-	-	0.018	-
Nitrate (as N)	mg/L	< 0.05	-	< 0.05	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	0.033	-	0.014	-
Tot. Org. Carbon	mg/L	8.00	-	9.10	-
Tot. Org. Halogens	mg/L	0.606	-	0.487	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	0.006	-
Tetrachloroethylene	mg/L	< 0.010	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 7, Sanitary Landfill

SRP Grid	N 84310.3			ft (msl)
Coordinates	E 45318.9	Screen Zone Elevation		159.3 - 139.3
Latitude	33.286177° N	Top of Casing Elevation		171.4
Longitude	81.711239° W	Casing Material		Steel

Parameter	Units	02/02/88	05/12/88	08/10/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	151.2	151	150.1	150
pH	pH	6.7	6.6	6.4	6.5
Conductivity	µmhos/cm	660	675	496	752
Alkalinity	mg/L	298	330	217	293
Gross Alpha	pCi/L	20.2	-	8.5	-
Nonvolatile Beta	pCi/L	25.0	-	13.1	-
Total Radium	pCi/L	7.7	-	2.4	-
Tritium	pCi/mL	11.1	-	8.69	-
Arsenic	mg/L	0.015	-	0.013	-
Barium	mg/L	0.026	-	0.021	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	16.3	-	-	-
Chloride	mg/L	46.1	-	27.5	-
Chromium	mg/L	-	< 0.004	0.006	-
Copper	mg/L	-	-	0.005	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	0.28	-
Iron	mg/L	63.4	-	42.6	-
Lead	mg/L	0.029	-	0.011	-
Magnesium	mg/L	20.8	-	15.9	-
Manganese	mg/L	0.035	-	0.012	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.010	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	34.2	-	-	-
Total Phosphates	mg/L	-	-	0.020	-
Zinc	mg/L	-	-	0.029	-
Nitrate (as N)	mg/L	< 0.05	-	< 0.05	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	0.028	-	< 0.005	-
Tot. Org. Carbon	mg/L	10.6	-	10.2	-
Tot. Org. Halogens	mg/L	0.520	-	0.019	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 10A, Sanitary Landfill

SRP Grid	N 84369.6			ft (msl)
Coordinates	E 45935.6	Screen Zone Elevation		158.5 - 128.5
Latitude	33.287315° N	Top of Casing Elevation		175.5
Longitude	81.709731° W	Casing Material		PVC

Parameter	Units	02/02/88	05/12/88	08/14/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	150.6	150.6	149.7	150.5
pH	pH	5.1	5.0	5.0	4.7
Conductivity	µmhos/cm	19	21	20	22
Alkalinity	mg/L	1	0	0	0
Gross Alpha	pCi/L	5.1	-	5.1	-
Nonvolatile Beta	pCi/L	5.0	-	4.6	-
Total Radium	pCi/L	1.3	-	1.2	-
Tritium	pCi/mL	5.10	-	2.71	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	< 0.004	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.405	-	-	-
Chloride	mg/L	1.6	-	2.6	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.057	-	0.083	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.467	-	0.538	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	0.96	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.024	-
Nitrate (as N)	mg/L	0.34	-	0.27	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	1.30	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.054	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

Well: LFW 16, Sanitary Landfill

				ft (msl)
SRP Grid	N 84748.9			
Coordinates	E 45852.6	Screen Zone Elevation		160.9 - 130.9
Latitude	33.288018° N	Top of Casing Elevation		178.8
Longitude	81.710687° W	Casing Material		PVC

Parameter	Units	03/01/88	05/12/88	08/14/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153.4	153.5	152.6	152.3
pH	pH	4.9	5.0	4.8	4.6
Conductivity	µmhos/cm	25	24	24	37
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	3.2	-	2.7	-
Nonvolatile Beta	pCi/L	5.3	-	3.9	-
Total Radium	pCi/L	1.4	-	1.1	-
Tritium	*pCi/mL*	*5.20*	-	*2.31*	-
Arsenic	mg/L	<0.002	-	<0.002	-
Barium	mg/L	0.006	-	0.004	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	0.633	-	-	-
Chloride	mg/L	2.2	-	2.7	-
Chromium	*mg/L*	-	*<0.004*	*<0.004*	-
Copper	mg/L	-	-	0.013	-
Cyanide	mg/L	-	-	<0.005	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.028	-	0.165	-
Lead	mg/L	0.007	-	0.014	-
Magnesium	mg/L	0.763	-	0.645	-
Manganese	mg/L	<0.002	-	0.003	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	-	-	0.033	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	1.05	-	-	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	-	-	0.016	-
Nitrate (as N)	mg/L	0.93	-	0.53	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	<0.005	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.021	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.005	-
Chloroform	mg/L	<0.001	-	<0.005	-
Tetrachloroethylene	mg/L	0.002	-	<0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.005	-
1,1,1-TCE	*mg/L*	*0.013*	-	*<0.005*	-

Well: LFW 17, Sanitary Landfill

				ft (msl)
SRP Grid	N 84602.8			
Coordinates	E 45607.3	Screen Zone Elevation		158.1 - 128.1
Latitude	33.287295° N	Top of Casing Elevation		177.8
Longitude	81.711048° W	Casing Material		PVC

Parameter	Units	02/02/88	05/12/88	08/10/88	10/24/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153.3	153.1	152.1	152
pH	pH	6.6	6.7	6.2	6.6
Conductivity	µmhos/cm	300	270	240	259
Alkalinity	mg/L	107	72	76	91
Gross Alpha	pCi/L	3.1	-	2.8	-
Nonvolatile Beta	pCi/L	4.6	-	1.7	-
Total Radium	pCi/L	1.1	-	<1.0	-
Tritium	pCi/mL	4.40	-	*3.74*	-
Arsenic	mg/L	0.005	-	0.008	-
Barium	mg/L	0.006	-	<0.004	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	6.65	-	-	-
Chloride	mg/L	15.8	-	14.4	-
Chromium	*mg/L*	-	*<0.004*	*0.028*	-
Copper	mg/L	-	-	<0.004	-
Cyanide	mg/L	-	-	<0.005	-
Fluoride	mg/L	-	-	0.26	-
Iron	mg/L	44.6	-	34.8	-
Lead	mg/L	0.017	-	<0.006	-
Magnesium	*mg/L*	*5.81*	-	*4.72*	-
Manganese	mg/L	0.029	-	0.017	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	-	-	0.007	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	11.7	-	-	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	-	-	0.032	-
Nitrate (as N)	mg/L	0.11	-	0.08	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	0.065	-	0.007	-
Tot. Org. Carbon	mg/L	23.0	-	3.60	-
Tot. Org. Halogens	mg/L	0.207	-	0.371	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.005	-
Chloroform	mg/L	<0.001	-	<0.005	-
Tetrachloroethylene	mg/L	<0.001	-	<0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.005	-
1,1,1-TCE	mg/L	<0.001	-	*<0.005*	-

Well: LFW 18, Sanitary Landfill

				ft (msl)
SRP Grid	N 84577.3			
Coordinates	E 45459.4	Screen Zone Elevation		159.6 - 129.6
Latitude	33.286997° N	Top of Casing Elevation		175.4
Longitude	81.711388° W	Casing Material		PVC

Parameter	Units	02/03/88	05/12/88	08/10/88	10/24/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153.5	153.4	152.5	152.4
pH	pH	*6.6*	*6.7*	*6.7*	6.7
Conductivity	µmhos/cm	280	300	255	235
Alkalinity	mg/L	112	100	91	86
Gross Alpha	pCi/L	3.7	-	3.0	-
Nonvolatile Beta	pCi/L	7.9	-	4.3	-
Total Radium	pCi/L	3.5	-	1.2	-
Tritium	*pCi/mL*	*49.5*	-	*59.8*	-
Arsenic	mg/L	0.007	-	<0.002	-
Barium	mg/L	0.006	-	0.005	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	7.71	-	-	-
Chloride	mg/L	21.2	-	16.7	-
Chromium	*mg/L*	-	*<0.004*	0.004	-
Copper	mg/L	-	-	<0.004	-
Cyanide	mg/L	-	-	<0.005	-
Fluoride	mg/L	-	-	0.31	-
Iron	mg/L	32.0	-	33.5	-
Lead	mg/L	0.013	-	0.006	-
Magnesium	mg/L	5.70	-	6.94	-
Manganese	mg/L	0.053	-	0.036	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	-	-	0.007	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	14.9	-	-	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	-	-	0.030	-
Nitrate (as N)	mg/L	0.16	-	0.14	-
Sulfate	mg/L	5.0	-	<5.0	-
Phenols	mg/L	0.027	-	0.013	-
Tot. Org. Carbon	mg/L	*12.7*	-	*4.70*	-
Tot. Org. Halogens	mg/L	0.183	-	0.242	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.005	-
Chloroform	mg/L	<0.001	-	<0.005	-
Tetrachloroethylene	mg/L	<0.001	-	<0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.005	-
1,1,1-TCE	mg/L	<0.001	-	<0.005	-

Well: LFW 19, Sanitary Landfill

				ft (msl)
SRP Grid	N 84817.2			
Coordinates	E 45135.4	Screen Zone Elevation		159.7 - 129.7
Latitude	33.286998° N	Top of Casing Elevation		176.7
Longitude	81.712707° W	Casing Material		PVC

Parameter	Units	02/03/88	05/15/88	08/09/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	154.4	154.3	154.3	153.3
pH	pH	*4.8*	*5.2*	*5.1*	*5.1*
Conductivity	µmhos/cm	16	20	18	23
Alkalinity	mg/L	1	0	2	1
Gross Alpha	pCi/L	3.7	-	5.6	-
Nonvolatile Beta	pCi/L	7.2	-	12.5	-
Total Radium	pCi/L	2.1	-	1.2	-
Tritium	*pCi/mL*	*3.60*	-	*3.03*	-
Arsenic	mg/L	<0.002	-	<0.002	-
Barium	mg/L	<0.004	-	<0.004	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	0.378	-	-	-
Chloride	mg/L	<1.0	-	2.2	-
Chromium	mg/L	-	<0.004	0.010	-
Copper	mg/L	-	-	0.005	-
Cyanide	mg/L	-	-	<0.005	-
Fluoride	mg/L	-	-	0.13	-
Iron	mg/L	0.034	-	0.076	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	0.409	-	0.420	-
Manganese	mg/L	<0.002	-	<0.002	-
Mercury	mg/L	<0.0002	-	0.0003	-
Nickel	mg/L	-	-	0.004	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	1.06	-	-	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	-	-	0.031	-
Nitrate (as N)	mg/L	0.30	-	0.32	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	<0.005	-	<0.005	-
Tot. Org. Carbon	*mg/L*	*<1.000*	-	*1.00*	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.005	-
Chloroform	mg/L	<0.001	-	<0.005	-
Tetrachloroethylene	mg/L	<0.001	-	<0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.005	-
1,1,1-TCE	mg/L	<0.001	-	<0.005	-

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

Well: LFW 20, Sanitary Landfill

SRP Grid Coordinates	N 85262.6 E 45582.9	Screen Zone Elevation	ft (msl)	164.5 - 134.5
Latitude	33.288714° N	Top of Casing Elevation		180.9
Longitude	81.712395° W	Casing Material		PVC

Parameter	Units	03/06/88	05/14/88	08/13/88	10/24/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	157.1	157.2	155.3	155.9
pH	pH	5.1	4.9	5.0	5.0
Conductivity	µmhos/cm	13	17	14	24
Alkalinity	mg/L	1	0	2	1
Gross Alpha	pCi/L	1.7	-	2.6	-
Nonvolatile Beta	pCi/L	3.6	-	3.9	-
Total Radium	pCi/L	< 1.0	-	0.8	-
Tritium	pCi/mL	5.20	-	2.31	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.005	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.317	-	-	-
Chloride	mg/L	1.1	-	2.2	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	0.007	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.034	-	0.067	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.303	-	0.267	-
Manganese	mg/L	< 0.002	-	0.003	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.008	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.09	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.009	-
Nitrate (as N)	mg/L	0.46	-	0.26	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.015	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 21, Sanitary Landfill

SRP Grid Coordinates	N 84178.3 E 46149.4	Screen Zone Elevation	ft (msl)	159.5 - 129.5
Latitude	33.287241° N	Top of Casing Elevation		176.2
Longitude	81.708796° W	Casing Material		PVC

Parameter	Units	02/03/88	05/12/88	08/14/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	149.5	149.8	148.8	148.6
pH	pH	5.1	5.0	4.8	4.7
Conductivity	µmhos/cm	38	80	96	113
Alkalinity	mg/L	2	0	0	0
Gross Alpha	pCi/L	3.8	-	6.0	-
Nonvolatile Beta	pCi/L	19.0	-	4.6	-
Total Radium	pCi/L	< 1.0	-	2.0	-
Tritium	pCi/mL	99.0	-	75.3	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.004	-	0.008	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.373	-	-	-
Chloride	mg/L	7.8	-	20.1	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.138	-	0.530	-
Lead	mg/L	< 0.006	-	0.016	-
Magnesium	mg/L	0.333	-	0.893	-
Manganese	mg/L	< 0.002	-	0.005	-
Mercury	mg/L	0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.005	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	5.90	-	-	-
Total Phosphates	mg/L	-	-	0.030	-
Zinc	mg/L	-	-	0.035	-
Nitrate (as N)	mg/L	0.70	-	< 0.05	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	4.80	-
Tot. Org. Halogens	mg/L	1.68	-	0.005	-
Carbon Tetrachloride	mg/L	< 0.002	-	< 0.005	-
Chloroform	mg/L	< 0.002	-	< 0.005	-
Tetrachloroethylene	mg/L	1.62	-	2.03	-
Trichloroethylene	mg/L	0.017	-	0.097	-
1,1,1-TCE	mg/L	0.018	-	0.048	-

Well: LFW 22, Sanitary Landfill

SRP Grid Coordinates	N 84223.6 E 46325.2	Screen Zone Elevation	ft (msl)	152.1 - 122.1
Latitude	33.287628° N	Top of Casing Elevation		174.2
Longitude	81.708421° W	Casing Material		PVC

Parameter	Units	02/03/88	05/14/88	08/14/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	149	149.4	148.2	148.2
pH	pH	4.6	5.1	4.9	4.7
Conductivity	µmhos/cm	16	21	18	17
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	2.7	-	1.0	-
Nonvolatile Beta	pCi/L	3.2	-	1.8	-
Total Radium	pCi/L	1.4	-	1.6	-
Tritium	pCi/mL	5.00	-	2.29	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	< 0.004	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.230	-	-	-
Chloride	mg/L	< 1.0	-	2.4	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.023	-	0.020	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.300	-	0.349	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.41	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.008	-
Nitrate (as N)	mg/L	0.30	-	0.31	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.030	-	0.143	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	< 0.005
Chloroform	mg/L	< 0.001	-	< 0.005	< 0.005
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	< 0.005
Trichloroethylene	mg/L	0.001	-	< 0.005	< 0.005
1,1,1-TCE	mg/L	0.005	-	< 0.005	< 0.005

Well: LFW 23, Sanitary Landfill

SRP Grid Coordinates	N 84251.3 E 46456.1	Screen Zone Elevation	ft (msl)	154.8 - 124.8
Latitude	33.287903° N	Top of Casing Elevation		171.8
Longitude	81.708131° W	Casing Material		PVC

Parameter	Units	02/03/88	05/14/88	08/09/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	149.2	149.7	147.3	148.3
pH	pH	4.7	5.0	4.9	4.8
Conductivity	µmhos/cm	18	24	21	24
Alkalinity	mg/L	0	1	2	0
Gross Alpha	pCi/L	2.3	-	2.0	-
Nonvolatile Beta	pCi/L	2.9	-	1.8	-
Total Radium	pCi/L	1.1	-	0.5	-
Tritium	pCi/mL	3.60	-	2.56	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.007	-	0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.370	-	-	-
Chloride	mg/L	1.4	-	2.8	-
Chromium	mg/L	-	< 0.004	0.005	-
Copper	mg/L	-	-	0.009	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	0.14	-
Iron	mg/L	0.253	-	0.099	-
Lead	mg/L	0.021	-	0.013	-
Magnesium	mg/L	0.314	-	0.330	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	0.008	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.91	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.036	-
Nitrate (as N)	mg/L	0.26	-	0.26	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	1.30	-
Tot. Org. Halogens	mg/L	0.016	-	0.011	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.005	-
Tetrachloroethylene	mg/L	0.002	< 0.005	< 0.005	-
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.005	-

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

Well: LFW 24, Sanitary Landfill

SRP Grid	N 84544.2		ft (msl)
Coordinates	E 46520.8	Screen Zone Elevation	154.2 - 124.2
Latitude	33.288656° N	Top of Casing Elevation	171.3
Longitude	81.708530° W	Casing Material	PVC

Parameter	Units	02/13/88	05/14/88	08/16/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	151.4	151.7	150.5	150.3
pH	pH	4.9	4.9	4.6	4.8
Conductivity	µmhos/cm	16	19	16	19
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	4.1	-	3.1	-
Nonvolatile Beta	pCi/L	7.2	-	6.1	-
Total Radium	pCi/L	1.2	-	1.1	-
Tritium	pCi/mL	3.80	-	1.65	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.005	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.310	-	-	-
Chloride	mg/L	1.6	-	1.9	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	0.005	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.016	-	0.087	-
Lead	mg/L	0.006	-	< 0.006	-
Magnesium	mg/L	0.472	-	0.398	-
Manganese	mg/L	0.003	-	0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.15	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.014	-
Nitrate (as N)	mg/L	0.79	-	0.43	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 25, Sanitary Landfill

SRP Grid	N 84967.2		ft (msl)
Coordinates	E 46425.7	Screen Zone Elevation	152.8 - 122.8
Latitude	33.289436° N	Top of Casing Elevation	174.7
Longitude	81.709602° W	Casing Material	PVC

Parameter	Units	02/13/88	05/14/88	08/16/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	153.9	154.2	153	152.8
pH	pH	4.8	4.7	4.8	4.8
Conductivity	µmhos/cm	17	22	18	19
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	6.9	-	3.7	-
Nonvolatile Beta	pCi/L	11.0	-	11.8	-
Total Radium	pCi/L	1.8	-	2.4	-
Tritium	pCi/mL	4.70	-	2.39	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.006	-	0.005	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.440	-	-	-
Chloride	mg/L	1.8	-	2.4	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	0.005	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.015	-	0.036	-
Lead	mg/L	0.006	-	< 0.006	-
Magnesium	mg/L	0.480	-	0.495	-
Manganese	mg/L	0.003	-	0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.35	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.015	-
Nitrate (as N)	mg/L	0.82	-	0.54	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 26, Sanitary Landfill

SRP Grid	N 85654.6		ft (msl)
Coordinates	E 45633.8	Screen Zone Elevation	164.9 - 143.9
Latitude	33.289663° N	Top of Casing Elevation	186.9
Longitude	81.713023° W	Casing Material	PVC

Parameter	Units	02/13/88	05/15/88	08/13/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	159.4	159.4	158.6	158.3
pH	pH	4.7	5.1	5.6	5.4
Conductivity	µmhos/cm	13	15	14	14
Alkalinity	mg/L	0	0	2	1
Gross Alpha	pCi/L	2.8	-	3.3	-
Nonvolatile Beta	pCi/L	3.8	-	3.3	-
Total Radium	pCi/L	0.8	-	1.0	-
Tritium	pCi/mL	5.40	-	2.22	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.004	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.490	-	-	-
Chloride	mg/L	1.6	-	2.2	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.006	-	0.100	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.255	-	0.251	-
Manganese	mg/L	0.004	-	0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.16	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.015	-
Nitrate (as N)	mg/L	0.56	-	0.20	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.008	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

Well: LFW 27, Sanitary Landfill

SRP Grid	N 85839.1		ft (msl)
Coordinates	E 45596.1	Screen Zone Elevation	163.6 - 142.6
Latitude	33.290010° N	Top of Casing Elevation	189.6
Longitude	81.713481° W	Casing Material	PVC

Parameter	Units	02/13/88	05/15/88	08/13/88	12/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	160.3	160.1	159.3	158.9
pH	pH	4.9	5.4	5.2	5.1
Conductivity	µmhos/cm	16	16	16	15
Alkalinity	mg/L	0	1	1	0
Gross Alpha	pCi/L	1.7	-	1.7	-
Nonvolatile Beta	pCi/L	2.4	-	1.6	-
Total Radium	pCi/L	0.9	-	0.7	-
Tritium	pCi/mL	5.00	-	2.48	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.008	-	< 0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.817	-	-	-
Chloride	mg/L	1.6	-	2.2	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Copper	mg/L	-	-	< 0.004	-
Cyanide	mg/L	-	-	< 0.005	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.019	-	0.040	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.412	-	0.308	-
Manganese	mg/L	0.008	-	0.003	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	-	-	< 0.004	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	1.25	-	-	-
Total Phosphates	mg/L	-	-	< 0.020	-
Zinc	mg/L	-	-	0.011	-
Nitrate (as N)	mg/L	0.79	-	0.24	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.007	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.005	-
Chloroform	mg/L	< 0.001	-	< 0.005	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.005	-
Trichloroethylene	mg/L	< 0.001	-	< 0.005	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.005	-

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

Well: LFW 28, Sanitary Landfill

SRP Grid Coordinates	N 86079.6 E 45555.3	Screen Zone Elevation	ft (msl) 161.8 - 140.8
Latitude	33.290475° N	Top of Casing Elevation	192.8
Longitude	81.714056° W	Casing Material	PVC

Parameter	Units	02/03/88	05/15/88	08/16/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	161.7	161.4	160.6	160.4
pH	pH	5.6	5.5	4.9	5.5
Conductivity	µmhos/cm	24	29	25	23
Alkalinity	mg/L	4	4	3	1
Gross Alpha	pCi/L	<3.0	-	3.5	-
Nonvolatile Beta	pCi/L	<2.0	-	3.4	-
Total Radium	pCi/L	1.2	-	1.7	-
Tritium	pCi/mL	3.40	-	3.01	-
Arsenic	mg/L	<0.002	-	<0.002	-
Barium	mg/L	0.012	-	0.010	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	2.22	-	-	-
Chloride	mg/L	1.3	-	2.2	-
Chromium	mg/L		<0.004	<0.004	-
Copper	mg/L	-	-	<0.004	-
Cyanide	mg/L	-	-	<0.005	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.044	-	0.036	-
Lead	mg/L	<0.006	-	<0.006	-
Magnesium	mg/L	0.357	-	0.395	-
Manganese	mg/L	<0.002	-	0.006	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	-	-	<0.004	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	1.35	-	-	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	-	-	0.011	-
Nitrate (as N)	mg/L	0.57	-	0.53	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	<0.005	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.005	-
Chloroform	mg/L	<0.001	-	<0.005	-
Tetrachloroethylene	mg/L	<0.001	-	<0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.005	-
1,1,1-TCE	mg/L	<0.001	-	<0.005	-

Other Analyses
(GCMS Scan and Pest Herb* Analytes: Table 5-91)

LFW 6 02/02/88

Pest/Herb* analyses detected the following: None

LFW 6 08/10/88

Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	0.014 mg/L
Methylene Chloride	0.005 mg/L
Cyanide	<0.005 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
GCMS Scan detected the following:	
trans-1,2-Dichloroethene	0.103 mg/L
1,1-Dichloroethane	0.009 mg/L

LFW 7 02/02/88

Pest/Herb* analyses detected the following: None

LFW 7 08/10/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Methylene Chloride	0.032 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	0.011 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
GCMS Scan detected the following:	
Benzene	0.006 mg/L
Ethylbenzene	0.027 mg/L
Toluene	0.012 mg/L
trans-1,2-Dichloroethene	0.754 mg/L
1,1-Dichloroethane	0.035 mg/L
1,2-Dichloroethane	0.006 mg/L

LFW 8 02/02/88

Pest/Herb* analyses detected the following: None

LFW 8 08/10/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Methylene Chloride	0.023 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	0.025 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following:	
Benzene	0.005 mg/L
Ethylbenzene	0.024 mg/L
Toluene	0.006 mg/L
trans-1,2-Dichloroethene	0.623 mg/L
1,1-Dichloroethane	0.07 mg/L
1,2-Dichloroethane	0.006 mg/L
1,2-Dichloropropane	0.029 mg/L

LFW 10A 02/02/88

Pest/Herb* analyses detected the following: None

LFW 10A 08/14/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following:	
Trichlorofluoromethane	0.073 mg/L

LFW 16 03/01/88

Pest/Herb* analyses detected the following: None

LFW 16 08/14/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate	0.012 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following:	
Trichlorofluoromethane	0.025 mg/L

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

LFW 17 02/02/88
Pest/Herb* analyses detected the following: None

LFW 17 08/10/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Methylene Chloride	0.049 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
GCMS Scan detected the following:	
Ethylbenzene	0.009 mg/L
trans-1,2-Dichloroethene	0.291 mg/L
1,1-Dichloroethane	0.056 mg/L
1,2-Dichloroethane	0.003 mg/L

LFW 18 02/03/88
Pest/Herb* analyses detected the following: None

LFW 18 08/10/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
GCMS Scan detected the following:	
Ethylbenzene	0.01 mg/L
Toluene	0.016 mg/L
trans-1,2-Dichloroethene	0.154 mg/L
1,1-Dichloroethane	0.018 mg/L

LFW 19 02/03/88
Pest/Herb* analyses detected the following: None

LFW 19 08/09/88

alpha-Endosulfan	<0.00004 mg/L
alpha-Endosulfan	<0.00004 mg/L
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
Aldrin	<0.00002 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Methylene Chloride	0.014 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Pentachlorophenol	<0.05 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Total Organic Nitrogen	<5 mg/L

GCMS Scan detected the following: None

LFW 20 03/06/88
Pest/Herb* analyses detected the following: None

LFW 20 08/13/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 21 02/03/88
Pest/Herb* analyses detected the following: None

LFW 21 08/14/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	0.049 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following:	
Benzene	0.007 mg/L
Ethylbenzene	0.056 mg/L
Toluene	0.034 mg/L
1,1-Dichloroethylene	0.019 mg/L
1,1-Dichloroethane	0.139 mg/L
1,2-Dichloroethane	0.003 mg/L

LFW 22 02/03/88
Pest/Herb* analyses detected the following: None

LFW 22 08/14/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following:	
Trichlorofluoromethane	0.045 mg/L

LFW 22 10/26/88
GCMS Scan detected the following:
Trichlorofluoromethane 0.017 mg/L

LFW 23 02/03/88
Pest/Herb* analyses detected the following: None

LFW 23 05/14/88
GCMS Scan detected the following: None

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

LFW 23	08/09/88	
alpha-Endosulfan		<0.00004 mg/L
alpha-Endosulfan		<0.00004 mg/L
Aldrin		<0.00002 mg/L
Aldrin		<0.00002 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Methylene Chloride		0.009 mg/L
Methylene Chloride		0.022 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
Diethyl Phthalate		<0.01 mg/L
Diethyl Phthalate		<0.01 mg/L
Diethyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Pentachlorophenol		<0.05 mg/L
Pentachlorophenol		<0.05 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Total Organic Nitrogen		<5 mg/L
GCMS Scan detected the following: None		

LFW 24	02/13/88
Pest/Herb* analyses detected the following: None	

LFW 24	08/16/88
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following: None	

LFW 25	02/13/88
Pest/Herb* analyses detected the following: None	

LFW 25	08/16/88
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following: None	

LFW 26	02/13/88
Pest/Herb* analyses detected the following: None	

LFW 26	05/15/88
Pest/Herb* analyses detected the following: None	

LFW 26	08/13/88
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following: None	

LFW 27	02/13/88
Pest/Herb* analyses detected the following: None	

LFW 27	05/15/88
Pest/Herb* analyses detected the following: None	

LFW 27	08/13/88
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following: None	

LFW 27	12/18/88
Pest/Herb* analyses detected the following: None	

LFW 28	02/03/88
Pest/Herb* analyses detected the following: None	

LFW 28	05/15/88
Pest/Herb* analyses detected the following: None	

LFW 28	08/16/88
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L
GCMS Scan detected the following: None	

LFW 28	10/26/88
Pest/Herb* analyses detected the following: None	

LFW 29	02/03/88
Pest/Herb* analyses detected the following: None	

LFW 29	05/15/88
Pest/Herb* analyses detected the following: None	

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

LFW 29 08/16/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 29 10/26/88

Pest/Herb* analyses detected the following: None

LFW 30 02/03/88

Pest/Herb* analyses detected the following: None

LFW 30 05/15/88

Pest/Herb* analyses detected the following: None

LFW 30 08/16/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 30 10/26/88

Pest/Herb* analyses detected the following: None

LFW 31 02/03/88

Pest/Herb* analyses detected the following: None

LFW 31 05/15/88

Pest/Herb* analyses detected the following: None

LFW 31 08/13/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 31 10/26/88

Pest/Herb* analyses detected the following: None

LFW 32 03/06/88

Pest/Herb* analyses detected the following: None

LFW 32 05/15/88

Pest/Herb* analyses detected the following: None

LFW 32 08/13/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 32 10/25/88

Pest/Herb* analyses detected the following: None

LFW 33 02/03/88

Pest/Herb* analyses detected the following: None

LFW 33 05/15/88

Pest/Herb* analyses detected the following: None

LFW 33 08/13/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
Benzene	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 33 10/25/88

Pest/Herb* analyses detected the following: None

LFW 34 02/03/88

Pest/Herb* analyses detected the following: None

LFW 34 05/15/88

Pest/Herb* analyses detected the following: None

LFW 34 08/13/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	0.016 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 34 10/25/88

Pest/Herb* analyses detected the following: None

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

LFW 35	02/13/88	
Pest/Herb* analyses detected the following: None		
LFW 35	05/14/88	
Pest/Herb* analyses detected the following: None		
LFW 35	08/13/88	
alpha-Endosulfan		<0.00004 mg/L
Aldrin		<0.00002 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
Diethyl Phthalate		<0.01 mg/L
Diethyl Phthalate		0.026 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Endrin		<0.0001 mg/L
Heptachlor		<0.00002 mg/L
Lindane		<0.00001 mg/L
Methoxychlor		<0.0005 mg/L
Pentachlorophenol		<0.05 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Toxaphene		<0.001 mg/L
GCMS Scan detected the following: None		
LFW 35	10/25/88	
Pest/Herb* analyses detected the following: None		
LFW 36	02/13/88	
Pest/Herb* analyses detected the following:		
Silvex		0.0007 mg/L
LFW 36	05/14/88	
Pest/Herb* analyses detected the following:		
Silvex		0.0004 mg/L
Silvex		0.0004 mg/L
LFW 36	08/14/88	
alpha-Endosulfan		<0.0002 mg/L
Aldrin		<0.0001 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.0001 mg/L
Diethyl Phthalate		0.015 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Endrin		<0.0001 mg/L
Heptachlor		<0.00002 mg/L
Lindane		<0.00001 mg/L
Methoxychlor		<0.0005 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Toxaphene		<0.001 mg/L
GCMS Scan detected the following:		
Benzene		0.008 mg/L
trans-1,2-Dichloroethene		0.647 mg/L
1,1-Dichloroethane		0.178 mg/L
1,2-Dichloroethane		0.013 mg/L
LFW 36	12/18/88	
Pest/Herb* analyses detected the following:		
Silvex		0.0001 mg/L
LFW 37	02/13/88	
Pest/Herb* analyses detected the following:		
Silvex		0.0004 mg/L
LFW 37	05/14/88	
Pest/Herb* analyses detected the following: None		
LFW 37	08/14/88	
alpha-Endosulfan		<0.00004 mg/L
Aldrin		<0.00002 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Methylene Chloride		0.031 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
Diethyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Endrin		<0.0001 mg/L
Heptachlor		<0.00002 mg/L
Lindane		<0.00001 mg/L
Methoxychlor		<0.0005 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Toxaphene		<0.001 mg/L
GCMS Scan detected the following:		
Dibromochloromethane		0.048 mg/L
trans-1,2-Dichloroethene		0.104 mg/L
1,2-Dichloroethane		0.004 mg/L
LFW 37	10/26/88	
Pest/Herb* analyses detected the following: None		
LFW 38	02/13/88	
Pest/Herb* analyses detected the following: None		
LFW 38	05/14/88	
Pest/Herb* analyses detected the following: None		
LFW 38	08/14/88	
alpha-Endosulfan		<0.00004 mg/L
Aldrin		<0.00002 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Methylene Chloride		0.012 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
Diethyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Endrin		<0.0001 mg/L
Heptachlor		<0.00002 mg/L
Lindane		<0.00001 mg/L
Methoxychlor		<0.0005 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Toxaphene		<0.001 mg/L
GCMS Scan detected the following:		
Trichlorofluoromethane		0.026 mg/L
trans-1,2-Dichloroethene		0.041 mg/L
LFW 38	10/26/88	
Pest/Herb* analyses detected the following: None		
LFW 39	02/21/88	
Pest/Herb* analyses detected the following: None		
LFW 39	05/14/88	
Pest/Herb* analyses detected the following: None		
LFW 39	08/14/88	
alpha-Endosulfan		<0.00004 mg/L
Aldrin		<0.00002 mg/L
beta-Benzenehexachloride		<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
delta-Benzenehexachloride		<0.00002 mg/L
Diethyl Phthalate		<0.01 mg/L
Di-n-octyl Phthalate		<0.01 mg/L
Endrin		<0.0001 mg/L
Heptachlor		<0.00002 mg/L
Lindane		<0.00001 mg/L
Methoxychlor		<0.0005 mg/L
Pentachlorophenol		<0.05 mg/L
Total Organic Nitrogen		<5 mg/L
Toxaphene		<0.001 mg/L
GCMS Scan detected the following:		
Trichlorofluoromethane		0.008 mg/L

TABLE 5-40
GROUNDWATER MONITORING RESULTS FROM THE SANITARY LANDFILL WELLS, CONT'D.

LFW 39 10/26/88
Pest/Herb* analyses detected the following: None

LFW 40 02/21/88
Pest/Herb* analyses detected the following: None

LFW 40 05/14/88
Pest/Herb* analyses detected the following: None

LFW 40 08/09/88

alpha-Endosulfan	<0.00004 mg/L
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	0.015 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Methylene Chloride	0.012 mg/L
Methylene Chloride	0.02 mg/L
Methylene Chloride	0.014 mg/L
Cyanide	<0.005 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Pentachlorophenol	<0.05 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Total Organic Nitrogen	<5 mg/L

GCMS Scan detected the following: None

LFW 40 10/26/88
Pest/Herb* analyses detected the following: None

LFW 41 02/21/88
Pest/Herb* analyses detected the following: None

LFW 41 05/14/88
Pest/Herb* analyses detected the following: None

LFW 41 08/14/88

alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 41 10/26/88
Pest/Herb* analyses detected the following: None

LFW 42 02/03/88
Pest/Herb* analyses detected the following: None

LFW 42 05/14/88
Pest/Herb* analyses detected the following: None

LFW 42 08/14/88

alpha-Endosulfan	<0.00004 mg/L
alpha-Endosulfan	<0.00004 mg/L
Aldrin	<0.00002 mg/L
Aldrin	<0.00002 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
beta-Benzenehexachloride	<0.00001 mg/L
Bis(2-Ethylhexyl) Phthalate	<0.01 mg/L
Cyanide	<0.005 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
delta-Benzenehexachloride	<0.00002 mg/L
Diethyl Phthalate	<0.01 mg/L
Di-n-octyl Phthalate	<0.01 mg/L
Endrin	<0.0001 mg/L
Heptachlor	<0.00002 mg/L
Lindane	<0.00001 mg/L
Methoxychlor	<0.0005 mg/L
Pentachlorophenol	<0.05 mg/L
Total Organic Nitrogen	<5 mg/L
Toxaphene	<0.001 mg/L

GCMS Scan detected the following: None

LFW 42 12/18/88
Pest/Herb* analyses detected the following: None

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS

Well: FSS 1D, F-Area Sludge Land Application Site

SRP Grid	N 75257.56		ft (msl)
Coordinates	E 53897.62	Screen Zone Elevation	229.9 - 209.9
Latitude	33.280161° N	Top of Casing Elevation	266.04
Longitude	81.671063° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	221.7
pH	pH	12.0
Conductivity	µmhos/cm	1900
Alkalinity	mg/L	232
TDS	mg/L	484
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	0.7
Tritium	pCi/mL	4.86
Arsenic	mg/L	< 0.002
Barium	mg/L	0.014
Cadmium	mg/L	< 0.002
Calcium	mg/L	97.6
Chloride	mg/L	2.1
Chromium	mg/L	< 0.004
Copper	mg/L	0.023
Fluoride	mg/L	0.20
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.020
Manganese	mg/L	< 0.002
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	9.66
Selenium	mg/L	< 0.002
Silica	mg/L	4.32
Silver	mg/L	< 0.0020
Sodium	mg/L	11.1
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	0.44
Sulfate	mg/L	8.7
Phenols	mg/L	0.015
Tot. Org. Carbon	mg/L	2.10
Tot. Org. Halogens	mg/L	0.003

Well: FSS 3D, F-Area Sludge Land Application Site

SRP Grid	N 74960.53		ft (msl)
Coordinates	E 53548.02	Screen Zone Elevation	225.8 - 205.8
Latitude	33.278934° N	Top of Casing Elevation	258.18
Longitude	81.671406° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	218.8
pH	pH	5.6
Conductivity	µmhos/cm	62
Alkalinity	mg/L	5
TDS	mg/L	60
Gross Alpha	pCi/L	3.2
Nonvolatile Beta	pCi/L	1.7
Total Radium	pCi/L	0.8
Tritium	pCi/mL	128
Arsenic	mg/L	< 0.002
Barium	mg/L	0.014
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.18
Chloride	mg/L	3.3
Chromium	mg/L	< 0.004
Copper	mg/L	0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.057
Lead	mg/L	0.018
Magnesium	mg/L	0.883
Manganese	mg/L	0.076
Mercury	mg/L	0.0003
Nickel	mg/L	0.009
Potassium	mg/L	0.786
Selenium	mg/L	< 0.002
Silica	mg/L	7.94
Silver	mg/L	< 0.0020
Sodium	mg/L	5.01
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.06
Sulfate	mg/L	7.4
Phenols	mg/L	0.010
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.015

Well: FSS 2D, F-Area Sludge Land Application Site

SRP Grid	N 75103.51		ft (msl)
Coordinates	E 53918.93	Screen Zone Elevation	224.4 - 204.4
Latitude	33.279855° N	Top of Casing Elevation	261.62
Longitude	81.670707° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	221.1
pH	pH	5.8
Conductivity	µmhos/cm	56
Alkalinity	mg/L	8
TDS	mg/L	58
Gross Alpha	pCi/L	2.3
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	0.6
Tritium	pCi/mL	487
Arsenic	mg/L	< 0.002
Barium	mg/L	0.012
Cadmium	mg/L	< 0.002
Calcium	mg/L	3.61
Chloride	mg/L	2.4
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.213
Lead	mg/L	< 0.006
Magnesium	mg/L	0.300
Manganese	mg/L	0.229
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.010
Potassium	mg/L	0.602
Selenium	mg/L	< 0.002
Silica	mg/L	9.66
Silver	mg/L	< 0.0020
Sodium	mg/L	5.85
Total Phosphates	mg/L	0.040
Nitrate (as N)	mg/L	0.70
Sulfate	mg/L	6.2
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: FSS 4D, F-Area Sludge Land Application Site

SRP Grid	N 75537.82		ft (msl)
Coordinates	E 52876.12	Screen Zone Elevation	222.6 - 202.6
Latitude	33.279114° N	Top of Casing Elevation	291.76
Longitude	81.674297° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	216.1
pH	pH	5.0
Conductivity	µmhos/cm	53
Alkalinity	mg/L	2
TDS	mg/L	60
Gross Alpha	pCi/L	1.2
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	5.83
Arsenic	mg/L	< 0.002
Barium	mg/L	0.010
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.67
Chloride	mg/L	4.0
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.024
Lead	mg/L	< 0.006
Magnesium	mg/L	0.881
Manganese	mg/L	0.028
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.004
Potassium	mg/L	0.556
Selenium	mg/L	< 0.002
Silica	mg/L	8.82
Silver	mg/L	< 0.0020
Sodium	mg/L	4.46
Total Phosphates	mg/L	0.040
Nitrate (as N)	mg/L	3.33
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

FSS 1D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		
FSS 2D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		
FSS 3D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		
FSS 4D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		

Well: HSS 1D, H-Area Sludge Land Application Site

SRP Grid	N 67610.32		ft (msl)
Coordinates	E 64875.59	Screen Zone Elevation	256.5 - 236.5
Latitude	33.280828° N	Top of Casing Elevation	310.07
Longitude	81.627829° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	262.6
pH	pH	5.4
Conductivity	µmhos/cm	23
Alkalinity	mg/L	2
TDS	mg/L	54
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	1.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.039
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.577
Chloride	mg/L	1.9
Chromium	mg/L	< 0.004
Copper	mg/L	0.011
Fluoride	mg/L	< 0.10
Iron	mg/L	0.024
Lead	mg/L	0.015
Magnesium	mg/L	0.463
Manganese	mg/L	0.008
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	1.81
Selenium	mg/L	< 0.002
Silica	mg/L	10.2
Silver	mg/L	< 0.0020
Sodium	mg/L	1.48
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.00
Sulfate	mg/L	< 5.0
Phenols	mg/L	0.006
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.016

Well: HSS 2D, H-Area Sludge Land Application Site

SRP Grid	N 67355.86		ft (msl)
Coordinates	E 64785.90	Screen Zone Elevation	254.5 - 234.5
Latitude	33.280445° N	Top of Casing Elevation	304.40
Longitude	81.627045° W	Casing Material	PVC

Parameter	Units	12/07/88
Sampling Method	NA	Pump
Water Elevation	ft	261.8
pH	pH	5.6
Conductivity	µmhos/cm	27
Alkalinity	mg/L	3
TDS	mg/L	70
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	1.6
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	0.41
Arsenic	mg/L	< 0.002
Barium	mg/L	0.021
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.06
Chloride	mg/L	2.5
Chromium	mg/L	< 0.004
Copper	mg/L	0.006
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.331
Manganese	mg/L	0.050
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	1.24
Selenium	mg/L	< 0.002
Silica	mg/L	22.7
Silver	mg/L	< 0.0020
Sodium	mg/L	2.31
Total Phosphates	mg/L	0.020
Nitrate (as N)	mg/L	0.84
Sulfate	mg/L	< 5.0
Phenols	mg/L	0.009
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: HSS 3D, H-Area Sludge Land Application Site

SRP Grid	N 68257.45		ft (msl)
Coordinates	E 64709.49	Screen Zone Elevation	282.6 - 262.6
Latitude	33.282315° N	Top of Casing Elevation	309.80
Longitude	81.628996° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	272.5
pH	pH	5.7
Conductivity	µmhos/cm	26
Alkalinity	mg/L	13
TDS	mg/L	40
Gross Alpha	pCi/L	4.6
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	4.4
Tritium	pCi/mL	5.08
Arsenic	mg/L	< 0.002
Barium	mg/L	0.012
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.613
Chloride	mg/L	2.4
Chromium	mg/L	< 0.004
Copper	mg/L	0.011
Fluoride	mg/L	< 0.10
Iron	mg/L	0.038
Lead	mg/L	0.042
Magnesium	mg/L	0.178
Manganese	mg/L	0.015
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.004
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	8.30
Silver	mg/L	< 0.0020
Sodium	mg/L	1.99
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.05
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

HSS 1D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		
HSS 2D	12/07/88	
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		
HSS 3D	12/08/88	
Nitrite (as N)		< 0.05 mg/L
Pest/Herb* analyses detected the following: None		

Well: KSS 1D, K-Area Sludge Land Application Site

SRP Grid Coordinates	N 47758.95 E 40220.19	Screen Zone Elevation	ft (msl) 177.5 - 157.4
Latitude	33.197025° N	Top of Casing Elevation	229.75
Longitude	81.653671° W	Casing Material	PVC

Parameter	Units	12/07/88
Sampling Method	NA	Pump
Water Elevation	ft	170.9
pH	pH	6.5
Conductivity	µmhos/cm	110
Alkalinity	mg/L	28
TDS	mg/L	88
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	2.23
Arsenic	mg/L	< 0.002
Barium	mg/L	0.011
Cadmium	mg/L	< 0.002
Calcium	mg/L	11.8
Chloride	mg/L	3.3
Chromium	mg/L	< 0.004
Copper	mg/L	0.011
Fluoride	mg/L	1.00
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.432
Manganese	mg/L	0.091
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	0.636
Selenium	mg/L	< 0.002
Silica	mg/L	7.32
Silver	mg/L	< 0.0020
Sodium	mg/L	4.65
Total Phosphates	mg/L	0.090
Nitrate (as N)	mg/L	0.55
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: KSS 2D, K-Area Sludge Land Application Site

SRP Grid Coordinates	N 46803.86 E 40438.30	Screen Zone Elevation	ft (msl) 164.7 - 144.6
Latitude	33.195268° N	Top of Casing Elevation	192.25
Longitude	81.651244° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	160.6
pH	pH	6.3
Conductivity	µmhos/cm	64
Alkalinity	mg/L	8
TDS	mg/L	86
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	1.4
Tritium	pCi/mL	0.37
Arsenic	mg/L	< 0.002
Barium	mg/L	< 0.004
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.714
Chloride	mg/L	2.8
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.119
Manganese	mg/L	0.029
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.005
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	10.8
Silver	mg/L	< 0.0020
Sodium	mg/L	12.3
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.20
Sulfate	mg/L	10.2
Phenols	mg/L	0.028
Tot. Org. Carbon	mg/L	3.60
Tot. Org. Halogens	mg/L	0.010

Well: KSS 3D, K-Area Sludge Land Application Site

SRP Grid Coordinates	N 46644.43 E 40749.34	Screen Zone Elevation	ft (msl) 159.3 - 139.3
Latitude	33.195423° N	Top of Casing Elevation	185.17
Longitude	81.650117° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	160
pH	pH	6.7
Conductivity	µmhos/cm	98
Alkalinity	mg/L	40
TDS	mg/L	82
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	2.77
Arsenic	mg/L	< 0.002
Barium	mg/L	0.010
Cadmium	mg/L	< 0.002
Calcium	mg/L	17.2
Chloride	mg/L	2.7
Chromium	mg/L	< 0.004
Copper	mg/L	0.009
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.419
Manganese	mg/L	0.045
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	7.47
Silver	mg/L	< 0.0020
Sodium	mg/L	1.97
Total Phosphates	mg/L	0.020
Nitrate (as N)	mg/L	0.39
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

KSS 1D 12/07/88
Nitrite (as N) < 0.05 mg/L
Pest/Herb* analyses detected the following: None

KSS 2D 12/08/88
Nitrite (as N) < 0.05 mg/L
Pest/Herb* analyses detected the following: None

KSS 3D 12/08/88
Nitrite (as N) < 0.05 mg/L
Pest/Herb* analyses detected the following: None

Well: PSS 1D, P-Area Sludge Land Application Site

SRP Grid	N 37298.40		ft (msl)
Coordinates	E 75773.29	Screen Zone Elevation	202.1 - 182.1
Latitude	33.231837° N	Top of Casing Elevation	219.64
Longitude	81.539797° W	Casing Material	PVC

Parameter	Units	12/18/88
Sampling Method	NA	Pump
Water Elevation	ft	197.5
pH	pH	6.3
Conductivity	µmhos/cm	51
Alkalinity	mg/L	12
TDS	mg/L	14
Gross Alpha	pCi/L	0.6
Nonvolatile Beta	pCi/L	1.4
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.006
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.66
Chloride	mg/L	2.8
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.560
Lead	mg/L	< 0.006
Magnesium	mg/L	0.331
Manganese	mg/L	0.034
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.005
Potassium	mg/L	0.544
Selenium	mg/L	< 0.002
Silica	mg/L	8.02
Silver	mg/L	< 0.0020
Sodium	mg/L	4.46
Total Phosphates	mg/L	0.030
Nitrate (as N)	mg/L	0.27
Sulfate	mg/L	< 5.0
Phenols	mg/L	0.009
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.010

Well: PSS 2D, P-Area Sludge Land Application Site

SRP Grid	N 36037.86		ft (msl)
Coordinates	E 75910.12	Screen Zone Elevation	197.1 - 177.1
Latitude	33.229270° N	Top of Casing Elevation	228.73
Longitude	81.536993° W	Casing Material	PVC

Parameter	Units	12/07/88
Sampling Method	NA	Pump
Water Elevation	ft	192.7
pH	pH	5.7
Conductivity	µmhos/cm	20
Alkalinity	mg/L	2
TDS	mg/L	42
Gross Alpha	pCi/L	1.6
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	0.86
Arsenic	mg/L	< 0.002
Barium	mg/L	0.005
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.04
Chloride	mg/L	1.8
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.272
Manganese	mg/L	0.019
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	0.511
Selenium	mg/L	< 0.002
Silica	mg/L	5.67
Silver	mg/L	< 0.0020
Sodium	mg/L	1.67
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	0.62
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: PSS 3D, P-Area Sludge Land Application Site

SRP Grid	N 35974.06		ft (msl)
Coordinates	E 76138.72	Screen Zone Elevation	198.5 - 178.5
Latitude	33.229501° N	Top of Casing Elevation	233.96
Longitude	81.536268° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	-
pH	pH	7.1
Conductivity	µmhos/cm	87
Alkalinity	mg/L	10
TDS	mg/L	88
Gross Alpha	pCi/L	2.6
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	2.3
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.006
Cadmium	mg/L	< 0.002
Calcium	mg/L	4.64
Chloride	mg/L	3.7
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.037
Lead	mg/L	< 0.006
Magnesium	mg/L	0.257
Manganese	mg/L	0.074
Mercury	mg/L	< 0.0002
Nickel	mg/L	0.010
Potassium	mg/L	0.661
Selenium	mg/L	< 0.002
Silica	mg/L	10.8
Silver	mg/L	< 0.0020
Sodium	mg/L	2.67
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	0.13
Sulfate	mg/L	< 5.0
Phenols	mg/L	0.016
Tot. Org. Carbon	mg/L	2.20
Tot. Org. Halogens	mg/L	0.033

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

PSS 1D 12/18/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

PSS 2D 12/07/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

PSS 3D 12/08/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

Well: SSS 1, Sewage Sludge Application Sites

SRP Grid	N 54219.46		feet (msl)
Coordinates	E 28968.81	Screen Zone Elevation	-
Latitude	33.192952° N	Top of Casing Elevation	194.88
Longitude	81.695805° W	Casing Material	-

Parameter	Units	12/12/88
Sampling Method	NA	Bail
Water Elevation	feet	154.4
pH	pH	4.7
Conductivity	µmhos/cm	16
Alkalinity	mg/L	1
TDS	mg/L	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Total Radium	pCi/L	-
Tritium	pCi/mL	
Arsenic	mg/L	-
Barium	mg/L	-
Cadmium	mg/L	-
Calcium	mg/L	-
Chloride	mg/L	-
Chromium	mg/L	-
Copper	mg/L	-
Fluoride	mg/L	-
Iron	mg/L	-
Lead	mg/L	-
Magnesium	mg/L	-
Manganese	mg/L	-
Mercury	mg/L	-
Nickel	mg/L	-
Potassium	mg/L	-
Selenium	mg/L	-
Silica	mg/L	-
Silver	mg/L	-
Sodium	mg/L	-
Total Phosphates	mg/L	-
Nitrate (as N)	mg/L	-
Sulfate	mg/L	-
Phenols	mg/L	-
Tot. Org. Carbon	mg/L	-
Tot. Org. Halogens	mg/L	-

Well: SSS 2, Sewage Sludge Application Sites

SRP Grid	N 53846.67		ft (msl)
Coordinates	E 27934.99	Screen Zone Elevation	-
Latitude	33.190440° N	Top of Casing Elevation	165.13
Longitude	81.697800° W	Casing Material	-

Parameter	Units	12/12/88
Sampling Method	NA	Bail
Water Elevation	ft	148.9
pH	pH	5.0
Conductivity	µmhos/cm	25
Alkalinity	mg/L	0
TDS	mg/L	20
Gross Alpha	pCi/L	1.7
Nonvolatile Beta	pCi/L	2.6
Total Radium	pCi/L	1.3
Tritium	pCi/mL	2.92
Arsenic	mg/L	<0.002
Barium	mg/L	0.009
Cadmium	mg/L	<0.002
Calcium	mg/L	1.89
Chloride	mg/L	4.1
Chromium	mg/L	<0.004
Copper	mg/L	0.010
Fluoride	mg/L	<0.10
Iron	mg/L	0.024
Lead	mg/L	<0.006
Magnesium	mg/L	0.635
Manganese	mg/L	0.004
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	1.27
Selenium	mg/L	<0.002
Silica	mg/L	7.45
Silver	mg/L	<0.0020
Sodium	mg/L	2.04
Total Phosphates	mg/L	0.120
Nitrate (as N)	mg/L	1.05
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	3.10
Tot. Org. Halogens	mg/L	0.013

Well: SSS 3, Sewage Sludge Application Sites

SRP Grid	N 53128.94		ft (msl)
Coordinates	E 28216.57	Screen Zone Elevation	-
Latitude	33.189312° N	Top of Casing Elevation	163.55
Longitude	81.695666° W	Casing Material	-

Parameter	Units	12/12/88
Sampling Method	NA	Bail
Water Elevation	ft	148.9
pH	pH	4.6
Conductivity	µmhos/cm	13
Alkalinity	mg/L	0
TDS	mg/L	-
Gross Alpha	pCi/L	3.3
Nonvolatile Beta	pCi/L	4.6
Total Radium	pCi/L	-
Tritium	pCi/mL	3.10
Arsenic	mg/L	-
Barium	mg/L	-
Cadmium	mg/L	-
Calcium	mg/L	-
Chloride	mg/L	-
Chromium	mg/L	-
Copper	mg/L	-
Fluoride	mg/L	-
Iron	mg/L	-
Lead	mg/L	-
Magnesium	mg/L	-
Manganese	mg/L	-
Mercury	mg/L	-
Nickel	mg/L	-
Potassium	mg/L	-
Selenium	mg/L	-
Silica	mg/L	-
Silver	mg/L	-
Sodium	mg/L	-
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.20
Sulfate	mg/L	-
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	<0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Well: SSS 5, Sewage Sludge Application Sites

				ft (msl)
SRP Grid Coordinates	N 82790.69 E 38596.69	Screen Zone Elevation		-
Latitude	33.271842° N	Top of Casing Elevation		240.00
Longitude	81.725978° W	Casing Material		-

Parameter	Units	12/10/88
Sampling Method	NA	Bail
Water Elevation	ft	188.1
pH	pH	4.9
Conductivity	µmhos/cm	24
Alkalinity	mg/L	1
TDS	mg/L	62
Gross Alpha	pCi/L	5.0
Nonvolatile Beta	pCi/L	5.6
Total Radium	pCi/L	5.7
Tritium	pCi/mL	2.33
Arsenic	mg/L	<0.002
Barium	mg/L	0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	1.73
Chloride	mg/L	3.2
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.627
Manganese	mg/L	0.007
Mercury	mg/L	0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	0.766
Selenium	mg/L	<0.002
Silica	mg/L	7.27
Silver	mg/L	<0.0020
Sodium	mg/L	2.39
Total Phosphates	mg/L	0.910
Nitrate (as N)	mg/L	1.74
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	3.60
Tot. Org. Halogens	mg/L	<0.005

Well: SSS 8, Sewage Sludge Application Sites

				ft (msl)
SRP Grid Coordinates	N 84276.65 E 43897.69	Screen Zone Elevation		-
Latitude	33.283782° N	Top of Casing Elevation		201.17
Longitude	81.714915° W	Casing Material		-

Parameter	Units	12/10/88
Sampling Method	NA	Bail
Water Elevation	ft	151.2
pH	pH	4.5
Conductivity	µmhos/cm	16
Alkalinity	mg/L	0
TDS	mg/L	54
Gross Alpha	pCi/L	14.3
Nonvolatile Beta	pCi/L	8.2
Total Radium	pCi/L	20.0
Tritium	pCi/mL	3.01
Arsenic	mg/L	<0.002
Barium	mg/L	<0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	1.39
Chloride	mg/L	2.2
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.395
Manganese	mg/L	<0.002
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	<0.500
Selenium	mg/L	<0.002
Silica	mg/L	7.28
Silver	mg/L	<0.0020
Sodium	mg/L	0.95
Total Phosphates	mg/L	1.10
Nitrate (as N)	mg/L	1.10
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	1.80
Tot. Org. Halogens	mg/L	0.008

Well: SSS 7, Sewage Sludge Application Sites

				ft (msl)
SRP Grid Coordinates	N 84512.79 E 43285.96	Screen Zone Elevation		-
Latitude	33.283306° N	Top of Casing Elevation		226.57
Longitude	81.716984° W	Casing Material		-

Parameter	Units	12/10/88
Sampling Method	NA	Bail
Water Elevation	ft	161
pH	pH	4.5
Conductivity	µmhos/cm	38
Alkalinity	mg/L	0
TDS	mg/L	84
Gross Alpha	pCi/L	0.9
Nonvolatile Beta	pCi/L	2.3
Total Radium	pCi/L	1.3
Tritium	pCi/mL	1.25
Arsenic	mg/L	<0.002
Barium	mg/L	0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	2.15
Chloride	mg/L	4.8
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.770
Manganese	mg/L	0.003
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	0.873
Selenium	mg/L	<0.002
Silica	mg/L	16.1
Silver	mg/L	<0.0020
Sodium	mg/L	2.72
Total Phosphates	mg/L	0.680
Nitrate (as N)	mg/L	2.60
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	3.50
Tot. Org. Halogens	mg/L	<0.005

Well: SSS 9, Sewage Sludge Application Sites

				ft (msl)
SRP Grid Coordinates	N 84636.44 E 43949.11	Screen Zone Elevation		-
Latitude	33.284662° N	Top of Casing Elevation		203.30
Longitude	81.715479° W	Casing Material		-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	153.3
pH	pH	4.5
Conductivity	µmhos/cm	19
Alkalinity	mg/L	0
TDS	mg/L	48
Gross Alpha	pCi/L	12.4
Nonvolatile Beta	pCi/L	11.6
Total Radium	pCi/L	13.3
Tritium	pCi/mL	2.96
Arsenic	mg/L	<0.002
Barium	mg/L	<0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	0.476
Chloride	mg/L	1.6
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.460
Manganese	mg/L	<0.002
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	2.22
Selenium	mg/L	<0.002
Silica	mg/L	6.42
Silver	mg/L	<0.0020
Sodium	mg/L	13.6
Total Phosphates	mg/L	1.39
Nitrate (as N)	mg/L	0.80
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	1.40
Tot. Org. Halogens	mg/L	<0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Well: SSS 10, Sewage Sludge Application Sites

SRP Grid Coordinates	N 94195.96		ft (msl)
	E 58105.60	Screen Zone Elevation	-
Latitude	33.328909° N	Top of Casing Elevation	311.61
Longitude	81.696788° W	Casing Material	-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	236.8
pH	pH	4.6
Conductivity	µmhos/cm	41
Alkalinity	mg/L	0
TDS	mg/L	54
Gross Alpha	pCi/L	13.8
Nonvolatile Beta	pCi/L	6.2
Total Radium	pCi/L	10.2
Tritium	pCi/mL	1.83
Arsenic	mg/L	< 0.002
Barium	mg/L	0.008
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.29
Chloride	mg/L	6.4
Chromium	mg/L	< 0.004
Copper	mg/L	0.005
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.699
Manganese	mg/L	0.014
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	6.21
Silver	mg/L	< 0.0020
Sodium	mg/L	4.22
Total Phosphates	mg/L	0.790
Nitrate (as N)	mg/L	2.82
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.40
Tot. Org. Halogens	mg/L	0.003

Well: SSS 20, Sewage Sludge Application Sites

SRP Grid Coordinates	N 84490.93		ft (msl)
	E 41469.72	Screen Zone Elevation	-
Latitude	33.280292° N	Top of Casing Elevation	253.03
Longitude	81.721722° W	Casing Material	-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	176.9
pH	pH	4.8
Conductivity	µmhos/cm	19
Alkalinity	mg/L	1
TDS	mg/L	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Total Radium	pCi/L	-
Tritium	pCi/mL	-
Arsenic	mg/L	-
Barium	mg/L	-
Cadmium	mg/L	-
Calcium	mg/L	-
Chloride	mg/L	-
Chromium	mg/L	-
Copper	mg/L	-
Fluoride	mg/L	-
Iron	mg/L	-
Lead	mg/L	-
Magnesium	mg/L	-
Manganese	mg/L	-
Mercury	mg/L	-
Nickel	mg/L	-
Potassium	mg/L	-
Selenium	mg/L	-
Silica	mg/L	-
Silver	mg/L	-
Sodium	mg/L	-
Total Phosphates	mg/L	-
Nitrate (as N)	mg/L	-
Sulfate	mg/L	-
Phenols	mg/L	-
Tot. Org. Carbon	mg/L	-
Tot. Org. Halogens	mg/L	-

Well: SSS 17, Sewage Sludge Application Sites

SRP Grid Coordinates	N 36539.51		ft (msl)
	E 76518.17	Screen Zone Elevation	-
Latitude	33.231371° N	Top of Casing Elevation	222.66
Longitude	81.536364° W	Casing Material	-

Parameter	Units	12/12/88
Sampling Method	NA	Bail
Water Elevation	ft	194.2
pH	pH	4.5
Conductivity	µmhos/cm	15
Alkalinity	mg/L	0
TDS	mg/L	< 5
Gross Alpha	pCi/L	6.0
Nonvolatile Beta	pCi/L	5.7
Total Radium	pCi/L	4.6
Tritium	pCi/mL	0.55
Arsenic	mg/L	< 0.002
Barium	mg/L	0.008
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.402
Chloride	mg/L	2.4
Chromium	mg/L	< 0.004
Copper	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.122
Lead	mg/L	< 0.006
Magnesium	mg/L	0.362
Manganese	mg/L	0.002
Mercury	mg/L	< 0.0002
Nickel	mg/L	< 0.004
Potassium	mg/L	0.989
Selenium	mg/L	< 0.002
Silica	mg/L	5.03
Silver	mg/L	< 0.0020
Sodium	mg/L	0.88
Total Phosphates	mg/L	0.040
Nitrate (as N)	mg/L	0.70
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.00
Tot. Org. Halogens	mg/L	0.017

Well: SSS 21, Sewage Sludge Application Sites

SRP Grid Coordinates	N 86053.03		ft (msl)
	E 40518.40	Screen Zone Elevation	-
Latitude	33.282192° N	Top of Casing Elevation	286.49
Longitude	81.727262° W	Casing Material	-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	190.6
pH	pH	4.8
Conductivity	µmhos/cm	25
Alkalinity	mg/L	1
TDS	mg/L	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Total Radium	pCi/L	-
Tritium	pCi/mL	-
Arsenic	mg/L	-
Barium	mg/L	-
Cadmium	mg/L	-
Calcium	mg/L	-
Chloride	mg/L	-
Chromium	mg/L	-
Copper	mg/L	-
Fluoride	mg/L	-
Iron	mg/L	-
Lead	mg/L	-
Magnesium	mg/L	-
Manganese	mg/L	-
Mercury	mg/L	-
Nickel	mg/L	-
Potassium	mg/L	-
Selenium	mg/L	-
Silica	mg/L	-
Silver	mg/L	-
Sodium	mg/L	-
Total Phosphates	mg/L	-
Nitrate (as N)	mg/L	-
Sulfate	mg/L	-
Phenols	mg/L	-
Tot. Org. Carbon	mg/L	-
Tot. Org. Halogens	mg/L	-

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Well: SSS 22, Sewage Sludge Application Sites

SRP Grid	N 91202.65		ft (msl)
Coordinates	E 66003.77	Screen Zone Elevation	-
Latitude	33.335179° N	Top of Casing Elevation	290.86
Longitude	81.670163° W	Casing Material	-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	238.7
pH	pH	4.8
Conductivity	µmhos/cm	23
Alkalinity	mg/L	1
TDS	mg/L	54
Gross Alpha	pCi/L	1.0
Nonvolatile Beta	pCi/L	<2.0
Total Radium	pCi/L	1.0
Tritium	pCi/mL	1.36
Arsenic	mg/L	<0.002
Barium	mg/L	0.007
Cadmium	mg/L	<0.002
Calcium	mg/L	1.11
Chloride	mg/L	1.7
Chromium	mg/L	<0.004
Copper	mg/L	0.005
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.526
Manganese	mg/L	0.014
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	<0.500
Selenium	mg/L	<0.002
Silica	mg/L	6.08
Silver	mg/L	<0.0020
Sodium	mg/L	1.73
Total Phosphates	mg/L	0.090
Nitrate (as N)	mg/L	2.04
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	2.20
Tot. Org. Halogens	mg/L	0.008

Well: SSS 23, Sewage Sludge Application Sites

SRP Grid	N 93429.02		ft (msl)
Coordinates	E 65994.09	Screen Zone Elevation	-
Latitude	33.340087° N	Top of Casing Elevation	300.99
Longitude	81.674517° W	Casing Material	-

Parameter	Units	12/11/88
Sampling Method	NA	Bail
Water Elevation	ft	247.5
pH	pH	4.8
Conductivity	µmhos/cm	15
Alkalinity	mg/L	1
TDS	mg/L	51
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	<2.0
Total Radium	pCi/L	1.1
Tritium	pCi/mL	0.78
Arsenic	mg/L	<0.002
Barium	mg/L	<0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	0.857
Chloride	mg/L	1.9
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.274
Manganese	mg/L	0.008
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	<0.500
Selenium	mg/L	<0.002
Silica	mg/L	6.97
Silver	mg/L	<0.0020
Sodium	mg/L	1.04
Total Phosphates	mg/L	0.250
Nitrate (as N)	mg/L	0.71
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	1.60
Tot. Org. Halogens	mg/L	0.009

Well: SSS 25, Sewage Sludge Application Sites

SRP Grid	N 34385.57		ft (msl)
Coordinates	E 83709.70	Screen Zone Elevation	-
Latitude	33.238315° N	Top of Casing Elevation	203.22
Longitude	81.513245° W	Casing Material	-

Parameter	Units	12/13/88
Sampling Method	NA	Bail
Water Elevation	ft	195.4
pH	pH	6.2
Conductivity	µmhos/cm	71
Alkalinity	mg/L	27
TDS	mg/L	22
Gross Alpha	pCi/L	4.7
Nonvolatile Beta	pCi/L	5.0
Total Radium	pCi/L	4.7
Tritium	pCi/mL	5.85
Arsenic	mg/L	<0.002
Barium	mg/L	0.050
Cadmium	mg/L	<0.002
Calcium	mg/L	2.28
Chloride	mg/L	7.2
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	0.11
Iron	mg/L	7.04
Lead	mg/L	<0.006
Magnesium	mg/L	1.22
Manganese	mg/L	0.705
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	1.51
Selenium	mg/L	<0.002
Silica	mg/L	1.65
Silver	mg/L	<0.0020
Sodium	mg/L	6.59
Total Phosphates	mg/L	<0.020
Nitrate (as N)	mg/L	0.05
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	1.20
Tot. Org. Halogens	mg/L	0.026

Well: SSS 26, Sewage Sludge Application Sites

SRP Grid	N 34059.24		ft (msl)
Coordinates	E 83755.06	Screen Zone Elevation	-
Latitude	33.237667° N	Top of Casing Elevation	214.56
Longitude	81.512493° W	Casing Material	-

Parameter	Units	12/13/88
Sampling Method	NA	Bail
Water Elevation	ft	192.4
pH	pH	4.7
Conductivity	µmhos/cm	36
Alkalinity	mg/L	1
TDS	mg/L	34
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	1.9
Total Radium	pCi/L	1.4
Tritium	pCi/mL	4.59
Arsenic	mg/L	<0.002
Barium	mg/L	<0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	0.475
Chloride	mg/L	5.4
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	0.049
Lead	mg/L	<0.006
Magnesium	mg/L	0.329
Manganese	mg/L	0.005
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	1.37
Selenium	mg/L	<0.002
Silica	mg/L	4.42
Silver	mg/L	<0.0020
Sodium	mg/L	4.73
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.75
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	<0.005

TABLE 5-41
GROUNDWATER MONITORING RESULTS FROM THE SLUDGE LAND APPLICATION SITES WELLS, CONT'D.

Well: SSS 27, Sewage Sludge Application Sites

SRP Grid	N 33495.82		ft (msl)
Coordinates	E 84747.73	Screen Zone Elevation	-
Latitude	33.238036° N	Top of Casing Elevation	213.81
Longitude	81.508786° W	Casing Material	-

Parameter	Units	12/12/88
Sampling Method	NA	Bail
Water Elevation	ft	172.7
pH	pH	4.4
Conductivity	µmhos/cm	18
Alkalinity	mg/L	0
TDS	mg/L	<5
Gross Alpha	pCi/L	23.7
Nonvolatile Beta	pCi/L	15.4
Total Radium	pCi/L	17.4
Tritium	pCi/mL	<0.70
Arsenic	mg/L	<0.002
Barium	mg/L	0.004
Cadmium	mg/L	<0.002
Calcium	mg/L	0.641
Chloride	mg/L	2.6
Chromium	mg/L	<0.004
Copper	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	0.041
Lead	mg/L	<0.006
Magnesium	mg/L	0.434
Manganese	mg/L	0.003
Mercury	mg/L	<0.0002
Nickel	mg/L	<0.004
Potassium	mg/L	1.40
Selenium	mg/L	<0.002
Silica	mg/L	5.12
Silver	mg/L	<0.0020
Sodium	mg/L	1.50
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.92
Sulfate	mg/L	<5.0
Phenols	mg/l	<0.005
Tot. Org. Carbon	mg/L	1.60
Tot. Org. Halogens	mg/L	[illegible]

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

SSS 2 12/12/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 3 12/12/88
Nitrite (as N) <0.05 mg/L

SSS 5 12/10/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 7 12/10/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 8 12/10/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 9 12/11/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 10 12/11/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 17 12/12/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 22 12/11/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 23 12/11/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 25 12/13/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 26 12/13/88
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

SSS 27 12/12/88
Nitrite (as N) <0.05 mg/L
Nitrite (as N) <0.05 mg/L
Pest/Herb* analyses detected the following: None

TABLE 5-42
GROUNDWATER MONITORING RESULTS FROM THE Z AND ZW WELLS

Well: Z 2, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 74785.3 E 53181.6	Screen Zone Elevation	ft (msl) 214.5 - 214.0
Latitude	33.277948° N	Top of Casing Elevation	257.3
Longitude	81.672031° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	218.2	218.3	217.5	217.3
pH	pH	9.2	6.3	6.2	6.7
Conductivity	µmhos/cm	14	-	66	62
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	19.0	19.3	13.0	14.1

Well: Z 3, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 75086.2 E 51328.3	Screen Zone Elevation	ft (msl) 207.1 - 206.6
Latitude	33.275589° N	Top of Casing Elevation	261.0
Longitude	81.677494° W	Casing Material	Steel

Parameter	Units	03/26/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	212	211.8	211.2	213.4
pH	pH	6.5	6.5	6.9	7.2
Conductivity	µmhos/cm	14	150	64	65
Gross Alpha	pCi/L	32.2	-	-	-
Nonvolatile Beta	pCi/L	321	-	-	-
Tritium	pCi/mL	57.7	41.8	29.7	26.3

Well: Z 8, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 76640.5 E 51584.9	Screen Zone Elevation	ft (msl) 214.1 - 213.6
Latitude	33.279445° N	Top of Casing Elevation	280.0
Longitude	81.679839° W	Casing Material	Steel

Parameter	Units	03/26/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	219	218.5	217.8	217.6
pH	pH	-	7.0	6.8	6.3
Conductivity	µmhos/cm	-	90	90	133
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	19.4	12.0	12.6

Well: Z 9, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 77732.0 E 50570.5	Screen Zone Elevation	ft (msl) 228.4 - 208.4
Latitude	33.280204° N	Top of Casing Elevation	279.5
Longitude	81.684630° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	214.7	214.5	214.6	213.5
pH	pH	4.4	4.2	5.3	6.0
Conductivity	µmhos/cm	24	100	44	38
Gross Alpha	pCi/L	2.7	-	-	-
Nonvolatile Beta	pCi/L	3.1	-	-	-
Tritium	pCi/mL	16.8	14.7	9.20	8.65

Well: Z 11, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 72539.5 E 61750.3	Screen Zone Elevation	ft (msl) 256.6 - 256.1
Latitude	33.286961° N	Top of Casing Elevation	298.3
Longitude	81.645105° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	-	295.8	297.8	296.2
pH	pH	7.1	5.9	7.0	7.3
Conductivity	µmhos/cm	23	-	136	123
Gross Alpha	pCi/L	0.9	-	-	-
Nonvolatile Beta	pCi/L	4.7	-	-	-
Tritium	pCi/mL	15.5	21.4	16.1	59.9

Well: Z 12, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 71198.9 E 61400.9	Screen Zone Elevation	ft (msl) 251.4 - 250.9
Latitude	33.283425° N	Top of Casing Elevation	295.6
Longitude	81.643422° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.8	273.8	274.3	273.8
pH	pH	8.0	7.9	9.0	9.2
Conductivity	µmhos/cm	80	-	52	46
Gross Alpha	pCi/L	0.6	-	-	-
Nonvolatile Beta	pCi/L	3.1	-	-	-
Tritium	pCi/mL	16.0	15.2	11.6	12.5

Well: Z 13, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 70785.8 E 62203.6	Screen Zone Elevation	ft (msl) 257.1 - 256.6
Latitude	33.283821° N	Top of Casing Elevation	303.1
Longitude	81.640506° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.9	274.4	275.3	277.8
pH	pH	8.7	7.7	9.4	9.6
Conductivity	µmhos/cm	22	-	55	49
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	2.5	-	-	-
Tritium	pCi/mL	12.3	11.6	8.43	7.74

Well: Z 15, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 72802.1 E 63419.2	Screen Zone Elevation	ft (msl) 254.3 - 253.8
Latitude	33.290264° N	Top of Casing Elevation	306.9
Longitude	81.641220° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	264.3	263.3	264.1	263.3
pH	pH	8.6	8.3	9.0	9.7
Conductivity	µmhos/cm	22	-	1	46
Gross Alpha	pCi/L	0.0	-	-	-
Nonvolatile Beta	pCi/L	3.4	-	-	-
Tritium	pCi/mL	79.7	55.0	8.77	27.7

Well: Z 17, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 72260.9 E 43797.8	Screen Zone Elevation	ft (msl) 148.7 - 148.2
Latitude	33.257051° N	Top of Casing Elevation	178.8
Longitude	81.691828° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	169.8	168.8	167.8	167.4
pH	pH	7.4	7.7	7.5	7.9
Conductivity	µmhos/cm	14	50	194	184
Gross Alpha	pCi/L	0.0	-	-	-
Nonvolatile Beta	pCi/L	< 2.8	-	-	-
Tritium	pCi/mL	11.2	9.20	8.12	7.33

Well: Z 18, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 73077.2 E 43774.1	Screen Zone Elevation	ft (msl) 160.4 - 159.9
Latitude	33.258818° N	Top of Casing Elevation	202.1
Longitude	81.693476° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	183.1	182.4	181.6	181.6
pH	pH	8.2	8.9	8.6	8.8
Conductivity	µmhos/cm	25	130	51	41
Gross Alpha	pCi/L	0.2	-	-	-
Nonvolatile Beta	pCi/L	3.2	-	-	-
Tritium	pCi/mL	5.66	4.82	4.59	2.93

TABLE 5-42
GROUNDWATER MONITORING RESULTS FROM THE Z AND ZW WELLS, CONT'D.

Well: Z 19A, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 74716.1 E 43696.6	Screen Zone Elevation	ft (msl) 200.1 - 180.1
Latitude	33.262315° N	Top of Casing Elevation	262.0
Longitude	81.696864° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	185.5	185	184.4	184.4
pH	pH	6.7	4.7	6.1	7.1
Conductivity	µmhos/cm	26	110	39	31
Gross Alpha	pCi/L	1.8	-	-	-
Nonvolatile Beta	pCi/L	12.3	-	-	-
Tritium	pCi/mL	11.1	10.1	7.45	7.21

Well: Z 20, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 74080.7 E 43722.4	Screen Zone Elevation	ft (msl) -
Latitude	33.260952° N	Top of Casing Elevation	241.4
Longitude	81.695562° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	185.4	185.3	184.8	184.8
pH	pH	7.2	5.5	6.7	6.9
Conductivity	µmhos/cm	26	120	22	23
Gross Alpha	pCi/L	0.7	-	-	-
Nonvolatile Beta	pCi/L	0.5	-	-	-
Tritium	pCi/mL	13.2	12.2	9.69	8.24

Well: Z 20B, Scattered Around F-Area and H-Area

SRP Grid Coordinates	N 74083.0 E 43721.0	Screen Zone Elevation	ft (msl) 195.6 - 175.6
Latitude	33.260959° N	Top of Casing Elevation	243.6
Longitude	81.695574° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	186.6	186.2
pH	pH	6.5	6.4
Conductivity	µmhos/cm	17	40
Gross Alpha	pCi/L	0.5	-
Nonvolatile Beta	pCi/L	8.7	-
Tritium	pCi/mL	7.05	8.28

Well: ZW 1A, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 80579.5 E 50674.6	Screen Zone Elevation	ft (msl) -
Latitude	33.286670° N	Top of Casing Elevation	276.7
Longitude	81.689889° W	Casing Material	PVC

Parameter	Units	03/26/88	06/16/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	140.1	136.7	139.6	139.5
pH	pH	6.1	6.7	7.6	7.3
Conductivity	µmhos/cm	13	-	134	149
Gross Alpha	pCi/L	0.3	-	<0.1	-
Nonvolatile Beta	pCi/L	1.2	-	0.6	-
Tritium	pCi/mL	6.47	4.27	4.10	4.29

Well: ZW 2, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 80701.5 E 54388.7	Screen Zone Elevation	ft (msl) 204.8 - 194.8
Latitude	33.293002° N	Top of Casing Elevation	289.0
Longitude	81.680347° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	205.1	205	204	203.8
pH	pH	6.6	6.6	6.8	6.8
Conductivity	µmhos/cm	66	-	122	156
Gross Alpha	pCi/L	1.0	-	0.3	-
Nonvolatile Beta	pCi/L	2.7	-	2.4	-
Tritium	pCi/mL	198	194	131	144

Well: ZW 3, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 80746.5 E 57078.2	Screen Zone Elevation	ft (msl) 205.1 - 194.6
Latitude	33.297490° N	Top of Casing Elevation	259.4
Longitude	81.673352° W	Casing Material	Steel

Parameter	Units	03/19/88	06/14/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	199.4	199	198.9	198.6
pH	pH	6.9	6.7	6.9	6.9
Conductivity	µmhos/cm	25	-	36	37
Gross Alpha	pCi/L	<3.0	-	0.9	-
Nonvolatile Beta	pCi/L	2.5	-	1.1	-
Tritium	pCi/mL	6.60	8.03	6.26	6.15

Well: ZW 4, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 77667.4 E 56556.9	Screen Zone Elevation	ft (msl) 239.7 - 229.2
Latitude	33.289830° N	Top of Casing Elevation	274.8
Longitude	81.668742° W	Casing Material	Steel

Parameter	Units	03/19/88	06/14/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	231.8	230.9	230.2	230.4
pH	pH	6.7	6.7	6.7	6.8
Conductivity	µmhos/cm	16	-	177	210
Gross Alpha	pCi/L	1.6	-	0.9	-
Nonvolatile Beta	pCi/L	2.7	-	3.7	-
Tritium	pCi/mL	16.3	15.1	9.85	10.4

Well: ZW 5, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 75767.4 E 54708.6	Screen Zone Elevation	ft (msl) 231.0 - 221.0
Latitude	33.282612° N	Top of Casing Elevation	277.8
Longitude	81.669918° W	Casing Material	Steel

Parameter	Units	03/19/88	06/14/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.3	225.8	225.6	227
pH	pH	6.3	6.2	6.8	6.6
Conductivity	µmhos/cm	20	-	102	115
Gross Alpha	pCi/L	<3.0	-	1.0	-
Nonvolatile Beta	pCi/L	2.9	-	3.3	-
Tritium	pCi/mL	255	387	168	124

Well: ZW 6, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 76166.0 E 52030.8	Screen Zone Elevation	ft (msl) 227.2 - 216.7
Latitude	33.279124° N	Top of Casing Elevation	268.1
Longitude	81.677743° W	Casing Material	Steel

Parameter	Units	03/19/88	06/11/88	09/17/88	12/03/88
Sampling Method	NA	Bail	Bail	-	Bail
Water Elevation	ft	219.3	217.8	-	229.3
pH	pH	6.5	6.1	-	-
Conductivity	µmhos/cm	18	100	-	-
Gross Alpha	pCi/L	0.5	-	-	-
Nonvolatile Beta	pCi/L	2.7	-	-	-
Tritium	pCi/mL	25.0	23.3	-	-

Well: ZW 7, Scattered in and around F-Area and H-Area

SRP Grid Coordinates	N 72399.5 E 60300.7	Screen Zone Elevation	ft (msl) 264.8 - 254.5
Latitude	33.284286° N	Top of Casing Elevation	272.4
Longitude	81.648651° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	266.6	267.1	263.9	263.8
pH	pH	6.6	6.0	7.2	6.6
Conductivity	µmhos/cm	68	-	132	149
Gross Alpha	pCi/L	0.1	-	0.2	-
Nonvolatile Beta	pCi/L	16.9	-	12.4	-
Tritium	pCi/mL	27.3	31.8	29.3	29.6

TABLE 5-42
GROUNDWATER MONITORING RESULTS FROM THE Z AND ZW WELLS, CONT'D.

Well: ZW 8, Scattered in and around F-Area and H-Area

SRP Grid	N 70800.8		ft (msl)
Coordinates	E 63801.5	Screen Zone Elevation	264.1 - 254.1
Latitude	33.286460° N	Top of Casing Elevation	273.4
Longitude	81.636326° W	Casing Material	Steel

Parameter	Units	03/19/88	06/16/88	09/17/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	271.4	269.7	269.7	269.4
pH	pH	6.5	5.4	6.9	6.8
Conductivity	µmhos/cm	19	-	173	51
Gross Alpha	pCi/L	1.8	-	0.1	-
Nonvolatile Beta	pCi/L	11.2	-	3.1	-
Tritium	pCi/mL	21.2	34.3	9.93	5.60

Well: ZW 9, Scattered in and around F-Area and H-Area

SRP Grid	N 73198.4		ft (msl)
Coordinates	E 61400.3	Screen Zone Elevation	252.4 - 242.4
Latitude	33.287847° N	Top of Casing Elevation	288.7
Longitude	81.647307° W	Casing Material	Steel

Parameter	Units	03/26/88	06/16/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	250.1	250.1	249.5	249.7
pH	pH	6.5	6.0	7.0	6.8
Conductivity	µmhos/cm	13	-	134	103
Gross Alpha	pCi/L	1.4	-	1.2	-
Nonvolatile Beta	pCi/L	3.0	-	2.8	-
Tritium	pCi/mL	97.4	101	79.5	79.1

Well: ZW 10, Scattered in and around F-Area and H-Area

SRP Grid	N 73212.4		ft (msl)
Coordinates	E 63401.0	Screen Zone Elevation	252.2 - 242.2
Latitude	33.291142° N	Top of Casing Elevation	300.4
Longitude	81.642065° W	Casing Material	Steel

Parameter	Units	03/26/88	06/14/88	09/22/88	12/05/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	242.9	246.6	246	246.6
pH	pH	6.4	5.9	6.7	6.4
Conductivity	µmhos/cm	12	-	164	180
Gross Alpha	pCi/L	1.6	-	5.9	-
Nonvolatile Beta	pCi/L	6.4	-	10.3	-
Tritium	pCi/mL	63.0	79.7	66.3	72.5

TABLE 5-43
MAXIMUM CONSTITUENT LEVELS AT H AREA

Constituent	DWS	Units	HCA	HCB	HR3	HR8
Gross Alpha	15	pCi/L	10.9	**42.4**	0.91	27.8
Nonvolatile Beta	-	pCi/L	15.6	37.	4.3	24.6
Total Radium	5	pCi/L	3	**8.6**	-	11.1
Tritium	20	pCi/mL	**140**	**38.6**	**55.7**	**67.4**
Cobalt-60	0.1	pCi/mL	-	-	0	0
Chromium-51	6	pCi/mL	-	-	0	0
Cesium-134	0.08	pCi/mL	-	-	0	0
Cesium-137	0.2	pCi/mL	-	-	0	0
Iodine-131	0.003	pCi/mL	-	-	0	0
Ruthenium-103	0.2	pCi/mL	-	-	0	0
Antimony-125	0.3	pCi/mL	-	-	0	0
Zirconium/Niobium-95	0.2	pCi/mL	-	-	0	0
Arsenic	0.05	mg/L	-	-	<0.002	-
Barium	1	mg/L	0.054	0.048	-	0.04
Cadmium	0.01	mg/L	-	**0.016**	-	-
Chromium	0.05	mg/L	-	-	<0.004	-
Fluoride	4	mg/L	-	3.51	-	-
Lead	0.05	mg/L	**0.102**	**0.081**	-	0.035
Mercury	0.002	mg/L	-	<0.0002	0.0007	-
Silver	0.05	mg/L	<0.002	0.005	-	-
Nitrate (as N)	10	mg/L	-	-	2.88	**29.7**
Carbon Tetrachloride	0.005	mg/L	<0.001	-	-	-
Chloroform	0.1*	mg/L	<0.001	-	-	-
Trichloroethylene	0.005	mg/L	**0.016**	-	-	-
1,1,1-TCE	0.2	mg/L	<0.001	-	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

HCA = H-Area Canyon Building Wells
HCB = H-Area Coal Pile Runoff Containment Basin Wells
HR3 = H-Area Old Retention Basin Wells
HR8 = H-Area Retention Basin Wells

TABLE 5-43
MAXIMUM CONSTITUENT LEVELS AT H AREA, CONT'D.

Constituent	DWS	Units	HAC	HAP	HET	HSB
Gross Alpha	15	pCi/L	2.8	3.8	1.2	**572**
Nonvolatile Beta	-	pCi/L	2.7	6.8	1.92	12800
Total Radium	5	pCi/L	1	1	<1	**107**
Tritium	20	pCi/mL	**59.2**	**31**	**38.5**	**98000**
Arsenic	0.05	mg/L	<0.002	<0.002	<0.002	0.027
Barium	1.0	mg/L	0.018	0.059	0.013	0.526
Cadmium	0.01	mg/L	<0.002	<0.002	<0.002	**0.011**
Chromium	0.05	mg/L	<0.004	<0.004	<0.004	**0.081**
Fluoride	4	mg/L	<0.1	0.037	<0.1	1.06
Lead	0.05	mg/L	0.024	**0.053**	0.008	**0.066**
Mercury	0.002	mg/L	0.0006	0.0004	0.0005	**0.0193**
Selenium	0.01	mg/L	<0.002	<0.002	<0.002	<0.002
Silver	0.05	mg/L	<0.002	0.003	<0.002	0.037
Nitrate (as N)	10	mg/L	2.02	1.78	1.64	**138**
Carbon Tetrachloride	0.005	mg/L	-	-	-	<0.005
Chloroform	0.1*	mg/L	-	-	-	<0.005
Trichloroethylene	0.005	mg/L	-	-	-	**0.05**
1,1,1-Trichloroethane	0.2	mg/L	-	-	-	<0.005
Benzene	0.005	mg/L	-	-	-	<0.005
Chloroethene	0.002	mg/L	-	-	-	<0.01
1,4-Dichlorobenzene	0.075	mg/L	-	-	-	<0.01
1,2-Dichloroethane	0.005	mg/L	-	-	-	<0.005
1,1-Dichloroethylene	0.005	mg/L	-	-	-	<0.005
2,4-D	0.1	mg/L	<0.0003	<0.0003	<0.0003	<0.0003
Endrin	0.0002	mg/L	<0.0001	<0.0001	<0.0001	**0.0126**
Lindane	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Methoxychlor	0.1	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
Silvex	0.01	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Toxaphene	0.005	mg/L	<0.001	<0.001	<0.001	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

HAC = H-Area Acid/Caustic Basin Wells
HAP = H-Area Auxiliary Pump Pit Wells
HET = H-Area Effluent Treatment Facility Wells
HSB = H-Area Seepage Basins Wells

TABLE 5-43
MAXIMUM CONSTITUENT LEVELS AT H AREA, CONT'D.

Constituent	DWS	Units	HTF	H	241-H
Gross Alpha	15	pCi/L	**27.4**	**704**	0.31
Nonvolatile Beta	-	pCi/L	55.0	15900	10.2
Total Radium	5	pCi/L	**21.2**	-	-
Tritium	20	pCi/mL	**189**	**51600**	**721**
Cobalt-60	0.1	pCi/mL	0	-	-
Chromium-51	6	pCi/mL	0	-	-
Cesium-134	0.08	pCi/mL	0	-	-
Cesium-137	0.2	pCi/mL	0.301	-	-
Iodine-131	0.003	pCi/mL	0	-	-
Ruthenium-103	0.2	pCi/mL	0	-	-
Ruthenium-106	0.03	pCi/mL	0	-	-
Antimony-125	0.3	pCi/mL	0	-	-
Strontium-89/90	8	pCi/L	-	**9.05**	-
Zirconium/Niobium-95	0.2	pCi/mL	0	-	-
Nitrate (as N)	10	mg/L	**349**	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

HTF = H-Area Tank Farm Wells
H = H-Area Wells
241-H = H-Area Tank Farm Well

TABLE 5-44
GROUNDWATER MONITORING RESULTS FROM THE H-AREA ACID/CAUSTIC BASIN WELLS

Well: HAC 1, H-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	72171.0		
Coordinates	E	*61415.2*	*Screen Zone Elevation*	278.8 - 258.8
Latitude		33.285599° N	Top of Casing Elevation	298.4
Longitude		81.645272° W	Casing Material	PVC

Parameter	Units	12/09/88
Sampling Method	NA	Pump
Water Elevation	ft	266.5
pH	pH	5.3
Conductivity	µmhos/cm	341
Alkalinity	mg/L	11
TDS	mg/L	213
Gross Alpha	pCi/L	2.8
Nonvolatile Beta	pCi/L	2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	45.7
Arsenic	mg/L	< 0.002
Barium	mg/L	0.018
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.73
Chloride	mg/L	3.6
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.313
Lead	mg/L	0.012
Magnesium	mg/L	0.244
Manganese	mg/L	0.030
Mercury	mg/L	< 0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	7.66
Silver	mg/L	< 0.0020
Sodium	mg/L	71.9
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.06
Sulfate	mg/L	107
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.30
Tot. Org. Halogens	mg/L	< 0.005

Well: HAC 2, H-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	72220.2		
Coordinates	E	61366.9	Screen Zone Elevation	278.8 - 258.8
Latitude		*33.285629° N*	Top of Casing Elevation	298.1
Longitude		81.645495° W	Casing Material	PVC

Parameter	Units	12/09/88
Sampling Method	NA	Pump
Water Elevation	ft	265.9
pH	pH	5.2
Conductivity	µmhos/cm	676
Alkalinity	mg/L	5
TDS	mg/L	395
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	59.2
Arsenic	mg/L	< 0.002
Barium	mg/L	0.011
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.66
Chloride	mg/L	3.9
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.187
Lead	mg/L	0.024
Magnesium	mg/L	0.442
Manganese	mg/L	0.017
Mercury	mg/L	< 0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	7.72
Silver	mg/L	< 0.0020
Sodium	mg/L	96.9
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	0.64
Sulfate	mg/L	249
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.10
Tot. Org. Halogens	mg/L	0.016

Well: HAC 3, H-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	72183.4		
Coordinates	E	*61313.6*	*Screen Zone Elevation*	275.0 - 255.0
Latitude		33.285461° N	Top of Casing Elevation	298.0
Longitude		81.645564° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	266.2
pH	pH	4.3
Conductivity	µmhos/cm	158
Alkalinity	mg/L	0
TDS	mg/L	101
Gross Alpha	pCi/L	2.3
Nonvolatile Beta	pCi/L	2.7
Total Radium	pCi/L	1.0
Tritium	pCi/mL	37.7
Arsenic	mg/L	< 0.002
Barium	mg/L	0.016
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.240
Chloride	mg/L	5.5
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.082
Lead	mg/L	0.010
Magnesium	mg/L	0.372
Manganese	mg/L	0.089
Mercury	mg/L	< 0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	6.09
Silver	mg/L	< 0.0020
Sodium	mg/L	25.0
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.56
Sulfate	mg/L	34.9
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.008

Well: HAC 4, H-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	72120.3		
Coordinates	E	61372.0	Screen Zone Elevation	274.1 - 254.1
Latitude		33.285416° N	Top of Casing Elevation	296.9
Longitude		81.645287° W	Casing Material	PVC

Parameter	Units	12/08/88
Sampling Method	NA	Pump
Water Elevation	ft	266.6
pH	pH	4.4
Conductivity	µmhos/cm	43
Alkalinity	mg/L	0
TDS	mg/L	51
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	1.8
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	30.1
Arsenic	mg/L	< 0.002
Barium	mg/L	0.017
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.464
Chloride	mg/L	3.0
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.028
Lead	mg/L	0.016
Magnesium	mg/L	0.260
Manganese	mg/L	0.077
Mercury	mg/L	0.0006
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	6.17
Silver	mg/L	< 0.0020
Sodium	mg/L	4.00
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	2.02
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.020

TABLE 5-44
GROUNDWATER MONITORING RESULTS FROM THE H-AREA ACID/CAUSTIC BASIN WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

HAC 1	12/09/88	
Turbidity		0.613 NTU
Pest/Herb* analyses detected the following: None		
HAC 2	12/09/88	
Turbidity		0.304 NTU
Pest/Herb* analyses detected the following: None		
HAC 3	12/08/88	
Turbidity		0.122 NTU
Pest/Herb* analyses detected the following: None		
HAC 4	12/08/88	
Turbidity		0.208 NTU
Turbidity		0.245 NTU
Pest/Herb* analyses detected the following: None		

TABLE 5-45
GROUNDWATER MONITORING RESULTS FROM THE H-AREA AUXILIARY PUMP PIT WELLS

Well: HAP 1, H-Area Auxiliary Pump Pit

SRP Grid	N 71209.8			ft (msl)
Coordinates	E 63398.8	Screen Zone Elevation		276.3 - 256.3
Latitude	33.286708° N	Top of Casing Elevation		289.1
Longitude	81.638181° W	Casing Material		PVC

Parameter	Units	03/24/88	06/13/88	08/30/88	12/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	269.5	268.8	268.5	268.4
pH	pH	7.1	6.4	6.2	6.4
Conductivity	µmhos/cm	275	245	180	171
Alkalinity	mg/L	97	104	58	103
TDS	mg/L	206	182	51	98
Gross Alpha	pCi/L	< 3.0	3.8	2.1	< 3.0
Nonvolatile Beta	pCi/L	5.3	6.8	2.9	3.8
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	31.0	27.3	23.6	22.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.059	0.047	0.040	0.046
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	67.4	50.6	37.8	51.4
Chloride	mg/L	15.8	21.5	8.5	5.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	0.31	0.37	0.20	< 0.10
Iron	mg/L	< 0.004	0.061	0.007	< 0.020
Lead	mg/L	< 0.006	0.006	0.053	< 0.006
Magnesium	mg/L	1.78	1.71	1.69	1.23
Manganese	mg/L	0.017	0.014	0.020	0.005
Mercury	mg/L	< 0.0002	0.0002	0.0004	< 0.0002
Potassium	mg/L	7.46	3.91	3.90	2.92
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.09	3.72	4.18	8.21
Silver	mg/L	0.0020	0.0030	< 0.0020	< 0.0020
Sodium	mg/L	13.1	12.1	6.02	8.71
Total Phosphates	mg/L	0.030	0.040	< 0.020	0.020
Nitrate (as N)	mg/L	1.03	1.05	1.05	1.38
Sulfate	mg/L	15.0	8.2	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	4.70	< 1.000
Tot. Org. Halogens	mg/L	0.050	0.018	0.036	0.020

Well: HAP 2, H-Area Auxiliary Pump Pit

SRP Grid	N 71122.9			ft (msl)
Coordinates	E 63519.8	Screen Zone Elevation		263.8 - 243.8
Latitude	33.286713° N	Top of Casing Elevation		289.9
Longitude	81.637694° W	Casing Material		PVC

Parameter	Units	03/24/88	06/13/88	08/30/88	12/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	269	268.4	268	268.1
pH	pH	5.8	5.1	4.2	5.1
Conductivity	µmhos/cm	59	51	54	57
Alkalinity	mg/L	3	1	1	0
TDS	mg/L	52	70	134	26
Gross Alpha	pCi/L	2.8	3.3	-	1.7
Nonvolatile Beta	pCi/L	4.2	2.6	-	3.7
Total Radium	pCi/L	< 1.0	0.7	< 1.0	1.0
Tritium	pCi/mL	5.20	7.20	5.48	16.5
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.034	0.045	0.029	0.036
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.76	2.98	1.49	1.53
Chloride	mg/L	2.6	2.9	< 1.0	3.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.015	0.030	0.007	0.025
Lead	mg/L	0.007	0.011	< 0.006	< 0.006
Magnesium	mg/L	1.09	1.30	0.906	1.18
Manganese	mg/L	0.050	0.052	0.032	0.035
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	< 0.0002
Potassium	mg/L	1.23	1.15	0.963	1.22
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.12	5.85	5.77	11.0
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.19	5.50	4.26	4.25
Total Phosphates	mg/L	0.030	< 0.020	< 0.020	0.020
Nitrate (as N)	mg/L	0.74	1.14	0.86	1.78
Sulfate	mg/L	18.0	13.5	9.7	13.1
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	1.60	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.007	< 0.005

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

HAP 1 03/24/88
Pest/Herb* analyses detected the following: None

HAP 2 03/24/88
Pest/Herb* analyses detected the following: None

TABLE 5-46
GROUNDWATER MONITORING RESULTS FROM THE H-AREA CANYON BUILDING WELLS

Well: HCA 1, H-Area Canyon Building

SRP Grid Coordinates	N 72521.7 E 63109.0	Screen Zone Elevation	ft (msl) 273.7 - 253.7
Latitude	33.289138° N	Top of Casing Elevation	310.0
Longitude	81.641492° W	Casing Material	PVC

Parameter	Units	03/19/88	06/11/88	09/17/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	267.5	267.1	266.6	266.6
pH	pH	6.3	6.1	7.3	6.5
Conductivity	µmhos/cm	74	82	107	100
Alkalinity	mg/L	30	22	41	32
Gross Alpha	pCi/L	<3.0	-	0.9	-
Nonvolatile Beta	pCi/L	8.7	-	8.2	-
Total Radium	pCi/L	<1.0	-	1.1	-
Tritium	pCi/mL	126	-	18.7	-
Barium	mg/L	0.054	-	-	-
Iron	mg/L	0.091	-	0.020	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.010	-	0.010	-
Potassium	mg/L	5.55	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	7.05	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: HCA 3, H-Area Canyon Building

SRP Grid Coordinates	N 72651.7 E 63108.7	Screen Zone Elevation	ft (msl) 273.8 - 253.8
Latitude	33.289425° N	Top of Casing Elevation	310.3
Longitude	81.641745° W	Casing Material	PVC

Parameter	Units	03/19/88	06/11/88	09/17/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	267.5	266.8	266.7	266.6
pH	pH	6.2	6.1	5.9	5.8
Conductivity	µmhos/cm	59	95	86	99
Alkalinity	mg/L	36	40	31	32
Gross Alpha	pCi/L	<3.0	-	1.4	-
Nonvolatile Beta	pCi/L	4.9	-	4.0	-
Total Radium	pCi/L	<1.0	-	0.8	-
Tritium	pCi/mL	140	-	97.8	-
Barium	mg/L	0.053	-	-	-
Iron	mg/L	0.034	-	0.095	-
Lead	mg/L	<0.006	-	0.011	-
Manganese	mg/L	0.105	-	0.065	-
Potassium	mg/L	1.56	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.10	-	-	-
Sulfate	mg/L	5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: HCA 2, H-Area Canyon Building

SRP Grid Coordinates	N 72265.9 E 62943.3	Screen Zone Elevation	ft (msl) 273.4 - 242.0
Latitude	33.288302° N	Top of Casing Elevation	310.8
Longitude	81.641433° W	Casing Material	PVC

Parameter	Units	03/19/88	06/11/88	09/17/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	268.4	268	267.6	267.3
pH	pH	6.2	5.8	5.7	5.6
Conductivity	µmhos/cm	166	190	182	195
Alkalinity	mg/L	20	23	21	23
Gross Alpha	pCi/L	10.9	-	4.0	-
Nonvolatile Beta	pCi/L	15.6	-	9.8	-
Total Radium	pCi/L	2.5	-	3.0	-
Tritium	pCi/mL	94.9	-	60.0	-
Barium	mg/L	0.027	-	-	-
Iron	mg/L	0.117	-	0.113	-
Lead	mg/L	0.014	-	0.019	-
Manganese	mg/L	0.025	-	0.020	-
Potassium	mg/L	4.50	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.84	-	-	-
Sulfate	mg/L	43.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	0.005	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: HCA 4, H-Area Canyon Building

SRP Grid Coordinates	N 72523.7 E 62942.9	Screen Zone Elevation	ft (msl) 273.3 - 241.9
Latitude	33.289371° N	Top of Casing Elevation	310.7
Longitude	81.641934° W	Casing Material	PVC

Parameter	Units	03/19/88	06/11/88	09/17/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	267.5	266.9	266.7	266.7
pH	pH	5.7	5.5	5.7	5.1
Conductivity	µmhos/cm	38	48	52	51
Alkalinity	mg/L	9	8	11	4
Gross Alpha	pCi/L	2.5	-	-	-
Nonvolatile Beta	pCi/L	2.6	-	-	-
Total Radium	pCi/L	0.8	-	<1.0	-
Tritium	pCi/mL	50.3	-	51.9	-
Barium	mg/L	0.026	-	-	-
Iron	mg/L	0.122	-	0.278	-
Lead	mg/L	0.102	-	0.093	-
Manganese	mg/L	0.067	-	0.042	-
Potassium	mg/L	0.710	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.97	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.020	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.009	-	0.024	-
Trichloroethylene	mg/L	0.016	-	0.013	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-47
GROUNDWATER MONITORING RESULTS FROM THE H-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: HCB 1, H-Area Coal Pile Runoff Containment Basin

SRP Grid	N 71426.8		ft (msl)
Coordinates	E 63921.5	Screen Zone Elevation	252.6 - 222.6
Latitude	33.288041° N	Top of Casing Elevation	279.3
Longitude	81.637226° W	Casing Material	PVC

Parameter	Units	02/07/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	261.9	261.3	261.4	261
pH	pH	4.8	4.9	4.4	4.4
Conductivity	µmhos/cm	51	51	49	55
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	2.6	-	2.0	-
Nonvolatile Beta	pCi/L	3.5	-	3.2	-
Total Radium	pCi/L	< 1.0	-	1.4	-
Tritium	pCi/mL	29.9	-	17.2	-
Barium	mg/L	0.048	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	1.84	-	-	-
Chloride	mg/L	3.3	-	-	-
Copper	mg/L	< 0.004	< 0.004	< 0.004	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.029	0.154	0.115	-
Lead	mg/L	0.014	-	0.011	-
Magnesium	mg/L	1.36	-	-	-
Manganese	mg/L	0.248	-	0.159	-
Mercury	mg/L	< 0.0002	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	4.34	-	-	-
Zinc	mg/L	0.012	0.050	-	-
Sulfate	mg/L	< 5.0	< 5.0	8.0	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	0.334	-

Well: HCB 2, H-Area Coal Pile Runoff Containment Basin

SRP Grid	N 71289.7		ft (msl)
Coordinates	E 63797.9	Screen Zone Elevation	269.9 - 239.9
Latitude	33.287536° N	Top of Casing Elevation	281.7
Longitude	81.637285° W	Casing Material	PVC

Parameter	Units	02/07/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	266.7	266	266.1	265.5
pH	pH	3.3	2.6	2.8	2.8
Conductivity	µmhos/cm	1650	3700	2300	1756
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	26.4	-	42.4	-
Nonvolatile Beta	pCi/L	32.0	-	37.0	-
Total Radium	pCi/L	7.0	-	8.6	-
Tritium	pCi/mL	38.4	-	25.3	-
Barium	mg/L	0.033	-	-	-
Cadmium	mg/L	0.016	-	0.015	-
Calcium	mg/L	128	-	-	-
Chloride	mg/L	< 1.0	-	-	-
Copper	mg/L	0.402	1.67	0.587	-
Fluoride	mg/L	3.30	-	3.51	-
Iron	mg/L	0.780	138	4.11	-
Lead	mg/L	< 0.006	-	0.081	-
Magnesium	mg/L	41.2	-	-	-
Manganese	mg/L	9.60	-	9.04	-
Mercury	mg/L	< 0.0002	-	-	-
Silver	mg/L	0.0050	-	-	-
Sodium	mg/L	7.49	-	-	-
Zinc	mg/L	2.09	3.97	-	-
Sulfate	mg/L	1050	2550	1440	-
Tot. Org. Carbon	mg/L	2.40	-	-	-
Tot. Org. Halogens	mg/L	0.011	-	0.466	-

Well: HCB 3, H-Area Coal Pile Runoff Containment Basin

SRP Grid	N 71098.8		ft (msl)
Coordinates	E 63919.9	Screen Zone Elevation	263.6 - 233.6
Latitude	33.287313° N	Top of Casing Elevation	275.4
Longitude	81.636593° W	Casing Material	PVC

Parameter	Units	03/06/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	265.4	265	265.1	264.7
pH	pH	4.7	4.8	4.0	4.2
Conductivity	µmhos/cm	32	32	35	74
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.4	-	< 3.0	-
Nonvolatile Beta	pCi/L	2.3	-	1.3	-
Total Radium	pCi/L	< 1.0	-	0.4	-
Tritium	pCi/mL	29.9	-	38.6	-
Barium	mg/L	0.024	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.527	-	-	-
Chloride	mg/L	3.5	-	-	-
Copper	mg/L	0.004	0.004	0.004	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.026	0.138	0.038	-
Lead	mg/L	0.012	-	0.012	-
Magnesium	mg/L	0.488	-	-	-
Manganese	mg/L	0.007	-	0.011	-
Mercury	mg/L	< 0.0002	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.98	-	-	-
Zinc	mg/L	0.009	0.019	-	-
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.179	-

Well: HCB 4, H-Area Coal Pile Runoff Containment Basin

SRP Grid	N 71244.2		ft (msl)
Coordinates	E 64054.5	Screen Zone Elevation	265.9 - 235.9
Latitude	33.287854° N	Top of Casing Elevation	277.8
Longitude	81.636521° W	Casing Material	PVC

Parameter	Units	02/07/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	263.2	262.8	262.8	262.4
pH	pH	4.7	4.6	4.2	4.3
Conductivity	µmhos/cm	71	56	57	61
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	3.4	-	1.2	-
Nonvolatile Beta	pCi/L	3.4	-	2.0	-
Total Radium	pCi/L	0.9	-	0.9	-
Tritium	pCi/mL	31.6	-	24.7	-
Barium	mg/L	0.043	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	2.40	-	-	-
Chloride	mg/L	2.1	-	-	-
Copper	mg/L	0.008	0.012	< 0.004	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.130	0.329	0.054	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	1.06	-	-	-
Manganese	mg/L	0.066	-	0.045	-
Mercury	mg/L	< 0.0002	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	4.02	-	-	-
Zinc	mg/L	0.028	0.056	-	-
Sulfate	mg/L	106	8.4	12.6	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.314	-

TABLE 5-48
GROUNDWATER MONITORING RESULTS FROM THE H-AREA EFFLUENT TREATMENT RETENTION BASIN WELLS

Well: HET 1D, H-Area Effluent Treatment Basin

				ft (msl)
SRP Grid	N	71948.3		
Coordinates	E	60546.0	Screen Zone Elevation	260.3 - 240.3
Latitude	33.283689° N		Top of Casing Elevation	282.2
Longitude	81.647129° W		Casing Material	PVC

Parameter	Units	12/10/88
Sampling Method	NA	Pump
Water Elevation	ft	263.8
pH	pH	5.0
Conductivity	µmhos/cm	52
Alkalinity	mg/L	0
TDS	mg/L	48
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	38.5
Arsenic	mg/L	< 0.002
Barium	mg/L	< 0.004
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.222
Chloride	mg/L	5.2
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.024
Lead	mg/L	< 0.006
Magnesium	mg/L	0.074
Manganese	mg/L	0.012
Mercury	mg/L	0.0003
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	5.63
Silver	mg/L	< 0.0020
Sodium	mg/L	8.83
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.42
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: HET 3D, H-Area Effluent Treatment Basin

				ft (msl)
SRP Grid	N	72093.9		
Coordinates	E	60110.5	Screen Zone Elevation	259.9 - 239.9
Latitude	33.283300° N		Top of Casing Elevation	276.7
Longitude	81.648558° W		Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	254.8
pH	pH	5.4
Conductivity	µmhos/cm	27
Alkalinity	mg/L	1
TDS	mg/L	46
Gross Alpha	pCi/L	0.6
Nonvolatile Beta	pCi/L	1.1
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	33.0
Arsenic	mg/L	< 0.002
Barium	mg/L	< 0.004
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.890
Chloride	mg/L	2.5
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.113
Lead	mg/L	< 0.006
Magnesium	mg/L	0.298
Manganese	mg/L	0.004
Mercury	mg/L	< 0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	5.09
Silver	mg/L	< 0.0020
Sodium	mg/L	2.94
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.64
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: HET 2D, H-Area Effluent Treatment Basin

				ft (msl)
SRP Grid	N	72006.0		
Coordinates	E	60094.4	Screen Zone Elevation	259.7 - 239.7
Latitude	33.283079° N		Top of Casing Elevation	276.9
Longitude	81.648430° W		Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	254.5
pH	pH	6.3
Conductivity	µmhos/cm	40
Alkalinity	mg/L	8
TDS	mg/L	70
Gross Alpha	pCi/L	1.2
Nonvolatile Beta	pCi/L	< 2.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	21.5
Arsenic	mg/L	< 0.002
Barium	mg/L	0.010
Cadmium	mg/L	< 0.002
Calcium	mg/L	2.74
Chloride	mg/L	2.0
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.132
Lead	mg/L	< 0.006
Magnesium	mg/L	0.387
Manganese	mg/L	0.024
Mercury	mg/L	0.0005
Potassium	mg/L	0.579
Selenium	mg/L	< 0.002
Silica	mg/L	7.39
Silver	mg/L	< 0.0020
Sodium	mg/L	3.63
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.07
Sulfate	mg/L	< 5.0
Phenols	mg/L	0.008
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005

Well: HET 4D, H-Area Effluent Treatment Basin

				ft (msl)
SRP Grid	N	72178.1		
Coordinates	E	60166.5	Screen Zone Elevation	259.6 - 239.5
Latitude	33.283578° N		Top of Casing Elevation	276.7
Longitude	81.648574° W		Casing Material	PVC

Parameter	Units	12/11/88
Sampling Method	NA	Pump
Water Elevation	ft	255.7
pH	pH	5.6
Conductivity	µmhos/cm	33
Alkalinity	mg/L	5
TDS	mg/L	40
Gross Alpha	pCi/L	1.0
Nonvolatile Beta	pCi/L	1.9
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	28.9
Arsenic	mg/L	< 0.002
Barium	mg/L	0.013
Cadmium	mg/L	< 0.002
Calcium	mg/L	3.62
Chloride	mg/L	2.5
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.604
Lead	mg/L	0.008
Magnesium	mg/L	0.660
Manganese	mg/L	0.030
Mercury	mg/L	0.0005
Potassium	mg/L	0.568
Selenium	mg/L	< 0.002
Silica	mg/L	7.08
Silver	mg/L	< 0.0020
Sodium	mg/L	2.90
Total Phosphates	mg/L	< 0.020
Nitrate (as N)	mg/L	1.29
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.006

TABLE 5-48
GROUNDWATER MONITORING RESULTS FROM THE H-AREA EFFLUENT TREATMENT RETENTION BASIN WELLS, CONT'D.

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

HET 1D	12/10/88	
Turbidity		0.114 NTU
Pest/Herb* analyses detected the following: None		
HET 2D	12/11/88	
Pest/Herb* analyses detected the following: None		
HET 3D	12/11/88	
Pest/Herb* analyses detected the following: None		
HET 4D	12/11/88	
Pest/Herb* analyses detected the following: None		

TABLE 5-49
GROUNDWATER MONITORING RESULTS FROM THE H-AREA RETENTION BASINS WELLS

Well: HR3 11, Old H-Area Retention Basin

				ft (msl)
SRP Grid	N 71402.8			
Coordinates	E 60146.5	Screen Zone Elevation		230.0 - 200.4
Latitude	33.281830° N	Top of Casing Elevation		271.4
Longitude	81.647121° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/12/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	258.7	258.2	258.3	258.2
pH	pH	4.8	5.1	5.0	4.1
Conductivity	µmhos/cm	42	41	40	43
Alkalinity	mg/L	0	1	1	0
Gross Alpha	pCi/L	0.9	0.3	0.3	1.2
Nonvolatile Beta	pCi/L	1.9	0.3	1.0	1.1
Tritium	pCi/mL	22.9	28.4	16.5	21.2
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.172	-	-	-
Chromium	mg/L	<0.004	-	-	-
Mercury	mg/L	0.0004	-	0.0007	-
Sodium	mg/L	5.82	-	-	-
Nitrate (as N)	mg/L	1.36	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.093	-	0.054	-

Well: HR3 13, Old H-Area Retention Basin

				ft (msl)
SRP Grid	N 71649.4			
Coordinates	E 60065.5	Screen Zone Elevation		234.8 - 205.1
Latitude	33.282244° N	Top of Casing Elevation		276.2
Longitude	81.647813° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/12/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	257.4	257	257.7	256.5
pH	pH	6.7	6.5	6.4	6.1
Conductivity	µmhos/cm	105	97	94	93
Alkalinity	mg/L	40	36	40	36
Gross Alpha	pCi/L	0.8	0.5	0.1	0.4
Nonvolatile Beta	pCi/L	3.3	2.3	4.3	1.9
Tritium	pCi/mL	55.7	51.4	36.3	43.2
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	12.3	-	-	-
Chromium	mg/L	<0.004	-	-	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Sodium	mg/L	5.66	-	-	-
Nitrate (as N)	mg/L	2.88	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-

HR3 11 02/07/88
Gamma PHA analyses detected the following: None

HR3 13 02/07/88
Gamma PHA analyses detected the following: None

Well: HR8 11, H-Area Retention Basin

				ft (msl)
SRP Grid	N 71945.7			
Coordinates	E 59559.8	Screen Zone Elevation		237.6 - 207.9
Latitude	33.282074° N	Top of Casing Elevation		259.2
Longitude	81.649721° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/13/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	245.6	244.3	245	244.4
pH	pH	3.9	4.7	4.6	3.9
Conductivity	µmhos/cm	29	30	26	27
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.6	1.4	2.1	0.8
Nonvolatile Beta	pCi/L	3.0	1.7	1.2	1.5
Total Radium	pCi/L	0.9	-	0.6	-
Tritium	pCi/mL	67.4	56.0	30.6	45.7
Barium	mg/L	0.005	-	-	-
Chloride	mg/L	<1.0	-	-	-
Lead	mg/L	0.013	-	0.025	-
Manganese	mg/L	<0.002	-	<0.002	-
Sodium	mg/L	2.65	-	-	-
Nitrate (as N)	mg/L	0.84	-	0.87	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: HR8 12, H-Area Retention Basin

				ft (msl)
SRP Grid	N 71780.1			
Coordinates	E 59330.1	Screen Zone Elevation		235.9 - 206.3
Latitude	33.281333° N	Top of Casing Elevation		257.5
Longitude	81.650004° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/13/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.1	238.8	238.6	238.2
pH	pH	4.5	4.7	4.5	4.2
Conductivity	µmhos/cm	32	32	32	33
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	3.1	1.1	4.5	0.6
Nonvolatile Beta	pCi/L	9.1	14.1	10.7	13.7
Total Radium	pCi/L	0.7	-	1.6	-
Tritium	pCi/mL	30.2	38.9	27.4	30.6
Barium	mg/L	<0.004	-	-	-
Chloride	mg/L	1.4	-	-	-
Lead	mg/L	0.024	-	0.015	-
Manganese	mg/L	<0.002	-	0.002	-
Sodium	mg/L	3.33	-	-	-
Nitrate (as N)	mg/L	1.27	-	1.23	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: HR8 13, H-Area Retention Basin

				ft (msl)
SRP Grid	N 71559.6			
Coordinates	E 59300.2	Screen Zone Elevation		231.4 - 201.7
Latitude	33.280796° N	Top of Casing Elevation		253.1
Longitude	81.649654° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/13/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.6	237.2	236.8	236.8
pH	pH	4.3	4.5	4.5	4.0
Conductivity	µmhos/cm	51	56	55	51
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	3.8	2.9	5.0	1.3
Nonvolatile Beta	pCi/L	6.2	5.9	4.8	5.4
Total Radium	pCi/L	1.2	-	1.5	-
Tritium	pCi/mL	28.5	40.1	20.7	29.8
Barium	mg/L	0.008	-	-	-
Chloride	mg/L	9.1	-	-	-
Lead	mg/L	0.020	-	0.035	-
Manganese	mg/L	0.004	-	0.006	-
Sodium	mg/L	5.56	-	-	-
Nitrate (as N)	mg/L	1.40	-	1.36	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: HR8 14, H-Area Retention Basin

				ft (msl)
SRP Grid	N 71431.4			
Coordinates	E 59612.1	Screen Zone Elevation		231.9 - 202.3
Latitude	33.281022° N	Top of Casing Elevation		253.6
Longitude	81.648584° W	Casing Material		PVC

Parameter	Units	02/07/88	04/16/88	07/13/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.8	244.1	243.8	244
pH	pH	4.4	4.5	4.3	4.3
Conductivity	µmhos/cm	300	305	270	295
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	27.8	4.0	27.2	3.1
Nonvolatile Beta	pCi/L	24.6	5.9	4.4	7.5
Total Radium	pCi/L	11.1	-	7.5	-
Tritium	pCi/mL	5.70	10.7	9.80	5.93
Barium	mg/L	0.040	-	-	-
Chloride	mg/L	2.8	-	-	-
Lead	mg/L	0.027	-	0.010	-
Manganese	mg/L	0.070	-	0.077	-
Sodium	mg/L	40.3	-	-	-
Nitrate (as N)	mg/L	29.3	-	29.7	-
Tot. Org. Halogens	mg/L	0.008	-	-	-

Other Analyses
(Gamma PHA Analytes: Table 5-91)

HR8 11 02/07/88
Gamma PHA analyses detected the following: None

HR8 12 02/07/88
Gamma PHA analyses detected the following: None

HR8 14 02/07/88
Gamma PHA analyses detected the following: None

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS

Well: H 4, H-Area Seepage Basins

SRP Grid Coordinates	N 72071.4 E 58741.3	Screen Zone Elevation	ft (msl) 239.2 - 229.2
Latitude	33.281017° N	Top of Casing Elevation	258.8
Longitude	81.652120° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	*NA*	*Bail*	*Bail*	-	-
Water Elevation	ft	233.8	233.8	-	-
pH	pH	6.4	6.6	-	-
Conductivity	µmhos/cm	445	-	-	-
Gross Alpha	pCi/L	9.9	3.4	-	-
Nonvolatile Beta	pCi/L	3280	2360	-	-
Tritium	pCi/mL	80300	43500	-	-

Well: H 6, H-Area Seepage Basins

SRP Grid Coordinates	N 72009.1 E 58335.4	Screen Zone Elevation	ft (msl) 235.2 - 225.2
Latitude	33.280217° N	Top of Casing Elevation	260.1
Longitude	81.653068° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	*NA*	*Bail*	*Bail*	*Bail*	*Bail*
Water Elevation	ft	230.5	230.5	234.4	229.6
pH	pH	3.9	3.8	3.9	4.0
Conductivity	µmhos/cm	1115	-	102	983
Gross Alpha	pCi/L	80.4	67.9	102	704
Nonvolatile Beta	pCi/L	15900	11200	10800	13500
Tritium	pCi/mL	16500	51600	46500	41000

Well: H 7, H-Area Seepage Basins

SRP Grid Coordinates	N 71949.2 E 58336.1	Screen Zone Elevation	ft (msl) 234.9 - 224.9
Latitude	33.280085° N	Top of Casing Elevation	257.8
Longitude	81.652950° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	*NA*	*Bail*	*Bail*	*Bail*	*Bail*
Water Elevation	ft	230.3	229.8	228.7	228.3
pH	pH	7.0	7.1	7.9	6.9
Conductivity	µmhos/cm	112	-	90	180
Gross Alpha	pCi/L	1.2	1.8	1.6	2.1
Nonvolatile Beta	pCi/L	338	253	322	987
Tritium	pCi/mL	1360	736	1200	2150

Well: H 8, H-Area Seepage Basins

SRP Grid Coordinates	N 71615.4 E 58233.9	Screen Zone Elevation	ft (msl) 228.4 - 218.4
Latitude	33.279180° N	Top of Casing Elevation	257.2
Longitude	81.652571° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	227.3	227.4	227.2	226.8
pH	pH	6.7	6.7	6.3	6.5
Conductivity	µmhos/cm	591	-	568	490
Gross Alpha	pCi/L	0.7	2.0	2.7	9.4
Nonvolatile Beta	pCi/L	235	353	278	354
Tritium	pCi/mL	4890	4030	4640	4370

Well: H 9, H-Area Seepage Basins

SRP Grid Coordinates	N 71572.6 E 58275.3	Screen Zone Elevation	ft (msl) 220.4 - 210.4
Latitude	33.279153° N	Top of Casing Elevation	248.9
Longitude	81.652378° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	227.6	227.5	226.3	226.4
pH	pH	6.0	5.9	6.9	5.9
Conductivity	µmhos/cm	700	-	797	771
Gross Alpha	pCi/L	11.9	9.0	-	49.5
Nonvolatile Beta	pCi/L	1820	1760	-	1580
Tritium	pCi/mL	4020	4190	3640	3610

Well: H 10, H-Area Seepage Basins

SRP Grid Coordinates	N 71607.2 E 57822.8	Screen Zone Elevation	ft (msl) 232.5 - 222.5
Latitude	33.278492° N	Top of Casing Elevation	257.3
Longitude	81.653637° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	228.9	228.5	226.9	226.7
pH	pH	6.0	6.1	6.2	6.4
Conductivity	µmhos/cm	352	-	360	357
Gross Alpha	pCi/L	1.0	0.4	1.4	2.0
Nonvolatile Beta	pCi/L	8.8	5.0	7.1	19.4
Tritium	pCi/mL	2300	2160	1730	1300

Well: H 11, H-Area Seepage Basins

SRP Grid Coordinates	N 71565.9 E 57779.4	Screen Zone Elevation	ft (msl) 221.0 - 211.0
Latitude	33.278329° N	Top of Casing Elevation	249.3
Longitude	81.653671° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	228.3	228.7	227.4	227.8
pH	pH	5.3	5.9	6.6	6.1
Conductivity	µmhos/cm	209	-	74	156
Gross Alpha	pCi/L	0.2	0.1	0.1	0.4
Nonvolatile Beta	pCi/L	32.9	12.4	8.6	9.9
Tritium	pCi/mL	4540	3240	3570	3550

Well: H 12, H-Area Seepage Basins

SRP Grid Coordinates	N 71529.9 E 58490.3	Screen Zone Elevation	ft (msl) -
Latitude	33.279410° N	Top of Casing Elevation	234.4
Longitude	81.651729° W	Casing Material	PVC

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	226.9	226.6	-	-
pH	pH	5.9	5.6	-	-
Conductivity	µmhos/cm	104	-	-	-
Gross Alpha	pCi/L	-	1.3	-	-
Nonvolatile Beta	pCi/L	-	37.5	-	-
Tritium	pCi/mL	491	147	-	-

Well: H 13, H-Area Seepage Basins

SRP Grid Coordinates	N 71327.4 E 58231.7	Screen Zone Elevation	ft (msl) -
Latitude	33.278540° N	Top of Casing Elevation	244.4
Longitude	81.652017° W	Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.9	226.9	224.6	224.4
pH	pH	6.1	6.6	6.3	6.9
Conductivity	µmhos/cm	103	-	222	237
Gross Alpha	pCi/L	0.4	33.1	0.5	0.8
Nonvolatile Beta	pCi/L	21.5	92.7	24.4	41.6
Tritium	pCi/mL	1900	2880	5190	4390

Well: H 14, H-Area Seepage Basins

SRP Grid Coordinates	N 71213.1 E 58071.9	Screen Zone Elevation	ft (msl) -
Latitude	33.278026° N	Top of Casing Elevation	242.3
Longitude	81.652216° W	Casing Material	PVC

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.5	224.5	223.1	223.8
pH	pH	4.7	4.4	4.7	4.9
Conductivity	µmhos/cm	548	-	430	441
Gross Alpha	pCi/L	0.7	1.0	0.4	0.8
Nonvolatile Beta	pCi/L	15.6	7.4	11.0	13.2
Tritium	pCi/mL	7420	5030	3750	3710

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: H 15, H-Area Seepage Basins

SRP Grid	N	71231.1		ft (msl)
Coordinates	E	57812.9	Screen Zone Elevation	-
Latitude	33.277644° N		Top of Casing Elevation	240.1
Longitude	81.652933° W		Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	224.2	224.1	-	-
pH	pH	5.9	4.6	-	-
Conductivity	µmhos/cm	21	-	-	-
Gross Alpha	pCi/L	1.4	0.8	-	-
Nonvolatile Beta	pCi/L	6.3	1.1	-	-
Tritium	pCi/mL	86.1	63.7	-	-

Well: H 16, H-Area Seepage Basins

SRP Grid	N	71339.8		ft (msl)
Coordinates	E	57631.9	Screen Zone Elevation	-
Latitude	33.277589° N		Top of Casing Elevation	241.5
Longitude	81.653621° W		Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.5	226.9	226.5	225.5
pH	pH	6.0	5.5	5.8	5.6
Conductivity	µmhos/cm	17	-	22	19
Gross Alpha	pCi/L	0.5	0.5	0.4	1.9
Nonvolatile Beta	pCi/L	3.4	0.9	3.1	4.3
Tritium	pCi/mL	72.1	61.4	49.4	50.1

Well: H 17, H-Area Seepage Basins

SRP Grid	N	71479.4		ft (msl)
Coordinates	E	57582.6	Screen Zone Elevation	-
Latitude	33.277817° N		Top of Casing Elevation	243.3
Longitude	81.654021° W		Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.5	226.5	225.5	224.9
pH	pH	6.5	4.9	5.9	5.7
Conductivity	µmhos/cm	67	-	30	52
Gross Alpha	pCi/L	0.5	0.9	1.9	2.1
Nonvolatile Beta	pCi/L	16.0	5.3	9.1	7.1
Tritium	pCi/mL	93.7	78.7	62.6	52.0

Well: H 18A, H-Area Seepage Basins

SRP Grid	N	71339.6		ft (msl)
Coordinates	E	57337.7	Screen Zone Elevation	227.5 - 217.5
Latitude	33.277108° N		Top of Casing Elevation	239.5
Longitude	81.654395° W		Casing Material	PVC

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	224.5	224.9	224.4	223.7
pH	pH	5.1	4.8	5.4	5.4
Conductivity	µmhos/cm	12	-	17	21
Gross Alpha	pCi/L	1.6	1.1	0.8	3.8
Nonvolatile Beta	pCi/L	4.8	2.2	3.6	5.1
Tritium	pCi/mL	77.1	69.7	68.6	41.3

Well: H 19, H-Area Seepage Basins

SRP Grid	N	71434.2		ft (msl)
Coordinates	E	57041.7	Screen Zone Elevation	-
Latitude	33.276835° N		Top of Casing Elevation	246.6
Longitude	81.655358° W		Casing Material	Steel

Parameter	Units	02/13/88	05/07/88	08/13/88	11/12/88
Sampling Method	NA	-	Bail	Bail	-
Water Elevation	ft	-	223.6	222.7	-
pH	pH	-	6.0	-	-
Conductivity	µmhos/cm	-	-	-	-
Gross Alpha	pCi/L	-	1.0	-	-
Nonvolatile Beta	pCi/L	-	12.0	-	-
Tritium	pCi/mL	-	1170	-	-

Other Analyses

H 12	02/13/88	
Strontium 89/90		9.05 pCi/L
H 12	05/07/88	
Strontium 89/90		7.26 pCi/L

Well: HSB 65, H-Area Seepage Basins

SRP Grid	N	72425.6		ft (msl)
Coordinates	E	58432.0	Screen Zone Elevation	242.4 - 212.4
Latitude	33.281296° N		Top of Casing Elevation	272.0
Longitude	81.653622° W		Casing Material	PVC

Parameter	Units	01/05/88	04/26/88	07/03/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.7	238.1	232.7	231.9
pH	pH	4.5	4.7	4.9	4.0
Conductivity	µmhos/cm	35	41	36	44
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.2	1.8	1.3	<3.0
Nonvolatile Beta	pCi/L	<2.0	1.5	1.7	1.3
Total Radium	pCi/L	0.7	-	<1.0	-
Tritium	pCi/mL	66.8	58.9	46.6	39.6
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.015	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.23	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.059	0.125	0.116
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.027	0.020	0.023	<0.020
Lead	mg/L	0.010	0.015	0.023	0.021
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	<0.002	<0.002	0.002	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	0.004	<0.004
Potassium	mg/L	0.567	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.14	2.35	2.94	5.44
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	0.032	0.011	0.019	0.021
Nitrate (as N)	mg/L	3.26	1.38	1.82	2.76
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 65A, H-Area Seepage Basins

SRP Grid	N 72436.2			ft (msl)
Coordinates	E 58436.0	Screen Zone Elevation		73.2 - 62.5
Latitude	33.281326° N	Top of Casing Elevation		273.6
Longitude	81.653633° W	Casing Material		PVC

Parameter	Units	01/05/88	04/26/88	07/03/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	170.3	169.9	169.7	169.1
pH	pH	6.9	6.9	7.2	6.5
Conductivity	µmhos/cm	179	210	192	191
Alkalinity	mg/L	84	88	87	80
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.3	1.6	1.8	<3.0
Nonvolatile Beta	pCi/L	2.6	2.5	1.9	2.1
Total Radium	pCi/L	<1.0	-	0.6	-
Tritium	pCi/mL	1.20	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.041	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	36.0	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	0.010	<0.004
Copper	mg/L	-	0.005	0.010	0.013
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.032	<0.004	0.047	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	<0.002	<0.002	<0.002	0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.66	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.54	2.01	1.80	1.82
Total Phosphates	mg/L	-	0.030	0.100	0.040
Zinc	mg/L	0.004	0.005	0.027	0.009
Nitrate (as N)	mg/L	0.42	0.16	0.15	0.10
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.044
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 65B, H-Area Seepage Basins

SRP Grid	N 72445.6			ft (msl)
Coordinates	E 58439.4	Screen Zone Elevation		133.3 - 123.3
Latitude	33.281352° N	Top of Casing Elevation		273.7
Longitude	81.653642° W	Casing Material		PVC

Parameter	Units	02/20/88	04/26/88	07/03/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.6	224.4	224.2	223.8
pH	pH	7.7	7.7	7.5	6.7
Conductivity	µmhos/cm	194	215	195	195
Alkalinity	mg/L	94	95	97	81
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	<3.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	0.8	<2.0	<2.0
Total Radium	pCi/L	<1.0	-	0.5	-
Tritium	pCi/mL	0.80	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.024	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	37.4	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	0.009	<0.004	0.007	<0.004
Copper	mg/L	-	0.007	0.009	0.014
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.010	0.029	0.017	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.004	<0.002	<0.002	0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.506	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.00	1.83	1.65	1.85
Total Phosphates	mg/L	-	0.040	0.060	0.020
Zinc	mg/L	0.034	0.009	0.025	0.013
Nitrate (as N)	mg/L	0.22	0.12	0.10	0.14
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 65C, H-Area Seepage Basins

SRP Grid	N 72439.6			ft (msl)
Coordinates	E 58447.1	Screen Zone Elevation		218.6 - 207.8
Latitude	33.281351° N	Top of Casing Elevation		273.6
Longitude	81.653610° W	Casing Material		PVC

Parameter	Units	01/05/88	04/26/88	07/03/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.9	233.3	232.9	232.1
pH	pH	5.0	5.1	5.1	4.6
Conductivity	µmhos/cm	47	55	54	57
Alkalinity	mg/L	2	1	2	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.8	1.9	0.8	1.6
Nonvolatile Beta	pCi/L	<2.0	2.1	<2.0	1.3
Total Radium	pCi/L	0.6	-	<1.0	-
Tritium	pCi/mL	32.5	28.0	28.0	18.1
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.007	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	2.11	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.010	0.010	0.010
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.095	0.026	0.023	0.021
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.013	0.012	0.011	0.011
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	6.58	5.74	6.39	8.05
Total Phosphates	mg/L	-	0.030	0.030	0.030
Zinc	mg/L	0.030	0.025	0.047	0.027
Nitrate (as N)	mg/L	4.43	3.76	0.93	3.14
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.025
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 66, H-Area Seepage Basins

SRP Grid	N 72429.2			ft (msl)
Coordinates	E 56928.3	Screen Zone Elevation		228.1 - 198.1
Latitude	33.278850° N	Top of Casing Elevation		280.2
Longitude	81.657589° W	Casing Material		PVC

Parameter	Units	01/05/88	04/26/88	07/02/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	227.2	226.5	227.7	226.4
pH	pH	5.2	5.2	5.1	5.9
Conductivity	µmhos/cm	23	28	25	25
Alkalinity	mg/L	2	2	2	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.1	1.7	1.6	2.7
Nonvolatile Beta	pCi/L	2.4	1.4	2.0	1.6
Total Radium	pCi/L	1.7	-	0.8	-
Tritium	pCi/mL	9.80	6.50	8.39	5.41
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	<0.004	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.01	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.018	0.023	0.016
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.008	0.043	0.057	0.058
Lead	mg/L	<0.006	<0.006	<0.006	0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.006	0.006	0.008	0.007
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.46	1.96	2.06	2.18
Total Phosphates	mg/L	-	0.250	0.340	0.140
Zinc	mg/L	0.039	0.034	0.043	0.015
Nitrate (as N)	mg/L	1.40	0.88	1.06	0.87
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.009
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 67, H-Area Seepage Basins

SRP Grid Coordinates	N 71505.0			ft (msl)
	E 58424.3	Screen Zone Elevation		230.7 - 200.7
Latitude	33.279247° N	Top of Casing Elevation		237.8
Longitude	81.651855° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/06/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.8	225.2	225	224.8
pH	pH	3.8	4.1	4.2	4.0
Conductivity	µmhos/cm	226	175	150	145
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	53.6	4.1	26.5	26.0
Nonvolatile Beta	pCi/L	1190	409	1300	978
Total Radium	pCi/L	14.7	-	5.5	-
Tritium	pCi/mL	7190	2350	1180	2620
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.035	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	[illegible]	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.051	0.063	0.059
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.018	0.053	0.083	0.029
Lead	mg/L	< 0.006	0.013	0.015	0.015
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.102	0.120	0.167	0.155
Mercury	mg/L	0.0061	0.0015	0.0012	0.0016
Nickel	mg/L	< 0.004	< 0.004	0.004	< 0.004
Potassium	mg/L	0.554	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	34.2	17.6	13.1	14.5
Total Phosphates	mg/L	[illegible]	0.020	< 0.020	< 0.020
Zinc	mg/L	0.010	0.022	0.027	0.024
Nitrate (as N)	mg/L	23.6	11.7	9.62	12.0
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.015	0.005	0.168	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 68A, H-Area Seepage Basins

SRP Grid Coordinates	N 71526.9			ft (msl)
	E 56892.1	Screen Zone Elevation		58.0 - 47.5
Latitude	33.276796° N	Top of Casing Elevation		249.4
Longitude	81.655932° W	Casing Material		PVC

Parameter	Units	01/12/88	05/01/88	07/06/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	170.5	170.4	169.9	169.6
pH	pH	6.9	7.2	7.0	6.7
Conductivity	µmhos/cm	140	165	138	135
Alkalinity	mg/L	59	66	55	59
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.1	2.3	2.3	< 3.0
Nonvolatile Beta	pCi/L	17.4	16.2	16.5	15.6
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	56.1	23.6	16.9	14.8
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.030	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	26.0	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.005	< 0.004	0.011
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.010	0.007	0.018	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.002	0.003	0.002	0.003
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	2.08	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.88	2.10	1.93	1.96
Total Phosphates	mg/L	-	0.230	0.200	0.210
Zinc	mg/L	0.003	0.004	< 0.002	0.009
Nitrate (as N)	mg/L	0.34	0.28	0.11	0.12
Sulfate	mg/L	5.4	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.40	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.126	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 68, H-Area Seepage Basins

SRP Grid Coordinates	N 71528.0			ft (msl)
	E 56901.0	Screen Zone Elevation		243.3 - 213.3
Latitude	33.276813° N	Top of Casing Elevation		250.1
Longitude	81.655911° W	Casing Material		PVC

Parameter	Units	01/12/88	05/01/88	07/06/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.4	223.4	224.1	223.3
pH	pH	3.6	3.8	3.7	3.8
Conductivity	µmhos/cm	400	425	320	280
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	131	30.4	39.9	46.1
Nonvolatile Beta	pCi/L	12400	6630	9610	7760
Total Radium	pCi/L	47.8	-	16.7	-
Tritium	pCi/mL	*27200*	*30200*	*22300*	*22200*
Arsenic	mg/L	0.003	-	-	-
Barium	mg/L	0.185	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	7.40	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.035	0.036	0.033
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.043	0.458	0.121	0.187
Lead	mg/L	< 0.006	0.016	0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	1.28	0.908	0.794	0.724
Mercury	mg/L	0.0003	0.0015	0.0009	0.0007
Nickel	mg/L	0.051	0.032	0.038	0.027
Potassium	mg/L	2.18	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	*29.1*	*27.8*	*18.6*	*20.6*
Total Phosphates	mg/L	-	0.030	< 0.020	0.020
Zinc	mg/L	0.178	0.112	0.088	0.088
Nitrate (as N)	mg/L	42.9	33.7	32.5	27.0
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 68B, H-Area Seepage Basins

SRP Grid Coordinates	N 71525.5			ft (msl)
	E 56882.1	Screen Zone Elevation		134.5 - 123.5
Latitude	33.276776° N	Top of Casing Elevation		250.0
Longitude	81.655956° W	Casing Material		PVC

Parameter	Units	01/13/88	05/01/88	07/07/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.1	217.5	217.6	217.2
pH	pH	7.3	7.3	7.7	7.3
Conductivity	µmhos/cm	198	275	240	240
Alkalinity	mg/L	116	46	115	102
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	2.4	4.4	5.5	1.7
Nonvolatile Beta	pCi/L	14.1	18.3	15.9	8.7
Total Radium	pCi/L	0.9	-	0.7	-
Tritium	pCi/mL	*34.0*	*35.9*	*26.8*	*31.2*
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.032	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	43.0	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	< 0.004	0.006	0.015
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.024	< 0.004	0.062	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.003	0.003	0.004	0.003
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	*< 0.004*	*< 0.004*	*< 0.004*	*< 0.004*
Potassium	mg/L	0.718	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	2.61	2.00	1.89	1.88
Total Phosphates	mg/L	-	0.870	1.60	0.190
Zinc	mg/L	0.008	< 0.002	0.007	0.016
Nitrate (as N)	mg/L	0.41	0.28	0.36	0.30
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.40	1.30	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 68C, H-Area Seepage Basins

SRP Grid	N 71524.1			ft (msl)
Coordinates	E 56872.7	Screen Zone Elevation		179.5 - 168.4
Latitude	33.276758° N	Top of Casing Elevation		250.1
Longitude	81.655978° W	Casing Material		PVC

Parameter	Units	01/13/88	05/01/88	07/07/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.7	218.4	218.6	218.1
pH	pH	6.2	5.7	6.1	5.9
Conductivity	µmhos/cm	104	150	124	115
Alkalinity	mg/L	6	7	7	7
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.9	0.1	4.2	1.2
Nonvolatile Beta	pCi/L	9.8	12.3	12.8	17.0
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	1810	2180	1990	2000
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.018	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	0.003	0.002	< 0.002	< 0.002
Calcium	mg/L	7.20	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	0.023	< 0.004	< 0.004
Copper	mg/L	-	0.019	0.042	0.065
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.076	0.109	0.099	0.182
Lead	mg/L	0.010	0.023	0.010	0.015
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.050	0.023	0.037	0.473
Mercury	mg/L	< 0.0002	< 0.0002	0.0006	0.0003
Nickel	mg/L	0.004	0.023	< 0.004	< 0.004
Potassium	mg/L	0.878	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	14.2	0.11	11.0	14.6
Total Phosphates	mg/L	-	0.020	0.050	< 0.020
Zinc	mg/L	0.245	0.024	0.180	0.200
Nitrate (as N)	mg/L	11.3	33.4	11.0	9.59
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	1.40	1.20	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 69A, H-Area Seepage Basins

SRP Grid	N 71549.4			ft (msl)
Coordinates	E 56465.1	Screen Zone Elevation		93.1 - 83.1
Latitude	33.276149° N	Top of Casing Elevation		236.6
Longitude	81.657100° W	Casing Material		***

Parameter	Units	04/07/88	07/04/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	170.8	170.4	170
pH	pH	9.5	7.7	6.7
Conductivity	µmhos/cm	207	181	170
Alkalinity	mg/L	89	74	62
TDS	mg/L	138	130	248
Gross Alpha	pCi/L	3.4	1.7	1.5
Nonvolatile Beta	pCi/L	5.4	3.4	5.1
Total Radium	pCi/L	0.6	0.5	0.5
Tritium	pCi/mL	< 0.70	< 0.70	< 0.70
Arsenic	mg/L	0.010	0.006	0.005
Barium	mg/L	0.028	0.024	0.026
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	29.5	26.3	29.7
Chloride	mg/L	2.5	2.3	2.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.005	< 0.004	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	0.23
Iron	mg/L	0.009	0.093	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.453	0.551	0.482
Manganese	mg/L	0.005	0.020	0.016
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	4.22	3.62	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	18.2	15.3	31.2
Silver	mg/L	< 0.0020	0.0060	< 0.0020
Sodium	mg/L	8.77	4.73	3.20
Total Phosphates	mg/L	0.410	0.250	0.230
Zinc	mg/L	< 0.002	0.011	0.016
Nitrate (as N)	mg/L	0.18	0.05	0.07
Sulfate	mg/L	9.9	8.1	8.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB 69, H-Area Seepage Basins

SRP Grid	N 71546.9			ft (msl)
Coordinates	E 56475.1	Screen Zone Elevation		229.0 - 199.0
Latitude	33.276160° N	Top of Casing Elevation		236.0
Longitude	81.657069° W	Casing Material		PVC

Parameter	Units	01/13/88	04/07/88	07/04/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.6	220.3	221.3	220.6
pH	pH	3.5	4.1	3.9	3.5
Conductivity	µmhos/cm	327	315	330	300
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	110	39.7	46.3	44.0
Nonvolatile Beta	pCi/L	12000	9910	10100	6040
Total Radium	pCi/L	65.1	-	20.2	-
Tritium	pCi/mL	22200	23000	27700	17700
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.146	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	0.002	< 0.002	< 0.002
Calcium	mg/L	7.50	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.013	0.015	0.013
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.012	0.015	0.045	0.026
Lead	mg/L	< 0.006	0.008	0.008	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.853	0.942	0.629	0.720
Mercury	mg/L	< 0.0002	< 0.0002	0.0193	0.0002
Nickel	mg/L	0.033	0.029	0.026	0.026
Potassium	mg/L	2.92	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	21.3	22.9	14.4	19.2
Total Phosphates	mg/L	-	0.030	0.070	< 0.020
Zinc	mg/L	0.121	0.093	0.081	0.082
Nitrate (as N)	mg/L	35.3	30.8	30.4	29.2
Sulfate	mg/L	< 5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.10	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 70, H-Area Seepage Basins

SRP Grid	N 72606.9			ft (msl)
Coordinates	E 55758.9	Screen Zone Elevation		235.7 - 205.7
Latitude	33.277336° N	Top of Casing Elevation		242.8
Longitude	81.661013° W	Casing Material		PVC

Parameter	Units	01/12/88	04/07/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.7	225.6	227.3	226.4
pH	pH	5.0	5.0	5.1	4.7
Conductivity	µmhos/cm	77	105	105	105
Alkalinity	mg/L	5	9	5	8
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.1	< 3.0	3.8	3.3
Nonvolatile Beta	pCi/L	14.6	22.6	14.1	3.3
Total Radium	pCi/L	0.4	-	< 1.0	-
Tritium	pCi/mL	2000	3310	8010	7810
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.065	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	6.40	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.546	0.288	0.249
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.019	0.043	0.051	< 0.020
Lead	mg/L	0.039	0.066	0.044	0.046
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.085	0.041	0.036	0.043
Mercury	mg/L	< 0.0002	< 0.0002	0.0006	0.0002
Nickel	mg/L	< 0.004	0.008	< 0.004	< 0.004
Potassium	mg/L	1.02	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	5.10	10.5	10.2	13.5
Total Phosphates	mg/L	-	< 0.020	0.030	< 0.020
Zinc	mg/L	0.091	0.110	0.061	0.046
Nitrate (as N)	mg/L	3.59	6.20	7.50	8.08
Sulfate	mg/L	5.2	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.40	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.009	< 0.005	< 0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 70C, H-Area Seepage Basins

SRP Grid	N 72597.3			ft (msl)
Coordinates	E 55757.1	Screen Zone Elevation		174.9 - 164.9
Latitude	33.277311° N	Top of Casing Elevation		243.1
Longitude	81.660999° W	Casing Material		PVC

Parameter	Units	04/07/88	07/06/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	220.8	224.9	224.2
pH	pH	6.4	9.7	9.4
Conductivity	µmhos/cm	360	340	335
Alkalinity	mg/L	28	56	52
TDS	mg/L	278	241	332
Gross Alpha	pCi/L	8.5	<3.0	2.0
Nonvolatile Beta	pCi/L	122	82.5	68.0
Total Radium	pCi/L	0.9	1.1	0.8
Tritium	pCi/mL	3580	2930	3380
Arsenic	mg/L	0.005	<0.002	<0.002
Barium	mg/L	0.104	0.145	0.111
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	20.5	30.1	34.1
Chloride	mg/L	4.6	6.9	7.2
Chromium	mg/L	<0.004	0.005	<0.004
Copper	mg/L	0.004	<0.004	0.011
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.15	<0.10
Iron	mg/L	0.012	0.170	0.041
Lead	mg/L	0.006	<0.006	<0.006
Magnesium	mg/L	0.519	3.19	1.86
Manganese	mg/L	0.055	0.014	0.004
Mercury	mg/L	<0.0002	0.0004	<0.0002
Nickel	mg/L	0.007	<0.004	<0.004
Potassium	mg/L	3.89	5.19	3.83
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.89	10.6	9.70
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	30.8	29.4	33.9
Total Phosphates	mg/L	0.020	0.140	0.100
Zinc	mg/L	0.036	0.031	<0.002
Nitrate (as N)	mg/L	29.8	25.6	20.2
Sulfate	mg/L	5.0	6.3	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB 71C, H-Area Seepage Basins

SRP Grid	N 72866.6			ft (msl)
Coordinates	E 55281.5	Screen Zone Elevation		181.9 - 171.9
Latitude	33.277131° N	Top of Casing Elevation		241.6
Longitude	81.662775° W	Casing Material		PVC

Parameter	Units	04/09/88	07/19/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	221	221.5	221.2
pH	pH	7.3	9.6	6.9
Conductivity	µmhos/cm	562	580	700
Alkalinity	mg/L	38	47	48
TDS	mg/L	448	463	502
Gross Alpha	pCi/L	58.4	12.0	16.7
Nonvolatile Beta	pCi/L	222	221	178
Total Radium	pCi/L	<1.0	3.3	3.9
Tritium	pCi/mL	8610	8740	10400
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.091	0.106	0.118
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	25.7	17.0	21.4
Chloride	mg/L	6.2	6.0	11.0
Chromium	mg/L	<0.004	0.005	<0.004
Copper	mg/L	<0.004	0.006	0.011
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.18	0.39	0.17
Iron	mg/L	0.047	0.011	0.026
Lead	mg/L	0.006	<0.006	<0.006
Magnesium	mg/L	4.05	3.40	7.02
Manganese	mg/L	0.173	0.017	0.064
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.007	<0.004	<0.004
Potassium	mg/L	3.23	1.50	8.80
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.67	3.45	3.28
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	101	91.5	88.4
Total Phosphates	mg/L	0.350	0.070	<0.020
Zinc	mg/L	0.053	0.007	0.014
Nitrate (as N)	mg/L	52.8	66.2	69.8
Sulfate	mg/L	6.2	<5.0	7.5
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB 71, H-Area Seepage Basins

SRP Grid	N 72875.9			ft (msl)
Coordinates	E 55279.2	Screen Zone Elevation		234.8 - 204.8
Latitude	33.277148° N	Top of Casing Elevation		241.4
Longitude	81.662799° W	Casing Material		PVC

Parameter	Units	01/24/88	04/09/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.7	222	222.3	221.9
pH	pH	3.6	5.1	4.9	4.7
Conductivity	µmhos/cm	205	128	105	85
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	17.4	<3.0	6.2	0.7
Nonvolatile Beta	pCi/L	58.7	39.2	25.6	11.6
Total Radium	pCi/L	1.1	-	<1.0	-
Tritium	pCi/mL	8370	4510	2190	2510
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.024	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.98	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.119	0.066	0.189
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.027	0.050	0.110	0.187
Lead	mg/L	0.019	0.015	0.011	0.052
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.023	0.016	0.012	0.015
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Nickel	mg/L	<0.004	0.004	<0.004	0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	32.7	18.3	11.8	13.6
Total Phosphates	mg/L	-	0.040	<0.020	<0.020
Zinc	mg/L	0.063	0.026	0.031	0.035
Nitrate (as N)	mg/L	21.7	24.4	8.94	7.67
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.014
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 83A, H-Area Seepage Basins

SRP Grid	N 71638.3			ft (msl)
Coordinates	E 58604.1	Screen Zone Elevation		76.0 - 65.2
Latitude	33.279835° N	Top of Casing Elevation		237.3
Longitude	81.651640° W	Casing Material		PVC

Parameter	Units	02/20/88	05/01/88	07/05/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	171.7	171.7	171.2	170.8
pH	pH	6.9	6.9	6.9	6.7
Conductivity	µmhos/cm	215	210	190	184
Alkalinity	mg/L	81	87	82	80
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.6	<3.0	1.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	1.7	<2.0	1.2
Total Radium	pCi/L	<1.0	-	0.3	-
Tritium	pCi/mL	1.00	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.035	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	35.2	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	0.005	<0.004	0.004	<0.004
Copper	mg/L	-	0.006	0.004	0.028
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.022	0.023	0.018	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.005	<0.002	0.003	0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	0.006	0.005
Potassium	mg/L	1.01	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.04	1.75	1.75	2.30
Total Phosphates	mg/L	-	0.070	0.070	0.060
Zinc	mg/L	0.007	0.006	0.022	0.006
Nitrate (as N)	mg/L	0.20	0.18	0.12	0.08
Sulfate	mg/L	6.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 83B, H-Area Seepage Basins

SRP Grid Coordinates	N 71639.6 E 58594.9	Screen Zone Elevation	ft (msl)	132.1 - 121.2
Latitude	33.279823° N	Top of Casing Elevation		237.0
Longitude	81.651667° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/05/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.3	222.7	222.3	222.1
pH	pH	6.3	6.6	6.7	6.5
Conductivity	µmhos/cm	114	145	122	118
Alkalinity	mg/L	53	51	50	50
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	0.4	<3.0	<3.0
Nonvolatile Beta	pCi/L	1.5	1.6	1.0	2.0
Total Radium	pCi/L	<1.0	-	0.3	-
Tritium	pCi/mL	17.3	15.4	13.3	11.6
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.040	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	17.6	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	0.005	<0.004
Copper	mg/L	-	0.005	0.005	0.011
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.025	0.007	0.010	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.003	<0.002	<0.002	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.10	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.59	3.54	2.97	3.53
Total Phosphates	mg/L	-	0.470	0.480	0.490
Zinc	mg/L	0.009	0.015	0.028	0.024
Nitrate (as N)	mg/L	0.30	0.19	0.12	<0.05
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	11.8
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 83C, H-Area Seepage Basins

SRP Grid Coordinates	N 71636.9 E 58614.8	Screen Zone Elevation	ft (msl)	171.2 - 160.2
Latitude	33.279849° N	Top of Casing Elevation		237.1
Longitude	81.651609° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/04/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.1	224.7	224.5	224.1
pH	pH	5.2	5.2	5.4	4.7
Conductivity	µmhos/cm	22	29	23	24
Alkalinity	mg/L	4	4	3	3
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	0.6	<3.0	0.9
Nonvolatile Beta	pCi/L	1.4	1.4	<2.0	<2.0
Total Radium	pCi/L	<1.0	-	0.3	-
Tritium	pCi/mL	0.40	0.77	0.65	<0.70
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	<0.004	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.903	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	0.007	<0.004
Copper	mg/L	-	0.006	0.007	0.010
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.020	0.005	0.031	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.006	0.006	0.007	0.008
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.589	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.80	1.58	1.56	1.66
Total Phosphates	mg/L	-	0.070	0.080	0.070
Zinc	mg/L	0.012	0.012	0.031	0.016
Nitrate (as N)	mg/L	0.35	0.22	0.09	0.09
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 83D, H-Area Seepage Basins

SRP Grid Coordinates	N 71628.1 E 58601.7	Screen Zone Elevation	ft (msl)	228.7 - 198.7
Latitude	33.279809° N	Top of Casing Elevation		237.0
Longitude	81.651627° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/04/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.7	226.2	225.9	225.3
pH	pH	4.8	5.0	5.1	4.8
Conductivity	µmhos/cm	294	170	104	124
Alkalinity	mg/L	3	4	3	2
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	21.7	0.5	6.1	2.3
Nonvolatile Beta	pCi/L	56.4	11.1	21.3	15.3
Total Radium	pCi/L	2.7	-	1.1	-
Tritium	pCi/mL	7470	2670	1710	1540
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.051	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	3.34	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.006
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.011	0.034	0.047	0.049
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.081	0.041	0.036	0.058
Mercury	mg/L	0.0005	<0.0002	0.0006	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.724	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	59.8	27.7	15.0	23.2
Total Phosphates	mg/L	-	0.030	0.030	<0.020
Zinc	mg/L	0.012	0.012	0.008	0.016
Nitrate (as N)	mg/L	37.6	25.8	9.66	10.3
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	2.70	2.00	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 84A, H-Area Seepage Basins

SRP Grid Coordinates	N 71592.9 E 56351.0	Screen Zone Elevation	ft (msl)	75.6 - 64.4
Latitude	33.276059° N	Top of Casing Elevation		228.8
Longitude	81.657485° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/06/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	171.1	170.8	170.4	170.2
pH	pH	3.5	4.2	4.3	4.0
Conductivity	µmhos/cm	240	300	240	230
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	516	16.5	46.7	27.4
Nonvolatile Beta	pCi/L	6560	3370	5170	3920
Total Radium	pCi/L	42.8	-	13.2	-
Tritium	pCi/mL	19700	24200	18200	16400
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.062	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.55	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.008	0.010
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.033	0.032	0.034	0.023
Lead	mg/L	<0.006	<0.006	0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.389	0.325	0.228	0.268
Mercury	mg/L	<0.0002	<0.0002	0.0004	0.0003
Nickel	mg/L	0.010	0.007	0.007	0.007
Potassium	mg/L	2.44	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	27.2	30.7	25.8	25.0
Total Phosphates	mg/L	-	<0.020	0.060	0.040
Zinc	mg/L	0.041	0.026	0.024	0.049
Nitrate (as N)	mg/L	27.7	77.6	24.2	22.3
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.007	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 84B, H-Area Seepage Basins

SRP Grid	N 71603.3			ft (msl)
Coordinates	E 56352.4	Screen Zone Elevation		132.9 - 121.8
Latitude	33.276084° N	Top of Casing Elevation		228.9
Longitude	81.657501° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/06/88	10/11/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	211.5	210.9	211.1	210.7
pH	pH	9.5	8.8	8.8	8.3
Conductivity	µmhos/cm	175	240	191	188
Alkalinity	*mg/L*	*91*	*91*	*86*	*80*
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	<3.0	<3.0	2.0	1.2
Nonvolatile Beta	pCi/L	6.1	5.2	5.5	3.0
Total Radium	pCi/L	0.6	-	<1.0	-
Tritium	pCi/mL	192	279	282	263
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.041	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	36.3	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	0.004	0.013
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	<0.004	0.010	0.023	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	<0.002	0.004	0.003	0.007
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	*mg/L*	*<0.004*	*<0.004*	*<0.004*	*<0.004*
Potassium	mg/L	4.53	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	*mg/L*	<0.0020	-	-	-
Sodium	mg/L	5.55	4.42	4.61	4.13
Total Phosphates	mg/L	-	0.130	0.170	0.220
Zinc	mg/L	<0.002	0.005	0.005	0.058
Nitrate (as N)	mg/L	0.75	0.12	0.75	0.58
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.006	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 84D, H-Area Seepage Basins

SRP Grid	N 71583.9			ft (msl)
Coordinates	E 56349.9	Screen Zone Elevation		219.5 - 199.5
Latitude	33.276037° N	Top of Casing Elevation		228.8
Longitude	81.657470° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/06/88	10/11/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	219.8	219.8	220.3	219.8
pH	pH	3.8	4.3	4.5	4.4
Conductivity	µmhos/cm	105	110	96	99
Alkalinity	mg/L	0	0	86	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	65.7	1.8	36.5	6.8
Nonvolatile Beta	pCi/L	563	206	235	89.2
Total Radium	pCi/L	6.5	-	2.9	-
Tritium	pCi/mL	4210	4980	2450	2320
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.022	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.86	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	*<0.004*	*<0.004*	*<0.004*
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.015	0.032	0.014	<0.020
Lead	*mg/L*	*<0.006*	*<0.006*	*<0.006*	*<0.006*
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.083	0.060	0.041	0.038
Mercury	mg/L	<0.0002	<0.0002	0.0004	0.0004
Nickel	*mg/L*	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	11.8	13.7	9.65	12.7
Total Phosphates	mg/L	-	0.020	0.040	<0.020
Zinc	mg/L	0.047	0.017	0.007	0.014
Nitrate (as N)	mg/L	10.4	9.76	8.78	8.57
Sulfate	mg/L	22.5	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 84C, H-Area Seepage Basins

SRP Grid	N 71597.1			ft (msl)
Coordinates	E 56360.1	Screen Zone Elevation		181.8 - 170.9
Latitude	33.276083° N	Top of Casing Elevation		229.1
Longitude	81.657469° W	Casing Material		PVC

Parameter	Units	01/24/88	05/01/88	07/07/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215	214.5	214.8	214.4
pH	*pH*	*10.2*	*9.6*	*7.9*	*7.1*
Conductivity	µmhos/cm	94	125	88	92
Alkalinity	mg/L	43	42	33	30
TDS	mg/L	-	-	-	-
Gross Alpha	*pCi/L*	*<3.0*	*0.8*	*2.0*	*<3.0*
Nonvolatile Beta	pCi/L	8.9	5.4	8.6	4.7
Total Radium	pCi/L	0.4	-	<1.0	-
Tritium	pCi/mL	211	243	206	238
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.024	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	0.003	<0.002
Calcium	mg/L	13.0	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.004	<0.004	0.010
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.031	0.019	0.035	0.043
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	*<0.002*	*0.003*	*0.002*	*0.003*
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	3.71	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	4.90	4.29	4.02	3.71
Total Phosphates	*mg/L*	-	0.030	0.050	0.070
Zinc	mg/L	0.026	0.003	0.008	0.023
Nitrate (as N)	mg/L	1.23	0.84	1.32	1.10
Sulfate	mg/L	<5.0	-	-	-
Phenols	*mg/L*	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 85A, H-Area Seepage Basins

SRP Grid	N 73791.9			ft (msl)
Coordinates	E 58943.4	Screen Zone Elevation		71.1 - 61.1
Latitude	33.285152° N	Top of Casing Elevation		294.4
Longitude	81.654930° W	Casing Material		PVC

Parameter	Units	01/12/88	05/01/88	07/02/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	167.7	167.5	167.4	166.6
pH	*pH*	*6.9*	*7.0*	*6.7*	*6.5*
Conductivity	µmhos/cm	187	215	181	177
Alkalinity	mg/L	87	77	79	76
TDS	mg/L	-	-	126	-
Gross Alpha	pCi/L	1.5	1.6	1.8	1.5
Nonvolatile Beta	pCi/L	1.6	2.3	1.3	5.0
Total Radium	pCi/L	<1.0	-	<1.0	<1.0
Tritium	pCi/mL	1.30	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	-	<0.002	<0.002
Barium	mg/L	0.035	-	0.034	0.037
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	33.6	-	-	-
Chloride	mg/L	-	-	2.6	2.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.004	<0.004	0.012
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	<0.10	<0.10
Iron	mg/L	0.062	0.005	0.262	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	*mg/L*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.48	-	-	-
Selenium	*mg/L*	-	-	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	<0.0020	<0.0020
Sodium	mg/L	2.82	1.50	1.94	1.80
Total Phosphates	mg/L	-	0.080	0.140	0.140
Zinc	mg/L	0.002	0.003	0.007	0.012
Nitrate (as N)	mg/L	0.30	0.11	0.06	0.06
Sulfate	mg/L	6.2	-	6.3	6.8
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 85B, H-Area Seepage Basins

SRP Grid N 73789.3
Coordinates E 58953.3
Latitude 33.285162° N
Longitude 81.654898° W

Screen Zone Elevation ft (msl) 143.2 - 133.2
Top of Casing Elevation 294.5
Casing Material PVC

Parameter	Units	01/13/88	05/01/88	07/03/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.4	233.2	232.9	232.1
pH	pH	9.1	10.6	9.5	9.4
Conductivity	µmhos/cm	128	195	177	187
Alkalinity	mg/L	63	70	80	87
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.1	<3.0	1.2	<3.0
Nonvolatile Beta	pCi/L	15.9	3.9	2.7	2.9
Total Radium	pCi/L	0.8	-	0.4	0.4
Tritium	pCi/mL	2.30	<0.70	<0.70	0.26
Arsenic	mg/L	<0.002	-	<0.002	<0.002
Barium	mg/L	0.029	-	-	0.036
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	21.5	-	-	-
Chloride	mg/L	-	-	2.0	2.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.011
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	<0.10	<0.10
Iron	mg/L	0.038	0.012	0.080	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	2.65	-	-	-
Selenium	mg/L	-	-	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	<0.0020	<0.0020
Sodium	mg/L	10.4	9.43	6.45	7.24
Total Phosphates	mg/L	-	0.060	0.090	0.120
Zinc	mg/L	0.008	0.004	0.018	<0.002
Nitrate (as N)	mg/L	0.36	0.28	0.20	0.20
Sulfate	mg/L	<5.0	-	<5.0	<5.0
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 85C, H-Area Seepage Basins

SRP Grid N 73802.3
Coordinates E 58947.4
Latitude 33.285182° N
Longitude 81.654939° W

Screen Zone Elevation ft (msl) 224.2 - 214.2
Top of Casing Elevation 294.1
Casing Material PVC

Parameter	Units	01/12/88	05/01/88	07/31/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.7	239.1	238.2	237.5
pH	pH	4.9	4.9	4.9	4.1
Conductivity	µmhos/cm	26	28	28	28
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.9	0.8	1.4	2.1
Nonvolatile Beta	pCi/L	1.8	1.3	1.7	2.5
Total Radium	pCi/L	0.5	-	<1.0	0.5
Tritium	pCi/mL	3.20	1.45	1.52	2.49
Arsenic	mg/L	<0.002	-	<0.002	<0.002
Barium	mg/L	0.004	-	-	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.341	-	-	-
Chloride	mg/L	-	-	2.1	2.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.017	0.016	0.013
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	0.10	<0.10
Iron	mg/L	0.017	0.028	0.007	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.004	0.003	0.004	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	-	-	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	<0.0020	<0.0020
Sodium	mg/L	3.73	3.12	3.28	3.00
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	0.004	0.006	0.039	<0.002
Nitrate (as N)	mg/L	1.52	1.10	1.46	1.59
Sulfate	mg/L	<5.0	-	<5.0	<5.0
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 86A, H-Area Seepage Basins

SRP Grid N 72520.2
Coordinates E 55985.9
Latitude 33.277514° N
Longitude 81.660247° W

Screen Zone Elevation ft (msl) 73.9 - 63.1
Top of Casing Elevation 262.4
Casing Material PVC

Parameter	Units	01/12/88	04/26/88	07/20/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	167.4	167.2	166.6	166.5
pH	pH	6.7	6.7	6.4	6.4
Conductivity	µmhos/cm	131	140	133	129
Alkalinity	mg/L	52	47	46	45
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	2.0	1.6	<3.0	<3.0
Nonvolatile Beta	pCi/L	1.8	2.7	1.3	<2.0
Total Radium	pCi/L	1.2	-	<1.0	-
Tritium	pCi/mL	3.20	5.35	4.29	4.87
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.025	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	24.7	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	0.005	0.012
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.051	0.241	0.030	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	<0.002	0.002	0.017	0.003
Mercury	mg/L	<0.0002	<0.0002	0.0005	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	1.54	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.44	1.91	1.66	1.75
Total Phosphates	mg/L	-	0.150	0.280	0.190
Zinc	mg/L	0.005	0.007	0.006	0.008
Nitrate (as N)	mg/L	0.32	0.15	<0.05	0.10
Sulfate	mg/L	9.8	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.008	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB 86B, H-Area Seepage Basins

SRP Grid N 72519.0
Coordinates E 55976.9
Latitude 33.277497° N
Longitude 81.660269° W

Screen Zone Elevation ft (msl) 124.0 - 113.8
Top of Casing Elevation 261.9
Casing Material PVC

Parameter	Units	01/12/88	04/26/88	07/20/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.6	222.3	222.9	222.4
pH	pH	7.0	7.4	7.4	6.5
Conductivity	µmhos/cm	220	225	220	220
Alkalinity	mg/L	101	97	99	87
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.8	<3.0	1.7	<3.0
Nonvolatile Beta	pCi/L	2.0	0.9	1.5	<2.0
Total Radium	pCi/L	0.8	-	<1.0	-
Tritium	pCi/mL	3.80	1.82	3.15	<0.70
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.038	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	40.2	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.006	0.007	0.013
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.025	<0.004	0.026	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.004	0.007	0.003	0.003
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	0.615	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.94	2.46	2.16	2.14
Total Phosphates	mg/L	-	0.020	0.100	0.040
Zinc	mg/L	0.019	0.020	0.011	0.008
Nitrate (as N)	mg/L	0.37	0.12	<0.05	0.13
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB 86C, H-Area Seepage Basins

SRP Grid	N	72529.7		ft (msl)
Coordinates	E	55984.6	Screen Zone Elevation	199.4 - 189.4
Latitude		33.277533° N	Top of Casing Elevation	262.9
Longitude		81.660269° W	Casing Material	PVC

Parameter	Units	01/12/88	04/26/88	07/20/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.7	225.8	227.4	226.4
pH	pH	4.7	4.7	5.0	4.8
Conductivity	µmhos/cm	531	460	395	370
Alkalinity	mg/L	1	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	15.0	10.4	21.3	13.3
Nonvolatile Beta	pCi/L	133	17.2	24.6	79.9
Total Radium	pCi/L	7.0	-	3.6	-
Tritium	pCi/mL	27500	24100	18600	20200
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.024	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	0.005	0.003	0.003	0.004
Calcium	mg/L	4.80	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	<0.004	0.010
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.021	0.033	0.020	0.026
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	1.48	1.27	1.63	2.08
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.042	0.031	0.037	0.046
Potassium	mg/L	4.89	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	62.5	50.6	36.5	53.8
Total Phosphates	mg/L	-	0.050	<0.020	<0.020
Zinc	mg/L	0.040	0.019	0.010	0.020
Nitrate (as N)	mg/L	55.0	47.2	38.1	42.2
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.005	0.007	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB100C, H-Area Seepage Basins

SRP Grid	N	72077.2		ft (msl)
Coordinates	E	58806.5	Screen Zone Elevation	163.0 - 153.0
Latitude		33.281136° N	Top of Casing Elevation	260.2
Longitude		81.651960° W	Casing Material	PVC

Parameter	Units	02/10/88	04/10/88	07/04/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.6	226.3	226.1	225.5
pH	pH	5.9	5.9	5.7	5.1
Conductivity	µmhos/cm	39	40	38	35
Alkalinity	mg/L	9	8	7	8
TDS	mg/L	12	34	42	44
Gross Alpha	pCi/L	<3.0	<3.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	1.6	<2.0	<2.0	<2.0
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	4.00	2.60	89.5	61.7
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.006	<0.004	0.005	<0.004
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	4.01	2.83	3.10	8.15
Chloride	mg/L	2.6	2.8	2.7	3.1
Chromium	mg/L	<0.004	<0.004	0.006	<0.004
Copper	mg/L	<0.004	<0.004	0.006	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	0.11	<0.10	0.12
Iron	mg/L	0.011	0.020	0.015	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.387	0.366	0.423	0.610
Manganese	mg/L	0.018	0.006	0.006	0.004
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.005	<0.004	<0.004	<0.004
Potassium	mg/L	0.851	0.663	0.833	1.23
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	6.39	10.4	6.15	12.6
Silver	mg/L	<0.0020	<0.0020	0.0030	<0.0020
Sodium	mg/L	2.59	2.63	2.21	2.30
Total Phosphates	mg/L	0.550	0.890	0.470	0.410
Zinc	mg/L	0.023	0.012	0.022	0.017
Nitrate (as N)	mg/L	0.63	0.49	0.19	0.27
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.368
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB 86D, H-Area Seepage Basins

SRP Grid	N	72522.1		ft (msl)
Coordinates	E	55996.5	Screen Zone Elevation	236.6 - 206.6
Latitude		33.277536° N	Top of Casing Elevation	263.0
Longitude		81.660223° W	Casing Material	PVC

Parameter	Units	01/12/88	04/26/88	07/20/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.7	225.9	227.7	226.6
pH	pH	3.6	3.8	3.9	3.7
Conductivity	µmhos/cm	341	300	310	430
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	102	572	42.4	85.0
Nonvolatile Beta	pCi/L	5700	4830	3030	4040
Total Radium	pCi/L	34.5	-	15.6	-
Tritium	pCi/mL	20600	22000	16800	18800
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.059	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	0.004	<0.002	<0.002	<0.002
Calcium	mg/L	4.90	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.007	0.017
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.016	<0.004	0.030	0.023
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.348	0.005	0.208	0.386
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.016	<0.004	0.008	0.017
Potassium	mg/L	1.98	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	7.70	19.6	29.9	35.3
Total Phosphates	mg/L	-	<0.020	0.050	0.020
Zinc	mg/L	0.082	<0.002	0.050	0.092
Nitrate (as N)	mg/L	31.7	27.1	27.8	48.4
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: HSB100D, H-Area Seepage Basins

SRP Grid	N	72073.8		ft (msl)
Coordinates	E	58796.9	Screen Zone Elevation	236.9 - 216.9
Latitude		33.281113° N	Top of Casing Elevation	260.1
Longitude		81.651978° W	Casing Material	PVC

Parameter	Units	02/06/88	04/10/88	07/04/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234	233.9	233.3	232.6
pH	pH	6.3	5.7	5.7	5.1
Conductivity	µmhos/cm	68	67	64	54
Alkalinity	mg/L	11	7	8	6
TDS	mg/L	66	98	46	46
Gross Alpha	pCi/L	1.4	1.6	2.1	1.4
Nonvolatile Beta	pCi/L	4.2	3.9	6.2	3.6
Total Radium	pCi/L	0.5	0.4	<1.0	0.4
Tritium	pCi/mL	310	346	262	311
Arsenic	mg/L	<0.002	0.002	<0.002	<0.002
Barium	mg/L	0.005	0.009	0.012	0.013
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.17	1.57	2.88	7.62
Chloride	mg/L	3.4	5.1	3.1	4.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	0.013
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.365	0.022	0.188	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.296	0.278	0.332	0.867
Manganese	mg/L	0.031	0.035	0.038	0.036
Mercury	mg/L	0.0002	<0.0002	<0.0002	0.0003
Nickel	mg/L	<0.004	<0.004	0.018	0.020
Potassium	mg/L	0.504	-	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.73	5.99	3.19	6.80
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.20	8.96	9.15	6.09
Total Phosphates	mg/L	0.030	0.150	0.020	<0.020
Zinc	mg/L	0.031	0.019	0.048	0.076
Nitrate (as N)	mg/L	2.63	4.00	3.34	3.28
Sulfate	mg/L	7.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.010	<0.005	0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB101C, H-Area Seepage Basins

SRP Grid	N 72001.9		ft (msl)
Coordinates	E 58604.4	Screen Zone Elevation	176.3 - 166.3
Latitude	33.280640° N	Top of Casing Elevation	258.5
Longitude	81.652346° W	Casing Material	PVC

Parameter	Units	02/06/88	04/10/88	07/04/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.7	225.1	225.1	224.5
pH	pH	7.0	9.1	9.2	7.9
Conductivity	µmhos/cm	109	140	131	108
Alkalinity	mg/L	38	46	48	40
TDS	mg/L	82	90	94	70
Gross Alpha	pCi/L	1.3	1.6	1.9	< 3.0
Nonvolatile Beta	pCi/L	6.2	9.5	7.4	4.2
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	70.4	87.6	2.48	2.17
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	< 0.004	0.016	0.018	0.015
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	< 0.010	11.5	13.1	18.0
Chloride	mg/L	2.5	2.7	2.6	3.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	0.008
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.18	0.16	0.11	0.10
Iron	mg/L	< 0.004	0.017	0.024	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	< 0.002	0.272	0.320	1.38
Manganese	mg/L	< 0.002	0.014	0.017	0.013
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	0.018	< 0.004
Potassium	mg/L	3.33	0.691	5.22	4.63
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.72	7.82	4.92	11.0
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	< 0.01	9.47	7.53	6.78
Total Phosphates	mg/L	0.380	0.580	0.280	0.250
Zinc	mg/L	0.016	0.020	0.020	0.013
Nitrate (as N)	mg/L	1.44	1.41	1.66	1.28
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.646
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB102C, H-Area Seepage Basins

SRP Grid	N 71960.1		ft (msl)
Coordinates	E 58399.7	Screen Zone Elevation	176.7 - 166.7
Latitude	33.280213° N	Top of Casing Elevation	259.0
Longitude	81.652803° W	Casing Material	PVC

Parameter	Units	03/10/88	04/15/88	08/09/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.9	224.6	224	223.8
pH	pH	6.0	5.6	5.8	5.8
Conductivity	µmhos/cm	162	170	201	194
Alkalinity	mg/L	9	8	26	10
TDS	mg/L	140	128	120	224
Gross Alpha	pCi/L	2.7	1.7	< 3.0	4.6
Nonvolatile Beta	pCi/L	8.7	5.5	9.6	9.2
Total Radium	pCi/L	0.9	< 1.0	0.7	1.3
Tritium	pCi/mL	7.90	246	232	330
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.014	0.101	0.017	0.020
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	4.63	3.22	4.03	4.48
Chloride	mg/L	2.9	4.9	5.3	5.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.008	0.020	0.049	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.14	0.998	1.06	1.39
Manganese	mg/L	0.064	0.036	0.052	0.083
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0010
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	2.39	2.41	4.57	3.95
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	7.69	4.71	4.75
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	22.6	14.8	22.2	24.4
Total Phosphates	mg/L	0.230	0.060	0.080	0.170
Zinc	mg/L	0.013	0.017	0.027	0.011
Nitrate (as N)	mg/L	15.8	10.2	15.4	15.6
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB101D, H-Area Seepage Basins

SRP Grid	N 71997.5		ft (msl)
Coordinates	E 58594.8	Screen Zone Elevation	236.1 - 216.1
Latitude	33.280614° N	Top of Casing Elevation	258.7
Longitude	81.652362° W	Casing Material	PVC

Parameter	Units	02/06/88	04/12/88	07/04/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.6	231.4	231	230.2
pH	pH	9.1	9.4	8.7	7.3
Conductivity	µmhos/cm	999	1400	950	1000
Alkalinity	mg/L	78	71	75	81
TDS	mg/L	706	968	681	721
Gross Alpha	pCi/L	37.0	< 6.0	25.3	< 3.0
Nonvolatile Beta	pCi/L	85.1	154	80.1	113
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	20600	1670	21300	2160
Arsenic	mg/L	0.015	0.020	0.016	0.027
Barium	mg/L	< 0.004	0.004	< 0.004	< 0.004
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.271	0.498	0.603	0.278
Chloride	mg/L	2.6	2.1	2.5	2.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	0.046	-	-
Fluoride	mg/L	0.24	0.10	0.23	0.25
Iron	mg/L	0.022	0.051	0.032	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.077	0.202	0.133	0.177
Manganese	mg/L	< 0.002	0.016	0.006	0.010
Mercury	mg/L	0.0131	0.0150	0.0120	0.0101
Nickel	mg/L	0.005	< 0.004	< 0.004	0.006
Potassium	mg/L	0.614	0.936	< 0.500	0.857
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	2.91	3.71	1.67	4.40
Silver	mg/L	< 0.0020	< 0.0020	0.0030	< 0.0020
Sodium	mg/L	219	0.23	157	203
Total Phosphates	mg/L	0.900	0.750	0.980	0.850
Zinc	mg/L	0.015	0.061	0.007	0.010
Nitrate (as N)	mg/L	84.0	138	97.8	93.1
Sulfate	mg/L	5.0	6.5	6.7	16.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.021	0.022	0.016	0.006
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	0.050	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB102D, H-Area Seepage Basins

SRP Grid	N 71952.4		ft (msl)
Coordinates	E 58393.4	Screen Zone Elevation	236.3 - 216.3
Latitude	33.280186° N	Top of Casing Elevation	258.6
Longitude	81.652805° W	Casing Material	PVC

Parameter	Units	03/10/88	04/15/88	08/09/88	10/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	224.4	226.3	-
pH	pH	5.8	5.3	4.3	4.2
Conductivity	µmhos/cm	774	833	856	853
Alkalinity	mg/L	15	6	0	0
TDS	mg/L	598	582	579	646
Gross Alpha	pCi/L	61.1	32.5	100	25.4
Nonvolatile Beta	pCi/L	4160	5320	10300	1960
Total Radium	pCi/L	11.3	6.5	22.8	24.6
Tritium	pCi/mL	30000	23700	30600	41600
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.090	0.100	0.180	0.115
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	0.002	< 0.002
Calcium	mg/L	20.5	20.6	44.4	19.1
Chloride	mg/L	1.8	4.7	4.0	3.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.009	0.029	0.015
Cyanide	mg/L	-	0.012	-	-
Fluoride	mg/L	< 0.10	0.13	0.45	0.36
Iron	mg/L	1.11	1.99	1.64	0.704
Lead	mg/L	< 0.006	0.018	0.054	0.012
Magnesium	mg/L	3.24	3.01	3.89	3.78
Manganese	mg/L	0.935	1.10	1.91	1.01
Mercury	mg/L	< 0.0002	< 0.0002	0.0017	0.0004
Nickel	mg/L	0.033	0.054	0.047	0.023
Potassium	mg/L	< 0.500	4.35	7.18	20.0
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	10.6	8.08	8.94
Silver	mg/L	< 0.0020	0.0370	< 0.0020	< 0.0020
Sodium	mg/L	122	84.8	101	59.4
Total Phosphates	mg/L	0.670	0.060	< 0.020	0.080
Zinc	mg/L	0.601	0.282	0.302	0.163
Nitrate (as N)	mg/L	75.5	92.3	16.4	98.8
Sulfate	mg/L	5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	2.50	1.30	1.10	1.10
Tot. Org. Halogens	mg/L	0.015	0.006	0.016	0.010
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB103C, H-Area Seepage Basins

SRP Grid	N 71593.9		
Coordinates	E 58323.6	Screen Zone Elevation	ft (msl) 169.2 - 159.2
Latitude	33.279279° N	Top of Casing Elevation	247.4
Longitude	81.652293° W	Casing Material	PVC

Parameter	Units	02/02/88	04/12/88	07/09/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.1	223.6	223.4	223
pH	pH	5.2	5.4	5.2	4.9
Conductivity	µmhos/cm	226	240	220	230
Alkalinity	mg/L	2	4	1	0
TDS	mg/L	174	198	186	182
Gross Alpha	pCi/L	7.4	11.5	11.6	7.7
Nonvolatile Beta	pCi/L	18.9	29.9	24.6	21.6
Total Radium	pCi/L	1.7	2.0	1.6	2.1
Tritium	pCi/mL	880	941	911	895
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.061	0.065	0.058	0.058
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	7.71	5.99	7.51	11.2
Chloride	mg/L	3.6	4.7	4.4	7.7
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	0.10	< 0.10	< 0.10
Iron	mg/L	0.068	0.013	0.008	0.030
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	4.26	4.22	4.21	0.462
Manganese	mg/L	0.308	0.029	0.320	0.368
Mercury	mg/L	0.0002	0.0007	0.0004	0.0018
Nickel	mg/L	0.006	0.007	0.040	0.008
Potassium	mg/L	2.48	3.44	3.37	3.36
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.92	7.52	4.52	9.50
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	243	291	25.3	24.2
Total Phosphates	mg/L	0.060	0.050	< 0.020	< 0.020
Zinc	mg/L	0.036	0.027	0.024	0.039
Nitrate (as N)	mg/L	22.0	23.8	18.4	21.5
Sulfate	mg/L	[illegible]	[illegible]	5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.018	0.006	0.009	0.938
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB104C, H-Area Seepage Basins

SRP Grid	N 71376.8		
Coordinates	E 58082.6	Screen Zone Elevation	ft (msl) 173.5 - 163.5
Latitude	33.278406° N	Top of Casing Elevation	247.9
Longitude	81.652506° W	Casing Material	PVC

Parameter	Units	02/06/88	04/12/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221	220.7	220.6	220.1
pH	pH	8.9	9.3	9.8	9.9
Conductivity	µmhos/cm	214	235	230	210
Alkalinity	mg/L	66	56	55	55
TDS	mg/L	156	150	146	150
Gross Alpha	pCi/L	3.4	< 3.0	6.7	3.7
Nonvolatile Beta	pCi/L	19.5	24.2	30.9	23.7
Total Radium	pCi/L	0.5	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	517	421	628	483
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.005	0.026	0.027	0.026
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.131	10.9	15.0	18.4
Chloride	mg/L	3.6	3.8	3.4	4.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.15	< 0.10	0.13	0.13
Iron	mg/L	0.024	0.012	0.024	0.024
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.027	0.563	0.451	0.174
Manganese	mg/L	< 0.002	0.016	0.018	0.024
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	0.0003
Nickel	mg/L	0.006	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.04	10.4	11.7	12.4
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.59	8.13	5.13	10.9
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	0.22	0.02	23.2	19.7
Total Phosphates	mg/L	0.100	0.140	0.090	0.040
Zinc	mg/L	0.023	0.002	< 0.002	0.024
Nitrate (as N)	mg/L	3.83	12.8	7.17	5.33
Sulfate	mg/L	14.0	12.0	10.4	7.6
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	0.012	< 0.005	0.349
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB103D, H-Area Seepage Basins

SRP Grid	N 71588.1		
Coordinates	E 58315.6	Screen Zone Elevation	ft (msl) 233.7 - 213.7
Latitude	33.279253° N	Top of Casing Elevation	247.6
Longitude	81.652302° W	Casing Material	PVC

Parameter	Units	02/02/88	04/12/88	07/09/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	227.1	226.8	226.6	226
pH	pH	4.3	4.3	4.2	4.0
Conductivity	µmhos/cm	277	340	375	310
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	178	234	247	227
Gross Alpha	pCi/L	62.0	34.1	31.5	41.2
Nonvolatile Beta	pCi/L	861	721	712	604
Total Radium	pCi/L	12.6	8.3	12.0	15.9
Tritium	pCi/mL	1750	24100	2480	282
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.046	0.052	0.047	0.066
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.70	1.19	1.99	1.48
Chloride	mg/L	2.1	5.2	5.9	5.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.005	0.006	0.005
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.11	0.20	0.20	< 0.10
Iron	mg/L	0.062	0.052	0.062	0.048
Lead	mg/L	< 0.006	< 0.006	< 0.006	0.010
Magnesium	mg/L	1.66	1.81	2.18	1.96
Manganese	mg/L	0.010	0.099	0.078	0.052
Mercury	mg/L	0.0006	0.0009	0.0026	0.0027
Nickel	mg/L	0.009	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.54	1.84	2.68	2.08
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.27	6.39	4.06	8.30
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	42.0	0.04	50.7	48.0
Total Phosphates	mg/L	0.050	0.040	0.020	< 0.020
Zinc	mg/L	0.063	0.029	0.022	0.016
Nitrate (as N)	mg/L	25.8	43.6	39.7	35.0
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.025	0.009	0.009	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB104D, H-Area Seepage Basins

SRP Grid	N 71370.2		
Coordinates	E 58075.8	Screen Zone Elevation	ft (msl) 230.6 - 210.6
Latitude	33.278380° N	Top of Casing Elevation	247.8
Longitude	81.652511° W	Casing Material	PVC

Parameter	Units	02/06/88	04/12/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.4	226.2	226.2	225.5
pH	pH	3.9	3.6	4.1	3.8
Conductivity	µmhos/cm	551	580	590	500
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	342	322	312	263
Gross Alpha	pCi/L	147	94.5	79.6	90.1
Nonvolatile Beta	pCi/L	8400	8660	12800	7490
Total Radium	pCi/L	56.4	28.9	33.0	38.4
Tritium	pCi/mL	20600	98000	14700	1360
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	0.003
Barium	mg/L	0.119	0.094	0.055	0.108
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.004	< 0.002	< 0.002	< 0.002
Calcium	mg/L	4.48	2.38	5.03	3.89
Chloride	mg/L	3.1	2.8	2.7	3.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.016	0.016	0.006	0.017
Cyanide	mg/L	-	0.034	-	-
Fluoride	mg/L	0.48	0.53	0.71	0.44
Iron	mg/L	0.149	0.125	0.065	0.122
Lead	mg/L	0.013	< 0.006	< 0.006	0.009
Magnesium	mg/L	2.01	1.12	1.50	1.70
Manganese	mg/L	0.889	0.803	0.109	0.938
Mercury	mg/L	0.0093	0.0052	0.0087	0.0066
Nickel	mg/L	0.026	0.015	0.005	0.019
Potassium	mg/L	1.95	1.69	1.95	1.33
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.73	8.99	6.27	11.4
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	75.4	0.05	57.3	41.3
Total Phosphates	mg/L	0.110	0.050	0.050	0.070
Zinc	mg/L	0.068	0.058	0.026	0.053
Nitrate (as N)	mg/L	65.6	62.8	62.5	50.2
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	10.1
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.012	0.008	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB105C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71447.3			
Coordinates	E 57883.8	Screen Zone Elevation		162.2 - 152.2
Latitude	33.278237° N	Top of Casing Elevation		249.5
Longitude	81.653166° W	Casing Material		PVC

Parameter	Units	02/02/88	04/13/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.1	219.6	219.6	219.2
pH	pH	6.4	6.0	6.0	5.9
Conductivity	µmhos/cm	74	82	75	78
Alkalinity	mg/L	17	15	15	14
TDS	mg/L	76	70	66	64
Gross Alpha	pCi/L	1.2	1.1	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	3.4	2.6	2.9	2.0
Total Radium	pCi/L	1.1	0.4	< 1.0	< 1.0
Tritium	pCi/mL	96.6	108	92.1	94.4
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.007	0.007	0.005	0.006
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.011	< 0.002	< 0.002	< 0.002
Calcium	mg/L	8.13	6.97	7.47	12.7
Chloride	mg/L	1.7	3.1	3.2	3.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	0.008	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	0.11	0.13	< 0.10
Iron	mg/L	0.009	0.020	0.011	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.743	0.832	0.766	0.707
Manganese	mg/L	0.019	0.020	0.013	0.011
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.004	0.005	< 0.004	0.004
Potassium	mg/L	1.04	1.39	1.66	2.28
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.44	8.39	5.39	10.8
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.62	< 0.01	2.91	3.10
Total Phosphates	mg/L	0.040	< 0.020	0.170	0.110
Zinc	mg/L	0.021	0.026	0.023	0.033
Nitrate (as N)	mg/L	2.92	9.04	2.76	2.54
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	0.011
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB106C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71720.9			
Coordinates	E 57651.5	Screen Zone Elevation		168.7 - 158.7
Latitude	33.278464° N	Top of Casing Elevation		252.9
Longitude	81.654309° W	Casing Material		PVC

Parameter	Units	02/02/88	04/12/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.4	222	222.1	221.5
pH	pH	6.9	6.5	6.2	6.1
Conductivity	µmhos/cm	151	131	126	140
Alkalinity	mg/L	25	25	18	16
TDS	mg/L	106	100	97	44
Gross Alpha	pCi/L	1.9	2.2	2.7	1.7
Nonvolatile Beta	pCi/L	11.9	11.1	8.8	7.1
Total Radium	pCi/L	< 1.0	0.4	< 1.0	0.7
Tritium	pCi/mL	410	433	384	372
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.026	0.024	0.027	0.023
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	8.44	9.40	7.77	14.6
Chloride	mg/L	2.4	3.8	3.8	4.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.006	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.005	0.012	0.009	0.014
Lead	mg/L	< 0.006	0.009	< 0.006	< 0.006
Magnesium	mg/L	0.929	1.03	1.14	1.97
Manganese	mg/L	0.011	0.016	0.020	0.018
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0004
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	6.97	5.36	4.24	3.52
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.33	6.39	4.59	9.70
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	11.3	9.29	10.5	9.12
Total Phosphates	mg/L	0.060	0.080	0.040	< 0.020
Zinc	mg/L	0.013	0.027	0.010	0.055
Nitrate (as N)	mg/L	7.40	20.0	8.46	6.96
Sulfate	mg/L	5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.007	0.006	0.048	0.246
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB105D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71454.8			
Coordinates	E 57877.4	Screen Zone Elevation		231.8 - 211.8
Latitude	33.278244° N	Top of Casing Elevation		249.5
Longitude	81.653197° W	Casing Material		PVC

Parameter	Units	02/02/88	04/13/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.9	226.6	226.8	226
pH	pH	3.8	4.1	4.2	3.8
Conductivity	µmhos/cm	365	420	590	570
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	198	244	359	308
Gross Alpha	pCi/L	171	28.4	32.7	22.0
Nonvolatile Beta	pCi/L	3950	1920	2940	1160
Total Radium	pCi/L	22.6	10.2	15.4	23.2
Tritium	pCi/mL	5360	37200	11100	11600
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.053	0.053	0.118	0.094
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.008	< 0.002	0.002	< 0.002
Calcium	mg/L	2.45	2.08	3.91	3.66
Chloride	mg/L	< 1.0	2.8	3.0	2.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.006	0.005	0.022	< 0.004
Cyanide	mg/L	-	0.013	-	-
Fluoride	mg/L	0.58	0.42	0.68	0.89
Iron	mg/L	0.025	0.041	0.136	0.047
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.15	1.33	2.27	3.06
Manganese	mg/L	0.283	0.301	1.35	0.502
Mercury	mg/L	0.0017	0.0020	0.0026	0.0038
Nickel	mg/L	0.009	0.006	0.024	0.009
Potassium	mg/L	1.25	1.19	1.51	1.53
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.72	5.65	3.49	6.80
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	40.4	0.05	54.1	57.1
Total Phosphates	mg/L	0.040	0.040	0.040	< 0.020
Zinc	mg/L	0.041	0.028	0.083	0.029
Nitrate (as N)	mg/L	39.8	52.8	63.4	56.9
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.00	< 1.000	1.10	1.00
Tot. Org. Halogens	mg/L	0.014	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB106D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71727.8			
Coordinates	E 57644.8	Screen Zone Elevation		230.7 - 210.7
Latitude	33.278468° N	Top of Casing Elevation		252.9
Longitude	81.654340° W	Casing Material		PVC

Parameter	Units	02/02/88	04/12/88	07/07/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	227.4	227.1	227.8	226.7
pH	pH	4.0	4.6	4.5	4.0
Conductivity	µmhos/cm	235	212	185	133
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	156	180	144	111
Gross Alpha	pCi/L	47.2	131	< 3.0	10.4
Nonvolatile Beta	pCi/L	2290	1010	1020	906
Total Radium	pCi/L	10.6	1.5	2.0	2.5
Tritium	pCi/mL	4900	1810	1710	1390
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.048	0.526	0.029	0.028
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.003	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.81	3.34	2.42	7.55
Chloride	mg/L	< 1.0	3.2	3.0	5.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.012	0.006	0.009	0.010
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.20	0.10	0.12	< 0.10
Iron	mg/L	0.017	0.094	0.062	0.066
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.06	0.873	0.780	0.885
Manganese	mg/L	0.207	0.021	0.202	0.197
Mercury	mg/L	0.0026	0.0027	0.0034	0.0025
Nickel	mg/L	0.025	0.016	0.010	0.011
Potassium	mg/L	1.01	0.931	0.617	0.662
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.89	10.5	6.88	13.2
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	28.0	30.6	23.0	17.5
Total Phosphates	mg/L	0.030	0.040	0.040	< 0.020
Zinc	mg/L	0.058	0.031	0.028	0.061
Nitrate (as N)	mg/L	< 0.05	22.7	19.2	12.9
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.036	0.021	0.019	0.015
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB107C, H-Area Seepage Basins

SRP Grid Coordinates	N 71698.5 E 57432.0	Screen Zone Elevation	ft (msl) 169.3 - 159.3
Latitude	33.278056° N	Top of Casing Elevation	261.6
Longitude	81.654844° W	Casing Material	PVC

Parameter	Units	02/10/88	04/13/88	07/09/88	10/02/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	220	219.7	220.1	219.5
pH	pH	6.8	6.7	6.7	6.5
Conductivity	µmhos/cm	291	300	250	235
Alkalinity	mg/L	125	112	111	94
TDS	mg/L	146	166	160	130
Gross Alpha	pCi/L	2.3	9.1	4.5	3.6
Nonvolatile Beta	pCi/L	13.3	37.2	21.6	18.2
Total Radium	pCi/L	< 1.0	< 1.0	0.4	0.4
Tritium	pCi/mL	402	613	914	953
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.061	0.065	0.062	0.059
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	20.2	21.0	18.2	27.5
Chloride	mg/L	3.1	2.2	2.9	3.7
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.009	< 0.004	0.006
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.17	0.17	0.15	0.13
Iron	mg/L	0.441	2.67	1.46	1.23
Lead	mg/L	< 0.006	0.006	< 0.006	< 0.006
Magnesium	mg/L	1.53	1.47	1.26	1.67
Manganese	mg/L	2.06	1.98	1.09	0.936
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0003
Nickel	mg/L	0.012	0.012	0.006	0.005
Potassium	mg/L	5.55	5.15	4.97	5.19
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.96	8.24	5.02	10.6
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	31.2	23.9	22.0	25.0
Total Phosphates	mg/L	0.380	0.310	0.290	0.240
Zinc	mg/L	0.016	0.010	0.014	0.024
Nitrate (as N)	mg/L	2.41	10.1	2.79	2.92
Sulfate	mg/L	5.0	< 5.0	< 5.0	5.0
Phenols	mg/L	0.014	0.007	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	8.40	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	*< 0.005*	*< 0.005*	*0.008*	*0.572*
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB108C, H-Area Seepage Basins

SRP Grid Coordinates	N 71688.7 E 57155.5	Screen Zone Elevation	ft (msl) 196.0 - 186.0
Latitude	33.277583° N	Top of Casing Elevation	266.2
Longitude	81.655553° W	Casing Material	PVC

Parameter	Units	02/15/88	04/13/88	07/09/88	10/02/88
Sampling Method	*NA*	*Pump*	*Pump*	*Pump*	*Pump*
Water Elevation	ft	219.4	218.9	224.4	218.8
pH	pH	7.2	7.1	6.8	6.6
Conductivity	µmhos/cm	249	220	200	187
Alkalinity	mg/L	121	97	89	85
TDS	mg/L	134	136	122	148
Gross Alpha	pCi/L	< 3.0	< 3.0	2.0	2.8
Nonvolatile Beta	pCi/L	20.8	37.1	7.5	6.7
Total Radium	pCi/L	0.9	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	339	198	1090	164
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.021	0.016	0.010	0.011
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	33.6	31.6	31.1	32.9
Chloride	mg/L	2.6	2.6	2.5	5.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.15	0.16	0.12	0.13
Iron	mg/L	1.45	0.220	0.049	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.71	1.44	1.24	1.43
Manganese	mg/L	0.575	0.273	0.078	0.049
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	0.0003
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	5.74	2.07	0.889	1.95
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.52	7.77	5.05	10.7
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	7.92	< 0.01	3.00	3.25
Total Phosphates	mg/L	0.550	0.300	0.290	0.280
Zinc	mg/L	0.008	0.007	0.023	0.014
Nitrate (as N)	mg/L	1.19	0.84	1.23	1.58
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.60	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	*< 0.005*	< 0.005	*< 0.005*	*0.007*
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB107D, H-Area Seepage Basins

SRP Grid Coordinates	N 71696.6 E 57412.2	Screen Zone Elevation	ft (msl) 235.1 - 215.1
Latitude	33.278019° N	Top of Casing Elevation	262.3
Longitude	81.654892° W	Casing Material	PVC

Parameter	Units	02/10/88	04/13/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.9	225.6	226.5	225.4
pH	pH	4.8	4.5	4.6	4.2
Conductivity	*µmhos/cm*	*452*	*480*	*410*	*360*
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	306	314	266	226
Gross Alpha	pCi/L	158	179	37.8	11.3
Nonvolatile Beta	pCi/L	7980	7850	10100	1910
Total Radium	pCi/L	43.2	18.4	22.5	20.5
Tritium	pCi/mL	37400	30000	19200	19300
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.093	0.096	0.090	0.114
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	*mg/L*	4.20	3.46	4.15	4.92
Chloride	mg/L	2.6	3.0	3.0	4.3
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.30	0.30	0.39	0.19
Iron	mg/L	0.060	0.032	0.065	0.039
Lead	mg/L	0.008	< 0.006	< 0.006	0.006
Magnesium	mg/L	2.49	2.42	6.56	2.42
Manganese	mg/L	0.342	0.413	0.363	0.379
Mercury	mg/L	0.0005	0.0028	0.0028	0.0025
Nickel	*mg/L*	0.012	0.012	0.010	0.009
Potassium	mg/L	2.68	3.28	2.48	2.50
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.28	6.29	3.78	8.30
Silver	*mg/L*	*< 0.0020*	*< 0.0020*	*< 0.0020*	*< 0.0020*
Sodium	mg/L	66.5	0.05	50.5	40.7
Total Phosphates	mg/L	0.090	0.050	0.030	< 0.020
Zinc	mg/L	0.051	0.055	0.048	0.051
Nitrate (as N)	mg/L	51.2	48.4	46.3	14.9
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.018	0.005	0.006	0.074
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	*mg/L*	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB108D, H-Area Seepage Basins

SRP Grid Coordinates	N 71688.0 E 57145.6	Screen Zone Elevation	ft (msl) 232.0 - 212.0
Latitude	33.277566° N	Top of Casing Elevation	266.3
Longitude	81.655577° W	Casing Material	PVC

Parameter	Units	02/10/88	04/13/88	07/09/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.9	224.6	225.9	224.7
pH	pH	4.6	4.5	4.4	4.2
Conductivity	*µmhos/cm*	*273*	*295*	*280*	*250*
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	170	200	36	171
Gross Alpha	pCi/L	60.2	20.9	17.3	20.9
Nonvolatile Beta	pCi/L	4910	5100	4090	4080
Total Radium	pCi/L	31.1	9.3	7.5	9.3
Tritium	pCi/mL	14400	16200	13100	12000
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.037	0.041	0.044	0.043
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	*mg/L*	3.16	3.69	3.82	3.24
Chloride	mg/L	2.8	3.5	2.6	2.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.006	0.004	0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.15	0.25	0.25	0.29
Iron	mg/L	0.043	0.051	0.056	0.022
Lead	mg/L	< 0.006	0.008	< 0.006	< 0.006
Magnesium	mg/L	1.06	1.51	1.49	1.16
Manganese	mg/L	0.327	0.475	0.452	0.423
Mercury	mg/L	0.0007	0.0021	0.0030	0.0024
Nickel	mg/L	0.021	0.017	0.014	0.014
Potassium	mg/L	1.13	1.49	1.60	1.31
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.34	6.81	4.00	8.50
Silver	*mg/L*	*< 0.0020*	*< 0.0020*	*< 0.0020*	*< 0.0020*
Sodium	mg/L	45.7	29.3	36.0	30.3
Total Phosphates	mg/L	0.080	0.050	0.030	< 0.020
Zinc	mg/L	0.040	0.045	0.034	0.045
Nitrate (as N)	mg/L	28.3	34.3	32.4	24.7
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.005	0.014	0.007	0.026
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	*mg/L*	-	*< 0.005*	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB109C, H-Area Seepage Basins

SRP Grid	N 71684.8			ft (msl)
Coordinates	E 56895.6	Screen Zone Elevation		178.4 - 168.4
Latitude	33.277151° N	Top of Casing Elevation		261.6
Longitude	81.656229° W	Casing Material		PVC

Parameter	Units	02/01/88	04/14/88	07/16/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.1	219.1	219.6	219.1
pH	pH	6.7	6.5	6.1	5.8
Conductivity	µmhos/cm	85	77	62	60
Alkalinity	mg/L	51	22	18	15
TDS	mg/L	68	66	54	80
Gross Alpha	pCi/L	1.0	1.2	1.2	1.0
Nonvolatile Beta	pCi/L	6.6	6.1	3.6	3.8
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	87.7	104	85.1	78.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.019	0.019	0.022	0.015
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	8.06	6.03	6.06	5.76
Chloride	mg/L	1.1	2.7	2.9	3.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	0.11	0.13	< 0.10
Iron	mg/L	0.039	0.011	0.051	0.073
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.433	0.401	0.285	0.394
Manganese	mg/L	0.020	0.013	0.012	0.037
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.52	-	1.37	1.60
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.45	7.54	4.65	9.90
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	7.28	< 0.01	5.76	5.49
Total Phosphates	mg/L	0.210	0.220	0.240	0.310
Zinc	mg/L	0.015	0.017	0.013	0.202
Nitrate (as N)	mg/L	1.26	1.46	1.27	1.33
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.008	0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB110C, H-Area Seepage Basins

SRP Grid	N 71779.3			ft (msl)
Coordinates	E 56680.7	Screen Zone Elevation		181.4 - 171.4
Latitude	33.277009° N	Top of Casing Elevation		255.7
Longitude	81.656979° W	Casing Material		PVC

Parameter	Units	02/08/88	04/12/88	07/10/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.2	219.7	220.1	219.7
pH	pH	6.0	5.9	5.8	5.4
Conductivity	µmhos/cm	136	53	43	38
Alkalinity	mg/L	35	8	9	7
TDS	mg/L	138	80	50	42
Gross Alpha	pCi/L	6.1	3.9	2.2	1.4
Nonvolatile Beta	pCi/L	7.5	3.3	3.1	3.0
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	0.5
Tritium	pCi/mL	155	92.1	86.6	93.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.005	0.005	0.005	0.006
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	< 0.010	1.13	1.04	1.27
Chloride	mg/L	3.1	2.7	2.5	3.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.015	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.12	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.007	0.023	0.018	0.035
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	< 0.002	0.225	0.248	0.247
Manganese	mg/L	< 0.002	0.018	0.016	0.016
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.084	< 0.004	< 0.004	< 0.004
Potassium	mg/L	2.13	< 0.500	0.505	0.634
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.39	8.17	5.01	10.6
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	< 0.01	7.63	5.00	4.59
Total Phosphates	mg/L	0.040	0.160	0.060	0.110
Zinc	mg/L	0.072	0.009	0.008	0.011
Nitrate (as N)	mg/L	1.33	9.08	0.85	0.82
Sulfate	mg/L	16.0	6.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.005	0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB109D, H-Area Seepage Basins

SRP Grid	N 71685.6			ft (msl)
Coordinates	E 56885.5	Screen Zone Elevation		233.0 - 213.0
Latitude	33.277136° N	Top of Casing Elevation		261.2
Longitude	81.656257° W	Casing Material		PVC

Parameter	Units	02/01/88	04/14/88	07/16/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.3	223.8	225.1	224
pH	pH	5.5	5.1	5.0	4.8
Conductivity	µmhos/cm	44	74	39	40
Alkalinity	mg/L	3	1	0	0
TDS	mg/L	24	52	52	42
Gross Alpha	pCi/L	10.4	< 3.0	6.3	< 3.0
Nonvolatile Beta	pCi/L	94.3	131	124	106
Total Radium	pCi/L	0.7	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	2770	2570	205	451
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.010	0.011	0.011	0.009
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.27	1.61	1.60	6.31
Chloride	mg/L	< 1.0	3.5	2.7	3.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.037	0.013	0.121	0.051
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.401	0.719	0.574	0.470
Manganese	mg/L	0.003	0.151	0.127	0.097
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.009	0.009	0.011	0.007
Potassium	mg/L	< 0.500	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.42	5.45	3.04	6.60
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.97	7.73	4.45	4.60
Total Phosphates	mg/L	0.030	0.030	< 0.020	< 0.020
Zinc	mg/L	0.074	0.021	0.016	0.021
Nitrate (as N)	mg/L	3.16	9.52	2.85	2.45
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.007	< 0.005	0.006	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB111C, H-Area Seepage Basins

SRP Grid	N 71919.4			ft (msl)
Coordinates	E 56501.9	Screen Zone Elevation		150.7 - 140.7
Latitude	33.277027° N	Top of Casing Elevation		256.0
Longitude	81.657722° W	Casing Material		PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.4	220.8	221.7	221.1
pH	pH	5.6	5.2	4.9	4.7
Conductivity	µmhos/cm	175	205	193	195
Alkalinity	mg/L	3	1	1	0
TDS	mg/L	154	154	112	144
Gross Alpha	pCi/L	1.8	< 3.0	< 3.0	1.3
Nonvolatile Beta	pCi/L	58.0	61.2	25.2	54.0
Total Radium	pCi/L	< 1.0	0.8	0.8	0.5
Tritium	pCi/mL	2330	2320	2170	2890
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.021	0.020	0.020	0.023
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	13.3	15.6	13.7	22.2
Chloride	mg/L	3.6	4.1	4.0	5.4
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.006	0.004	0.010
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.13	0.16	0.20	0.12
Iron	mg/L	0.010	0.026	0.042	0.085
Lead	mg/L	< 0.006	0.006	< 0.006	< 0.006
Magnesium	mg/L	2.71	3.00	7.48	2.86
Manganese	mg/L	0.524	0.049	0.044	0.039
Mercury	mg/L	< 0.0002	< 0.0002	0.0005	< 0.0002
Nickel	mg/L	0.011	0.007	0.005	0.010
Potassium	mg/L	1.03	1.02	0.756	0.999
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.97	7.28	4.71	9.70
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	13.3	11.5	11.1	19.2
Total Phosphates	mg/L	0.190	0.170	0.140	0.100
Zinc	mg/L	0.041	0.030	0.036	0.021
Nitrate (as N)	mg/L	18.6	18.0	20.6	20.4
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB111D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N	71926.2		
Coordinates	E	56494.5	Screen Zone Elevation	195.7 - 185.7
Latitude		33.277030° N	Top of Casing Elevation	256.0
Longitude		81.657754° W	Casing Material	PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.5	223.2	224.9	223.7
pH	pH	4.9	4.9	4.8	4.8
Conductivity	µmhos/cm	660	700	670	670
Alkalinity	mg/L	1	1	1	0
TDS	mg/L	466	514	93	164
Gross Alpha	pCi/L	22.8	14.5	< 3.0	14.1
Nonvolatile Beta	pCi/L	253	230	215	118
Total Radium	pCi/L	5.4	5.4	6.7	6.4
Tritium	pCi/mL	16900	16300	16300	19400
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.072	0.060	0.073	0.076
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	13.4	10.1	10.4	9.38
Chloride	mg/L	5.3	5.0	4.7	4.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.005	< 0.004	0.013
Cyanide	mg/L	-	0.029	-	-
Fluoride	mg/L	0.18	0.18	0.23	0.14
Iron	mg/L	0.031	0.057	0.096	0.051
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	4.28	3.91	10.6	4.09
Manganese	mg/L	0.230	0.111	0.119	0.099
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	0.008	0.008	< 0.004	0.014
Potassium	mg/L	1.21	1.35	0.868	1.38
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.66	7.25	4.19	8.70
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	127	64.7	96.4	99.8
Total Phosphates	mg/L	0.100	0.020	0.020	< 0.020
Zinc	mg/L	0.039	0.028	0.037	0.021
Nitrate (as N)	mg/L	74.8	71.6	79.1	73.2
Sulfate	mg/L	< 5.0	10.6	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB112C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N	72156.4		
Coordinates	E	56417.4	Screen Zone Elevation	150.6 - 140.6
Latitude		33.277413° N	Top of Casing Elevation	254.9
Longitude		81.658404° W	Casing Material	PVC

Parameter	Units	02/07/88	04/13/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.9	222.3	223.5	222.6
pH	pH	7.2	6.9	6.2	6.1
Conductivity	µmhos/cm	210	240	225	250
Alkalinity	mg/L	24	20	17	16
TDS	mg/L	150	198	8	270
Gross Alpha	pCi/L	8.5	5.0	< 3.0	4.2
Nonvolatile Beta	pCi/L	18.8	70.4	62.2	52.2
Total Radium	pCi/L	< 1.0	0.9	0.8	1.9
Tritium	pCi/mL	2910	3260	2700	3160
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.048	0.056	0.055	0.048
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	17.4	18.4	16.0	17.5
Chloride	mg/L	3.2	3.5	3.5	3.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.006	0.006	< 0.004	0.006
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.15	0.17	0.22	< 0.10
Iron	mg/L	0.028	0.016	0.015	< 0.020
Lead	mg/L	< 0.006	0.021	< 0.006	< 0.006
Magnesium	mg/L	1.99	2.51	8.07	3.42
Manganese	mg/L	0.036	0.037	0.038	0.040
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.51	1.51	-	1.13
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.77	7.60	4.80	10.1
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	16.0	14.9	13.5	13.8
Total Phosphates	mg/L	0.100	0.360	0.360	0.390
Zinc	mg/L	0.030	0.024	0.021	0.022
Nitrate (as N)	mg/L	19.9	19.9	19.9	19.7
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB111E, H-Area Seepage Basins

				ft (msl)
SRP Grid	N	71932.8		
Coordinates	E	56487.2	Screen Zone Elevation	231.7 - 211.7
Latitude		33.277033° N	Top of Casing Elevation	255.9
Longitude		81.657786° W	Casing Material	PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.7	223.4	225.2	223.9
pH	pH	4.2	4.2	4.3	3.9
Conductivity	µmhos/cm	121	106	78	240
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	74	64	100	412
Gross Alpha	pCi/L	28.0	12.4	14.0	21.3
Nonvolatile Beta	pCi/L	2280	1770	3300	2440
Total Radium	pCi/L	16.7	6.9	8.6	6.2
Tritium	pCi/mL	9190	8240	54500	12500
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.021	0.016	0.028	0.040
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.47	1.11	1.89	3.19
Chloride	mg/L	2.5	3.8	4.0	4.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.010	0.004	0.009
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	0.16	0.15	0.52	0.48
Iron	mg/L	0.018	0.026	0.012	< 0.020
Lead	mg/L	< 0.006	0.006	< 0.006	< 0.006
Magnesium	mg/L	0.352	0.304	0.457	0.891
Manganese	mg/L	0.122	0.103	0.186	0.314
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	0.006	0.005	0.007	0.012
Potassium	mg/L	0.850	0.926	1.16	1.76
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.34	7.32	5.68	11.1
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	11.7	9.93	14.2	22.5
Total Phosphates	mg/L	0.090	0.020	0.030	< 0.020
Zinc	mg/L	0.032	0.023	0.032	0.036
Nitrate (as N)	mg/L	12.9	18.5	21.7	17.3
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB112D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N	72161.6		
Coordinates	E	56408.1	Screen Zone Elevation	198.3 - 188.3
Latitude		33.277410° N	Top of Casing Elevation	255.1
Longitude		81.658439° W	Casing Material	PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.5	224.5	226.5	225
pH	pH	5.3	5.1	4.8	4.7
Conductivity	µmhos/cm	483	520	480	455
Alkalinity	mg/L	2	0	0	0
TDS	mg/L	368	372	343	456
Gross Alpha	pCi/L	7.8	3.9	< 3.0	6.4
Nonvolatile Beta	pCi/L	104	88.2	126	61.2
Total Radium	pCi/L	1.3	1.4	2.1	1.6
Tritium	pCi/mL	26100	23200	18600	18400
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.016	0.017	0.017	0.017
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.67	2.16	1.47	1.61
Chloride	mg/L	1.4	1.5	1.9	5.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.004	< 0.004	< 0.004
Cyanide	mg/L	-	0.040	-	-
Fluoride	mg/L	< 0.10	< 0.10	0.16	0.10
Iron	mg/L	0.016	0.036	0.057	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.870	0.912	0.928	0.952
Manganese	mg/L	0.148	0.164	0.191	0.217
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	0.005	0.005	0.004	0.006
Potassium	mg/L	0.819	1.10	0.926	1.21
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.29	7.26	4.26	8.90
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	103	93.6	76.0	71.3
Total Phosphates	mg/L	0.130	0.040	0.020	0.030
Zinc	mg/L	0.017	0.031	0.011	0.017
Nitrate (as N)	mg/L	54.8	62.8	52.6	48.0
Sulfate	mg/L	8.0	8.3	7.0	17.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.005	0.006
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB112E, H-Area Seepage Basins

SRP Grid	N	72166.6		ft (msl)
Coordinates	E	56399.5	Screen Zone Elevation	231.7 - 211.7
Latitude		33.277407° N	Top of Casing Elevation	255.1
Longitude		81.658471° W	Casing Material	PVC

Parameter	Units	02/08/88	04/13/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.6	224.3	226.5	225
pH	pH	6.1	6.3	5.5	5.7
Conductivity	µmhos/cm	400	520	455	490
Alkalinity	mg/L	35	18	9	23
TDS	mg/L	278	370	342	324
Gross Alpha	pCi/L	7.9	12.1	<3.0	8.2
Nonvolatile Beta	pCi/L	274	246	346	279
Total Radium	pCi/L	2.6	3.1	2.0	2.1
Tritium	pCi/mL	24800	23400	20900	17400
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.049	0.047	0.074	0.073
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	10.1	9.89	7.86	8.46
Chloride	mg/L	3.3	5.0	3.3	2.9
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.019	<0.004	<0.004
Cyanide	mg/L	-	0.008	-	-
Fluoride	mg/L	<0.10	<0.10	0.10	<0.10
Iron	mg/L	0.063	0.027	0.110	<0.020
Lead	mg/L	<0.006	<0.006	0.010	<0.006
Magnesium	mg/L	1.52	1.32	1.74	1.58
Manganese	mg/L	0.400	0.423	0.803	0.855
Mercury	mg/L	<0.0002	<0.0002	0.0005	<0.0002
Nickel	mg/L	0.027	0.027	0.132	0.082
Potassium	mg/L	2.28	1.92	1.54	8.96
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	5.82	9.23	5.14	9.70
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	80.9	70.0	67.4	61.0
Total Phosphates	mg/L	0.330	0.150	0.070	0.050
Zinc	mg/L	0.190	0.084	0.076	0.066
Nitrate (as N)	mg/L	44.4	55.2	49.8	45.1
Sulfate	mg/L	5.0	5.1	<5.0	7.2
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.10	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.016	<0.005	0.005	0.025
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB113D, H-Area Seepage Basins

SRP Grid	N	72302.7		ft (msl)
Coordinates	E	56164.3	Screen Zone Elevation	236.2 - 216.2
Latitude		33.277324° N	Top of Casing Elevation	260.9
Longitude		81.659355° W	Casing Material	PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.6	224.6	226.6	225.4
pH	pH	4.2	4.1	3.9	3.7
Conductivity	µmhos/cm	209	266	405	480
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	166	196	289	322
Gross Alpha	pCi/L	26.0	18.2	38.4	61.9
Nonvolatile Beta	pCi/L	692	815	2020	1420
Total Radium	pCi/L	8.8	4.9	16.4	22.3
Tritium	pCi/mL	24400	22600	14400	23000
Arsenic	mg/L	<0.002	<0.002	<0.002	0.005
Barium	mg/L	0.050	0.051	0.091	0.074
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	39.5	3.10	8.32	7.57
Chloride	mg/L	1.6	1.8	2.8	3.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	0.008	0.010	0.011	0.016
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	0.25	0.23	0.77	0.87
Iron	mg/L	0.073	0.115	0.229	0.066
Lead	mg/L	0.012	0.010	0.013	0.010
Magnesium	mg/L	0.705	0.829	1.78	1.37
Manganese	mg/L	0.167	0.190	0.327	0.244
Mercury	mg/L	<0.0002	<0.0002	0.0005	<0.0002
Nickel	mg/L	0.013	0.018	0.026	0.015
Potassium	mg/L	1.51	1.50	-	2.15
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	12.0	11.7	13.3	28.2
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	27.2	0.03	35.9	33.3
Total Phosphates	mg/L	0.110	<0.020	<0.020	<0.020
Zinc	mg/L	0.101	0.059	0.132	0.151
Nitrate (as N)	mg/L	23.9	21.6	41.6	47.8
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.011	<0.005	0.007
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB113C, H-Area Seepage Basins

SRP Grid	N	72312.3		ft (msl)
Coordinates	E	56160.4	Screen Zone Elevation	161.7 - 151.7
Latitude		33.277339° N	Top of Casing Elevation	261.0
Longitude		81.659384° W	Casing Material	PVC

Parameter	Units	02/09/88	04/13/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.1	222.7	224.2	223
pH	pH	6.5	6.2	5.8	5.6
Conductivity	µmhos/cm	112	135	121	118
Alkalinity	mg/L	12	21	7	7
TDS	mg/L	80	108	82	136
Gross Alpha	pCi/L	6.3	10.5	10.2	2.6
Nonvolatile Beta	pCi/L	17.8	36.2	32.7	39.6
Total Radium	pCi/L	<1.0	0.5	0.6	1.0
Tritium	pCi/mL	959	1160	168	947
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.022	0.022	0.024	0.033
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	7.47	9.58	7.20	8.01
Chloride	mg/L	2.8	2.8	2.9	3.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.004	<0.004	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	0.10	<0.10
Iron	mg/L	0.009	0.019	0.030	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	1.27	1.47	1.67	1.80
Manganese	mg/L	0.042	0.048	0.050	0.048
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	2.43	2.25	1.94	2.79
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.89	7.54	4.38	9.30
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	9.11	8.56	8.70	8.50
Total Phosphates	mg/L	0.140	0.050	0.050	<0.020
Zinc	mg/L	0.024	0.016	0.027	0.014
Nitrate (as N)	mg/L	9.04	14.1	13.2	9.64
Sulfate	mg/L	5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB114C, H-Area Seepage Basins

SRP Grid	N	72464.6		ft (msl)
Coordinates	E	56107.0	Screen Zone Elevation	195.6 - 185.6
Latitude		33.277589° N	Top of Casing Elevation	263.8
Longitude		81.659820° W	Casing Material	PVC

Parameter	Units	01/31/88	04/12/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.5	225.1	227.7	226.1
pH	pH	4.9	4.9	4.8	4.7
Conductivity	µmhos/cm	629	654	650	635
Alkalinity	mg/L	1	2	0	0
TDS	mg/L	440	512	496	454
Gross Alpha	pCi/L	82.3	34.0	24.9	27.2
Nonvolatile Beta	pCi/L	314	285	223	152
Total Radium	pCi/L	13.4	12.2	8.0	8.5
Tritium	pCi/mL	16600	17500	15300	17300
Arsenic	mg/L	0.013	<0.002	<0.002	<0.002
Barium	mg/L	0.096	0.096	0.089	0.073
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	0.002	<0.002	0.002	0.002
Calcium	mg/L	13.9	11.8	11.6	11.9
Chloride	mg/L	5.8	6.4	6.1	7.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	0.006
Cyanide	mg/L	-	0.052	-	-
Fluoride	mg/L	0.16	0.18	0.23	0.17
Iron	mg/L	0.025	0.022	0.021	0.028
Lead	mg/L	0.008	<0.006	<0.006	<0.006
Magnesium	mg/L	6.37	6.38	13.4	5.48
Manganese	mg/L	0.284	0.322	0.353	0.333
Mercury	mg/L	0.0002	<0.0002	0.0007	<0.0002
Nickel	mg/L	0.013	0.017	0.033	0.021
Potassium	mg/L	2.04	1.69	0.950	1.09
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.57	7.11	4.17	8.70
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	94.8	0.09	86.6	86.6
Total Phosphates	mg/L	0.040	0.020	<0.020	<0.020
Zinc	mg/L	0.068	0.060	0.057	0.002
Nitrate (as N)	mg/L	71.4	71.2	73.8	69.8
Sulfate	mg/L	<5.0	<5.0	<5.0	10.3
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB114D, H-Area Seepage Basins

SRP Grid Coordinates	N 72474.2 E 56104.6		ft (msl)
Latitude	33.277606° N	Screen Zone Elevation	232.8 - 212.8
Longitude	81.659845° W	Top of Casing Elevation	264.0
		Casing Material	PVC

Parameter	Units	01/31/88	04/12/88	07/10/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.6	225.3	227.9	226.3
pH	pH	3.8	4.2	4.1	4.0
Conductivity	µmhos/cm	332	348	345	410
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	190	240	211	252
Gross Alpha	pCi/L	40.0	34.5	19.8	61.1
Nonvolatile Beta	pCi/L	1820	2660	2640	2530
Total Radium	pCi/L	31.0	12.7	14.6	32.5
Tritium	pCi/mL	23000	88500	18900	16900
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.074	0.066	0.082	0.082
Beryllium	mg/L		< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	6.39	4.88	4.74	3.23
Chloride	mg/L	< 1.0	1.8	2.0	2.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.007	0.009	0.008	0.011
Cyanide	mg/L	-	0.010	-	-
Fluoride	mg/L	0.58	0.48	0.74	0.83
Iron	mg/L	0.044	0.042	0.103	0.063
Lead	mg/L	0.011	0.007	< 0.006	< 0.006
Magnesium	mg/L	1.03	1.02	0.863	0.825
Manganese	mg/L	0.351	0.322	0.372	0.371
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	0.019	0.012	0.014	0.014
Potassium	mg/L	2.35	2.06	1.82	1.89
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	9.45	11.4	11.1	21.9
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	34.4	33.7	36.9	31.0
Total Phosphates	mg/L	0.050	< 0.020	0.030	< 0.020
Zinc	mg/L	0.133	0.069	0.075	0.070
Nitrate (as N)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.008	0.007	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB115D, H-Area Seepage Basins

SRP Grid Coordinates	N 72662.3 E 56039.8		ft (msl)
Latitude	33.277916° N	Screen Zone Elevation	233.9 - 213.9
Longitude	81.660381° W	Top of Casing Elevation	269.1
		Casing Material	PVC

Parameter	Units	02/01/88	04/13/88	07/19/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.6	226.3	229.2	227.4
pH	pH	6.4	6.6	5.8	6.0
Conductivity	µmhos/cm	303	311	340	360
Alkalinity	mg/L	34	33	25	20
TDS	mg/L	210	248	274	262
Gross Alpha	pCi/L	5.6	< 3.0	< 3.0	2.9
Nonvolatile Beta	pCi/L	222	295	370	253
Total Radium	pCi/L	3.4	1.6	1.3	1.0
Tritium	pCi/mL	17800	20000	16800	17200
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.022	0.027	0.032	0.032
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	24.0	21.9	17.1	21.4
Chloride	mg/L	2.4	3.0	2.8	3.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.016	0.007	0.007
Cyanide	mg/L	-	< 0.005	-	-
Fluoride	mg/L	< 0.10	0.12	0.11	0.16
Iron	mg/L	0.052	0.059	0.039	0.222
Lead	mg/L	< 0.006	< 0.006	0.006	< 0.006
Magnesium	mg/L	1.32	1.28	0.906	1.12
Manganese	mg/L	0.065	0.076	0.090	0.121
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.009	0.167	0.199	0.230
Potassium	mg/L	1.58	1.97	1.34	1.37
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	7.46	7.90	8.66	15.0
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	28.0	26.8	28.9	35.7
Total Phosphates	mg/L	0.070	0.040	0.060	0.030
Zinc	mg/L	0.061	0.080	0.064	0.076
Nitrate (as N)	[illegible]	[illegible]	31.2	35.2	34.3
Sulfate	mg/L	< 5.0	13.3	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.015	0.010	0.009	0.006
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB115C, H-Area Seepage Basins

SRP Grid Coordinates	N 72653.2 E 56043.2		ft (msl)
Latitude	33.277902° N	Screen Zone Elevation	192.8 - 182.8
Longitude	81.660355° W	Top of Casing Elevation	269.3
		Casing Material	PVC

Parameter	Units	02/01/88	04/13/88	07/19/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226	225.6	228	226.5
pH	pH	11.4	11.2	10.7	10.7
Conductivity	µmhos/cm	1030	856	705	710
Alkalinity	mg/L	148	119	45	57
TDS	mg/L	502	500	397	430
Gross Alpha	pCi/L	5.5	< 4.0	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	111	125	57.7	62.0
Total Radium	pCi/L	2.2	1.6	1.1	1.6
Tritium	pCi/mL	26600	27100	21800	23800
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.054	0.038	0.029	0.027
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	52.3	28.7	20.8	25.7
Chloride	mg/L	1.1	1.7	2.5	1.7
Chromium	mg/L	0.006	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	0.006	0.008
Cyanide	mg/L	-	0.023	-	-
Fluoride	mg/L	0.15	0.11	0.10	0.18
Iron	mg/L	0.008	0.009	0.031	< 0.020
Lead	mg/L	0.010	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.066	0.165	0.477	0.445
Manganese	mg/L	< 0.002	< 0.002	0.002	< 0.002
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1370	8.58	2.72	3.26
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.66	4.71	2.85	6.80
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	112	0.09	81.0	81.5
Total Phosphates	mg/L	0.040	0.050	< 0.020	< 0.020
Zinc	mg/L	0.027	0.003	0.007	0.008
Nitrate (as N)	mg/L	52.7	66.0	56.1	53.5
Sulfate	mg/L	7.0	10.0	10.2	10.4
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.10	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.016	0.009	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB116C, H-Area Seepage Basins

SRP Grid Coordinates	N 72888.1 E 55989.1		ft (msl)
Latitude	33.278333° N	Screen Zone Elevation	190.5 - 180.5
Longitude	81.660953° W	Top of Casing Elevation	257.5
		Casing Material	PVC

Parameter	Units	01/31/88	04/14/88	07/17/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.3	225.8	227.6	226.5
pH	pH	6.7	6.0	5.9	5.8
Conductivity	µmhos/cm	559	560	535	500
Alkalinity	mg/L	15	8	7	6
TDS	mg/L	382	418	382	352
Gross Alpha	pCi/L	13.7	18.3	17.9	13.6
Nonvolatile Beta	pCi/L	129	308	126	74.1
Total Radium	pCi/L	4.2	5.7	4.8	5.2
Tritium	pCi/mL	30300	31700	25600	24200
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.046	0.041	0.062	0.053
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	6.84	4.45	3.75	3.10
Chloride	mg/L	< 1.0	1.1	1.7	1.6
Chromium	mg/L	0.014	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.004	< 0.004	< 0.004
Cyanide	mg/L	-	0.021	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.026	0.022	0.014	< 0.020
Lead	mg/L	0.025	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.796	0.706	1.03	0.902
Manganese	mg/L	0.471	0.440	0.644	0.564
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.005	0.004	0.007	0.006
Potassium	mg/L	0.975	1.00	1.28	1.50
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.58	5.93	3.47	7.40
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	792	64.1	33.7	73.0
Total Phosphates	mg/L	0.080	0.030	0.040	< 0.020
Zinc	mg/L	0.029	0.012	0.030	0.013
Nitrate (as N)	mg/L	58.2	56.0	52.3	55.9
Sulfate	mg/L	13.0	5.8	5.7	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB116D, H-Area Seepage Basins

SRP Grid	N 72898.1			ft (msl)
Coordinates	E 55988.2	Screen Zone Elevation		234.5 - 214.5
Latitude	33.278354° N	Top of Casing Elevation		256.8
Longitude	81.660975° W	Casing Material		PVC

Parameter	Units	01/31/88	04/14/88	07/17/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	227.8	227.5	230.4	228.8
pH	pH	4.2	4.6	4.3	4.2
Conductivity	µmhos/cm	378	380	350	300
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	260	260	194	192
Gross Alpha	pCi/L	265	144	151	81.8
Nonvolatile Beta	pCi/L	12400	6430	5160	4640
Total Radium	pCi/L	107	63.1	35.4	19.5
Tritium	pCi/mL	21800	19200	17700	19300
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.342	0.237	0.144	0.127
Beryllium	mg/L	-	< 0.005	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	22.6	14.9	10.6	9.07
Chloride	mg/L	< 1.0	2.0	2.2	2.3
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.005	0.012	0.009	0.007
Cyanide	mg/L	-	0.019	-	-
Fluoride	mg/L	0.61	1.06	0.93	0.59
Iron	mg/L	0.049	0.052	0.041	0.044
Lead	mg/L	0.019	0.014	0.016	0.014
Magnesium	mg/L	0.225	1.98	2.50	2.00
Manganese	mg/L	0.679	0.597	0.586	0.555
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.029	0.023	0.021	0.015
Potassium	mg/L	2.99	2.80	2.16	19.0
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	9.49	8.70	9.19	16.5
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	264	23.6	27.3	23.5
Total Phosphates	mg/L	0.040	0.020	0.040	< 0.020
Zinc	mg/L	0.320	0.203	0.125	0.101
Nitrate (as N)	mg/L	42.1	36.9	36.9	33.2
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.006	< 0.005	< 0.005	0.005
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: HSB117C, H-Area Seepage Basins

SRP Grid	N 72740.7			ft (msl)
Coordinates	E 55162.9	Screen Zone Elevation		174.0 - 164.0
Latitude	33.276659° N	Top of Casing Elevation		236.3
Longitude	81.662842° W	Casing Material		PVC

Parameter	Units	04/07/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	219.9	220	219.8
pH	pH	6.3	5.7	5.2
Conductivity	µmhos/cm	513	505	520
Alkalinity	mg/L	14	8	7
TDS	mg/L	428	355	350
Gross Alpha	pCi/L	12.0	55.6	25.3
Nonvolatile Beta	pCi/L	202	146	154
Total Radium	pCi/L	5.6	4.8	5.5
Tritium	pCi/mL	9750	7620	8940
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.070	0.069	0.075
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	17.0	13.1	14.5
Chloride	mg/L	6.0	5.9	5.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.005	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.13	0.19	0.12
Iron	mg/L	0.024	0.014	0.028
Lead	mg/L	< 0.006	0.007	< 0.006
Magnesium	mg/L	4.36	5.35	5.85
Manganese	mg/L	0.075	0.089	0.100
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.005	0.006	0.007
Potassium	mg/L	1.19	0.907	1.08
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.74	4.07	8.05
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	70.2	65.7	69.0
Total Phosphates	mg/L	0.060	0.030	< 0.020
Zinc	mg/L	0.017	0.024	0.018
Nitrate (as N)	mg/L	56.0	46.1	57.3
Sulfate	mg/L	< 5.0	< 5.0	6.8
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB117A, H-Area Seepage Basins

SRP Grid	N 72733.6			ft (msl)
Coordinates	E 55170.1	Screen Zone Elevation		94.1 - 84.1
Latitude	33.276655° N	Top of Casing Elevation		236.3
Longitude	81.662810° W	Casing Material		***

Parameter	Units	04/07/88	07/17/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	165	164.3	164.1
pH	pH	7.4	6.7	6.8
Conductivity	µmhos/cm	157	158	149
Alkalinity	mg/L	63	62	57
TDS	mg/L	114	118	168
Gross Alpha	pCi/L	2.4	2.3	2.5
Nonvolatile Beta	pCi/L	3.7	8.3	4.4
Total Radium	pCi/L	0.8	1.5	< 1.0
Tritium	pCi/mL	< 0.70	0.48	< 0.70
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.038	0.033	0.039
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	23.3	21.6	19.6
Chloride	mg/L	2.5	2.6	2.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.004	< 0.004	0.011
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	0.12	0.16
Iron	mg/L	0.015	0.046	0.025
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.423	0.885	0.902
Manganese	mg/L	0.061	0.089	0.113
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	2.44	4.30	4.71
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	13.4	11.2	12.7
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.41	2.87	2.26
Total Phosphates	mg/L	0.450	0.170	0.220
Zinc	mg/L	< 0.002	0.006	0.014
Nitrate (as N)	mg/L	0.16	< 0.05	0.09
Sulfate	mg/L	8.6	7.6	7.5
Phenols	mg/L	< 0.005	0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB117D, H-Area Seepage Basins

SRP Grid	N 72747.6			ft (msl)
Coordinates	E 55155.6	Screen Zone Elevation		219.1 - 199.1
Latitude	33.276662° N	Top of Casing Elevation		236.3
Longitude	81.662875° W	Casing Material		PVC

Parameter	Units	04/07/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	221.3	221.3	221.2
pH	pH	6.2	5.2	4.8
Conductivity	µmhos/cm	66	64	90
Alkalinity	mg/L	5	4	5
TDS	mg/L	52	70	138
Gross Alpha	pCi/L	1.6	< 3.0	5.8
Nonvolatile Beta	pCi/L	21.3	19.8	11.0
Total Radium	pCi/L	1.1	< 1.0	0.4
Tritium	pCi/mL	1160	854	1750
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.009	0.008	0.018
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	2.30	2.02	1.76
Chloride	mg/L	4.7	3.2	3.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.004	0.014
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.021	0.135	0.043
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.699	0.608	0.924
Manganese	mg/L	0.007	0.006	0.012
Mercury	mg/L	< 0.0002	0.0008	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	2.58	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.20	2.63	2.99
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	10.2	8.92	16.4
Total Phosphates	mg/L	0.070	< 0.020	< 0.020
Zinc	mg/L	0.010	0.024	0.031
Nitrate (as N)	mg/L	8.00	5.51	10.3
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.011
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB118A, H-Area Seepage Basins

SRP Grid	N 72696.4		ft (msl)
Coordinates	E 55775.6	Screen Zone Elevation	101.0 - 91.0
Latitude	33.277561° N	Top of Casing Elevation	247.3
Longitude	81.661143° W	Casing Material	***

Parameter	Units	02/15/88	04/10/88	07/02/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	166.1	166.4	166	165.5
pH	pH	8.7	7.2	6.8	7.1
Conductivity	µmhos/cm	203	190	180	166
Alkalinity	mg/L	86	83	70	65
TDS	mg/L	198	134	139	172
Gross Alpha	pCi/L	<3.0	5.2	4.8	3.0
Nonvolatile Beta	pCi/L	9.4	8.2	7.5	5.0
Total Radium	pCi/L	1.3	0.8	0.8	1.0
Tritium	pCi/mL	0.80	<0.70	<0.70	<0.70
Arsenic	mg/L	0.006	0.005	<0.002	<0.002
Barium	mg/L	0.062	0.063	0.067	0.075
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	25.4	24.4	24.4	25.3
Chloride	mg/L	2.2	2.6	2.6	2.9
Chromium	mg/L	<0.004	<0.004	<0.004	0.006
Copper	mg/L	0.014	<0.004	<0.004	0.012
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	0.10	0.11	0.10	0.12
Iron	mg/L	0.017	0.115	0.042	0.060
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.656	7.20	0.846	0.803
Manganese	mg/L	0.022	0.033	0.057	0.071
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0050
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	8.87	5.63	4.29	4.38
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	13.0	15.2	9.96	14.3
Silver	mg/L	<0.0020	<0.0020	0.0020	<0.0020
Sodium	mg/L	9.70	4.92	3.00	3.31
Total Phosphates	mg/L	0.070	0.460	0.190	0.280
Zinc	mg/L	0.003	0.030	0.019	0.018
Nitrate (as N)	mg/L	0.48	0.43	0.07	0.10
Sulfate	mg/L	10.6	9.6	7.9	6.4
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB119A, H-Area Seepage Basins

SRP Grid	N 73082.5		ft (msl)
Coordinates	E 56100.2	Screen Zone Elevation	103.3 - 93.3
Latitude	33.278944° N	Top of Casing Elevation	257.1
Longitude	81.661038° W	Casing Material	***

Parameter	Units	01/30/88	04/14/88	07/17/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	165.7	166	165	164.9
pH	pH	9.9	9.8	9.6	9.2
Conductivity	µmhos/cm	241	240	205	179
Alkalinity	mg/L	115	101	80	66
TDS	mg/L	176	168	144	208
Gross Alpha	pCi/L	3.8	<3.0	2.7	0.8
Nonvolatile Beta	pCi/L	4.7	19.0	18.3	10.4
Total Radium	pCi/L	2.4	1.1	<1.0	0.5
Tritium	pCi/mL	10.2	122	98.4	110
Arsenic	mg/L	0.012	0.013	0.012	0.010
Barium	mg/L	0.020	0.024	0.021	0.022
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	22.7	23.1	18.1	20.2
Chloride	mg/L	<1.0	2.3	2.6	7.0
Chromium	mg/L	0.005	<0.004	0.004	<0.004
Copper	mg/L	<0.004	0.006	0.004	0.008
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	0.16	0.15	0.15	<0.10
Iron	mg/L	0.007	0.018	0.134	<0.020
Lead	mg/L	0.009	<0.006	<0.006	<0.006
Magnesium	mg/L	0.108	0.099	0.059	0.077
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	15.3	1.29	12.2	11.1
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	14.9	14.4	29.6	30.6
Silver	mg/L	<0.0020	<0.0020	0.0020	<0.0020
Sodium	mg/L	21.5	15.4	13.6	10.4
Total Phosphates	mg/L	0.220	0.140	0.120	0.110
Zinc	mg/L	0.003	0.017	0.006	0.007
Nitrate (as N)	mg/L	1.16	1.51	1.44	1.69
Sulfate	mg/L	13.0	10.4	8.1	8.1
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.012	0.008	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB120A, H-Area Seepage Basins

SRP Grid	N 73395.1		ft (msl)
Coordinates	E 56431.9	Screen Zone Elevation	101.0 - 91.0
Latitude	33.280177° N	Top of Casing Elevation	268.2
Longitude	81.660772° W	Casing Material	***

Parameter	Units	01/30/88	04/12/88	07/02/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	165.2	165.2	164.8	164.2
pH	pH	8.9	9.2	9.2	8.9
Conductivity	µmhos/cm	204	228	230	225
Alkalinity	mg/L	111	103	104	96
TDS	mg/L	174	172	154	146
Gross Alpha	pCi/L	2.6	2.2	<3.0	3.9
Nonvolatile Beta	pCi/L	4.1	2.2	7.7	7.7
Total Radium	pCi/L	0.8	<1.0	<1.0	1.1
Tritium	pCi/mL	0.40	<0.70	<0.70	<0.70
Arsenic	mg/L	0.009	0.008	0.008	0.008
Barium	mg/L	0.022	0.023	0.124	0.025
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	32.7	33.7	31.8	34.5
Chloride	mg/L	<1.0	2.7	2.7	2.9
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.004	<0.004	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.010	0.012	0.095	<0.020
Lead	mg/L	0.011	<0.006	<0.006	<0.006
Magnesium	mg/L	0.493	0.473	0.449	0.445
Manganese	mg/L	<0.002	0.002	0.003	0.004
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	3.42	-	4.13	5.80
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	15.8	16.8	12.5	33.2
Silver	mg/L	<0.0020	<0.0020	0.0030	<0.0020
Sodium	mg/L	11.3	10.8	9.15	9.69
Total Phosphates	mg/L	0.180	0.220	0.050	0.110
Zinc	mg/L	0.009	0.006	0.011	0.008
Nitrate (as N)	mg/L	0.10	0.31	0.05	0.21
Sulfate	mg/L	-	11.0	10.3	10.5
Phenols	mg/L	<0.005	<0.005	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB121A, H-Area Seepage Basins

SRP Grid	N 72024.8		ft (msl)
Coordinates	E 57389.6	Screen Zone Elevation	98.3 - 88.3
Latitude	33.278709° N	Top of Casing Elevation	274.6
Longitude	81.655589° W	Casing Material	***

Parameter	Units	01/30/88	04/10/88	07/02/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	170.4	170.4	170.1	169.3
pH	pH	9.2	9.4	9.0	8.1
Conductivity	µmhos/cm	255	278	255	245
Alkalinity	mg/L	130	150	122	91
TDS	mg/L	206	220	188	182
Gross Alpha	pCi/L	2.7	2.5	3.9	2.2
Nonvolatile Beta	pCi/L	7.8	15.2	15.7	7.8
Total Radium	pCi/L	0.7	4.1	<1.0	0.9
Tritium	pCi/mL	<0.70	<0.70	<0.70	<0.70
Arsenic	mg/L	0.009	0.010	<0.002	0.003
Barium	mg/L	0.036	0.042	0.034	0.037
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	32.8	32.0	28.7	33.0
Chloride	mg/L	1.0	2.8	2.7	2.7
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.020	0.042	0.016	<0.020
Lead	mg/L	0.014	<0.006	<0.006	<0.006
Magnesium	mg/L	0.391	0.395	0.423	0.617
Manganese	mg/L	<0.002	<0.002	0.003	0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	12.5	-	9.92	7.72
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	28.8	29.6	27.2	51.9
Silver	mg/L	<0.0020	<0.0020	0.0030	<0.0020
Sodium	mg/L	17.2	13.6	7.94	6.03
Total Phosphates	mg/L	0.140	0.250	0.150	0.110
Zinc	mg/L	0.003	0.007	0.018	0.012
Nitrate (as N)	mg/L	<0.05	0.17	0.06	0.06
Sulfate	mg/L	56.0	15.3	12.0	12.2
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.008
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB122A, H-Area Seepage Basins

SRP Grid	N	72195.9		ft (msl)
Coordinates	E	57747.4	Screen Zone Elevation	95.4 - 85.4
Latitude	33.279671° N		Top of Casing Elevation	271.6
Longitude	81.654979° W		Casing Material	***

Parameter	Units	01/30/88	04/13/88	07/31/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	170.3	170.3	169.2	169.2
pH	pH	7.8	7.5	7.2	6.8
Conductivity	µmhos/cm	202	243	240	240
Alkalinity	mg/L	102	100	99	89
TDS	mg/L	170	198	169	435
Gross Alpha	pCi/L	2.2	<3.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	7.0	4.5	0.9	<2.0
Total Radium	pCi/L	0.8	<1.0	<1.0	<1.0
Tritium	pCi/mL	<0.70	0.73	<0.70	<0.70
Arsenic	mg/L	0.004	0.003	<0.002	<0.002
Barium	mg/L	0.029	0.026	0.029	0.026
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	34.2	42.3	47.8	37.4
Chloride	mg/L	<1.0	2.8	2.7	3.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	0.007	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.004	0.011	0.024	0.029
Lead	mg/L	0.013	<0.006	<0.006	<0.006
Magnesium	mg/L	0.813	0.777	0.700	0.726
Manganese	mg/L	0.005	0.011	0.014	0.018
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	3.43	1.27	1.29	1.63
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	18.5	19.6	14.6	36.5
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	5.86	4.10	2.33	3.02
Total Phosphates	mg/L	0.090	0.150	0.160	0.140
Zinc	mg/L	0.003	0.007	0.002	0.011
Nitrate (as N)	mg/L	<0.05	0.12	<0.05	0.06
Sulfate	mg/L	<5.0	14.1	11.6	12.3
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	0.443
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB124A, H-Area Seepage Basins

SRP Grid	N	72199.6		ft (msl)
Coordinates	E	58514.6	Screen Zone Elevation	103.0 - 93.0
Latitude	33.280931° N		Top of Casing Elevation	266.2
Longitude	81.652966° W		Casing Material	***

Parameter	Units	02/16/88	04/10/88	07/03/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	193.1	190.5	191	191.9
pH	pH	11.9	11.6	11.4	8.3
Conductivity	µmhos/cm	1946	1100	930	230
Alkalinity	mg/L	451	265	184	72
TDS	mg/L	536	326	256	124
Gross Alpha	pCi/L	<5.0	14.5	9.9	3.2
Nonvolatile Beta	pCi/L	51.4	39.7	28.9	2.6
Total Radium	pCi/L	5.3	4.3	0.9	1.7
Tritium	pCi/mL	1.60	<0.70	<0.70	<0.70
Arsenic	mg/L	0.003	<0.002	<0.002	<0.002
Barium	mg/L	0.238	0.303	0.199	0.045
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	133	80.7	63.7	34.2
Chloride	mg/L	1.5	2.5	2.5	3.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.004	<0.004	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10	0.16
Iron	mg/L	0.031	0.020	0.037	0.030
Lead	mg/L	<0.006	<0.006	0.010	<0.006
Magnesium	mg/L	0.109	0.104	0.159	0.880
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	56.0	31.7	21.9	2.24
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.28	10.7	10.4	36.3
Silver	mg/L	0.0030	<0.0020	0.0040	<0.0020
Sodium	mg/L	26.4	15.0	10.1	2.84
Total Phosphates	mg/L	0.050	0.110	0.170	<0.020
Zinc	mg/L	0.075	0.012	0.016	0.015
Nitrate (as N)	mg/L	0.26	0.16	0.08	0.06
Sulfate	mg/L	8.0	10.9	10.4	12.5
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.50	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.048	<0.005	<0.005	0.750
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB123A, H-Area Seepage Basins

SRP Grid	N	72189.8		ft (msl)
Coordinates	E	58124.8	Screen Zone Elevation	102.3 - 92.3
Latitude	33.280273° N		Top of Casing Elevation	264.5
Longitude	81.653973° W		Casing Material	***

Parameter	Units	01/27/88	04/10/88	07/31/88	10/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	170.5	170.4	169.2	169.1
pH	pH	7.5	6.4	8.3	8.1
Conductivity	µmhos/cm	241	263	245	235
Alkalinity	mg/L	109	22	104	99
TDS	mg/L	178	182	175	142
Gross Alpha	pCi/L	2.1	2.4	2.2	<3.0
Nonvolatile Beta	pCi/L	5.1	4.3	6.2	4.4
Total Radium	pCi/L	0.9	1.7	<1.0	0.6
Tritium	pCi/mL	<0.70	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.040	0.042	0.042	0.043
Beryllium	mg/L	-	<0.005	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	35.1	37.9	44.8	38.4
Chloride	mg/L	1.1	2.9	2.7	5.5
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	0.007	<0.004
Cyanide	mg/L	-	<0.005	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	<0.004	0.046	0.064	0.024
Lead	mg/L	0.012	<0.006	<0.006	<0.006
Magnesium	mg/L	0.888	0.822	0.781	0.830
Manganese	mg/L	0.012	0.008	<0.002	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	4.76	4.14	442	4.74
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	16.6	18.5	15.1	39.6
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	6.25	4.83	0.67	6.25
Total Phosphates	mg/L	0.060	0.140	0.040	0.080
Zinc	mg/L	0.008	0.008	0.027	0.013
Nitrate (as N)	mg/L	0.09	0.12	0.09	0.06
Sulfate	mg/L	<5.0	13.6	11.9	13.9
Phenols	mg/L	<0.005	<0.005	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.007	<0.005	0.107
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	-	<0.005	-	-
Tetrachloroethylene	mg/L	-	<0.005	-	-
Trichloroethylene	mg/L	-	<0.005	-	-
1,1,1-TCE	mg/L	-	<0.005	-	-

Well: HSB125C, H-Area Seepage Basins

SRP Grid	N	71503.6		ft (msl)
Coordinates	E	58592.8	Screen Zone Elevation	155.6 - 145.6
Latitude	33.279519° N		Top of Casing Elevation	231.9
Longitude	81.651408° W		Casing Material	PVC

Parameter	Units	04/09/88	07/20/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	223	223.9	222.4
pH	pH	6.8	6.2	6.2
Conductivity	µmhos/cm	170	99	89
Alkalinity	mg/L	62	42	37
TDS	mg/L	88	78	50
Gross Alpha	pCi/L	2.6	<3.0	<3.0
Nonvolatile Beta	pCi/L	2.0	<2.0	<2.0
Total Radium	pCi/L	<1.0	<1.0	<1.0
Tritium	pCi/mL	4.20	2.97	1.73
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.012	0.009	0.008
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	22.5	13.6	13.8
Chloride	mg/L	2.8	2.8	3.0
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.004	<0.004	0.007
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.11	0.17	0.17
Iron	mg/L	0.017	0.253	<0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	1.18	1.16	1.03
Manganese	mg/L	0.030	0.011	0.006
Mercury	mg/L	<0.0002	0.0003	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.711	<0.500	0.623
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.53	5.46	11.2
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	4.92	2.93	2.50
Total Phosphates	mg/L	0.160	0.100	0.130
Zinc	mg/L	0.003	0.199	0.012
Nitrate (as N)	mg/L	0.32	0.11	0.12
Sulfate	mg/L	5.2	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB125D, H-Area Seepage Basins

SRP Grid Coordinates	N 71498.2 E 58584.1	Screen Zone Elevation	ft (msl) 219.4 - 199.4
Latitude	33.279492° N	Top of Casing Elevation	231.7
Longitude	81.651421° W	Casing Material	PVC

Parameter	Units	04/09/88	07/20/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222.5	221.8	222
pH	pH	5.4	5.1	5.0
Conductivity	µmhos/cm	405	440	600
Alkalinity	mg/L	6	7	2
TDS	mg/L	276	417	280
Gross Alpha	pCi/L	13.1	<3.0	5.4
Nonvolatile Beta	pCi/L	59.9	27.3	27.6
Total Radium	pCi/L	<1.0	0.6	0.6
Tritium	pCi/mL	5550	5630	5570
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.015	0.017	0.019
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	1.91	2.84	4.00
Chloride	mg/L	7.7	13.7	5.6
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	0.005
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.12	<0.10
Iron	mg/L	0.018	0.027	<0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.412	0.652	0.643
Manganese	mg/L	0.101	0.140	0.116
Mercury	mg/L	0.0002	0.0006	0.0004
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.749	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	3.58	3.06	6.22
Silver	mg/L	<0.0020	0.0020	<0.0020
Sodium	mg/L	80.3	81.5	6.90
Total Phosphates	mg/L	0.110	0.030	0.020
Zinc	mg/L	0.056	0.040	0.028
Nitrate (as N)	mg/L	33.5	43.0	47.0
Sulfate	mg/L	14.7	14.6	15.6
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.010	0.094	0.007
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB126D, H-Area Seepage Basins

SRP Grid Coordinates	N 70633.4 E 57169.6	Screen Zone Elevation	ft (msl) 200.5 - 190.5
Latitude	33.275272° N	Top of Casing Elevation	212.7
Longitude	81.653466° W	Casing Material	PVC

Parameter	Units	04/08/88	07/19/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	204.4	203.6	204.5
pH	pH	5.8	4.7	4.5
Conductivity	µmhos/cm	404	450	480
Alkalinity	mg/L	4	1	0
TDS	mg/L	360	316	408
Gross Alpha	pCi/L	<3.0	2.1	3.5
Nonvolatile Beta	pCi/L	39.5	31.8	30.6
Total Radium	pCi/L	<1.0	1.2	1.1
Tritium	pCi/mL	2190	1880	2360
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.089	0.071	0.099
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	13.4	8.27	8.73
Chloride	mg/L	5.0	5.3	5.5
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.006	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.11	0.12	<0.10
Iron	mg/L	0.106	0.050	0.051
Lead	mg/L	0.010	0.013	0.009
Magnesium	mg/L	3.37	3.03	4.53
Manganese	mg/L	0.112	0.070	0.065
Mercury	mg/L	<0.0002	0.0005	0.0021
Nickel	mg/L	0.009	0.004	0.005
Potassium	mg/L	1.55	0.915	1.10
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	4.13	4.27	4.12
Silver	mg/L	0.0020	<0.0020	<0.0020
Sodium	mg/L	61.4	44.4	69.6
Total Phosphates	mg/L	0.160	0.140	0.130
Zinc	mg/L	0.100	0.037	0.050
Nitrate (as N)	mg/L	47.2	47.9	50.4
Sulfate	mg/L	3.6	3.6	3.6
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	1.30	1.70
Tot. Org. Halogens	mg/L	0.041	0.017	0.009
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB126C, H-Area Seepage Basins

SRP Grid Coordinates	N 70627.7 E 57178.2	Screen Zone Elevation	ft (msl) 181.3 - 176.3
Latitude	33.275273° N	Top of Casing Elevation	212.6
Longitude	81.653432° W	Casing Material	PVC

Parameter	Units	04/08/88	07/19/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	203.3	202.5	202.9
pH	pH	6.2	6.9	6.9
Conductivity	µmhos/cm	209	230	220
Alkalinity	mg/L	89	91	88
TDS	mg/L	220	169	152
Gross Alpha	pCi/L	4.6	<3.0	<3.0
Nonvolatile Beta	pCi/L	7.4	5.3	5.1
Total Radium	pCi/L	<1.0	<1.0	2.0
Tritium	pCi/mL	310	247	262
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.018	0.018	0.018
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	31.7	33.4	33.3
Chloride	mg/L	2.8	2.7	3.0
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.005	0.008	0.012
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.12	0.15
Iron	mg/L	0.045	0.013	0.024
Lead	mg/L	<0.006	0.009	<0.006
Magnesium	mg/L	1.13	1.23	1.20
Manganese	mg/L	0.008	0.003	0.009
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.911	1.10	0.855
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	11.2	4.05	22.5
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	11.4	11.2	11.2
Total Phosphates	mg/L	0.110	0.140	0.110
Zinc	mg/L	<0.002	0.002	0.020
Nitrate (as N)	mg/L	5.88	4.21	3.65
Sulfate	mg/L	8.6	5.7	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB127C, H-Area Seepage Basins

SRP Grid Coordinates	N 71210.1 E 56792.1	Screen Zone Elevation	ft (msl) 158.4 - 148.4
Latitude	33.275932° N	Top of Casing Elevation	225.7
Longitude	81.655580° W	Casing Material	PVC

Parameter	Units	04/08/88	07/19/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	210	209.7	209.9
pH	pH	8.5	9.6	7.2
Conductivity	µmhos/cm	262	235	250
Alkalinity	mg/L	103	61	70
TDS	mg/L	176	155	166
Gross Alpha	pCi/L	7.9	3.4	<3.0
Nonvolatile Beta	pCi/L	25.5	39.1	26.9
Total Radium	pCi/L	<1.0	<1.0	<1.0
Tritium	pCi/mL	1010	1260	1110
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.026	0.015	0.036
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	43.4	10.2	21.9
Chloride	mg/L	3.2	3.1	3.5
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.006	0.005	0.010
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.13	<0.10
Iron	mg/L	0.015	0.018	<0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	1.33	0.345	1.02
Manganese	mg/L	0.004	<0.002	<0.002
Mercury	mg/L	<0.0002	0.0003	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	2.74	7.37	16.2
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.67	5.09	10.5
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	12.0	15.1	12.9
Total Phosphates	mg/L	0.130	0.020	0.040
Zinc	mg/L	0.004	<0.002	0.005
Nitrate (as N)	mg/L	9.72	11.7	9.81
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	0.019	<0.005
Tot. Org. Carbon	mg/L	<1.000	1.10	1.90
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB127D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71218.9			
Coordinates	E 56788.0	Screen Zone Elevation		217.8 - 197.8
Latitude	33.275945° N	Top of Casing Elevation		226.1
Longitude	81.655608° W	Casing Material		PVC

Parameter	Units	04/07/88	07/19/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	218.5	218.8	218.7
pH	pH	5.5	5.3	4.8
Conductivity	µmhos/cm	245	189	250
Alkalinity	mg/L	2	1	1
TDS	mg/L	194	175	338
Gross Alpha	pCi/L	3.0	7.3	8.0
Nonvolatile Beta	pCi/L	18.7	48.9	41.9
Total Radium	pCi/L	1.9	1.7	2.3
Tritium	pCi/mL	11200	9400	15900
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.013	0.014	0.016
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.05	1.67	1.83
Chloride	mg/L	2.4	2.5	2.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.007	< 0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.025	0.021	< 0.020
Lead	mg/L	< 0.006	< 0.006	0.034
Magnesium	mg/L	0.817	0.871	1.24
Manganese	mg/L	0.174	0.187	0.267
Mercury	mg/L	< 0.0002	0.0006	0.0005
Nickel	mg/L	< 0.004	< 0.004	0.005
Potassium	mg/L	0.868	0.716	0.508
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.41	2.83	3.13
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	37.3	31.5	39.4
Total Phosphates	mg/L	0.050	< 0.020	< 0.020
Zinc	mg/L	0.006	0.022	0.011
Nitrate (as N)	mg/L	23.7	26.3	26.3
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	0.014	0.008
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB129D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71837.1			
Coordinates	E 55103.4	Screen Zone Elevation		205.2 - 185.2
Latitude	33.274563° N	Top of Casing Elevation		214.7
Longitude	81.661244° W	Casing Material		PVC

Parameter	Units	04/09/88	07/16/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	208.1	207.8	208.4
pH	pH	4.9	4.7	4.5
Conductivity	µmhos/cm	560	460	460
Alkalinity	mg/L	3	0	0
TDS	mg/L	388	358	440
Gross Alpha	pCi/L	< 3.0	41.1	9.8
Nonvolatile Beta	pCi/L	448	120	85.8
Total Radium	pCi/L	2.0	3.0	2.7
Tritium	pCi/mL	13100	11000	11900
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.070	0.047	0.050
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	6.81	6.09	3.85
Chloride	mg/L	6.2	6.2	6.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.004	0.005
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.038	0.063	0.032
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	3.97	3.14	3.84
Manganese	mg/L	0.051	0.025	0.027
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.005	< 0.004	< 0.004
Potassium	mg/L	0.966	0.880	5.47
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.62	4.07	3.31
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	78.5	85.5	72.2
Total Phosphates	mg/L	0.040	0.110	< 0.020
Zinc	mg/L	0.041	0.012	0.017
Nitrate (as N)	mg/L	54.4	14.6	51.4
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	-
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB129C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71830.4			
Coordinates	E 55110.0	Screen Zone Elevation		157.8 - 147.8
Latitude	33.274559° N	Top of Casing Elevation		215.1
Longitude	81.661214° W	Casing Material		PVC

Parameter	Units	04/08/88	07/16/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	205.2	205	205.2
pH	pH	5.5	5.5	5.5
Conductivity	µmhos/cm	160	148	150
Alkalinity	mg/L	6	5	8
TDS	mg/L	132	126	184
Gross Alpha	pCi/L	8.2	16.9	3.0
Nonvolatile Beta	pCi/L	46.7	61.9	74.3
Total Radium	pCi/L	< 1.0	< 1.0	1.4
Tritium	pCi/mL	1780	1740	2130
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.040	0.038	0.021
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	11.8	11.6	36.8
Chloride	mg/L	4.0	3.9	4.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.004	0.015
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.10	0.12	< 0.10
Iron	mg/L	0.018	0.015	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	2.10	2.45	0.541
Manganese	mg/L	0.035	0.045	0.002
Mercury	mg/L	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	0.005	0.006	< 0.004
Potassium	mg/L	1.32	1.31	0.583
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.15	9.22	4.69
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	9.23	8.02	3.01
Total Phosphates	mg/L	0.210	< 0.020	0.150
Zinc	mg/L	0.045	0.032	0.006
Nitrate (as N)	mg/L	14.2	45.8	14.2
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.011	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB130C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 70762.4			
Coordinates	E 54643.6	Screen Zone Elevation		169.9 - 159.9
Latitude	33.271436° N	Top of Casing Elevation		218.3
Longitude	81.660367° W	Casing Material		PVC

Parameter	Units	04/09/88	07/03/88	11/13/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	199.1	198.8	198.9
pH	pH	8.4	7.2	7.4
Conductivity	µmhos/cm	197	178	169
Alkalinity	mg/L	80	80	76
TDS	mg/L	116	103	182
Gross Alpha	pCi/L	1.2	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	1.9	1.0	< 2.0
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	1.71	0.70	< 0.70
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.021	0.021	0.021
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	24.7	25.3	25.7
Chloride	mg/L	2.6	2.5	2.7
Chromium	mg/L	< 0.004	0.005	< 0.004
Copper	mg/L	0.004	0.005	0.012
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.009	0.042	< 0.020
Lead	mg/L	< 0.006	0.010	< 0.006
Magnesium	mg/L	0.692	0.757	0.606
Manganese	mg/L	< 0.002	< 0.002	0.003
Mercury	mg/L	< 0.0002	< 0.0002	0.0004
Nickel	mg/L	< 0.004	0.005	< 0.004
Potassium	mg/L	0.988	0.811	0.868
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.39	12.0	6.36
Silver	mg/L	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	13.4	9.02	5.12
Total Phosphates	mg/L	0.170	0.080	0.120
Zinc	mg/L	0.004	0.042	0.013
Nitrate (as N)	mg/L	0.54	0.36	0.35
Sulfate	mg/L	13.6	5.6	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	0.007	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB130D, H-Area Seepage Basins

				ft (msl)
SRP Grid Coordinates	N 70757.2 E 54651.7	Screen Zone Elevation		202.1 - 182.1
Latitude	33.271438° N	Top of Casing Elevation		218.6
Longitude	81.660336° W	Casing Material		PVC

Parameter	Units	04/09/88	07/03/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	199.3	199.1	199.1
pH	pH	7.7	6.8	6.3
Conductivity	µmhos/cm	121	81	73
Alkalinity	mg/L	55	34	31
TDS	mg/L	70	57	160
Gross Alpha	pCi/L	< 3.0	0.7	< 3.0
Nonvolatile Beta	pCi/L	1.0	< 2.0	1.3
Total Radium	pCi/L	< 1.0	< 1.0	0.6
Tritium	pCi/mL	6.45	6.75	6.63
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.015	0.015	0.008
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	21.6	12.9	13.3
Chloride	mg/L	2.0	1.7	2.3
Chromium	mg/L	< 0.004	0.005	< 0.004
Copper	mg/L	0.004	0.005	0.008
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.125	0.029	0.035
Lead	mg/L	< 0.006	0.008	< 0.006
Magnesium	mg/L	0.575	0.515	0.500
Manganese	mg/L	0.004	0.004	0.003
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	0.007
Potassium	mg/L	0.700	< 0.500	0.669
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.35	3.70	6.00
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.12	1.45	1.79
Total Phosphates	mg/L	< 0.020	0.130	0.180
Zinc	mg/L	0.010	0.020	0.002
Nitrate (as N)	mg/L	0.62	0.56	0.59
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.030	0.006	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB131D, H-Area Seepage Basins

				ft (msl)
SRP Grid Coordinates	N 70365.0 E 56891.1	Screen Zone Elevation		205.7 - 195.7
Latitude	33.274224° N	Top of Casing Elevation		212.1
Longitude	81.653678° W	Casing Material		PVC

Parameter	Units	04/08/88	07/17/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	204.1	-	203.7
pH	pH	5.7	4.8	4.3
Conductivity	µmhos/cm	27	26	29
Alkalinity	mg/L	6	4	1
TDS	mg/L	20	22	38
Gross Alpha	pCi/L	2.1	< 3.0	0.9
Nonvolatile Beta	pCi/L	2.2	< 2.0	2.4
Total Radium	pCi/L	1.1	< 1.0	0.4
Tritium	pCi/mL	14.4	10.5	7.04
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.018	0.010	0.013
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	2.50	1.58	1.68
Chloride	mg/L	1.7	1.8	1.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	0.005
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.029	0.019	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.571	0.534	0.678
Manganese	mg/L	0.047	0.018	0.016
Mercury	mg/L	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	< 0.500	< 0.500	0.583
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	2.80	2.60	6.40
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.07	1.10	1.43
Total Phosphates	mg/L	0.120	0.060	< 0.020
Zinc	mg/L	0.016	0.012	0.009
Nitrate (as N)	mg/L	0.54	< 0.05	0.44
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB131C, H-Area Seepage Basins

				ft (msl)
SRP Grid Coordinates	N 70374.7 E 56894.9	Screen Zone Elevation		158.5 - 148.5
Latitude	33.274252° N	Top of Casing Elevation		211.7
Longitude	81.653687° W	Casing Material		PVC

Parameter	Units	04/08/88	07/17/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	202.8	202.3	202.6
pH	pH	8.3	7.2	6.7
Conductivity	µmhos/cm	196	220	225
Alkalinity	mg/L	87	90	76
TDS	mg/L	140	140	154
Gross Alpha	pCi/L	2.0	2.9	1.3
Nonvolatile Beta	pCi/L	7.6	2.8	3.4
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	176	145	191
Arsenic	mg/L	< 0.002	< 0.002	0.002
Barium	mg/L	0.034	0.023	0.023
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	48.1	37.3	36.4
Chloride	mg/L	2.7	2.6	2.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.006	0.006	0.012
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.053	0.045	0.028
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.765	0.598	0.629
Manganese	mg/L	< 0.002	< 0.002	< 0.002
Mercury	mg/L	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.95	0.916	1.09
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	7.15	7.00	14.2
Silver	mg/L	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	5.18	3.13	3.36
Total Phosphates	mg/L	0.050	0.040	0.020
Zinc	mg/L	0.007	0.010	0.012
Nitrate (as N)	mg/L	3.80	3.05	3.23
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB132C, H-Area Seepage Basins

				ft (msl)
SRP Grid Coordinates	N 71472.4 E 58787.7	Screen Zone Elevation		178.6 - 168.6
Latitude	33.279768° N	Top of Casing Elevation		240.5
Longitude	81.650835° W	Casing Material		PVC

Parameter	Units	04/09/88	07/03/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222.4	222.2	222.1
pH	pH	5.6	5.5	5.0
Conductivity	µmhos/cm	62	52	74
Alkalinity	mg/L	8	11	7
TDS	mg/L	44	51	110
Gross Alpha	pCi/L	< 3.0	0.8	< 3.0
Nonvolatile Beta	pCi/L	1.6	3.7	1.3
Total Radium	pCi/L	< 1.0	< 1.0	0.7
Tritium	pCi/mL	0.53	< 0.70	< 0.70
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.009	0.010	0.008
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.94	2.45	1.21
Chloride	mg/L	2.9	2.8	3.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	0.10
Iron	mg/L	0.031	0.023	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.705	0.245	0.246
Manganese	mg/L	0.032	0.026	0.028
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	1.50	1.57	1.31
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.65	4.32	9.00
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	7.39	9.27	8.87
Total Phosphates	mg/L	0.110	0.100	0.120
Zinc	mg/L	0.019	0.034	0.014
Nitrate (as N)	mg/L	0.55	0.48	0.28
Sulfate	mg/L	9.4	15.6	18.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	1.70
Tot. Org. Halogens	mg/L	0.005	0.014	0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB132D, H-Area Seepage Basins

SRP Grid Coordinates	N 71469.5			ft (msl)
	E 58799.3	Screen Zone Elevation		226.5 - 206.5
Latitude	33.279780° N	Top of Casing Elevation		240.7
Longitude	81.650798° W	Casing Material		PVC

Parameter	Units	04/09/88	07/03/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222.1	221.8	221.8
pH	pH	6.5	6.0	5.2
Conductivity	µmhos/cm	130	41	33
Alkalinity	mg/L	29	11	7
TDS	mg/L	88	28	114
Gross Alpha	pCi/L	1.4	<3.0	<3.0
Nonvolatile Beta	pCi/L	1.5	1.0	<2.0
Total Radium	pCi/L	<1.0	<1.0	<1.0
Tritium	pCi/mL	11.2	15.0	10.8
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	<0.004	0.008	0.007
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	1.36	2.22	1.44
Chloride	mg/L	3.1	2.8	2.6
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.080	0.028	<0.020
Lead	mg/L	<0.006	0.013	<0.006
Magnesium	mg/L	0.162	0.409	0.346
Manganese	mg/L	0.019	0.025	0.022
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	3.74	2.63	5.90
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.96	4.71	3.03
Total Phosphates	mg/L	0.070	0.020	<0.020
Zinc	mg/L	0.019	0.027	0.011
Nitrate (as N)	mg/L	1.07	0.84	0.66
Sulfate	mg/L	23.9	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	2.00
Tot. Org. Halogens	mg/L	0.031	<0.005	0.316
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB133D, H-Area Seepage Basins

SRP Grid Coordinates	N 71943.5			ft (msl)
	E 59102.3	Screen Zone Elevation		228.5 - 208.5
Latitude	33.281323° N	Top of Casing Elevation		255.3
Longitude	81.650921° W	Casing Material		PVC

Parameter	Units	04/09/88	07/19/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	235.2	234.3	234.1
pH	pH	7.0	6.0	5.4
Conductivity	µmhos/cm	120	87	74
Alkalinity	mg/L	34	24	17
TDS	mg/L	66	63	96
Gross Alpha	pCi/L	0.8	<3.0	1.5
Nonvolatile Beta	pCi/L	1.7	1.6	2.0
Total Radium	pCi/L	<1.0	0.8	1.2
Tritium	pCi/mL	141	91.6	94.2
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.005	0.006	0.006
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	1.20	7.04	4.87
Chloride	mg/L	4.1	4.6	5.3
Chromium	mg/L	0.007	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.035	0.015	0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.146	0.155	0.157
Manganese	mg/L	0.005	<0.002	0.005
Mercury	mg/L	<0.0002	0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.628	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	4.96	8.40	3.73
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.80	7.49	8.76
Total Phosphates	mg/L	0.110	0.080	<0.020
Zinc	mg/L	0.007	0.015	0.011
Nitrate (as N)	mg/L	0.96	0.64	0.60
Sulfate	mg/L	5.6	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	0.007
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB133C, H-Area Seepage Basins

SRP Grid Coordinates	N 71949.5			ft (msl)
	E 59110.3	Screen Zone Elevation		183.3 - 173.3
Latitude	33.281349° N	Top of Casing Elevation		255.6
Longitude	81.650912° W	Casing Material		PVC

Parameter	Units	04/09/88	07/19/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	230.1	229.7	229.4
pH	pH	10.8	11.4	11.0
Conductivity	µmhos/cm	325	750	545
Alkalinity	mg/L	114	169	130
TDS	mg/L	186	240	216
Gross Alpha	pCi/L	11.0	5.6	3.3
Nonvolatile Beta	pCi/L	38.6	35.5	27.8
Total Radium	pCi/L	1.3	0.6	1.1
Tritium	pCi/mL	0.74	2.34	2.36
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.034	0.009	0.050
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	13.3	1.40	24.2
Chloride	mg/L	3.1	2.3	2.3
Chromium	mg/L	<0.004	0.081	0.022
Copper	mg/L	<0.004	<0.004	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.27	0.39	0.18
Iron	mg/L	0.008	0.025	<0.020
Lead	mg/L	<0.006	0.015	<0.006
Magnesium	mg/L	0.098	0.431	0.087
Manganese	mg/L	0.004	0.016	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	9.45	<0.500	30.8
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	6.87	5.69	11.0
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.62	0.96	22.1
Total Phosphates	mg/L	0.370	0.120	0.070
Zinc	mg/L	0.005	0.010	0.026
Nitrate (as N)	mg/L	0.10	<0.05	0.10
Sulfate	mg/L	<5.0	<5.0	7.6
Phenols	mg/L	0.016	0.108	0.100
Tot. Org. Carbon	mg/L	1.40	<1.000	1.10
Tot. Org. Halogens	mg/L	0.008	0.007	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB134C, H-Area Seepage Basins

SRP Grid Coordinates	N 71210.3			ft (msl)
	E 58289.9	Screen Zone Elevation		159.1 - 149.1
Latitude	33.278376° N	Top of Casing Elevation		238.4
Longitude	81.651636° W	Casing Material		PVC

Parameter	Units	04/09/88	07/17/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	220.8	220.5	220.3
pH	pH	6.3	5.5	4.9
Conductivity	µmhos/cm	55	48	45
Alkalinity	mg/L	14	12	9
TDS	mg/L	38	45	96
Gross Alpha	pCi/L	1.5	<3.0	0.8
Nonvolatile Beta	pCi/L	4.9	2.9	3.1
Total Radium	pCi/L	<1.0	0.6	0.7
Tritium	pCi/mL	56.8	54.8	45.4
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.016	0.008	0.007
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	0.521	3.21	2.46
Chloride	mg/L	3.4	3.0	3.1
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.016	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.11	<0.10
Iron	mg/L	0.269	0.050	<0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.953	0.863	0.913
Manganese	mg/L	0.051	0.031	0.026
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.729	0.704	0.891
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	6.70	6.46	12.6
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.31	2.56	2.03
Total Phosphates	mg/L	0.060	0.050	0.040
Zinc	mg/L	0.030	0.009	0.006
Nitrate (as N)	mg/L	1.46	1.20	1.46
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	0.006
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.006	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB134D, H-Area Seepage Basins

SRP Grid	N 71217.3			ft (msl)
Coordinates	E 58296.5	Screen Zone Elevation		225.8 - 205.8
Latitude	33.278402° N	Top of Casing Elevation		238.1
Longitude	81.651633° W	Casing Material		PVC

Parameter	Units	04/09/88	07/17/88	10/12/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222.8	222.1	222.3
pH	pH	4.9	4.3	4.2
Conductivity	µmhos/cm	298	295	315
Alkalinity	mg/L	1	0	0
TDS	mg/L	218	176	176
Gross Alpha	pCi/L	7.7	23.8	5.7
Nonvolatile Beta	pCi/L	1310	272	171
Total Radium	pCi/L	<1.0	1.2	0.9
Tritium	pCi/mL	7810	6910	7790
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.028	0.048	0.035
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	0.481	0.518	0.821
Chloride	mg/L	2.8	2.7	3.9
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.001	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.057	0.035	0.035
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.993	1.99	1.34
Manganese	mg/L	0.048	0.117	0.080
Mercury	mg/L	<0.0002	0.0002	0.0004
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	0.722	0.785	0.650
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	3.52	4.80	6.66
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	45.2	55.1	46.0
Total Phosphates	mg/L	0.050	<0.020	<0.020
Zinc	mg/L	0.136	0.016	0.021
Nitrate (as N)	mg/L	23.0	24.5	21.5
Sulfate	mg/L	<5.0	[illegible]	[illegible]
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.012	0.009	0.019
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB135D, H-Area Seepage Basins

SRP Grid	N 71396.7			ft (msl)
Coordinates	E 56552.8	Screen Zone Elevation		219.9 - 199.9
Latitude	33.275954° N	Top of Casing Elevation		232.3
Longitude	81.656572° W	Casing Material		PVC

Parameter	Units	04/08/88	07/07/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	218.8	219.6	219
pH	pH	5.6	4.7	4.3
Conductivity	µmhos/cm	190	173	123
Alkalinity	mg/L	0	3	1
TDS	mg/L	152	91	108
Gross Alpha	pCi/L	3.8	<3.0	2.8
Nonvolatile Beta	pCi/L	99.9	43.4	55.2
Total Radium	pCi/L	1.5	0.5	<1.0
Tritium	pCi/mL	6020	3030	2820
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.030	0.005	<0.004
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	2.56	0.267	0.224
Chloride	mg/L	2.7	2.8	2.7
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.032	0.066	<0.020
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.755	0.266	0.200
Manganese	mg/L	0.119	0.006	0.004
Mercury	mg/L	<0.0002	0.0005	<0.0002
Nickel	mg/L	0.005	<0.004	<0.004
Potassium	mg/L	0.743	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	3.53	2.87	3.23
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	29.3	19.8	17.5
Total Phosphates	mg/L	0.090	<0.020	<0.020
Zinc	mg/L	0.019	0.022	0.020
Nitrate (as N)	mg/L	16.3	14.0	10.0
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB135C, H-Area Seepage Basins

SRP Grid	N 71390.2			ft (msl)
Coordinates	E 56560.8	Screen Zone Elevation		157.3 - 147.3
Latitude	33.275953° N	Top of Casing Elevation		232.0
Longitude	81.656539° W	Casing Material		PVC

Parameter	Units	04/08/88	07/07/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	205.8	205.8	205.8
pH	pH	9.2	8.9	7.6
Conductivity	µmhos/cm	230	190	186
Alkalinity	mg/L	0	90	87
TDS	mg/L	110	98	146
Gross Alpha	pCi/L	9.4	4.4	1.1
Nonvolatile Beta	pCi/L	32.5	13.1	3.8
Total Radium	pCi/L	<1.0	1.0	1.2
Tritium	pCi/mL	280	72.5	55.6
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.034	0.017	0.017
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	3.97	32.4	35.1
Chloride	mg/L	2.8	2.5	2.9
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.006	<0.004	0.014
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.061	0.021	0.056
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	0.838	0.505	0.433
Manganese	mg/L	0.015	0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004
Potassium	mg/L	1.36	0.702	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	7.45	10.3	21.1
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.96	2.93	3.00
Total Phosphates	mg/L	1.24	0.540	1.28
Zinc	mg/L	0.017	0.006	0.010
Nitrate (as N)	mg/L	1.44	1.64	1.11
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB136C, H-Area Seepage Basins

SRP Grid	N 71900.3			ft (msl)
Coordinates	E 55949.6	Screen Zone Elevation		170.5 - 160.5
Latitude	33.276084° N	Top of Casing Elevation		227.9
Longitude	81.659139° W	Casing Material		PVC

Parameter	Units	04/08/88	07/16/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	217.7	218.4	218
pH	pH	6.9	6.8	6.5
Conductivity	µmhos/cm	585	525	510
Alkalinity	mg/L	38	26	19
TDS	mg/L	428	394	426
Gross Alpha	pCi/L	6.0	38.5	<3.0
Nonvolatile Beta	pCi/L	178	133	115
Total Radium	pCi/L	1.4	3.4	1.8
Tritium	pCi/mL	10500	9090	10200
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.072	0.098	0.100
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	22.1	21.1	17.7
Chloride	mg/L	4.7	4.7	4.6
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.16	0.17	0.16
Iron	mg/L	0.016	<0.004	0.027
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	4.00	4.40	4.76
Manganese	mg/L	0.092	0.087	0.081
Mercury	mg/L	<0.0002	0.0002	<0.0002
Nickel	mg/L	0.006	<0.004	0.005
Potassium	mg/L	0.745	0.584	4.89
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.02	3.22	4.64
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	74.4	61.7	66.2
Total Phosphates	mg/L	0.110	<0.020	<0.020
Zinc	mg/L	0.030	0.021	0.043
Nitrate (as N)	mg/L	50.8	50.3	51.4
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.005	<0.005	0.020
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB136D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 71906.0			
Coordinates	E 55941.7	Screen Zone Elevation		220.2 - 200.2
Latitude	33.276084° N	Top of Casing Elevation		228.0
Longitude	81.659171° W	Casing Material		PVC

Parameter	Units	04/08/88	07/16/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	221.6	222.7	222.1
pH	pH	4.2	3.9	3.8
Conductivity	µmhos/cm	470	450	410
Alkalinity	mg/L	0	0	0
TDS	mg/L	302	235	304
Gross Alpha	pCi/L	23.6	176	78.1
Nonvolatile Beta	pCi/L	6280	5600	5090
Total Radium	pCi/L	29.4	31.5	35.0
Tritium	pCi/mL	24200	17200	19300
Arsenic	mg/L	<0.002	0.002	<0.002
Barium	mg/L	0.097	0.131	0.102
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	5.05	3.33	3.44
Chloride	mg/L	2.3	2.4	2.2
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.006	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.60	0.77	0.60
Iron	mg/L	0.157	0.053	0.035
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	1.31	1.44	1.34
Manganese	mg/L	0.491	0.527	0.465
Mercury	mg/L	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.020	<0.004	0.017
Potassium	mg/L	1.87	1.43	2.04
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	8.02	3.06	7.54
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	52.6	62.2	37.9
Total Phosphates	mg/L	0.140	0.030	<0.020
Zinc	mg/L	0.064	0.062	0.063
Nitrate (as N)	mg/L	45.6	42.8	38.3
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	3.20	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB137D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 72278.9			
Coordinates	E 55696.1	Screen Zone Elevation		225.3 - 205.3
Latitude	33.276508° N	Top of Casing Elevation		236.6
Longitude	81.660542° W	Casing Material		PVC

Parameter	Units	04/07/88	07/16/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222.9	224.5	223.8
pH	pH	5.3	5.2	4.7
Conductivity	µmhos/cm	200	240	220
Alkalinity	mg/L	6	3	1
TDS	mg/L	160	180	150
Gross Alpha	pCi/L	10.6	<3.0	19.4
Nonvolatile Beta	pCi/L	1030	1370	1100
Total Radium	pCi/L	2.3	15.0	3.9
Tritium	pCi/mL	9830	13100	7280
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.036	0.066	0.050
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	2.45	6.87	6.87
Chloride	mg/L	2.3	2.5	2.2
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	0.005	0.013
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.10	<0.10
Iron	mg/L	0.090	0.026	0.048
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	1.33	3.30	3.89
Manganese	mg/L	0.241	0.503	0.330
Mercury	mg/L	<0.0002	0.0005	<0.0002
Nickel	mg/L	0.020	0.042	0.028
Potassium	mg/L	1.42	<0.500	1.42
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.10	5.58	10.1
Silver	mg/L	<0.0020	0.0030	<0.0020
Sodium	mg/L	28.4	31.5	30.4
Total Phosphates	mg/L	0.110	<0.020	<0.020
Zinc	mg/L	0.114	0.007	0.130
Nitrate (as N)	mg/L	20.8	23.8	24.8
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	1.30
Tot. Org. Halogens	mg/L	0.005	0.006	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB137C, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 72269.9			
Coordinates	E 55700.2	Screen Zone Elevation		173.8 - 163.8
Latitude	33.276494° N	Top of Casing Elevation		236.0
Longitude	81.660513° W	Casing Material		PVC

Parameter	Units	04/07/88	07/16/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	220.5	221.4	221.1
pH	pH	5.3	5.7	5.8
Conductivity	µmhos/cm	495	495	500
Alkalinity	mg/L	5	9	7
TDS	mg/L	394	446	350
Gross Alpha	pCi/L	<3.0	<3.0	5.6
Nonvolatile Beta	pCi/L	174	146	136
Total Radium	pCi/L	<1.0	<1.0	1.0
Tritium	pCi/mL	8180	7390	8180
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.070	0.067	0.057
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	26.5	28.5	24.0
Chloride	mg/L	4.7	4.6	4.8
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	0.005	0.011	0.012
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	0.13	<0.10
Iron	mg/L	0.011	0.033	<0.020
Lead	mg/L	0.007	<0.006	<0.006
Magnesium	mg/L	4.24	5.14	5.31
Manganese	mg/L	0.188	0.211	0.160
Mercury	mg/L	<0.0002	0.0004	<0.0002
Nickel	mg/L	0.009	0.013	0.009
Potassium	mg/L	1.81	1.45	2.03
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	5.51	5.08	9.94
Silver	mg/L	0.0020	0.0020	<0.0020
Sodium	mg/L	52.7	58.2	53.2
Total Phosphates	mg/L	0.050	0.040	0.080
Zinc	mg/L	0.057	0.040	0.041
Nitrate (as N)	mg/L	50.8	53.7	55.0
Sulfate	mg/L	<5.0	<5.0	10.7
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB138D, H-Area Seepage Basins

				ft (msl)
SRP Grid	N 73160.2			
Coordinates	E 55260.7	Screen Zone Elevation		228.1 - 208.1
Latitude	33.277746° N	Top of Casing Elevation		252.4
Longitude	81.663400° W	Casing Material		PVC

Parameter	Units	04/09/88	07/17/88	10/16/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	222	222.2	221.7
pH	pH	5.3	4.9	4.8
Conductivity	µmhos/cm	244	270	300
Alkalinity	mg/L	1	0	1
TDS	mg/L	190	216	182
Gross Alpha	pCi/L	20.3	31.5	15.2
Nonvolatile Beta	pCi/L	46.4	81.9	76.5
Total Radium	pCi/L	3.0	2.8	4.6
Tritium	pCi/mL	7560	6800	7580
Arsenic	mg/L	<0.002	<0.002	<0.002
Barium	mg/L	0.026	0.028	0.030
Beryllium	mg/L	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002
Calcium	mg/L	1.97	0.306	2.07
Chloride	mg/L	3.9	3.9	5.4
Chromium	mg/L	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	<0.10	<0.10	<0.10
Iron	mg/L	0.106	0.417	0.085
Lead	mg/L	<0.006	<0.006	<0.006
Magnesium	mg/L	1.18	1.46	1.66
Manganese	mg/L	0.027	0.050	0.050
Mercury	mg/L	<0.0002	0.0004	<0.0002
Nickel	mg/L	<0.004	0.008	0.008
Potassium	mg/L	0.604	0.687	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002
Silica	mg/L	3.58	3.68	6.67
Silver	mg/L	<0.0020	<0.0020	<0.0020
Sodium	mg/L	38.0	43.8	45.3
Total Phosphates	mg/L	0.030	0.100	<0.020
Zinc	mg/L	0.023	0.030	0.020
Nitrate (as N)	mg/L	23.8	29.5	31.2
Sulfate	mg/L	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

Well: HSB139A, H-Area Seepage Basins

SRP Grid	N	71127.4		ft (msl)
Coordinates	E	57365.4	Screen Zone Elevation	97.6 - 87.6
Latitude		33.276684° N	Top of Casing Elevation	233.7
Longitude		81.653910° W	Casing Material	***

Parameter	Units	04/07/88	07/19/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	172.3	171.4	171.2
pH	pH	9.7	9.1	8.6
Conductivity	µmhos/cm	250	235	210
Alkalinity	mg/L	136	112	84
TDS	mg/L	148	172	170
Gross Alpha	pCi/L	1.9	1.8	3.1
Nonvolatile Beta	pCi/L	6.8	6.6	8.6
Total Radium	pCi/L	< 1.0	< 1.0	0.6
Tritium	pCi/mL	13.1	3.66	1.24
Arsenic	mg/L	0.007	0.004	< 0.002
Barium	mg/L	0.030	0.035	0.033
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.81	40.2	33.4
Chloride	mg/L	2.5	2.5	2.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.006	0.009
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.060	0.032	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.374	0.423	0.646
Manganese	mg/L	0.004	< 0.002	0.004
Mercury	mg/L	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	6.19	7.50	4.80
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	28.2	37.7	40.5
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.21	6.85	5.67
Total Phosphates	mg/L	0.070	0.100	0.090
Zinc	mg/L	0.013	< 0.002	0.004
Nitrate (as N)	mg/L	0.21	< 0.05	0.09
Sulfate	mg/L	5.0	5.0	6.4
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	18.4	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.011
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB139C, H-Area Seepage Basins

SRP Grid	N	71129.8		ft (msl)
Coordinates	E	57374.5	Screen Zone Elevation	158.5 - 148.5
Latitude		33.276704° N	Top of Casing Elevation	233.8
Longitude		81.653890° W	Casing Material	PVC

Parameter	Units	04/08/88	07/19/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	214.2	214.1	214
pH	pH	7.2	6.7	5.8
Conductivity	µmhos/cm	438	430	410
Alkalinity	mg/L	59	29	20
TDS	mg/L	354	320	416
Gross Alpha	pCi/L	< 3.0	< 3.0	13.1
Nonvolatile Beta	pCi/L	36.3	45.4	22.7
Total Radium	pCi/L	0.8	< 1.0	< 1.0
Tritium	pCi/mL	3200	2810	3150
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.052	0.043	0.057
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	29.9	20.3	19.1
Chloride	mg/L	5.6	5.6	5.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	0.007	0.010
Cyanide	mg/L	-	-	-
Fluoride	mg/L	0.16	0.18	0.13
Iron	mg/L	0.098	0.067	0.084
Lead	mg/L	0.009	< 0.006	0.006
Magnesium	mg/L	3.56	3.65	5.46
Manganese	mg/L	0.274	0.224	0.277
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	0.009	0.005	0.010
Potassium	mg/L	4.66	4.20	3.49
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.60	5.12	4.98
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	63.6	49.5	48.4
Total Phosphates	mg/L	0.160	0.090	0.080
Zinc	mg/L	0.057	0.037	0.078
Nitrate (as N)	mg/L	35.7	41.2	44.5
Sulfate	mg/L	5.8	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.020	-	0.018
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Well: HSB139D, H-Area Seepage Basins

SRP Grid	N	71133.2		ft (msl)
Coordinates	E	57384.4	Screen Zone Elevation	226.7 - 206.7
Latitude		33.276728° N	Top of Casing Elevation	233.8
Longitude		81.653871° W	Casing Material	PVC

Parameter	Units	04/07/88	07/19/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	223	223.1	223
pH	pH	6.1	5.0	4.4
Conductivity	µmhos/cm	60	115	55
Alkalinity	mg/L	23	3	2
TDS	mg/L	68	91	178
Gross Alpha	pCi/L	5.9	4.7	4.1
Nonvolatile Beta	pCi/L	24.5	30.6	11.5
Total Radium	pCi/L	1.7	1.8	1.6
Tritium	pCi/mL	3720	3780	2160
Arsenic	mg/L	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.014	0.014	0.009
Beryllium	mg/L	-	-	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002
Calcium	mg/L	4.95	1.15	1.68
Chloride	mg/L	1.7	2.6	2.4
Chromium	mg/L	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	0.004
Cyanide	mg/L	-	-	-
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.093	0.018	0.021
Lead	mg/L	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.667	0.553	0.524
Manganese	mg/L	0.051	0.033	0.024
Mercury	mg/L	< 0.0002	0.0027	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004
Potassium	mg/L	0.516	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.47	2.48	2.91
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.18	19.4	8.14
Total Phosphates	mg/L	0.240	< 0.020	< 0.020
Zinc	mg/L	0.021	0.005	0.033
Nitrate (as N)	mg/L	6.08	13.6	5.87
Sulfate	mg/L	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.010
Carbon Tetrachloride	mg/L	-	-	-
Chloroform	mg/L	-	-	-
Tetrachloroethylene	mg/L	-	-	-
Trichloroethylene	mg/L	-	-	-
1,1,1-TCE	mg/L	-	-	-

Other Analyses
(Pest Herb* and Appendix IX Analytes: Table 5-91)

HSB 65	01/05/88	
Aluminum		0.055 mg/L
HSB 65	07/03/88	
Aluminum		0.061 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB 65	10/08/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB 65A	01/05/88	
Aluminum		0.029 mg/L
Aluminum		0.034 mg/L
HSB 65A	07/03/88	
Aluminum		< 0.02 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Antimony		< 0.003 mg/L
HSB 65A	10/08/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB 65B	02/20/88	
Aluminum		0.32 mg/L
Aluminum		0.303 mg/L
HSB 65B	07/03/88	
Aluminum		< 0.02 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB 65B	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 65C	01/05/88	
Aluminum		0.031 mg/L
HSB 65C	07/03/88	
Aluminum		0.034 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 65C	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 66	01/05/88	
Aluminum		<0.02 mg/L
HSB 66	07/02/88	
Aluminum		0.051 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 66	10/08/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 67	01/24/88	
Aluminum		1.07 mg/L
Aluminum		1.05 mg/L
HSB 67	07/06/88	
Aluminum		1.56 mg/L
Cobalt		0.004 mg/L
Antimony		<0.003 mg/L
HSB 67	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68	01/12/88	
Aluminum		9.6 mg/L
Aluminum		9.6 mg/L
HSB 68	07/06/88	
Aluminum		8.22 mg/L
Cobalt		0.011 mg/L
Antimony		<0.003 mg/L
HSB 68	10/11/88	
Cobalt		0.01 mg/L
Cobalt		0.009 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 68A	01/12/88	
Aluminum		0.072 mg/L
HSB 68A	07/06/88	
Aluminum		0.052 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68A	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68B	01/13/88	
Aluminum		0.021 mg/L
HSB 68B	07/07/88	
Aluminum		<0.02 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68B	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68C	01/13/88	
Aluminum		0.18 mg/L
HSB 68C	07/07/88	
Aluminum		0.068 mg/L
Aluminum		0.013 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 68C	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 69	01/13/88	
Aluminum		8.8 mg/L
HSB 69	07/04/88	
Aluminum		7.14 mg/L
Cobalt		0.013 mg/L
Antimony		<0.003 mg/L
HSB 69	10/12/88	
Cobalt		0.012 mg/L
Antimony		<0.003 mg/L
HSB 69A	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB 69A	07/04/88	
Aluminum		0.022 mg/L
Aluminum		0.022 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 69A	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 70	01/12/88	
Aluminum		0.017 mg/L
Aluminum		0.02 mg/L
HSB 70	07/06/88	
Aluminum		0.016 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 70	10/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 70C	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB 70C	07/06/88	
Aluminum		0.475 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 70C	10/09/88	
Cobalt		0.004 mg/L
Antimony		<0.03 mg/L
HSB 71	01/24/88	
Aluminum		0.15 mg/L
HSB 71	07/17/88	
Aluminum		0.061 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 71	10/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 71C	04/09/88	
Pest/Herb* analyses detected the following: None		

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB 71C	07/19/88	
Aluminum		0.079 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 71C	10/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB 83A	02/20/88	
Aluminum		0.306 mg/L
Aluminum		0.304 mg/L
HSB 83A	07/05/88	
Aluminum		<0.02 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83A	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83B	01/24/88	
Aluminum		<0.02 mg/L
HSB 83B	07/05/88	
Aluminum		<0.02 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83B	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83C	01/24/88	
Aluminum		<0.02 mg/L
HSB 83C	07/04/88	
Aluminum		0.031 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83C	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83D	01/24/88	
Aluminum		0.106 mg/L
HSB 83D	07/04/88	
Aluminum		0.031 mg/L
Aluminum		0.03 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 83D	10/12/88	
Cobalt		<0.002 mg/L
Cobalt		<0.002 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 84A	01/24/88	
Aluminum		2.45 mg/L
HSB 84A	07/06/88	
Aluminum		1.64 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84A	10/11/88	
Cobalt		<0.004 mg/L
Antimony		0.049 mg/L
HSB 84B	01/24/88	
Aluminum		0.026 mg/L
HSB 84B	07/06/88	
Aluminum		0.034 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84B	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84C	01/24/88	
Aluminum		0.162 mg/L
Aluminum		0.164 mg/L
HSB 84C	07/07/88	
Aluminum		0.121 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84C	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84D	01/24/88	
Aluminum		1.1 mg/L
HSB 84D	07/06/88	
Aluminum		0.459 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 84D	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 85A	01/12/88	
Aluminum		0.026 mg/L
HSB 85A	07/02/88	
Aluminum		<0.02 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB 85A	10/14/88	
Cobalt		<0.004 mg/L
Cobalt		0.008 mg/L
Antimony		<0.03 mg/L
Antimony		<0.03 mg/L
Turbidity		0.082 NTU
Pest/Herb* analyses detected the following: None		
HSB 85B	01/13/88	
Aluminum		0.127 mg/L
HSB 85B	07/03/88	
Aluminum		0.051 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB 85B	10/14/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Turbidity		0.151 NTU
Pest/Herb* analyses detected the following: None		
HSB 85C	01/12/88	
Aluminum		0.042 mg/L
HSB 85C	07/31/88	
Aluminum		0.03 mg/L
Aluminum		0.027 mg/L
Aluminum		0.038 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB 85C	10/14/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Turbidity		0.098 NTU
Pest/Herb* analyses detected the following: None		
HSB 86A	01/12/88	
Aluminum		<0.02 mg/L
HSB 86A	07/20/88	
Aluminum		0.299 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 86A	10/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 86B	01/12/88	
Aluminum		0.026 mg/L
HSB 86B	07/20/88	
Aluminum		0.02 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 86B	10/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB 86C	01/12/88	
Aluminum		<0.02 mg/L
HSB 86C	07/20/88	
Aluminum		0.095 mg/L
Cobalt		0.021 mg/L
Antimony		0.003 mg/L
HSB 86C	10/09/88	
Cobalt		0.026 mg/L
Antimony		<0.003 mg/L
HSB 86D	01/12/88	
Aluminum		7.7 mg/L
HSB 86D	07/20/88	
Aluminum		3.23 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB 86D	10/09/88	
Cobalt		0.007 mg/L
Antimony		<0.003 mg/L
HSB100C	02/10/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB100C	04/10/88	
Appendix IX analyses detected the following: None		
HSB100C	07/04/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB100C	10/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB100D	02/06/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following:		
Endrin		0.0001 mg/L
HSB100D	04/10/88	
Appendix IX analyses detected the following:		
Carbon Disulfide		0.006 mg/L
HSB100D	07/04/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB100D	10/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB101C	02/06/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB101C	04/10/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.023 mg/L
HSB101C	07/04/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB101C	10/01/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		0.023 mg/L
HSB101D	02/06/88	
Cobalt		0.005 mg/L
Antimony		0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB101D	04/12/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.024 mg/L
Cyanide		0.0457 mg/L
Cyanide		0.0479 mg/L
HSB101D	07/04/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB101D	10/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB102C	03/10/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB102C	04/15/88	
Appendix IX analyses detected the following: None		
HSB102C	08/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB102C	10/25/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB102D	03/10/88	
Cobalt		0.004 mg/L
Antimony		0.008 mg/L
Antimony		0.005 mg/L
Pest/Herb* analyses detected the following: None		
HSB102D	04/15/88	
Appendix IX analyses detected the following:		
Cobalt		0.007 mg/L
Cyanide		0.012 mg/L
HSB102D	08/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB102D	10/25/88	
Cobalt		0.007 mg/L
Antimony		<0.03 mg/L
HSB103C	02/02/88	
Cobalt		0.006 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB103C	04/12/88	
Appendix IX analyses detected the following: None		
HSB103C	07/09/88	
Cobalt		0.007 mg/L
Antimony		<0.003 mg/L
HSB103C	10/01/88	
Cobalt		0.006 mg/L
Antimony		<0.003 mg/L
HSB103D	02/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB103D	04/12/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.023 mg/L
HSB103D	07/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB103D	10/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB104C	02/06/88	
Cobalt		<0.004 mg/L
Antimony		0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB104C	04/12/88	
Appendix IX analyses detected the following: None		
HSB104C	07/09/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB104C	10/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB104D	02/06/88	
Cobalt		0.022 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB104D	04/12/88	
Appendix IX analyses detected the following:		
Cobalt		0.013 mg/L
Cyanide		0.0337 mg/L
HSB104D	07/09/88	
Cobalt		0.014 mg/L
Antimony		<0.003 mg/L
HSB104D	10/02/88	
Cobalt		0.016 mg/L
Antimony		<0.003 mg/L
HSB105D	02/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB105D	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.053 mg/L
Cobalt		0.003 mg/L
Cyanide		0.013 mg/L
HSB105D	07/09/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB105D	10/02/88	
Cobalt		0.008 mg/L
Antimony		<0.003 mg/L
HSB106C	02/02/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB106C	04/12/88	
Appendix IX analyses detected the following: None		
HSB106C	07/07/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB106C	10/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB106D	02/02/88	
Cobalt		0.006 mg/L
Antimony		0.003 mg/L
Pest/Herb* analyses detected the following:		
Endrin		0.0126 mg/L
HSB106D	04/12/88	
Appendix IX analyses detected the following:		
Cobalt		0.007 mg/L
Cobalt		0.006 mg/L
HSB106D	07/07/88	
Cobalt		0.006 mg/L
Antimony		<0.003 mg/L
HSB106D	10/02/88	
Cobalt		0.004 mg/L
Antimony		<0.003 mg/L
HSB107C	02/10/88	
Cobalt		0.01 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB107C	04/13/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
HSB107C	07/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB107C	10/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB107D	02/10/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB107D	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.05 mg/L
Cobalt		0.004 mg/L
HSB107D	07/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB107D	10/02/88	
Cobalt		0.005 mg/L
Antimony		< 0.003 mg/L
HSB108C	02/15/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB108C	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.021 mg/L
HSB108C	07/09/88	
Cobalt		< 0.004 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB108C	10/02/88	
Cobalt		< 0.004 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB108D	02/10/88	
Cobalt		0.005 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB108D	04/13/88	
Appendix IX analyses detected the following:		
Cobalt		0.008 mg/L
HSB108D	07/09/88	
Cobalt		0.008 mg/L
Antimony		< 0.003 mg/L
HSB108D	10/02/88	
Cobalt		0.007 mg/L
Antimony		< 0.003 mg/L
HSB109C	02/01/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB109C	04/14/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.034 mg/L
HSB109C	07/16/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB109C	10/04/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.03 mg/L
HSB109D	02/01/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB109D	04/14/88	
Appendix IX analyses detected the following:		
Carbon Disulfide		0.006 mg/L
HSB109D	07/16/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB109D	10/04/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.03 mg/L
HSB110C	02/08/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB110C	04/12/88	
Appendix IX analyses detected the following: None		
HSB110C	07/10/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Antimony		< 0.003 mg/L
HSB110C	10/04/88	
Cobalt		0.011 mg/L
Antimony		< 0.003 mg/L
HSB110D	02/07/88	
Cobalt		0.01 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB110D	04/12/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
HSB110D	07/10/88	
Cobalt		0.008 mg/L
Antimony		< 0.003 mg/L
HSB110D	10/04/88	
Cobalt		0.015 mg/L
Antimony		< 0.03 mg/L
HSB111C	02/09/88	
Cobalt		< 0.004 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB111C	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.034 mg/L
Cobalt		0.002 mg/L
HSB111C	07/10/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB111C	10/04/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB111D	02/09/88	
Cobalt		< 0.004 mg/L
Antimony		0.004 mg/L
Pest/Herb* analyses detected the following: None		
HSB111D	04/13/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
Cyanide		0.0293 mg/L
HSB111D	07/10/88	
Cobalt		0.004 mg/L
Antimony		< 0.003 mg/L
HSB111D	10/04/88	
Cobalt		0.005 mg/L
Antimony		< 0.003 mg/L
HSB111E	02/09/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB111E	04/13/88	
Appendix IX analyses detected the following: None		
HSB111E	07/10/88	
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L
HSB111E	10/04/88	
Cobalt		< 0.004 mg/L
Cobalt		< 0.004 mg/L
Antimony		< 0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB112C	02/07/88	
Cobalt		0.006 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB112C	04/13/88	
Appendix IX analyses detected the following:		
Antimony		0.003 mg/L
HSB112C	07/10/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB112C	10/05/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB112D	02/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB112D	04/13/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
Cyanide		0.0399 mg/L
HSB112D	07/10/88	
Cobalt		0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB112D	10/05/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB112E	02/08/88	
Cobalt		0.01 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB112E	04/13/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
Cyanide		0.0079 mg/L
HSB112E	07/10/88	
Cobalt		0.009 mg/L
Cobalt		0.008 mg/L
Antimony		<0.003 mg/L
HSB112E	10/05/88	
Cobalt		0.009 mg/L
Antimony		<0.003 mg/L
HSB113C	02/09/88	
Cobalt		0.007 mg/L
Cobalt		0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB113C	04/13/88	
Appendix IX analyses detected the following: None		
HSB113C	07/10/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB113C	10/05/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB113D	02/09/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB113D	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.025 mg/L
Cobalt		0.002 mg/L
HSB113D	07/10/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB113D	10/05/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB114C	01/31/88	
Cobalt		0.008 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB114C	04/12/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.026 mg/L
Cobalt		0.007 mg/L
Cyanide		0.052 mg/L
Sulfide		1.6 mg/L
HSB114C	07/10/88	
Cobalt		0.008 mg/L
Antimony		<0.003 mg/L
HSB114C	10/05/88	
Cobalt		0.007 mg/L
Antimony		<0.003 mg/L
HSB114D	01/31/88	
Cobalt		0.009 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB114D	04/12/88	
Appendix IX analyses detected the following:		
Cobalt		0.008 mg/L
Cyanide		0.0097 mg/L
HSB114D	07/10/88	
Cobalt		0.009 mg/L
Antimony		<0.003 mg/L
HSB114D	10/05/88	
Cobalt		0.008 mg/L
Antimony		<0.003 mg/L
HSB115C	02/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB115C	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.013 mg/L
Cyanide		0.023 mg/L
Cyanide		0.023 mg/L
Vanadium		0.006 mg/L
HSB115C	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB115C	10/05/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB115D	02/01/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB115D	04/13/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.011 mg/L
Cobalt		0.003 mg/L
Cobalt		0.004 mg/L
HSB115D	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB115D	10/05/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB116C	01/31/88	
Cobalt		0.025 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB116C	04/14/88	
Appendix IX analyses detected the following:		
Cobalt		0.022 mg/L
Cyanide		0.0208 mg/L
HSB116C	07/17/88	
Cobalt		0.034 mg/L
Antimony		<0.003 mg/L
HSB116C	10/05/88	
Cobalt		0.021 mg/L
Antimony		<0.003 mg/L
HSB116D	01/31/88	
Cobalt		0.011 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB116D	04/14/88	
Appendix IX analyses detected the following.		
Cobalt		0.011 mg/L
Cyanide		0.0186 mg/L
HSB116D	07/17/88	
Cobalt		0.006 mg/L
Antimony		<0.003 mg/L
HSB116D	10/05/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB117A	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB117A	07/17/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB117A	11/13/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Antimony		<0.03 mg/L
HSB117C	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB117C	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB117C	10/16/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB117D	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB117D	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB117D	10/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB118A	02/15/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB118A	04/10/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.015 mg/L
HSB118A	07/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB118A	11/13/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Antimony		<0.03 mg/L
HSB119A	01/30/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB119A	04/14/88	
Appendix IX analyses detected the following:		
Cobalt		0.004 mg/L
Cobalt		0.004 mg/L
Vanadium		0.007 mg/L
Vanadium		0.007 mg/L
HSB119A	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB119A	10/05/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB120A	01/30/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB120A	04/12/88	
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.28 mg/L
Vanadium		0.002 mg/L
HSB120A	07/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB120A	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB121A	01/30/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB121A	04/10/88	
Appendix IX analyses detected the following: None		
HSB121A	07/02/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB121A	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB122A	01/30/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB122A	04/13/88	
Appendix IX analyses detected the following:		
Carbon Disulfide		0.007 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB122A	07/31/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB122A	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB123A	01/27/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB123A	04/10/88	
Appendix IX analyses detected the following:		
Acetonitrile (methyl Cyanide)		0.010 mg/L
HSB123A	07/31/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB123A	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB124A	02/16/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		0.003 mg/L
Pest/Herb* analyses detected the following: None		
HSB124A	04/10/88	
Appendix IX analyses detected the following:		
Carbon Disulfide		0.008 mg/L
HSB124A	07/03/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB124A	10/08/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB125C	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB125C	07/20/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB125C	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB125D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB125D	07/20/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB125D	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB126C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB126C	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB126C	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB126D	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB126D	07/19/88	
Cobalt		0.004 mg/L
Antimony		<0.003 mg/L
HSB126D	10/19/88	
Cobalt		0.006 mg/L
Antimony		<0.03 mg/L
HSB127C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB127C	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB127C	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB127D	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB127D	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB127D	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB129C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB129C	07/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB129C	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB129D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB129D	07/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB129D	10/18/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Antimony		<0.03 mg/L
HSB130C	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB130C	07/03/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB130C	11/13/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
Antimony		<0.03 mg/L
HSB130D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB130D	07/03/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB130D	10/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB131C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB131C	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB131C	10/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB131D	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB131D	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB131D	10/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB132C	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB132C	07/03/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB132C	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB132D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB132D	07/03/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB132D	10/12/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		0.003 mg/L
HSB133C	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB133C	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB133C	10/12/88	
Cobalt		<0.004 mg/L
Antimony		0.003 mg/L
HSB133D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB133D	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB133D	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB134C	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB134C	07/17/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB134C	10/11/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB134D	04/09/88	
Pest/Herb* analyses detected the following: None		
HSB134D	07/17/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB134D	10/12/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB135C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB135C	07/07/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB135C	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB135D	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB135D	07/07/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB135D	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L
HSB136C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB136C	07/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB136C	10/18/88	
Cobalt		0.005 mg/L
Antimony		<0.03 mg/L
HSB136D	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB136D	07/16/88	
Cobalt		0.011 mg/L
Antimony		<0.003 mg/L
HSB136D	10/18/88	
Cobalt		0.011 mg/L
Antimony		<0.03 mg/L
HSB137C	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB137C	07/16/88	
Cobalt		0.003 mg/L
Antimony		<0.003 mg/L
HSB137C	10/16/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB137D	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB137D	07/16/88	
Cobalt		0.012 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB137D	10/16/88	
Cobalt		0.005 mg/L
Antimony		<0.003 mg/L
HSB138D	04/09/88	
Pest/Herb* analyses detected the following: None		

TABLE 5-50
GROUNDWATER MONITORING RESULTS FROM THE H-AREA SEEPAGE BASINS WELLS, CONT'D.

HSB138D	07/17/88	
Cobalt		0.003 mg/L
Cobalt		0.003 mg/L
Antimony		<0.003 mg/L
HSB138D	10/16/88	
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
HSB139A	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB139A	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB139A	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB139C	04/08/88	
Pest/Herb* analyses detected the following: None		
HSB139C	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB139C	10/19/88	
Cobalt		0.005 mg/L
Antimony		<0.03 mg/L
HSB139D	04/07/88	
Pest/Herb* analyses detected the following: None		
HSB139D	07/19/88	
Cobalt		<0.004 mg/L
Antimony		<0.003 mg/L
HSB139D	10/18/88	
Cobalt		<0.004 mg/L
Antimony		<0.03 mg/L

TABLE 5-51
GROUNDWATER MONITORING RESULTS FROM THE H-AREA TANK FARM WELLS

Well: HTF 1, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71745.0			
Coordinates	E 62067.0	Screen Zone Elevation		256.9 - 236.9
Latitude	33.285720° N	Top of Casing Elevation		282.0
Longitude	81.642728° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272	271.4	271.2	271
pH	pH	7.3	7.1	6.3	5.8
Conductivity	µmhos/cm	-	-	301	254
Gross Alpha	pCi/L	<0.1	0.2	0.3	0.1
Nonvolatile Beta	pCi/L	5.5	4.1	5.5	6.3
Total Radium	pCi/L	-	1.7	0.9	-
Tritium	pCi/mL	61.0	59.6	54.3	48.8
Sodium	mg/L	-	-	-	5.58
Nitrate (as N)	mg/L	-	-	<0.05	<0.05

Well: HTF 2, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71610.0			
Coordinates	E 62175.0	Screen Zone Elevation		257.0 - 237.0
Latitude	33.285597° N	Top of Casing Elevation		281.8
Longitude	81.642181° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.7	273.3	273.4	272.8
pH	pH	6.6	6.2	5.9	6.0
Conductivity	µmhos/cm	-	-	196	205
Gross Alpha	pCi/L	0.2	0.6	0.3	0.3
Nonvolatile Beta	pCi/L	1.9	3.1	5.5	2.9
Total Radium	pCi/L	-	2.0	0.6	-
Tritium	pCi/mL	44.5	34.4	49.8	35.3
Sodium	mg/L	-	-	-	4.39
Nitrate (as N)	mg/L	-	-	<0.05	0.05

Well: HTF 3, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71510.0			
Coordinates	E 62067.0	Screen Zone Elevation		-
Latitude	33.285200° N	Top of Casing Elevation		280.7
Longitude	81.642272° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88
Sampling Method	NA	Bail	Bail	Bail
Water Elevation	ft	273.7	273.7	273.5
pH	pH	7.5	6.1	6.4
Conductivity	µmhos/cm	-	-	230
Gross Alpha	pCi/L	<0.1	0.5	0.4
Nonvolatile Beta	pCi/L	18.3	28.1	28.3
Total Radium	pCi/L	-	2.0	0.7
Tritium	pCi/mL	37.8	40.3	42.3
Sodium	mg/L	-	-	-
Nitrate (as N)	mg/L	-	-	<0.05

Well: HTF 4, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71630.0			
Coordinates	E 61942.0	Screen Zone Elevation		255.2 - 235.2
Latitude	33.285262° N	Top of Casing Elevation		282.9
Longitude	81.642834° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.8	272.9	272.9	272.5
pH	pH	6.9	5.9	6.0	6.2
Conductivity	µmhos/cm	-	-	177	191
Gross Alpha	pCi/L	0.5	0.3	0.4	0.3
Nonvolatile Beta	pCi/L	1.9	1.5	2.0	2.8
Total Radium	pCi/L	-	1.2	<1.0	-
Tritium	pCi/mL	42.2	42.0	39.1	35.0
Sodium	mg/L	-	-	-	3.76
Nitrate (as N)	mg/L	-	-	<0.05	<0.05

Well: HTF 5, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71390.0			
Coordinates	E 62110.0	Screen Zone Elevation		284.3 - 264.3
Latitude	33.285005° N	Top of Casing Elevation		305.8
Longitude	81.641925° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277.8	277.3	278.3	278.4
pH	pH	6.0	5.6	4.9	5.0
Conductivity	µmhos/cm	-	-	41	41
Gross Alpha	pCi/L	1.2	1.0	27.4	0.4
Nonvolatile Beta	pCi/L	27.4	24.9	55.0	41.4
Total Radium	pCi/L	-	2.6	3.4	-
Tritium	pCi/mL	48.7	31.2	30.8	35.3
Sodium	mg/L	-	-	-	2.92
Nitrate (as N)	mg/L	-	-	1.74	1.47

Well: HTF 6, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71259.0			
Coordinates	E 62228.0	Screen Zone Elevation		283.6 - 263.6
Latitude	33.284907° N	Top of Casing Elevation		305.4
Longitude	81.641360° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	278.4	276.4	275.6	276.4
pH	pH	5.0	5.2	4.3	4.3
Conductivity	µmhos/cm	-	-	40	42
Gross Alpha	pCi/L	0.6	0.4	1.6	0.7
Nonvolatile Beta	pCi/L	18.1	20.9	19.2	30.2
Total Radium	pCi/L	-	4.7	4.9	-
Tritium	pCi/mL	36.4	33.7	27.7	27.1
Sodium	mg/L	-	-	-	4.15
Nitrate (as N)	mg/L	-	-	1.72	1.62

Well: HTF 7, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71130.0			
Coordinates	E 62112.0	Screen Zone Elevation		283.5 - 263.5
Latitude	33.284433° N	Top of Casing Elevation		305.3
Longitude	81.641415° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.7	274.3	274.3	274.3
pH	pH	5.5	5.3	5.0	4.9
Conductivity	µmhos/cm	-	-	185	123
Gross Alpha	pCi/L	0.3	0.8	1.0	0.6
Nonvolatile Beta	pCi/L	3.7	7.4	3.9	4.5
Total Radium	pCi/L	-	1.1	2.9	-
Tritium	pCi/mL	12.0	10.5	7.18	9.06
Sodium	mg/L	-	-	-	5.11
Nitrate (as N)	mg/L	-	-	0.20	0.29

Well: HTF 8, H-Area Tank Farm

				ft (msl)
SRP Grid	N 71270.0			
Coordinates	E 61965.0	Screen Zone Elevation		283.6 - 263.6
Latitude	33.284503° N	Top of Casing Elevation		305.7
Longitude	81.642074° W	Casing Material		Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.7	274.5	274.1	274.3
pH	pH	4.6	5.8	3.9	3.9
Conductivity	µmhos/cm	-	-	41	38
Gross Alpha	pCi/L	0.8	0.4	5.6	1.5
Nonvolatile Beta	pCi/L	4.0	4.8	8.5	4.5
Total Radium	pCi/L	-	0.8	2.1	-
Tritium	pCi/mL	32.4	33.2	22.6	26.2
Sodium	mg/L	-	-	-	2.59
Nitrate (as N)	mg/L	-	-	1.68	1.47

TABLE 5-51
GROUNDWATER MONITORING RESULTS FROM THE H-AREA TANK FARM WELLS, CONT'D.

Well: HTF 9, H-Area Tank Farm

SRP Grid	N 71652.0		ft (msl)
Coordinates	E 61698.0	Screen Zone Elevation	265.8 - 245.8
Latitude	33.284912° N	Top of Casing Elevation	324.0
Longitude	81.643519° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	271.3	271.5	272.6	271.2
pH	pH	6.6	5.8	5.2	6.2
Conductivity	µmhos/cm	-	-	81	78
Gross Alpha	pCi/L	0.5	0.5	0.4	0.3
Nonvolatile Beta	pCi/L	13.1	12.3	7.6	4.1
Total Radium	pCi/L	-	0.7	0.5	-
Tritium	pCi/mL	156	176	182	172
Sodium	mg/L	-	-	-	3.72
Nitrate (as N)	mg/L	-	-	< 0.05	< 0.05

Well: HTF 10, H-Area Tank Farm

SRP Grid	N 71520.0		ft (msl)
Coordinates	E 61838.0	Screen Zone Elevation	265.2 - 245.2
Latitude	33.284849° N	Top of Casing Elevation	322.7
Longitude	81.642894° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272.1	271.5	270.9	271.5
pH	pH	6.8	5.8	5.7	6.0
Conductivity	µmhos/cm	-	-	175	161
Gross Alpha	pCi/L	0.4	0.4	0.2	0.5
Nonvolatile Beta	pCi/L	2.9	2.2	2.7	1.6
Total Radium	pCi/L	-	0.9	0.6	-
Tritium	pCi/mL	118	132	142	125
Sodium	mg/L	-	-	-	4.33
Nitrate (as N)	mg/L	-		< 0.05	< 0.05

Well: HTF 11, H-Area Tank Farm

SRP Grid	N 71398.0		ft (msl)
Coordinates	E 61722.0	Screen Zone Elevation	258.9 - 238.9
Latitude	33.284390° N	Top of Casing Elevation	322.8
Longitude	81.642963° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272.1	272	271.7	272.4
pH	pH	6.4	3.7	5.4	5.8
Conductivity	µmhos/cm	-	-	91	90
Gross Alpha	pCi/L	0.9	0.2	0.5	0.4
Nonvolatile Beta	pCi/L	3.3	4.2	3.0	1.3
Total Radium	pCi/L	-	0.7	0.4	-
Tritium	pCi/mL	124	118	142	127
Sodium	mg/L	-	-	-	4.80
Nitrate (as N)	mg/L	-	1.02	0.34	0.28

Well: HTF 12, H-Area Tank Farm

SRP Grid	N 71520.0		ft (msl)
Coordinates	E 61593.0	Screen Zone Elevation	262.9 - 242.9
Latitude	33.284449° N	Top of Casing Elevation	322.9
Longitude	81.643539° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	271.5	270.9	271.3	271.5
pH	pH	6.3	5.8	5.4	6.0
Conductivity	µmhos/cm	-	-	64	63
Gross Alpha	pCi/L	0.4	0.2	0.4	0.1
Nonvolatile Beta	pCi/L	1.9	2.4	2.3	1.2
Total Radium	pCi/L	-	< 1.0	0.3	-
Tritium	pCi/mL	189	187	182	155
Sodium	mg/L	-	-	-	4.15
Nitrate (as N)	mg/L	-	-	0.36	0.29

Well: HTF 13, H-Area Tank Farm

SRP Grid	N 71856.0		ft (msl)
Coordinates	E 61586.0	Screen Zone Elevation	282.6 - 262.6
Latitude	33.285181° N	Top of Casing Elevation	324.4
Longitude	81.644210° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	-	Bail
Water Elevation	ft	272.2	272	-	273.3
pH	pH	5.8	5.6	-	6.1
Conductivity	µmhos/cm	-	-	-	53
Gross Alpha	pCi/L	0.3	0.3	-	0.4
Nonvolatile Beta	pCi/L	1.3	0.6	-	1.9
Total Radium	pCi/L	-	9.6	-	-
Tritium	pCi/mL	30.7	26.7	-	25.0
Sodium	mg/L	-	-	-	3.76
Nitrate (as N)	mg/L	-	-	-	0.63

Well: HTF 14, H-Area Tank Farm

SRP Grid	N 71858.0		ft (msl)
Coordinates	E 61462.0	Screen Zone Elevation	281.9 - 261.9
Latitude	33.284983° N	Top of Casing Elevation	323.9
Longitude	81.644541° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	271.5	271.1	-	-
pH	pH	6.1	5.2	-	-
Conductivity	µmhos/cm	-	-	-	-
Gross Alpha	pCi/L	0.6	0.3	-	-
Nonvolatile Beta	pCi/L	3.1	4.4	-	-
Total Radium	pCi/L	-	20.6	-	-
Tritium	pCi/mL	80.6	70.1	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	1.48	-	-

Well: HTF 15, H-Area Tank Farm

SRP Grid	N 71700.0		ft (msl)
Coordinates	E 61353.0	Screen Zone Elevation	280.7 - 260.7
Latitude	33.284456° N	Top of Casing Elevation	322.5
Longitude	81.644521° W	Casing Material	Steel

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	-	Bail
Water Elevation	ft	271.6	271.5	-	273
pH	pH	4.8	4.3	-	4.4
Conductivity	µmhos/cm	-	-	-	50
Gross Alpha	pCi/L	0.7	0.6	-	0.7
Nonvolatile Beta	pCi/L	1.2	0.3	-	< 0.1
Total Radium	pCi/L	-	10.7	-	-
Tritium	pCi/mL	69.5	69.2	-	48.6
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	2.37	-	-

Well: HTF 16, H-Area Tank Farm

SRP Grid	N 72150.0		ft (msl)
Coordinates	E 61950.0	Screen Zone Elevation	268.3 - 248.3
Latitude	33.286425° N	Top of Casing Elevation	300.3
Longitude	81.643823° W	Casing Material	Steel

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	269.2	268	268	267.8
pH	pH	5.4	4.8	6.1	5.0
Conductivity	µmhos/cm	-	-	55	50
Gross Alpha	pCi/L	0.2	0.5	1.2	0.7
Nonvolatile Beta	pCi/L	1.1	1.2	2.1	1.4
Total Radium	pCi/L	-	8.7	9.7	-
Tritium	pCi/mL	40.2	41.2	32.6	22.4
Sodium	mg/L	-	-	-	3.19
Nitrate (as N)	mg/L	-	-	349	2.35

TABLE 5-51
GROUNDWATER MONITORING RESULTS FROM THE H-AREA TANK FARM WELLS, CONT'D.

Well: HTF 17, H-Area Tank Farm

SRP Grid Coordinates	N 72600.0 E 61188.0	Screen Zone Elevation	ft (msl) 258.4 - 238.4
Latitude	33.286177° N	Top of Casing Elevation	290.2
Longitude	81.646704° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	-	Bail
Water Elevation	ft	261.6	260.7	-	260.6
pH	pH	6.2	6.5	-	5.5
Conductivity	µmhos/cm	-	-	-	94
Gross Alpha	pCi/L	0.2	0.6	-	0.2
Nonvolatile Beta	pCi/L	5.8	3.4	-	2.6
Total Radium	pCi/L	-	7.5	-	-
Tritium	pCi/mL	74.8	67.4	-	54.5
Sodium	mg/L	-	-	-	1.54
Nitrate (as N)	mg/L	-	-	-	3.36

Well: HTF 18, H-Area Tank Farm

SRP Grid Coordinates	N 71771.8 E 61223.3	Screen Zone Elevation	ft (msl) 271.7 - 251.7
Latitude	33.284403° N	Top of Casing Elevation	323.7
Longitude	81.645002° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	269.7	269.7	269.9	269.7
pH	pH	4.8	4.2	4.2	4.3
Conductivity	µmhos/cm	-	-	59	55
Gross Alpha	pCi/L	1.3	0.8	1.4	0.4
Nonvolatile Beta	pCi/L	2.7	4.0	3.9	2.6
Total Radium	pCi/L	-	2.8	6.7	-
Tritium	pCi/mL	38.5	24.9	25.7	22.2
Sodium	mg/L	-	-	-	5.71
Nitrate (as N)	mg/L	-	-	2.86	1.81

Well: HTF 19, H-Area Tank Farm

SRP Grid Coordinates	N 71902.5 E 61079.2	Screen Zone Elevation	ft (msl) 265.7 - 245.7
Latitude	33.284457° N	Top of Casing Elevation	324.8
Longitude	81.645635° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	267.6	267.6	267.8	267.4
pH	pH	5.2	5.1	4.6	4.7
Conductivity	µmhos/cm	-	-	36	38
Gross Alpha	pCi/L	0.0	1.1	0.3	0.5
Nonvolatile Beta	pCi/L	1.6	3.4	2.5	2.7
Total Radium	pCi/L	-	1.6	2.0	-
Tritium	pCi/mL	16.6	23.6	12.4	12.5
Sodium	mg/L	-	-	-	2.43
Nitrate (as N)	mg/L	-	-	0.29	0.28

Well: HTF 20, H-Area Tank Farm

SRP Grid Coordinates	N 72073.3 E 61086.4	Screen Zone Elevation	ft (msl) 271.9 - 251.9
Latitude	33.284847° N	Top of Casing Elevation	324.9
Longitude	81.645948° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	266.4	266.1	266.3	265.6
pH	pH	5.2	4.8	4.1	4.2
Conductivity	µmhos/cm	-	-	50	49
Gross Alpha	pCi/L	0.6	0.8	0.2	0.7
Nonvolatile Beta	pCi/L	10.1	3.4	2.2	2.4
Total Radium	pCi/L	-	1.8	6.2	-
Tritium	pCi/mL	20.2	20.9	21.1	22.4
Sodium	mg/L	-	-	-	6.95
Nitrate (as N)	mg/L	-	-	<0.05	2.45

Well: HTF 21, H-Area Tank Farm

SRP Grid Coordinates	N 71998.2 E 61261.0	Screen Zone Elevation	ft (msl) 262.6 - 242.6
Latitude	33.284965° N	Top of Casing Elevation	324.7
Longitude	81.645342° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	269	267.5	268.2	268.3
pH	pH	4.9	4.1	4.5	4.6
Conductivity	µmhos/cm	-	-	46	44
Gross Alpha	pCi/L	0.8	1.1	0.4	1.0
Nonvolatile Beta	pCi/L	2.0	1.1	1.8	2.4
Total Radium	pCi/L	-	2.1	4.8	-
Tritium	pCi/mL	34.7	30.8	20.9	18.6
Sodium	mg/L	-	-	-	4.73
Nitrate (as N)	mg/L	-	-	0.86	1.15

Well: HTF 22, H-Area Tank Farm

SRP Grid Coordinates	N 71363.4 E 62553.6	Screen Zone Elevation	ft (msl) 271.4 - 251.4
Latitude	33.285670° N	Top of Casing Elevation	333.5
Longitude	81.640705° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.9	273.5	273	273.2
pH	pH	6.8	6.1	6.5	6.5
Conductivity	µmhos/cm	-	-	175	172
Gross Alpha	pCi/L	0.5	0.3	0.2	0.0
Nonvolatile Beta	pCi/L	2.3	3.1	2.7	2.8
Total Radium	pCi/L	-	< 1.0	4.0	-
Tritium	pCi/mL	21.0	18.2	17.2	15.5
Sodium	mg/L	-	-	-	5.77
Nitrate (as N)	mg/L	-	-	<0.05	0.75

Well: HTF 23, H-Area Tank Farm

SRP Grid Coordinates	N 71363.1 E 62670.3	Screen Zone Elevation	ft (msl) 276.8 - 256.8
Latitude	33.285859° N	Top of Casing Elevation	334.0
Longitude	81.640398° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.1	273	272.3	273
pH	pH	8.0	8.5	6.6	6.5
Conductivity	µmhos/cm	-	-	125	125
Gross Alpha	pCi/L	0.2	0.1	0.3	0.1
Nonvolatile Beta	pCi/L	1.9	2.1	0.8	1.5
Total Radium	pCi/L	-	3.5	3.2	-
Tritium	pCi/mL	32.2	32.3	30.8	26.6
Sodium	mg/L	-	-	-	4.77
Nitrate (as N)	mg/L	-	-	1.77	1.88

Well: HTF 24, H-Area Tank Farm

SRP Grid Coordinates	N 71362.6 E 62775.6	Screen Zone Elevation	ft (msl) 277.8 - 257.8
Latitude	33.286030° N	Top of Casing Elevation	333.9
Longitude	81.640119° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272.9	272.6	271.9	271.7
pH	pH	5.5	7.2	5.2	5.0
Conductivity	µmhos/cm	-	-	55	40
Gross Alpha	pCi/L	0.3	0.3	0.1	0.1
Nonvolatile Beta	pCi/L	<0.2	0.5	1.3	1.9
Total Radium	pCi/L	-	0.4	1.1	-
Tritium	pCi/mL	31.2	30.4	32.4	28.0
Sodium	mg/L	-	-	-	4.14
Nitrate (as N)	mg/L	-	-	2.78	2.40

TABLE 5-51
GROUNDWATER MONITORING RESULTS FROM THE H-AREA TANK FARM WELLS, CONT'D.

Well: HTF 25, H-Area Tank Farm

SRP Grid Coordinates	N 71224.3 E 62902.0	Screen Zone Elevation	ft (msl) 272.5 - 252.5
Latitude	33.285930° N	Top of Casing Elevation	334.3
Longitude	81.639518° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272.5	272.3	271.7	271.6
pH	pH	5.6	5.8	6.8	5.0
Conductivity	µmhos/cm	-	-	45	35
Gross Alpha	pCi/L	0.0	0.2	0.3	0.4
Nonvolatile Beta	pCi/L	1.5	0.8	1.1	0.6
Total Radium	pCi/L	-	0.7	0.3	-
Tritium	pCi/mL	82.2	58.1	51.0	34.0
Sodium	mg/L	-	-	-	2.95
Nitrate (as N)	mg/L	-	-	0.99	1.06

Well: HTF 26, H-Area Tank Farm

SRP Grid Coordinates	N 71090.7 E 62815.7	Screen Zone Elevation	ft (msl) 275.5 - 255.5
Latitude	33.285494° N	Top of Casing Elevation	335.5
Longitude	81.639486° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.3	273	272.5	273
pH	pH	5.4	6.3	4.3	4.9
Conductivity	µmhos/cm	-	-	94	83
Gross Alpha	pCi/L	1.1	0.9	1.6	1.8
Nonvolatile Beta	pCi/L	9.4	9.7	9.1	9.6
Total Radium	pCi/L	-	10.9	21.2	-
Tritium	pCi/mL	20.7	23.7	22.6	17.3
Sodium	mg/L	-	-	-	4.42
Nitrate (as N)	mg/L			5.09	2.81

Well: HTF 27, H-Area Tank Farm

SRP Grid Coordinates	N 71057.9 E 62660.3	Screen Zone Elevation	ft (msl) 279.1 - 259.1
Latitude	33.285168° N	Top of Casing Elevation	333.1
Longitude	81.639831° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.6	277.3	272.9	273.6
pH	pH	4.4	4.5	3.5	3.6
Conductivity	µmhos/cm	-	-	66	68
Gross Alpha	pCi/L	1.4	2.2	0.7	1.0
Nonvolatile Beta	pCi/L	4.6	6.9	2.4	2.8
Total Radium	pCi/L	-	2.7	2.8	-
Tritium	pCi/mL	18.5	18.7	15.6	14.0
Sodium	mg/L	-	-	-	5.12
Nitrate (as N)	mg/L	-	-	1.53	1.58

Well: HTF 28, H-Area Tank Farm

SRP Grid Coordinates	N 71080.1 E 62515.7	Screen Zone Elevation	ft (msl) 271.9 - 251.9
Latitude	33.284981° N	Top of Casing Elevation	333.7
Longitude	81.640255° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88
Sampling Method	NA	Bail	Bail	Bail
Water Elevation	ft	275.7	273.9	273.7
pH	pH	4.7	5.2	4.4
Conductivity	µmhos/cm	-	-	45
Gross Alpha	pCi/L	1.0	0.2	0.7
Nonvolatile Beta	pCi/L	1.5	0.1	1.3
Total Radium	pCi/L	-	0.8	1.0
Tritium	pCi/mL	14.6	15.1	13.6
Sodium	mg/L	-	-	-
Nitrate (as N)	mg/L	-	-	<0.05

Well: HTF 29, H-Area Tank Farm

SRP Grid Coordinates	N 71229.9 E 62414.9	Screen Zone Elevation	ft (msl) 289.9 - 259.9
Latitude	33.285148° N	Top of Casing Elevation	333.5
Longitude	81.640812° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.3	273.8	273.6	274.3
pH	pH	5.3	5.2	2.6	5.4
Conductivity	µmhos/cm	-	-	25	54
Gross Alpha	pCi/L	0.1	0.5	1.7	0.0
Nonvolatile Beta	pCi/L	0.1	0.2	2.9	0.2
Total Radium	pCi/L	-	0.9	3.1	-
Tritium	pCi/mL	26.8	22.5	20.2	20.0
Sodium	mg/L	-	-	-	6.26
Nitrate (as N)	mg/L	-	-	13.8	3.32

Well: HTF 31, H-Area Tank Farm

SRP Grid Coordinates	N 70747.0 E 62662.5	Screen Zone Elevation	ft (msl) 266.7 - 246.7
Latitude	33.284484° N	Top of Casing Elevation	327.7
Longitude	81.639222° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/18/88
Sampling Method	NA	Bail	Bail	Bail
Water Elevation	ft	274.2	273.7	273.3
pH	pH	5.1	5.1	4.5
Conductivity	µmhos/cm	-	-	55
Gross Alpha	pCi/L	0.0	0.6	0.2
Nonvolatile Beta	pCi/L	0.6	0.8	1.1
Total Radium	pCi/L	-	<1.0	<1.0
Tritium	pCi/mL	14.1	14.5	12.6
Sodium	mg/L	-	-	-
Nitrate (as N)	mg/L	-	-	3.61

Well: HTF 32, H-Area Tank Farm

SRP Grid Coordinates	N 70880.6 E 62807.9	Screen Zone Elevation	ft (msl) 271.1 - 251.1
Latitude	33.285016° N	Top of Casing Elevation	329.1
Longitude	81.639098° W	Casing Material	PVC

Parameter	Units	01/23/88	04/23/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	273.7	273.3	272.5	272.9
pH	pH	4.8	4.5	4.0	4.0
Conductivity	µmhos/cm	-	-	44	38
Gross Alpha	pCi/L	0.3	0.1	0.3	0.3
Nonvolatile Beta	pCi/L	0.4	0.7	0.6	1.1
Total Radium	pCi/L	-	0.9	1.8	-
Tritium	pCi/mL	15.8	15.6	13.9	12.2
Sodium	mg/L	-	-	-	6.85
Nitrate (as N)	mg/L	-	-	2.58	2.29

Well: HTF 34, H-Area Tank Farm

SRP Grid Coordinates	N 71144.1 E 61978.5	Screen Zone Elevation	ft (msl) 271.7 - 251.7
Latitude	33.284246° N	Top of Casing Elevation	305.5
Longitude	81.641794° W	Casing Material	PVC

Parameter	Units	01/23/88	04/16/88	07/16/88	10/15/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.7	273.9	274.2	274
pH	pH	5.2	5.4	4.7	4.9
Conductivity	µmhos/cm	-	-	81	70
Gross Alpha	pCi/L	0.9	0.5	0.2	0.6
Nonvolatile Beta	pCi/L	1.9	3.4	3.9	1.9
Total Radium	pCi/L	-	1.5	4.0	-
Tritium	pCi/mL	30.6	29.3	24.7	21.9
Sodium	mg/L	-	-	-	4.60
Nitrate (as N)	mg/L	-	-	0.97	0.84

TABLE 5-51
GROUNDWATER MONITORING RESULTS FROM THE H-AREA TANK FARM WELLS, CONT'D.

Other Analyses
(Gamma PHA Analytes: Table 5-91)

HTF 5	07/16/88	
Gamma PHA analyses detected the following: None		
HTF 6	07/16/88	
Potassium 40		0.663 pCi/mL
Lead 212		0.187 pCi/mL
Gamma PHA analyses detected the following:		
Cesium 137		0.301 pCi/mL
HTF 7	07/16/88	
Gamma PHA analyses detected the following:		
Cesium 137		0.301 pCi/mL
HTF 8	07/16/88	
Gamma PHA analyses detected the following:		
Cesium 137		0.301 pCi/mL

Well: 241-H, H - Area Tank Farm, between tanks #9 and #11

			ft (msl)
SRP Grid	N 71639.9		
Coordinates	E 62034.6	Screen Zone Elevation	-
Latitude	33.285435° N	Top of Casing Elevation	283.4
Longitude	81.642609° W	Casing Material	Steel

Parameter	Units	01/23/88	04/16/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	273.5	273.4
pH	pH	7.5	6.3
Conductivity	µmhos/cm	8	
Gross Alpha	pCi/L	0.3	0.3
Nonvolatile Beta	pCi/L	8.9	10.2
Tritium	pCi/mL	721	651

TABLE 5-52
MAXIMUM CONSTITUENT LEVELS AT K AREA

Constituent	DWS	Units	KAB	KAC	KCB	KDB
Gross Alpha	15	pCi/L	**38.6**	5.7	**52.8**	14.9
Nonvolatile Beta	-	pCi/L	48.4	7.3	35.2	18.1
Total Radium	5	pCi/L	**12.4**	**5.15**	**11.3**	4.9
Tritium	20	pCi/mL	6.7	9.8	**28.9**	**2430**
Arsenic	0.05	mg/L	-	0.004	-	-
Barium	1	mg/L	0.101	0.019	0.083	0.088
Cadmium	0.01	mg/L	-	<0.002	-	-
Chromium	0.05	mg/L	-	<0.004	-	-
Fluoride	4	mg/L	-	0.98	1.69	-
Lead	0.05	mg/L	-	0.034	0.009	**0.114**
Mercury	0.002	mg/L	-	0.0002	-	0.0005
Selenium	0.01	mg/L	<0.002	<0.002	<0.002	-
Silver	0.05	mg/L	-	0.005	-	<0.002
Nitrate (as N)	10	mg/L	-	0.29	-	3.65
Carbon Tetrachloride	0.005	mg/L	-	<0.001	-	<0.005
Chloroform	0.1*	mg/L	-	0.01	-	<0.005
Trichloroethylene	0.005	mg/L	-	<0.001	-	**0.197**
1,1,1-Trichloroethane	0.2	mg/L	-	<0.001	-	<0.005
Benzene	0.005	mg/L	-	-	-	<0.005
Chloroethene	0.002	mg/L	-	-	-	<0.01
1,2-Dichloroethane	0.005	mg/L	-	-	-	<0.005
1,1-Dichloroethylene	0.005	mg/L	-	-	-	<0.005
2,4-D	0.1	mg/L	-	<0.0003	-	-
Endrin	0.0002	mg/L	-	<0.0001	-	-
Lindane	0.004	mg/L	-	<0.00001	-	-
Methoxychlor	0.1	mg/L	-	<0.0005	-	-
Silvex	0.01	mg/L	-	<0.0001	-	-
Toxaphene	0.005	mg/L	-	<0.001	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

KAB = K-Area Ash Basin Wells
KAC = K-Area Acid/Caustic Basin Wells
KCB = K-Area Coal Pile Runoff Containment Basin Wells
KDB = K-Area Disassembly Basin Wells

TABLE 5-52
MAXIMUM CONSTITUENT LEVELS AT K AREA, CONT'D.

Constituent	DWS	Units	KRB	KRP	KSB
Gross Alpha	15	pCi/L	5.4	-	1.1
Nonvolatile Beta	-	pCi/L	126	-	3.01
Total Radium	5	pCi/L	3.6	-	-
Tritium	20	pCi/mL	**136000**	10.5	**327**
Cobalt-60	0.1	pCi/mL	-	-	0
Chromium-51	6	pCi/mL	-	-	0
Cesium-134	0.08	pCi/mL	-	-	0
Cesium-137	0.2	pCi/mL	-	-	0
Iodine-131	0.003	pCi/mL	-	-	0
Ruthenium-103	0.2	pCi/mL	-	-	0
Antimony-125	0.3	pCi/mL	-	-	0
Zirconium/Niobium-95	0.2	pCi/mL	-	-	0
Barium	1	mg/L	-	0.045	-
Cadmium	0.01	mg/L	**0.013**	-	-
Fluoride	4	mg/L	<0.1	-	-
Lead	0.05	mg/L	**0.259**	0.048	-
Silver	0.05	mg/L	-	-	<0.002
Carbon Tetrachloride	0.005	mg/L	<0.001	<0.001	-
Chloroform	0.1*	mg/L	<0.001	0.011	-
Trichloroethylene	0.005	mg/L	<0.001	**0.032**	-
1,1,1-Trichloroethane	0.2	mg/L	<0.001	<0.001	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

KRB = K-Area Retention Basin Wells
KRP = K-Area Burning/Rubble Pit Wells
KSB = K-Area Reactor Seepage Basin Wells

TABLE 5-53
GROUNDWATER MONITORING RESULTS FROM THE K-AREA ACID/CAUSTIC BASIN WELLS

Well: KAC 1, K-Area Acid/Caustic Basin

SRP Grid	N 53167.0		ft (msl)
Coordinates	E 42614.8	Screen Zone Elevation	229.0 - 199.0
Latitude	33.212893° N	Top of Casing Elevation	266.0
Longitude	81.657866° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/24/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.6	214.6	215.2	215.7
pH	pH	5.4	5.0	5.1	4.9
Conductivity	µmhos/cm	2300	2310	2200	2410
Alkalinity	mg/L	8	4	4	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	< 8.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 7.0	-	< 2.0	-
Total Radium	pCi/L	5.1	-	5.1	-
Tritium	pCi/mL	1.40	-	-	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	13.7	-	-	-
Chloride	mg/L	34.2	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	< 0.004	-	-	-
Fluoride	mg/L	0.19	-	-	-
Iron	mg/L	0.057	-	0.400	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	14.2	-	-	-
Manganese	mg/L	0.150	-	0.160	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0040	-	-	-
Sodium	mg/L	493	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	1080	-	1200	-
Phenols	mg/L	< 0.005	-	-	-
Tot Org Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	0.041	-	0.009	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.010	-	0.006	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: KAC 3, K-Area Acid/Caustic Basin

SRP Grid	N 53201.8		ft (msl)
Coordinates	E 42723.9	Screen Zone Elevation	225.8 - 195.8
Latitude	33.213148° N	Top of Casing Elevation	257.8
Longitude	81.657646° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/24/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.5	216.3	218.4	219
pH	pH	9.7	10.2	8.7	8.2
Conductivity	µmhos/cm	1100	1365	530	545
Alkalinity	mg/L	175	320	94	113
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	< 5.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 3.0	-	7.3	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	2.80	-	-	-
Arsenic	mg/L	0.004	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.575	-	-	-
Chloride	mg/L	15.3	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	0.006	-	-	-
Fluoride	mg/L	0.98	-	-	-
Iron	mg/L	0.020	-	0.052	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	0.124	-	-	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	263	-	-	-
Total Phosphates	mg/L	1.03	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	102	-	116	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	0.003	-
Carbon Tetrachloride	mg/L	-	< 0.001	< 0.001	-
Chloroform	mg/L	-	< 0.001	< 0.001	-
Tetrachloroethylene	mg/L	-	< 0.001	< 0.001	-
Trichloroethylene	mg/L	-	< 0.001	< 0.001	-
1,1,1-TCE	mg/L	-	< 0.001	< 0.001	-

Well: KAC 2, K-Area Acid/Caustic Basin

SRP Grid	N 53255.5		ft (msl)
Coordinates	E 42677.2	Screen Zone Elevation	225.4 - 195.4
Latitude	33.213191° N	Top of Casing Elevation	257.5
Longitude	81.657873° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/24/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.7	215.2	216.3	217
pH	pH	6.8	7.0	7.0	7.2
Conductivity	µmhos/cm	480	312	300	375
Alkalinity	mg/L	100	87	71	79
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	9.80	-	-	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	1.24	-	-	-
Chloride	mg/L	6.0	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	0.016	-	-	-
Fluoride	mg/L	0.40	-	-	-
Iron	mg/L	0.185	-	0.327	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	0.578	-	-	-
Manganese	mg/L	0.004	-	0.006	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	108	-	-	-
Total Phosphates	mg/L	0.080	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	7.5	-	67.3	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	0.009	-	0.019	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: KAC 4, K-Area Acid/Caustic Basin

SRP Grid	N 53053.5		ft (msl)
Coordinates	E 42676.4	Screen Zone Elevation	208.0 - 178.0
Latitude	33.212743° N	Top of Casing Elevation	260.0
Longitude	81.657484° W	Casing Material	PVC

Parameter	Units	02/06/88	05/23/88	08/24/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.6	213.6	214.3	214.7
pH	pH	5.4	5.3	5.3	5.1
Conductivity	µmhos/cm	145	177	144	135
Alkalinity	mg/L	3	4	7	2
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	2.0	-	3.5	-
Nonvolatile Beta	pCi/L	2.7	-	2.5	-
Total Radium	pCi/L	< 1.0	-	0.7	-
Tritium	pCi/mL	1.70	-	-	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.769	-	-	-
Chloride	mg/L	11.2	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.019	-	0.281	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	0.477	-	-	-
Manganese	mg/L	0.007	-	0.026	-
Mercury	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	0.0050	-	-	-
Sodium	mg/L	27.8	-	-	-
Total Phosphates	mg/L	0.160	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	128	-	38.1	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	0.009	-	0.013	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.009	-	0.006	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-53
GROUNDWATER MONITORING RESULTS FROM THE K-AREA ACID/CAUSTIC BASIN WELLS, CONT'D.

Well: KAC 5, K-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	53161.7		
Coordinates	E	42716.3	Screen Zone Elevation	224.3 - 204.3
Latitude		33.213047° N	Top of Casing Elevation	259.0
Longitude		81.657589° W	Casing Material	PVC

Parameter	Units	11/27/88
Sampling Method	NA	Pump
Water Elevation	ft	219.2
pH	pH	5.2
Conductivity	µmhos/cm	69
Alkalinity	mg/L	4
TDS	mg/L	57
Gross Alpha	pCi/L	1.7
Nonvolatile Beta	pCi/L	1.3
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.005
Cadmium	mg/L	< 0.002
Calcium	mg/L	0.610
Chloride	mg/L	6.4
Chromium	mg/L	< 0.004
Copper	mg/L	-
Fluoride	mg/L	< 0.10
Iron	mg/L	0.032
Lead	mg/L	< 0.006
Magnesium	mg/L	0.201
Manganese	mg/L	0.012
Mercury	mg/L	0.0002
Potassium	mg/L	< 0.500
Selenium	mg/L	< 0.002
Silica	mg/L	1.90
Silver	mg/L	< 0.0020
Sodium	mg/L	10.7
Total Phosphates	mg/L	0.050
Nitrate (as N)	mg/L	0.07
Sulfate	mg/L	10.3
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.011
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: KAC 6, K-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	53139.9		
Coordinates	E	42693.5	Screen Zone Elevation	224.6 - 204.6
Latitude		33.212962° N	Top of Casing Elevation	259.0
Longitude		81.657606° W	Casing Material	PVC

Parameter	Units	11/27/88
Sampling Method	NA	Pump
Water Elevation	ft	218.7
pH	pH	5.3
Conductivity	µmhos/cm	109
Alkalinity	mg/L	6
TDS	mg/L	81
Gross Alpha	pCi/L	1.7
Nonvolatile Beta	pCi/L	2.6
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	< 0.70
Arsenic	mg/L	< 0.002
Barium	mg/L	0.013
Cadmium	mg/L	< 0.002
Calcium	mg/L	1.29
Chloride	mg/L	6.4
Chromium	mg/L	< 0.004
Copper	mg/L	-
Fluoride	mg/L	< 0.10
Iron	mg/L	< 0.020
Lead	mg/L	< 0.006
Magnesium	mg/L	0.347
Manganese	mg/L	0.047
Mercury	mg/L	0.0002
Potassium	mg/L	1.31
Selenium	mg/L	< 0.002
Silica	mg/L	2.60
Silver	mg/L	< 0.0020
Sodium	mg/L	11.8
Total Phosphates	mg/L	0.030
Nitrate (as N)	mg/L	0.06
Sulfate	mg/L	14.4
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	< 0.005
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: KAC 7, K-Area Acid/Caustic Basin

				ft (msl)
SRP Grid	N	53252.9		
Coordinates	E	42574.5	Screen Zone Elevation	223.0 - 203.0
Latitude		33.213018° N	Top of Casing Elevation	265.1
Longitude		81.658139° W	Casing Material	PVC

Parameter	Units	11/27/88
Sampling Method	NA	Pump
Water Elevation	ft	215.7
pH	pH	5.9
Conductivity	µmhos/cm	302
Alkalinity	mg/L	36
TDS	mg/L	192
Gross Alpha	pCi/L	5.7
Nonvolatile Beta	pCi/L	3.9
Total Radium	pCi/L	0.8
Tritium	pCi/mL	1.74
Arsenic	mg/L	< 0.002
Barium	mg/L	0.019
Cadmium	mg/L	< 0.002
Calcium	mg/L	12.3
Chloride	mg/L	8.2
Chromium	mg/L	< 0.004
Copper	mg/L	-
Fluoride	mg/L	< 0.10
Iron	mg/L	0.735
Lead	mg/L	0.034
Magnesium	mg/L	0.817
Manganese	mg/L	0.065
Mercury	mg/L	0.0002
Potassium	mg/L	0.989
Selenium	mg/L	< 0.002
Silica	mg/L	4.00
Silver	mg/L	< 0.0020
Sodium	mg/L	50.2
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	0.29
Sulfate	mg/L	56.7
Phenols	mg/L	0.036
Tot. Org. Carbon	mg/L	2.90
Tot. Org. Halogens	mg/L	< 0.005
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

KAC 5	11/27/88	
Turbidity		2.3 NTU
Pest/Herb* analyses detected the following: None		
KAC 6	11/27/88	
Turbidity		0.161 NTU
Pest/Herb* analyses detected the following: None		
KAC 7	11/27/88	
Turbidity		0.543 NTU
Pest/Herb* analyses detected the following: None		

TABLE 5-54
GROUNDWATER MONITORING RESULTS FROM THE K-AREA ASH BASIN WELLS

Well: KAB 1, K-Area Ash Basin

SRP Grid	N 53055.6		ft (msl)
Coordinates	E 39919.7	Screen Zone Elevation	224.0 - 194.0
Latitude	33.208250° N	Top of Casing Elevation	266.0
Longitude	81.664741° W	Casing Material	PVC

Parameter	Units	01/31/88	05/23/88	08/24/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.2	212	210.4	210.4
pH	pH	5.4	6.5	5.8	4.8
Conductivity	µmhos/cm	305	494	295	398
Alkalinity	mg/L	25	80	12	1
Gross Alpha	pCi/L	2.3	-	16.8	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Total Radium	pCi/L	5.0	-	3.4	-
Tritium	pCi/mL	6.60	-	-	-
Barium	mg/L	0.052	-	-	-
Calcium	mg/L	27.7	-	-	-
Chloride	mg/L	11.8	-	-	-
Iron	mg/L	3.67	-	1.70	-
Magnesium	mg/L	6.35	-	-	-
Manganese	mg/L	0.305	-	0.158	-
Nickel	mg/L	0.011	-	-	-
Potassium	mg/L	13.9	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	18.0	-	-	-
Zinc	mg/L	0.176	-	-	-
Sulfate	mg/L	101	-	112	-
Tot. Org. Halogens	mg/L	-	-	0.006	-

Well: KAB 2, K-Area Ash Basin

SRP Grid	N 52410.8		ft (msl)
Coordinates	E 40277.9	Screen Zone Elevation	228.6 - 198.6
Latitude	33.207408° N	Top of Casing Elevation	260.7
Longitude	81.662547° W	Casing Material	PVC

Parameter	Units	01/31/88	05/23/88	08/24/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.5	217.7	216.1	216.4
pH	pH	6.4	6.8	6.7	6.3
Conductivity	µmhos/cm	470	587	505	548
Alkalinity	mg/L	110	158	141	136
Gross Alpha	pCi/L	<3.0	-	4.1	-
Nonvolatile Beta	pCi/L	13.1	-	-	-
Total Radium	pCi/L	1.4	-	0.6	-
Tritium	pCi/mL	4.60	-	-	-
Barium	mg/L	0.030	-	-	-
Calcium	mg/L	74.4	-	-	-
Chloride	mg/L	12.2	-	-	-
Iron	mg/L	0.025	-	0.074	-
Magnesium	mg/L	6.51	-	-	-
Manganese	mg/L	0.038	-	0.006	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	7.77	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	19.3	-	-	-
Zinc	mg/L	0.090	-	-	-
Sulfate	mg/L	113	-	84.8	-
Tot. Org. Halogens	mg/L	-	-	<0.005	-

Well: KAB 3, K-Area Ash Basin

SRP Grid	N 51807.7		ft (msl)
Coordinates	E 39918.4	Screen Zone Elevation	223.0 - 193.0
Latitude	33.205487° N	Top of Casing Elevation	250.1
Longitude	81.662322° W	Casing Material	PVC

Parameter	Units	01/31/88	05/23/88	08/24/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.8	210.7	208.3	208.3
pH	pH	5.1	5.1	5.1	4.8
Conductivity	µmhos/cm	160	160	194	196
Alkalinity	mg/L	2	8	15	0
Gross Alpha	pCi/L	19.5	-	21.2	-
Nonvolatile Beta	pCi/L	19.3	-	-	-
Total Radium	pCi/L	6.7	-	4.7	-
Tritium	pCi/mL	4.70	-	-	-
Barium	mg/L	0.048	-	-	-
Calcium	mg/L	10.0	-	-	-
Chloride	mg/L	7.6	-	-	-
Iron	mg/L	0.228	-	0.071	-
Magnesium	mg/L	3.35	-	-	-
Manganese	mg/L	0.009	-	0.008	-
Nickel	mg/L	0.004	-	-	-
Potassium	mg/L	4.58	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	12.0	-	-	-
Zinc	mg/L	0.044	-	-	-
Sulfate	mg/L	45.0	-	50.4	-
Tot. Org. Halogens	mg/L	-	-	0.009	-

Well: KAB 4, K-Area Ash Basin

SRP Grid	N 52807.1		ft (msl)
Coordinates	E 39457.0	Screen Zone Elevation	217.0 - 187.0
Latitude	33.206945° N	Top of Casing Elevation	254.4
Longitude	81.665476° W	Casing Material	PVC

Parameter	Units	01/31/88	05/23/88	08/24/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.9	209.5	207.9	207.6
pH	pH	6.5	6.6	6.8	6.5
Conductivity	µmhos/cm	605	692	610	635
Alkalinity	mg/L	244	249	205	241
Gross Alpha	pCi/L	36.6	-	26.4	-
Nonvolatile Beta	pCi/L	48.4	-	-	-
Total Radium	pCi/L	12.4	-	6.7	-
Tritium	pCi/mL	6.30	-	-	-
Barium	mg/L	0.101	-	-	-
Calcium	mg/L	107	-	-	-
Chloride	mg/L	11.4	-	-	-
Iron	mg/L	0.043	-	0.011	-
Magnesium	mg/L	11.3	-	-	-
Manganese	mg/L	0.006	-	0.005	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	14.6	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	16.0	-	-	-
Zinc	mg/L	0.084	-	-	-
Sulfate	mg/L	68.0	-	61.4	-
Tot. Org. Halogens	mg/L	-	-	0.005	-

TABLE 5-55
GROUNDWATER MONITORING RESULTS FROM THE K-AREA BURNING/RUBBLE PIT WELLS

Well: KRP 1, K-Area Burning/Rubble Pit

SRP Grid	N 54544.0			ft (msl)
Coordinates	E 42471.2	Screen Zone Elevation		237.0 - 207.0
Latitude	33.215705° N	Top of Casing Elevation		263.9
Longitude	81.660916° W	Casing Material		PVC

Parameter	Units	02/05/88	05/22/88	09/04/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.5	216.3	216.1	215.8
pH	pH	4.7	4.5	4.0	4.7
Conductivity	µmhos/cm	34	36	35	37
Alkalinity	mg/L	0	0	0	0
Tritium	pCi/mL	10.5	-	-	-
Barium	mg/L	0.019	-	-	-
Copper	mg/L	0.044	-	-	-
Iron	mg/L	0.144	-	0.191	-
Lead	mg/L	0.022	-	0.026	-
Manganese	mg/L	0.022	-	0.022	-
Nickel	mg/L	-	-	-	0.026
Sodium	mg/L	3.67	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.006	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: KRP 2, K-Area Burning/Rubble Pit

SRP Grid	N 54503.6			ft (msl)
Coordinates	E 42681.6	Screen Zone Elevation		229.2 - 199.2
Latitude	33.215959° N	Top of Casing Elevation		256.1
Longitude	81.660284° W	Casing Material		PVC

Parameter	Units	02/05/88	05/22/88	09/04/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.9	216.2	216.1	215.7
pH	pH	5.3	5.4	5.2	5.4
Conductivity	µmhos/cm	28	28	31	31
Alkalinity	mg/L	1	4	3	0
Tritium	pCi/mL	9.20	-	-	-
Barium	mg/L	0.016	-	-	-
Copper	mg/L	0.398	-	-	-
Iron	mg/L	<0.004	-	0.032	-
Lead	mg/L	0.039	-	0.048	-
Manganese	mg/L	0.006	-	0.005	-
Nickel	mg/L	-	-	-	0.006
Sodium	mg/L	2.96	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: KRP 3, K-Area Burning/Rubble Pit

SRP Grid	N 54248.7			ft (msl)
Coordinates	E 42814.3	Screen Zone Elevation		237.5 - 207.5
Latitude	33.215611° N	Top of Casing Elevation		254.5
Longitude	81.659440° W	Casing Material		PVC

Parameter	Units	02/05/88	05/22/88	09/04/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.2	216.5	214.5	216
pH	pH	5.2	5.3	5.0	5.2
Conductivity	µmhos/cm	20	18	17	22
Alkalinity	mg/L	2	2	1	1
Tritium	pCi/mL	10.3	-	-	-
Barium	mg/L	0.020	-	-	-
Copper	mg/L	0.054	-	-	-
Iron	mg/L	0.541	-	0.134	-
Lead	mg/L	0.015	-	0.018	-
Manganese	mg/L	0.034	-	0.037	-
Nickel	mg/L	-	-	-	0.009
Sodium	mg/L	1.60	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: KRP 4, K-Area Burning/Rubble Pit

SRP Grid	N 54362.9			ft (msl)
Coordinates	E 42590.3	Screen Zone Elevation		218.7 - 188.7
Latitude	33.215498° N	Top of Casing Elevation		255.6
Longitude	81.660251° W	Casing Material		PVC

Parameter	Units	02/05/88	05/22/88	09/04/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.4	215.5	215.5	215.1
pH	pH	5.0	5.0	4.8	5.1
Conductivity	µmhos/cm	84	77	82	76
Alkalinity	mg/L	1	2	1	0
Tritium	pCi/mL	10.0	-	-	-
Barium	mg/L	0.045	-	-	-
Copper	mg/L	0.010	-	-	-
Iron	mg/L	0.097	-	0.043	-
Lead	mg/L	<0.006	-	0.047	-
Manganese	mg/L	0.125	-	0.127	-
Nickel	mg/L	-	-	-	<0.004
Sodium	mg/L	6.80	-	-	-
Sulfate	mg/L	12.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	0.097	-	0.073	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.011	-	<0.001	-
Tetrachloroethylene	mg/L	0.063	-	0.052	-
Trichloroethylene	mg/L	0.032	-	0.013	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-56
GROUNDWATER MONITORING RESULTS FROM THE K-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: KCB 1, K-Area Coal Pile Runoff Containment Basin

SRP Grid	N 53453.0		ft (msl)
Coordinates	E 39523.1	Screen Zone Elevation	213.6 - 183.6
Latitude	33.208481° N	Top of Casing Elevation	260.4
Longitude	81.666555° W	Casing Material	PVC

Parameter	Units	02/06/88	06/14/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.9	209.5	208.2	207.8
pH	pH	5.1	5.4	5.1	5.2
Conductivity	µmhos/cm	240	325	320	349
Alkalinity	mg/L	5	7	6	6
Gross Alpha	pCi/L	2.5	-	5.4	-
Nonvolatile Beta	pCi/L	12.7	-	-	-
Total Radium	pCi/L	1.7	-	1.4	-
Tritium	pCi/mL	10.4	-	3.61	-
Barium	mg/L	0.030	-	-	-
Calcium	mg/L	29.1	-	-	-
Chloride	mg/L	10.9	-	-	-
Copper	mg/L	0.009	0.014	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.004	0.219	-	-
Lead	mg/L	0.008	-	-	-
Magnesium	mg/L	0.582	-	-	-
Manganese	mg/L	0.018	-	0.027	-
Potassium	mg/L	9.01	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	9.95	-	-	-
Zinc	mg/L	-	0.278	-	-
Sulfate	mg/L	88.0	109	100	-

Well: KCB 4, K-Area Coal Pile Runoff Containment Basin

SRP Grid	N 53256.1		ft (msl)
Coordinates	E 39315.6	Screen Zone Elevation	218.9 - 188.9
Latitude	33.207707° N	Top of Casing Elevation	255.6
Longitude	81.666719° W	Casing Material	PVC

Parameter	Units	02/06/88	06/14/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.7	209.2	207.9	207.8
pH	pH	6.4	6.5	6.5	6.5
Conductivity	µmhos/cm	370	330	350	395
Alkalinity	mg/L	57	50	59	63
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	10.8	-	-	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	5.50	-	1.80	-
Barium	mg/L	0.005	-	-	-
Calcium	mg/L	55.5	-	-	-
Chloride	mg/L	23.7	-	-	-
Copper	mg/L	0.010	<0.004	-	-
Fluoride	mg/L	0.48	-	-	-
Iron	mg/L	0.012	<0.004	-	-
Lead	mg/L	<0.006	-	-	-
Magnesium	mg/L	1.44	-	-	-
Manganese	mg/L	0.004	-	0.006	-
Potassium	mg/L	8.95	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	18.4	-	-	-
Zinc	mg/L	-	<0.002	-	-
Sulfate	mg/L	102	76.5	74.0	-

Well: KCB 2, K-Area Coal Pile Runoff Containment Basin

SRP Grid	N 53634.4		ft (msl)
Coordinates	E 39337.2	Screen Zone Elevation	217.7 - 187.7
Latitude	33.209579° N	Top of Casing Elevation	254.4
Longitude	81.667398° W	Casing Material	PVC

Parameter	Units	02/06/88	06/14/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.8	207.1	205.7	205.4
pH	pH	4.7	4.8	4.4	4.3
Conductivity	µmhos/cm	44	42	46	56
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	2.5	-	2.8	-
Nonvolatile Beta	pCi/L	6.8	-	-	-
Total Radium	pCi/L	1.5	-	1.5	-
Tritium	pCi/mL	28.9	-	22.1	-
Barium	mg/L	0.012	-	-	-
Calcium	mg/L	0.290	0.005	-	-
Chloride	mg/L	<1.0	-	-	-
Copper	mg/L	0.009	0.005	-	-
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.110	0.270	-	-
Lead	mg/L	0.009	-	-	-
Magnesium	mg/L	0.483	-	-	-
Manganese	mg/L	0.006	-	0.012	-
Potassium	mg/L	3.07	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	4.53	-	-	-
Zinc	mg/L	-	0.033	-	-
Sulfate	mg/L	<5.0	<5.0	5.4	-

Well: KCB 3, K-Area Coal Pile Runoff Containment Basin

SRP Grid	N 53440.5		ft (msl)
Coordinates	E 39139.2	Screen Zone Elevation	214.1 - 184.1
Latitude	33.207827° N	Top of Casing Elevation	247.9
Longitude	81.667541° W	Casing Material	PVC

Parameter	Units	02/06/88	06/14/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	206.6	206.1	204.6	204.4
pH	pH	4.0	4.0	3.6	3.7
Conductivity	µmhos/cm	495	605	610	640
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	51.5	-	52.8	-
Nonvolatile Beta	pCi/L	35.2	-	-	-
Total Radium	pCi/L	11.3	-	9.4	-
Tritium	pCi/mL	21.9	-	7.98	-
Barium	mg/L	0.083	-	-	-
Calcium	mg/L	37.2	-	-	-
Chloride	mg/L	5.9	-	-	-
Copper	mg/L	0.019	0.004	-	-
Fluoride	mg/L	1.69	-	-	-
Iron	mg/L	0.062	0.059	-	-
Lead	mg/L	<0.006	-	-	-
Magnesium	mg/L	16.2	-	-	-
Manganese	mg/L	1.59	-	2.14	-
Potassium	mg/L	3.45	-	-	-
Selenium	mg/L	<0.002	-	-	-
Sodium	mg/L	6.92	-	-	-
Zinc	mg/L	-	0.051	-	-
Sulfate	mg/L	250	291	<5.0	-

TABLE 5-57
GROUNDWATER MONITORING RESULTS FROM THE K-AREA DISASSEMBLY BASIN WELLS

Well: KDB 1, K-Area Disassembly Basin

SRP Grid	N 54050.5		ft (msl)
Coordinates	E 40425.9	Screen Zone Elevation	205.8 - 184.8
Latitude	33.211276° N	Top of Casing Elevation	273.1
Longitude	81.665340° W	Casing Material	PVC

Parameter	Units	03/15/88	06/15/88	09/12/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.8	209.6	209.1	208.3
pH	pH	5.6	5.2	4.9	4.7
Conductivity	µmhos/cm	103	122	105	102
Alkalinity	mg/L	13	3	9	0
Gross Alpha	pCi/L	12.2	1.8	9.1	-
Nonvolatile Beta	pCi/L	18.1	9.8	13.3	-
Total Radium	pCi/L	4.9	-	3.5	-
Tritium	pCi/mL	1060	857	471	-
Barium	mg/L	0.088	-	-	-
Calcium	mg/L	7.43	-	-	-
Chloride	mg/L	3.2	-	-	-
Iron	mg/L	0.380	-	0.141	-
Lead	mg/L	0.114	-	0.089	-
Magnesium	mg/L	1.77	-	-	-
Manganese	mg/L	0.758	-	0.678	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Potassium	mg/L	2.44	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	7.19	-	-	-
Nitrate (as N)	mg/L	3.55	-	-	-
Sulfate	mg/L	13.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.005	-	0.021	-
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	< 0.005	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: KDB 2, K-Area Disassembly Basin

SRP Grid	N 53907.3		ft (msl)
Coordinates	E 40241.4	Screen Zone Elevation	203.5 - 182.5
Latitude	33.210658° N	Top of Casing Elevation	273.5
Longitude	81.665547° W	Casing Material	PVC

Parameter	Units	03/15/88	06/15/88	09/12/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209	208.8	208.1	207.4
pH	pH	5.3	4.9	4.8	4.6
Conductivity	µmhos/cm	63	62	63	65
Alkalinity	mg/L	8	0	1	0
Gross Alpha	pCi/L	2.3	0.6	2.1	-
Nonvolatile Beta	pCi/L	1.7	2.5	2.5	-
Total Radium	pCi/L	1.3	-	0.7	-
Tritium	pCi/mL	1840	2180	2430	-
Barium	mg/L	0.026	-	-	-
Calcium	mg/L	3.51	-	-	-
Chloride	mg/L	4.9	-	-	-
Iron	mg/L	0.038	-	0.033	-
Lead	mg/L	0.023	-	0.020	-
Magnesium	mg/L	0.916	-	-	-
Manganese	mg/L	0.117	-	0.087	-
Mercury	mg/L	0.0005	-	< 0.0002	-
Potassium	mg/L	< 0.500	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	6.49	-	-	-
Nitrate (as N)	mg/L	1.87	-	-	-
Sulfate	mg/L	< 5.0	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.123	-	0.059	-
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	-	-
Tetrachloroethylene	mg/L	-	< 0.005	-	-
Trichloroethylene	mg/L	-	0.197	-	-
1,1,1-TCE	mg/L	-	< 0.005	-	-

Well: KDB 3, K-Area Disassembly Basin

SRP Grid	N 53794.6		ft (msl)
Coordinates	E 40393.7	Screen Zone Elevation	205.4 - 184.2
Latitude	33.210657° N	Top of Casing Elevation	273.4
Longitude	81.664928° W	Casing Material	PVC

Parameter	Units	03/15/88	06/15/88	09/12/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.8	209.6	209	208.1
pH	pH	6.2	6.2	6.0	5.9
Conductivity	µmhos/cm	282	344	329	272
Alkalinity	mg/L	109	215	108	79
Gross Alpha	pCi/L	14.9	-	6.5	-
Nonvolatile Beta	pCi/L	10.5	-	7.2	-
Total Radium	pCi/L	4.3	-	3.8	-
Tritium	pCi/mL	241	-	203	-
Barium	mg/L	0.073	-	-	-
Calcium	mg/L	46.7	-	-	-
Chloride	mg/L	5.3	-	-	-
Iron	mg/L	0.209	-	0.204	-
Lead	mg/L	0.020	-	0.013	-
Magnesium	mg/L	3.62	-	-	-
Manganese	mg/L	0.158	-	0.156	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Potassium	mg/L	5.01	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	13.0	-	-	-
Nitrate (as N)	mg/L	0.36	-	-	-
Sulfate	mg/L	38.0	-	-	-
Tot. Org. Carbon	mg/L	1.60	-	-	-
Tot. Org. Halogens	mg/L	0.010	-	0.047	-
Carbon Tetrachloride	mg/L	-	-	-	< 0.005
Chloroform	mg/L	-	-	-	< 0.005
Tetrachloroethylene	mg/L	-	-	-	< 0.005
Trichloroethylene	mg/L	-	-	-	0.053
1,1,1-TCE	mg/L	-	-	-	< 0.005

Other Analyses
(GCMS Scan Analytes: Table 5-91)

KDB 1 06/15/88
GCMS Scan detected the following: None

KDB 2 06/15/88
GCMS Scan detected the following: None

KDB 3 12/27/88
GCMS Scan detected the following: None

TABLE 5-58
GROUNDWATER MONITORING RESULTS FROM THE K-AREA REACTOR SEEPAGE BASIN WELLS

Well: KSB 1, K-Area Reactor Seepage Basin

SRP Grid	N 54044.4		ft (msl)
Coordinates	E 39806.8	Screen Zone Elevation	205.6 - 175.6
Latitude	33.210252° N	Top of Casing Elevation	267.4
Longitude	81.666957° W	Casing Material	PVC

Parameter	Units	02/05/88	04/16/88	07/24/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.7	207.3	206.8	206.1
pH	pH	5.0	5.0	4.7	4.7
Conductivity	µmhos/cm	23	25	24	34
Alkalinity	mg/L	0	1	2	0
Gross Alpha	pCi/L	0.5	-	<0.1	0.3
Nonvolatile Beta	pCi/L	1.8	-	1.3	0.4
Tritium	pCi/mL	209	281	175	261
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: KSB 2, K-Area Reactor Seepage Basin

SRP Grid	N 53927.6		ft (msl)
Coordinates	E 39703.4	Screen Zone Elevation	203.8 - 173.8
Latitude	33.209825° N	Top of Casing Elevation	265.8
Longitude	81.667002° W	Casing Material	PVC

Parameter	Units	02/05/88	04/16/88	07/24/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.6	208.2	206.7	205.9
pH	pH	4.6	4.7	4.4	4.4
Conductivity	µmhos/cm	31	32	26	29
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	0.5	-	0.6	0.2
Nonvolatile Beta	pCi/L	<2.0	-	0.3	1.1
Tritium	pCi/mL	36.1	46.1	33.1	38.7
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: KSB 3, K-Area Reactor Seepage Basin

SRP Grid	N 54040.2		ft (msl)
Coordinates	E 39625.3	Screen Zone Elevation	199.7 - 169.7
Latitude	33.209947° N	Top of Casing Elevation	261.5
Longitude	81.667426° W	Casing Material	PVC

Parameter	Units	02/05/88	04/16/88	07/24/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	206.9	206.6	206.1	205.2
pH	pH	4.7	4.8	4.3	4.4
Conductivity	µmhos/cm	34	36	36	41
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	0.5	-	0.5	1.1
Nonvolatile Beta	pCi/L	2.1	-	0.4	3.0
Tritium	pCi/mL	197	276	162	149
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: KSB 4A, K-Area Reactor Seepage Basin

SRP Grid	N 54140.4		ft (msl)
Coordinates	E 39756.7	Screen Zone Elevation	199.6 - 169.6
Latitude	33.210383° N	Top of Casing Elevation	264.1
Longitude	81.667275° W	Casing Material	PVC

Parameter	Units	02/05/88	04/16/88	07/24/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.1	206.8	206.3	205.5
pH	pH	4.8	4.9	5.1	4.7
Conductivity	µmhos/cm	24	26	24	30
Alkalinity	mg/L	0	1	1	0
Gross Alpha	pCi/L	0.9	-	0.8	0.7
Nonvolatile Beta	pCi/L	2.9	-	1.6	0.4
Tritium	pCi/mL	248	319	207	327
Silver	mg/L	<0.0020	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Other Analyses
(Gamma PHA Analytes: Table 5-91)

KSB 1 02/05/88
Gamma PHA analyses detected the following: None

KSB 2 02/05/88
Gamma PHA analyses detected the following: None

KSB 3 02/05/88
Gamma PHA analyses detected the following: None

KSB 4A 02/05/88
Gamma PHA analyses detected the following: None

TABLE 5-59
GROUNDWATER MONITORING RESULTS FROM THE K-AREA RETENTION BASIN WELLS

Well: KRB 1, K-Area Retention Basin

SRP Grid	N 55025.3			ft (msl)
Coordinates	E 39952.1	Screen Zone Elevation		-
Latitude	33.212659° N	Top of Casing Elevation		266.5
Longitude	81.668478° W	Casing Material		Steel

Parameter	Units	03/12/88	06/09/88	09/21/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.2	207.1	206.7	206.5
pH	pH	5.0	5.1	5.2	5.4
Conductivity	µmhos/cm	33	56	34	40
Alkalinity	mg/L	5	7	7	9
Gross Alpha	pCi/L	0.6	0.6	1.1	0.8
Nonvolatile Beta	pCi/L	2.3	1.3	1.2	0.8
Total Radium	pCi/L	2.1	-	0.6	-
Tritium	pCi/mL	190	120	187	278
Cadmium	mg/L	< 0.002	-	< 0.002	-
Chloride	mg/L	2.9	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.075	-	0.115	-
Lead	mg/L	0.147	-	0.130	-
Manganese	mg/L	0.014	-	0.014	-
Sodium	mg/L	2.43	-	-	-
Total Phosphates	mg/L	0.020	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.009	-	0.064	-
Carbon Tetrachloride	mg/L	< 0.001	-	-	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

Well: KRB 8, K-Area Retention Basin

SRP Grid	N 54893.6			ft (msl)
Coordinates	E 40302.1	Screen Zone Elevation		-
Latitude	33.212939° N	Top of Casing Elevation		267.9
Longitude	81.667302° W	Casing Material		Steel

Parameter	Units	03/12/88	06/09/88	09/20/88	11/25/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.1	208.8	208.7	208.5
pH	pH	4.9	4.9	4.6	4.6
Conductivity	µmhos/cm	50	32	50	50
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	4.2	0.9	1.7	2.4
Nonvolatile Beta	pCi/L	2.4	1.4	2.0	1.5
Total Radium	pCi/L	1.6	-	< 1.0	-
Tritium	pCi/mL	136000	57300	21200	17800
Cadmium	mg/L	< 0.002	-	< 0.002	-
Chloride	mg/L	4.0	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.010	-	0.038	-
Lead	mg/L	0.042	-	0.073	-
Manganese	mg/L	0.026	-	0.031	-
Sodium	mg/L	6.18	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.270	-
Carbon Tetrachloride	mg/L	< 0.001	-	-	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

Well: KRB 13, K-Area Retention Basin

SRP Grid	N 55344.2			ft (msl)
Coordinates	E 39986.6	Screen Zone Elevation		-
Latitude	33.213420° N	Top of Casing Elevation		283.6
Longitude	81.669007° W	Casing Material		Steel

Parameter	Units	03/12/88	06/09/88	09/21/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	205.4	205.4	204.8	-
pH	pH	5.3	5.4	5.5	6.1
Conductivity	µmhos/cm	50	61	47	56
Alkalinity	mg/L	6	9	9	10
Gross Alpha	pCi/L	1.6	0.3	0.6	1.0
Nonvolatile Beta	pCi/L	2.7	1.7	2.0	2.2
Total Radium	pCi/L	< 1.0	-	0.8	-
Tritium	pCi/mL	8750	15800	12300	17200
Cadmium	mg/L	< 0.002	-	< 0.002	-
Chloride	mg/L	5.4	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.035	-	0.044	-
Lead	mg/L	0.112	-	0.111	-
Manganese	mg/L	0.011	-	0.009	-
Sodium	mg/L	6.11	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Phenols	mg/L	0.012	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.425	-	0.032	-
Carbon Tetrachloride	mg/L	< 0.001	-	-	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

Well: KRB 14, K-Area Retention Basin

SRP Grid	N 55566.7			ft (msl)
Coordinates	E 40158.5	Screen Zone Elevation		-
Latitude	33.214193° N	Top of Casing Elevation		282.5
Longitude	81.668986° W	Casing Material		Steel

Parameter	Units	03/12/88	06/09/88	09/21/88	11/26/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	203.6	203.7	203.4	203.2
pH	pH	5.9	5.6	5.7	5.8
Conductivity	µmhos/cm	75	31	62	60
Alkalinity	mg/L	11	6	9	8
Gross Alpha	pCi/L	< 3.0	0.2	0.3	< 0.0
Nonvolatile Beta	pCi/L	2.4	1.4	5.4	1.9
Total Radium	pCi/L	< 1.0	-	3.6	-
Tritium	pCi/mL	18300	20700	80000	18700
Cadmium	mg/L	0.004	-	0.013	-
Chloride	mg/L	4.4	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.013	-	0.080	-
Lead	mg/L	< 0.006	-	0.259	-
Manganese	mg/L	0.028	-	0.025	-
Sodium	mg/L	8.37	-	-	-
Total Phosphates	mg/L	2.73	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	3.90	-	-	-
Tot. Org. Halogens	mg/L	0.045	-	0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	-	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

TABLE 5-59
GROUNDWATER MONITORING RESULTS FROM THE K-AREA RETENTION BASIN WELLS, CONT'D.

Well: KRB 15, K-Area Retention Basin

SRP Grid	N 55476.3		ft (msl)
Coordinates	E 40669.3	Screen Zone Elevation	-
Latitude	33.214827° N	Top of Casing Elevation	269.6
Longitude	81.667467° W	Casing Material	Steel

Parameter	Units	03/12/88	06/09/88	09/21/88	11/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.7	204.8	204.8	204.3
pH	pH	6.3	6.2	6.1	7.3
Conductivity	µmhos/cm	58	59	45	67
Alkalinity	mg/L	17	18	19	27
Gross Alpha	pCi/L	5.4	0.7	1.5	4.8
Nonvolatile Beta	pCi/L	102	80.3	94.6	126
Total Radium	pCi/L	1.8	-	2.5	-
Tritium	pCi/mL	112000	107000	76000	85700
Cadmium	mg/L	< 0.002	-	< 0.002	-
Chloride	mg/L	12.3	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.040	-	0.032	-
Lead	mg/L	0.027	-	0.017	
Manganese	mg/L	0.016	-	0.014	-
Sodium	mg/L	5.83	-	-	-
Total Phosphates	mg/L	0.900	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.057	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	-	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

TABLE 5-60
MAXIMUM CONSTITUENT LEVELS AT L AREA

Constituent	DWS	Units	LAC	LCO	LDB	LRP
Nonvolatile Beta	-	pCi/L	-	25	2.6	-
Total Radium	5	pCi/L	-	**36**	-	1.4
Tritium	20	pCi/mL	16.8	**1140**	-	-
Arsenic	0.05	mg/L	-	0.002	<0.002	-
Barium	1	mg/L	-	-	0.022	-
Chromium	0.05	mg/L	<0.004	0.005	<0.004	-
Fluoride	4	mg/L	-	0.19	-	-
Lead	0.05	mg/L	0.044	0.019	**0.078**	**0.063**
Mercury	0.002	mg/L	-	**0.0025**	<0.0002	-
Selenium	0.01	mg/L	-	<0.002	<0.002	-
Silver	0.05	mg/L	-	0.002	-	<0.002
Carbon Tetrachloride	0.005	mg/L	<0.001	<0.001	<0.001	0.001
Chloroform	0.1*	mg/L	<0.001	<0.001	0.011	0.001
Trichloroethylene	0.005	mg/L	**0.081**	**0.03**	**0.008**	0.002
1,1,1-Trichloroethane	0.2	mg/L	<0.001	<0.001	<0.001	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

LAC = L-Area Acid/Caustic Basin Wells
LCO = L-Area Oil and Chemical Basin Wells
LDB = L-Area Disassembly Basin Wells
LRP = L-Area Burning/Rubble Pit Wells

TABLE 5-60
MAXIMUM CONSTITUENT LEVELS AT L AREA, CONT'D.

Constituent	DWS	Units	LSB
Gross Alpha	15	pCi/L	2.8
Nonvolatile Beta	-	pCi/L	4.1
Tritium	20	pCi/mL	**3190**
Lead	0.005	mg/L	***0.041***

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

LSB = L-Area Reactor Seepage Basin Wells

TABLE 5-61
GROUNDWATER MONITORING RESULTS FROM THE L-AREA ACID/CAUSTIC BASIN WELLS

Well: LAC 1, L-Area Acid/Caustic Basin

SRP Grid	N 45238.8		ft (msl)
Coordinates	E 51318.8	Screen Zone Elevation	221.1 - 191.1
Latitude	33.209552° N	Top of Casing Elevation	238.2
Longitude	81.619578° W	Casing Material	PVC

Parameter	Units	01/31/88	06/10/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.8	213.8	213.3	212.7
pH	pH	4.8	4.8	4.2	4.5
Conductivity	µmhos/cm	25	26	24	33
Alkalinity	mg/L	0	1	0	0
Tritium	pCi/mL	3.30	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	0.034	-	0.029	-
Iron	mg/L	0.060	-	0.072	-
Lead	mg/L	0.008	-	0.013	-
Sodium	mg/L	2.30	-	-	-
Zinc	mg/L	0.044	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.010	-	0.026	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: LAC 2, L-Area Acid/Caustic Basin

SRP Grid	N 45330.4		ft (msl)
Coordinates	E 51270.2	Screen Zone Elevation	223.4 - 193.4
Latitude	33.209676° N	Top of Casing Elevation	240.2
Longitude	81.619884° W	Casing Material	PVC

Parameter	Units	01/30/88	06/10/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.3	214.2	213.8	213.3
pH	pH	5.0	4.9	4.7	4.8
Conductivity	µmhos/cm	26	27	27	32
Alkalinity	mg/L	1	2	0	0
Tritium	pCi/mL	16.8	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	0.524	-	0.096	-
Iron	mg/L	0.010	-	0.041	-
Lead	mg/L	0.044	-	0.018	-
Sodium	mg/L	2.19	-	-	-
Zinc	mg/L	0.093	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.083	-	0.062	-
Carbon Tetrachloride	mg/L	<0.002	-	<0.001	-
Chloroform	mg/L	<0.002	-	<0.001	-
Tetrachloroethylene	mg/L	0.004	-	0.002	-
Trichloroethylene	mg/L	0.081	-	0.055	-
1,1,1-TCE	mg/L	<0.002	-	<0.001	-

Well: LAC 3, L-Area Acid/Caustic Basin

SRP Grid	N 45201.9		ft (msl)
Coordinates	E 51186.8	Screen Zone Elevation	220.7 - 190.7
Latitude	33.209255° N	Top of Casing Elevation	237.8
Longitude	81.619854° W	Casing Material	PVC

Parameter	Units	01/30/88	06/10/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213	213.9	213.5	213.1
pH	pH	9.2	9.6	9.4	9.3
Conductivity	µmhos/cm	250	295	250	261
Alkalinity	mg/L	126	119	95	98
Tritium	pCi/mL	5.80	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	<0.004	-	<0.004	-
Iron	mg/L	0.019	-	0.039	-
Lead	mg/L	<0.006	-	<0.006	-
Sodium	mg/L	71.2	-	-	-
Zinc	mg/L	0.006	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.011	-	0.389	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.008	-	0.014	-
Trichloroethylene	mg/L	0.011	-	0.008	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: LAC 4, L-Area Acid/Caustic Basin

SRP Grid	N 45213.1		ft (msl)
Coordinates	E 51270.4	Screen Zone Elevation	215.3 - 185.3
Latitude	33.209416° N	Top of Casing Elevation	237.1
Longitude	81.619656° W	Casing Material	PVC

Parameter	Units	01/31/88	06/10/88	09/24/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.8	214	213.4	212.9
pH	pH	6.1	6.7	6.3	6.4
Conductivity	µmhos/cm	195	202	210	244
Alkalinity	mg/L	69	63	63	63
Tritium	pCi/mL	5.50	-	-	-
Chromium	mg/L	<0.004	-	-	-
Copper	mg/L	<0.004	-	<0.004	-
Iron	mg/L	0.020	-	0.079	-
Lead	mg/L	<0.006	-	<0.006	-
Sodium	mg/L	39.8	-	-	-
Zinc	mg/L	0.013	-	-	-
Sulfate	mg/L	20.0	-	-	-
Tot. Org. Halogens	mg/L	0.038	-	0.447	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.011	-	0.006	-
Trichloroethylene	mg/L	0.050	-	0.012	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-62
GROUNDWATER MONITORING RESULTS FROM THE L-AREA BURNING/RUBBLE PIT WELLS

Well: LRP 1, L-Area Burning/Rubble Pit

SRP Grid	N 48548.6			ft (msl)
Coordinates	E 49128.7	Screen Zone Elevation		215.8 - 185.8
Latitude	33.213303° N	Top of Casing Elevation		252.9
Longitude	81.631763° W	Casing Material		PVC

Parameter	Units	01/31/88	05/22/88	08/18/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.4	-	206.2	205.6
pH	pH	4.9	4.7	4.4	4.5
Conductivity	µmhos/cm	18	18	21	20
Alkalinity	mg/L	0	1	0	0
Total Radium	pCi/L	1.0	-	-	-
Iron	mg/L	0.011	-	0.036	-
Lead	mg/L	0.014	-	0.013	-
Manganese	mg/L	0.013	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LRP 2, L-Area Burning/Rubble Pit

SRP Grid	N 48352.9			ft (msl)
Coordinates	E 49214.4	Screen Zone Elevation		214.7 - 184.7
Latitude	33.213010° N	Top of Casing Elevation		256.7
Longitude	81.631158° W	Casing Material		PVC

Parameter	Units	01/31/88	05/22/88	08/18/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.8	208.1	207.4	206.9
pH	pH	4.9	5.0	4.8	4.6
Conductivity	µmhos/cm	27	27	30	31
Alkalinity	mg/L	1	1	1	0
Total Radium	pCi/L	0.5	-	-	-
Iron	mg/L	0.027	-	0.013	-
Lead	mg/L	0.063	-	0.055	-
Manganese	mg/L	0.016	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LRP 3, L-Area Burning/Rubble Pit

SRP Grid	N 48333.6			ft (msl)
Coordinates	E 49057.7	Screen Zone Elevation		221.4 - 191.4
Latitude	33.212712° N	Top of Casing Elevation		258.2
Longitude	81.631533° W	Casing Material		PVC

Parameter	Units	01/31/88	05/22/88	08/18/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	207.8	207.1	206.5	205.9
pH	pH	5.0	5.0	4.8	4.8
Conductivity	µmhos/cm	46	25	27	32
Alkalinity	mg/L	0	1	1	0
Total Radium	pCi/L	< 1.0	-	-	-
Iron	mg/L	0.027	-	0.011	-
Lead	mg/L	0.022	-	0.022	-
Manganese	mg/L	0.010	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Halogens	mg/L	0.008	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.005	-	0.002	-
Trichloroethylene	mg/L	0.002	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LRP 4, L-Area Burning/Rubble Pit

SRP Grid	N 48440.2			ft (msl)
Coordinates	E 48964.7	Screen Zone Elevation		203.3 - 173.3
Latitude	33.212796° N	Top of Casing Elevation		255.6
Longitude	81.631984° W	Casing Material		PVC

Parameter	Units	01/31/88	05/22/88	08/18/88	10/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	205.2	206.5	206	205.5
pH	pH	4.5	4.8	4.6	4.6
Conductivity	µmhos/cm	24	25	27	27
Alkalinity	mg/L	1	0	0	0
Total Radium	pCi/L	1.4	-	-	-
Iron	mg/L	0.011	-	< 0.004	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	0.008	-	-	-
Nickel	mg/L	0.004	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	-	< 0.001	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-63
GROUNDWATER MONITORING RESULTS FROM THE L-AREA DISASSEMBLY BASIN WELLS

Well: LDB 1, L-Area Disassembly Basin

SRP Grid	N 46067.3		ft (msl)
Coordinates	E 50530.6	Screen Zone Elevation	215.0 - 185.0
Latitude	33.210100° N	Top of Casing Elevation	252.9
Longitude	81.623260° W	Casing Material	PVC

Parameter	Units	03/16/88	06/13/88	09/13/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.8	215.2	214.8	213.4
pH	pH	4.6	4.5	4.4	4.2
Conductivity	µmhos/cm	55	42	44	45
Alkalinity	mg/L	0	0	0	0
Nonvolatile Beta	pCi/L	1.9	-	-	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.021	-	-	-
Chloride	mg/L	5.8	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Iron	mg/L	0.186	-	0.100	-
Lead	mg/L	0.078	-	0.052	-
Manganese	mg/L	0.026	-	0.019	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Selenium	mg/L	<0.002	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	0.032	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	0.009	-
Trichloroethylene	mg/L	0.008	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: LDB 2, L-Area Disassembly Basin

SRP Grid	N 45886.5		ft (msl)
Coordinates	E 50590.5	Screen Zone Elevation	214.5 - 184.5
Latitude	33.209798° N	Top of Casing Elevation	251.9
Longitude	81.622752° W	Casing Material	PVC

Parameter	Units	03/16/88	06/13/88	09/13/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.8	215.5	214.8	213.5
pH	pH	5.0	5.1	4.8	4.7
Conductivity	µmhos/cm	64	62	65	69
Alkalinity	mg/L	3	1	1	0
Nonvolatile Beta	pCi/L	2.6	-	-	-
Arsenic	mg/L	<0.002	-	-	-
Barium	mg/L	0.022	-	-	-
Chloride	mg/L	5.2	-	-	-
Chromium	mg/L	<0.004	-	<0.004	-
Iron	mg/L	0.106	-	0.146	-
Lead	mg/L	0.043	-	0.033	-
Manganese	mg/L	0.045	-	0.045	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Selenium	mg/L	<0.002	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Halogens	mg/L	0.088	-	0.114	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.011	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-64
GROUNDWATER MONITORING RESULTS FROM THE L-AREA OIL AND CHEMICAL BASIN WELLS

Well: LCO 1, L-Area Oil and Chemical Basin

SRP Grid Coordinates N 45198.2, E 50957.7
Latitude 33.208874° N
Longitude 81.620450° W
Screen Zone Elevation ft (msl) 225.8 - 195.8
Top of Casing Elevation 240.7
Casing Material PVC

Parameter	Units	01/31/88	06/13/88	09/20/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.1	212.3	211.6	211.1
pH	pH	5.4	5.7	5.1	5.6
Conductivity	µmhos/cm	61	58	53	61
Alkalinity	mg/L	11	22	7	9
Gross Alpha	pCi/L	0.8	-	1.6	-
Nonvolatile Beta	pCi/L	25.0	-	19.4	-
Total Radium	pCi/L	0.8	-	< 1.0	-
Tritium	pCi/mL	1140	-	398	-
Arsenic	mg/L	< 0.002	-	-	-
Chloride	mg/L	1.3	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.052	-	0.100	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	0.009	-	-	-
Potassium	mg/L	12.8	-	-	-
Selenium	mg/L	< 0.002	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	4.79	-	-	-
Total Phosphates	mg/L	0.420	-	-	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Tot. Org. Carbon	mg/L	1.20	-	-	-
Tot. Org. Halogens	mg/L	0.012	-	0.361	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.005	-	0.003	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LCO 3, L-Area Oil and Chemical Basin

SRP Grid Coordinates N 45203.0, E 51113.2
Latitude 33.209138° N
Longitude 81.620050° W
Screen Zone Elevation ft (msl) 226.3 - 196.3
Top of Casing Elevation 241.4
Casing Material PVC

Parameter	Units	01/30/88	06/13/88	09/20/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.7	213.7	213.1	212.8
pH	pH	7.9	9.6	9.1	9.5
Conductivity	µmhos/cm	305	354	350	371
Alkalinity	mg/L	157	400	143	162
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	2.2	-	< 2.0	-
Total Radium	pCi/L	5.0	-	< 1.0	-
Tritium	pCi/mL	6.10	-	2.94	-
Arsenic	mg/L	0.002	-	-	-
Chloride	mg/L	1.9	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.031	-	0.179	-
Lead	mg/L	< 0.006	-	< 0.006	-
Manganese	mg/L	< 0.002	-	< 0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Selenium	mg/L	< 0.002	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	82.5	-	-	-
Total Phosphates	mg/L	0.080	-	-	-
Sulfate	mg/L	13.0	-	15.3	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.024	-	0.516	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.018	-	0.024	-
Trichloroethylene	mg/L	0.030	-	0.015	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LCO 2, L-Area Oil and Chemical Basin

SRP Grid Coordinates N 45317.8, E 51043.4
Latitude 33.209278° N
Longitude 81.620456° W
Screen Zone Elevation ft (msl) 226.6 - 196.6
Top of Casing Elevation 241.6
Casing Material PVC

Parameter	Units	01/31/88	06/13/88	09/20/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.1	214.1	213.3	213.2
pH	pH	3.9	4.6	3.8	4.1
Conductivity	µmhos/cm	32	28	33	82
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.2	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	6.10	-	2.58	-
Arsenic	mg/L	< 0.002	-	-	-
Chloride	mg/L	< 1.0	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.072	-	0.075	-
Lead	mg/L	0.016	-	0.014	-
Manganese	mg/L	< 0.002	-	0.002	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	-	-
Selenium	mg/L	< 0.002	-	-	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	2.06	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Tot. Org. Carbon	mg/L	2.70	-	-	-
Tot. Org. Halogens	mg/L	0.006	-	0.097	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.005	-	0.006	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: LCO 4, L-Area Oil and Chemical Basin

SRP Grid Coordinates N 45087.4, E 51036.1
Latitude 33.208756° N
Longitude 81.620029° W
Screen Zone Elevation ft (msl) 222.3 - 192.3
Top of Casing Elevation 237.2
Casing Material PVC

Parameter	Units	01/30/88	06/13/88	09/20/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.9	210.6	209.5	208.6
pH	pH	4.6	4.8	4.8	4.5
Conductivity	µmhos/cm	910	866	870	1034
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.3	-	-	-
Nonvolatile Beta	pCi/L	3.6	-	10.0	-
Total Radium	pCi/L	36.0	-	2.6	-
Tritium	pCi/mL	89.1	-	65.7	-
Arsenic	mg/L	< 0.002	-	-	-
Chloride	mg/L	21.1	-	-	-
Chromium	mg/L	0.005	-	-	-
Fluoride	mg/L	0.19	-	-	-
Iron	mg/L	0.123	-	0.089	-
Lead	mg/L	0.019	-	0.012	-
Manganese	mg/L	0.104	-	0.092	-
Mercury	mg/L	0.0025	-	0.0018	-
Nickel	mg/L	0.013	-	-	-
Potassium	mg/L	1.11	-	-	-
Selenium	mg/L	< 0.002	-	-	-
Silver	mg/L	0.0020	-	-	-
Sodium	mg/L	185	-	-	-
Total Phosphates	mg/L	0.030	-	-	-
Sulfate	mg/L	< 5.0	-	368	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	0.046	-	0.068	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	-	< 0.001	-
Tetrachloroethylene	mg/L	0.041	-	0.048	-
Trichloroethylene	mg/L	< 0.001	-	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

TABLE 5-65
GROUNDWATER MONITORING RESULTS FROM THE L-AREA REACTOR SEEPAGE BASIN WELLS

Well: LSB 1, L-Area Reactor Seepage Basin

SRP Grid	N 45153.1		ft (msl)
Coordinates	E 50700.9	Screen Zone Elevation	222.7 - 192.7
Latitude	33.208355° N	Top of Casing Elevation	232.7
Longitude	81.621038° W	Casing Material	PVC

Parameter	Units	01/30/88	06/02/88	09/20/88	11/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	208.6	209.3	208.4	207.4
pH	pH	4.7	4.9	5.0	4.5
Conductivity	µmhos/cm	14	19	18	17
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.3	< 3.0	< 3.0	1.3
Nonvolatile Beta	pCi/L	< 2.0	< 2.0	1.3	< 2.0
Tritium	pCi/mL	618	1970	2020	1860
Copper	mg/L	0.008	-	-	-
Iron	mg/L	0.149	-	-	-
Lead	mg/L	< 0.006	-	0.024	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-

Well: LSB 2, L-Area Reactor Seepage Basin

SRP Grid	N 45224.0		ft (msl)
Coordinates	E 50824.5	Screen Zone Elevation	225.0 - 195.0
Latitude	33.208713° N	Top of Casing Elevation	235.2
Longitude	81.620851° W	Casing Material	PVC

Parameter	Units	01/30/88	06/02/88	09/20/88	11/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209.4	210.1	209.2	208.1
pH	pH	4.7	4.5	3.6	4.2
Conductivity	µmhos/cm	27	30	30	32
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.2	2.8	1.2	1.2
Nonvolatile Beta	pCi/L	1.0	4.1	1.2	1.5
Tritium	pCi/mL	4.60	5.20	3.34	4.28
Copper	mg/L	0.015	-	-	-
Iron	mg/L	0.026	-	-	-
Lead	mg/L	0.032	-	0.030	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-

Well: LSB 3, L-Area Reactor Seepage Basin

SRP Grid	N 45388.7		ft (msl)
Coordinates	E 50729.7	Screen Zone Elevation	226.6 - 196.6
Latitude	33.208923° N	Top of Casing Elevation	236.4
Longitude	81.621420° W	Casing Material	PVC

Parameter	Units	01/30/88	06/09/88	09/20/88	11/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.3	214.3	214.1	212.5
pH	pH	4.8	4.7	3.9	4.4
Conductivity	µmhos/cm	19	10	20	22
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.7	1.0	< 3.0	0.8
Nonvolatile Beta	pCi/L	< 2.0	1.3	< 2.0	< 2.0
Tritium	pCi/mL	6.60	12.9	9.13	34.5
Copper	mg/L	0.032	-	-	-
Iron	mg/L	0.026	-	-	-
Lead	mg/L	0.012	-	0.020	-
Tot. Org. Carbon	mg/L	< 1.000	-	1.70	-

Well: LSB 4, L-Area Reactor Seepage Basin

SRP Grid	N 45321.6		ft (msl)
Coordinates	E 50513.0	Screen Zone Elevation	221.5 - 191.5
Latitude	33.208421° N	Top of Casing Elevation	231.5
Longitude	81.621860° W	Casing Material	PVC

Parameter	Units	01/30/88	06/02/88	09/20/88	11/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.9	214.6	214.1	211.5
pH	pH	4.2	4.5	4.6	4.1
Conductivity	µmhos/cm	31	35	34	35
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.4	< 3.0	< 3.0	1.6
Nonvolatile Beta	pCi/L	3.5	1.4	< 2.0	< 2.0
Tritium	pCi/mL	1980	1790	2340	3190
Copper	mg/L	0.010	-	-	-
Iron	mg/L	0.052	-	-	-
Lead	mg/L	0.013	-	0.041	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-

TABLE 5-66
MAXIMUM CONSTITUENT LEVELS AT M AREA

Constituent	DWS	Units	MSB	AC
Gross Alpha	15	pCi/L	**152**	-
Nonvolatile Beta	-	pCi/L	174	-
Total Radium	5	pCi/L	**108**	-
Tritium	20	pCi/mL	2.91	-
Arsenic	0.05	mg/L	0.003	-
Barium	1	mg/L	0.331	-
Cadmium	0.01	mg/L	**0.028**	-
Chromium	0.05	mg/L	0.036	-
Fluoride	4	mg/L	0.37	-
Lead	0.05	mg/L	**0.138**	-
Mercury	0.002	mg/L	**0.0023**	-
Selenium	0.01	mg/L	0.008	-
Silver	0.05	mg/L	0.026	-
Nitrate (as N)	10	mg/L	**156**	-
Carbon Tetrachloride	0.005	mg/L	**0.008**	-
Chloroform	0.1*	mg/L	**0.394**	<0.001
Trichloroethylene	0.005	mg/L	**126**	<0.001
1,1,1-Trichloroethane	0.2	mg/L	**0.135**	<0.001
Benzene	0.005	mg/L	<0.01	-
Chloroethene	0.002	mg/L	<0.01	-
1,4-Dichlorobenzene	0.075	mg/L	<0.01	-
1,2-Dichloroethane	0.005	mg/L	**0.113**	-
1,1-Dichloroethylene	0.005	mg/L	**0.459**	<0.001
2,4-D	0.1	mg/L	<0.0003	-
Endrin	0.0002	mg/L	<0.0001	-
Lindane	0.004	mg/L	<0.00001	-
Methoxychlor	0.1	mg/L	<0.0005	-
Silvex	0.01	mg/L	<0.0001	-
Toxaphene	0.005	mg/L	<0.001	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

MSB = M-Area Hazardous Waste Management Facility and Plume Definition Wells
AC = A-Area Cluster Perimeter Plume Definition Wells

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS

Well: MSB 1A, M-Area Settling Basin

				ft (msl)
SRP Grid	N 101833.7			
Coordinates	E 48467.3	Screen Zone Elevation		253.4 - 223.4
Latitude	33.330058° N	Top of Casing Elevation		353.4
Longitude	81.737025° W	Casing Material		PVC

Parameter	Units	01/14/88	04/01/88	07/10/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235	234.9	-	-
pH	pH	4.1	4.6	4.2	4.2
Conductivity	µmhos/cm	41	41	41	40
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	130	20	18	64
Gross Alpha	pCi/L	11.0	-	8.2	-
Nonvolatile Beta	pCi/L	7.0	-	6.1	-
Total Radium	pCi/L	6.9	-	4.3	-
Tritium	pCi/mL	-	-	1.03	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.007	0.007	0.006	0.005
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.918	-	1.26	-
Chloride	mg/L	1.8	1.8	2.4	2.3
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.052	0.067	0.039	0.096
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.035	-	< 0.004	-
Lead	mg/L	0.008	< 0.006	0.011	0.018
Magnesium	mg/L	0.396	-	0.307	-
Manganese	mg/L	0.006	-	0.103	-
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.27	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.06	3.32	3.14	2.58
Total Phosphates	mg/L	< 0.020	0.030	< 0.020	< 0.020
Zinc	mg/L	0.024	0.017	0.022	0.026
Nitrate (as N)	mg/L	3.69	2.20	2.35	2.12
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.20	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.007	-	0.036	-
Carbon Tetrachloride	mg/L	< 0.025	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.025	< 0.005	< 0.005	< 0.010
Tetrachloroethylene	mg/L	0.400	< 0.005	0.009	0.014
Trichloroethylene	mg/L	0.023	< 0.005	0.029	0.029
1,1,1-TCE	mg/L	< 0.025	< 0.005	< 0.005	< 0.010

Well: MSB 3A, M-Area Settling Basin

				ft (msl)
SRP Grid	N 102189.9			
Coordinates	E 48553.7	Screen Zone Elevation		259.8 - 229.8
Latitude	33.330987° N	Top of Casing Elevation		359.8
Longitude	81.737491° W	Casing Material		PVC

Parameter	Units	01/14/88	04/01/88	07/10/88	10/11/88
Sampling Method	NA	Pump	-	-	-
Water Elevation	ft	-	-	-	-
pH	pH	7.3	-	-	-
Conductivity	µmhos/cm	2130	-	-	-
Alkalinity	mg/L	216	-	-	-
TDS	mg/L	1270	-	-	-
Gross Alpha	pCi/L	< 6.0	-	-	-
Nonvolatile Beta	pCi/L	44.9	-	-	-
Total Radium	pCi/L	3.3	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	< 0.002	-	-	-
Barium	mg/L	0.012	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	< 0.002	-	-	-
Calcium	mg/L	5.16	-	-	-
Chloride	mg/L	19.3	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Copper	mg/L	< 0.004	-	-	-
Cyanide	mg/L	0.047	-	-	-
Fluoride	mg/L	0.17	-	-	-
Iron	mg/L	0.018	-	-	-
Lead	mg/L	< 0.006	-	-	-
Magnesium	mg/L	0.374	-	-	-
Manganese	mg/L	0.065	-	-	-
Mercury	mg/L	< 0.0002	-	-	-
Nickel	mg/L	0.019	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	-	-
Sodium	mg/L	425	-	-	-
Total Phosphates	mg/L	< 0.020	-	-	-
Zinc	mg/L	0.004	-	-	-
Nitrate (as N)	mg/L	125	-	-	-
Sulfate	mg/L	100	-	-	-
Phenols	mg/L	0.015	-	-	-
Tot. Org. Carbon	mg/L	7.90	-	-	-
Tot. Org. Halogens	mg/L	170	-	-	-
Carbon Tetrachloride	mg/L	< 10.000	-	-	-
Chloroform	mg/L	< 10.000	-	-	-
Tetrachloroethylene	mg/L	470	-	-	-
Trichloroethylene	mg/L	57.2	-	-	-
1,1,1-TCE	mg/L	< 10.000	-	-	-

Well: MSB 2A, M-Area Settling Basin

				ft (msl)
SRP Grid	N 102028.3			
Coordinates	E 48746.4	Screen Zone Elevation		252.7 - 222.7
Latitude	33.330944° N	Top of Casing Elevation		352.7
Longitude	81.736669° W	Casing Material		PVC

Parameter	Units	02/21/88	04/01/88	07/10/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.5	235.5	234.3	233.6
pH	pH	4.6	4.7	4.1	4.2
Conductivity	µmhos/cm	37	46	48	46
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	96	20	-	84
Gross Alpha	pCi/L	9.8	-	15.2	-
Nonvolatile Beta	pCi/L	5.8	-	10.8	-
Total Radium	pCi/L	4.5	-	8.2	-
Tritium	pCi/mL	-	-	1.34	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.010	0.009	0.008	0.008
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.27	-	2.01	-
Chloride	mg/L	2.6	3.2	2.5	2.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.165	0.236	0.339	0.392
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.018	-	0.009	-
Lead	mg/L	0.024	0.025	0.038	0.042
Magnesium	mg/L	0.286	-	0.418	-
Manganese	mg/L	0.009	-	0.080	-
Mercury	mg/L	< 0.0002	< 0.0002	0.0005	< 0.0002
Nickel	mg/L	0.004	< 0.004	< 0.004	0.004
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.66	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.17	2.78	2.68	2.32
Total Phosphates	mg/L	0.040	0.050	< 0.020	< 0.020
Zinc	mg/L	0.033	0.027	0.057	0.047
Nitrate (as N)	mg/L	14.5	2.20	2.75	2.47
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.807	-	0.167	-
Carbon Tetrachloride	mg/L	< 0.010	< 0.050	< 0.025	-
Chloroform	mg/L	< 0.010	< 0.050	< 0.025	< 0.200
Tetrachloroethylene	mg/L	0.622	0.563	0.290	0.186
Trichloroethylene	mg/L	0.371	0.323	0.210	0.160
1,1,1-TCE	mg/L	< 0.010	< 0.050	< 0.025	< 0.200

Well: MSB 4A, M-Area Settling Basin

				ft (msl)
SRP Grid	N 101933.4			
Coordinates	E 48313.0	Screen Zone Elevation		254.9 - 224.9
Latitude	33.330026° N	Top of Casing Elevation		354.9
Longitude	81.737626° W	Casing Material		PVC

Parameter	Units	01/21/88	04/01/88	07/07/88	11/15/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.4	-	-	-
pH	pH	7.1	7.1	6.6	6.6
Conductivity	µmhos/cm	1780	1857	1920	1840
Alkalinity	mg/L	231	246	120	194
TDS	mg/L	1200	1300	1110	1300
Gross Alpha	pCi/L	< 6.0	-	83.0	-
Nonvolatile Beta	pCi/L	83.2	-	125	-
Total Radium	pCi/L	4.3	-	5.1	-
Tritium	pCi/mL	-	-	0.85	-
Arsenic	mg/L	< 0.002	0.002	< 0.002	< 0.002
Barium	mg/L	< 0.004	0.005	< 0.004	0.004
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	9.00	-	4.40	-
Chloride	mg/L	6.1	9.0	7.2	6.4
Chromium	mg/L	0.005	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.016	0.010	0.043	0.018
Cyanide	mg/L	0.025	0.036	0.021	0.035
Fluoride	mg/L	0.13	-	< 0.10	-
Iron	mg/L	0.026	-	0.042	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.594	-	0.516	-
Manganese	mg/L	< 0.002	-	0.060	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	0.741	-
Selenium	mg/L	< 0.002	< 0.002	0.008	< 0.002
Silica	mg/L	-	-	3.30	-
Silver	mg/L	< 0.0020	< 0.0020	0.0260	< 0.0020
Sodium	mg/L	350	401	325	375
Total Phosphates	mg/L	0.070	0.170	0.110	0.150
Zinc	mg/L	0.016	0.003	0.016	0.017
Nitrate (as N)	mg/L	123	117	130	156
Sulfate	mg/L	8.4	110	148	128
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.70	-	3.10	-
Tot. Org. Halogens	mg/L	3.09	-	2.00	-
Carbon Tetrachloride	mg/L	< 0.025	< 0.005	0.008	< 0.005
Chloroform	mg/L	0.394	< 0.005	< 0.005	< 0.005
Tetrachloroethylene	mg/L	2.16	1.85	1.80	2.50
Trichloroethylene	mg/L	3.63	2.24	2.30	2.80
1,1,1-TCE	mg/L	0.025	< 0.005	0.051	0.044

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

Well: MSB 5A, M-Area Settling Basin

SRP Grid	N	101971.5		ft (msl)
Coordinates	E	46998.7	Screen Zone Elevation	247.6 - 217.6
Latitude		33.327964° N	Top of Casing Elevation	344.6
Longitude		81.741161° W	Casing Material	PVC

Parameter	Units	02/21/88	04/01/88	07/20/88	11/16/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.7	231.7	229.9	-
pH	pH	5.3	5.5	5.2	5.8
Conductivity	µmhos/cm	154	159	156	67
Alkalinity	mg/L	4	4	3	5
TDS	mg/L	182	118	116	86
Gross Alpha	pCi/L	4.1	-	9.8	-
Nonvolatile Beta	pCi/L	42.7	-	18.1	-
Total Radium	pCi/L	2.4	-	1.6	-
Tritium	pCi/mL	-	-	1.90	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.008	0.008	0.004	< 0.004
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	2.35	-	2.13	-
Chloride	mg/L	3.4	4.2	4.0	3.7
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.008	0.007	0.011	0.007
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.028	-	0.032	-
Lead	mg/L	0.013	0.008	0.012	< 0.006
Magnesium	mg/L	0.423	-	0.412	-
Manganese	mg/L	0.014	-	0.094	-
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0003
Nickel	mg/L	0.008	< 0.004	0.006	< 0.004
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.47	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	24.9	25.2	23.7	9.28
Total Phosphates	mg/L	0.020	0.040	< 0.020	< 0.020
Zinc	mg/L	0.020	0.014	0.018	0.018
Nitrate (as N)	mg/L	8.14	13.7	14.1	4.66
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	0.005	0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.048	-	0.053	-
Carbon Tetrachloride	mg/L	< 0.010	< 0.005	< 0.005	< 0.005
Chloroform	mg/L	< 0.010	< 0.005	< 0.005	< 0.005
Tetrachloroethylene	mg/L	0.069	0.021	0.047	0.021
Trichloroethylene	mg/L	0.014	< 0.005	0.012	0.006
1,1,1-TCE	mg/L	0.021	< 0.005	< 0.005	< 0.005

Well: MSB 7A, M-Area Settling Basin

SRP Grid	N	100585.7		ft (msl)
Coordinates	E	46726.1	Screen Zone Elevation	242.1 - 212.1
Latitude		33.324456° N	Top of Casing Elevation	344.5
Longitude		81.739182° W	Casing Material	PVC

Parameter	Units	01/20/88	04/01/88	07/20/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.3	231	230.2	229.7
pH	pH	5.5	5.7	5.0	5.2
Conductivity	µmhos/cm	75	89	95	93
Alkalinity	mg/L	4	2	1	1
TDS	mg/L	156	82	94	132
Gross Alpha	pCi/L	8.7	-	5.3	-
Nonvolatile Beta	pCi/L	6.4	-	3.1	-
Total Radium	pCi/L	3.2	-	1.6	-
Tritium	pCi/mL	-	-	1.97	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.012	0.015	0.013	0.014
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.30	-	1.15	-
Chloride	mg/L	3.7	3.9	4.1	5.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.025	-	0.014	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.593	-	0.563	-
Manganese	mg/L	0.028	-	0.261	-
Mercury	mg/L	< 0.0002	< 0.0002	0.0004	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	0.006
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.38	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	10.6	15.3	1.33	14.2
Total Phosphates	mg/L	0.060	0.050	< 0.020	< 0.020
Zinc	mg/L	0.012	0.004	0.009	0.040
Nitrate (as N)	mg/L	18.5	6.30	6.41	6.15
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	0.005	0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.066	-	0.059	-
Carbon Tetrachloride	mg/L	< 0.050	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.050	< 0.005	< 0.005	< 0.001
Tetrachloroethylene	mg/L	0.170	0.118	0.060	0.024
Trichloroethylene	mg/L	0.252	< 0.005	0.017	0.009
1,1,1 TCE	mg/L	< 0.050	< 0.005	< 0.005	0.002

Well: MSB 6A, M-Area Settling Basin

SRP Grid	N	101133.8		ft (msl)
Coordinates	E	46319.9	Screen Zone Elevation	241.9 - 211.9
Latitude		33.325004° N	Top of Casing Elevation	343.9
Longitude		81.741318° W	Casing Material	PVC

Parameter	Units	02/25/88	04/01/88	07/20/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	230.4	230.4	229.4	228.8
pH	pH	4.9	5.8	5.2	5.1
Conductivity	µmhos/cm	35	45	43	49
Alkalinity	mg/L	3	7	8	3
TDS	mg/L	34	54	96	128
Gross Alpha	pCi/L	1.9	-	1.4	-
Nonvolatile Beta	pCi/L	1.6	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	-	-	1.59	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.005	0.005	< 0.004	< 0.004
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.505	-	0.278	-
Chloride	mg/L	1.3	5.4	4.8	6.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.009	-	< 0.004	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.132	-	0.110	-
Manganese	mg/L	0.006	-	0.049	-
Mercury	mg/L	< 0.0002	< 0.0002	0.0001	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.02	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.56	7.79	7.66	8.55
Total Phosphates	mg/L	0.040	0.030	< 0.020	< 0.020
Zinc	mg/L	0.011	0.003	0.002	0.006
Nitrate (as N)	mg/L	3.93	0.49	0.52	0.45
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.005	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.005	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.005	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.005	< 0.001

Well: MSB 8A, M-Area Settling Basin

SRP Grid	N	100815.1		ft (msl)
Coordinates	E	47293.2	Screen Zone Elevation	242.5 - 212.5
Latitude		33.325889° N	Top of Casing Elevation	344.2
Longitude		81.738135° W	Casing Material	PVC

Parameter	Units	01/21/88	05/03/88	07/20/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.5	232	231.5	230.9
pH	pH	4.9	4.9	4.8	4.7
Conductivity	µmhos/cm	250	277	264	221
Alkalinity	mg/L	1	0	0	0
TDS	mg/L	168	206	194	224
Gross Alpha	pCi/L	39.8	-	22.5	-
Nonvolatile Beta	pCi/L	64.1	-	52.6	-
Total Radium	pCi/L	14.7	-	5.6	-
Tritium	pCi/mL	-	-	< 0.70	-
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.014	0.015	0.013	0.012
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.80	-	2.86	-
Chloride	mg/L	3.9	4.1	4.4	3.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.006	< 0.004	< 0.004	0.007
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.024	-	0.025	-
Lead	mg/L	< 0.006	0.009	< 0.006	0.013
Magnesium	mg/L	1.29	-	1.16	-
Manganese	mg/L	0.040	-	0.403	-
Mercury	mg/L	< 0.0002	0.0002	0.0003	0.0003
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	0.770	-
Selenium	mg/L	0.003	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	3.22	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	42.5	45.4	40.6	33.1
Total Phosphates	mg/L	0.030	0.030	< 0.020	< 0.020
Zinc	mg/L	0.011	0.013	0.006	0.009
Nitrate (as N)	mg/L	22.4	28.4	29.3	22.3
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.138	-	0.175	-
Carbon Tetrachloride	mg/L	0.002	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.005	< 0.010
Tetrachloroethylene	mg/L	0.105	0.204	0.130	0.252
Trichloroethylene	mg/L	0.033	0.046	0.053	0.078
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.005	< 0.010

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

Well: MSB 13A, M-Area Settling Basin

SRP Grid Coordinates	N 101725.7			ft (msl)
	E 47525.4	Screen Zone Elevation		134.9 - 129.9
Latitude	33.328281° N	Top of Casing Elevation		345.2
Longitude	81.739296° W	Casing Material		PVC

Parameter	Units	02/18/88	05/08/88	08/08/88	10/30/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	211.3	208	207.8	205.6
pH	pH	5.1	5.0	5.0	5.0
Conductivity	µmhos/cm	18	22	20	22
Alkalinity	mg/L	2	2	1	1
TDS	mg/L	182	36	29	-
Gross Alpha	pCi/L	< 3.0	-	0.7	-
Nonvolatile Beta	pCi/L	2.1	-	< 2.0	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	-	-	< 0.70	-
Arsenic	mg/L	-	0.002	< 0.002	< 0.002
Barium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.27	-	0.859	-
Chloride	mg/L	-	1.9	2.3	2.2
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	< 0.004	< 0.004	0.013
Cyanide	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	-	-	0.034	-
Lead	mg/L	0.008	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	0.256	-
Manganese	mg/L	-	-	< 0.002	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	9.02	-
Silver	mg/L	-	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.37	1.81	< 0.01	1.39
Total Phosphates	mg/L	-	0.030	< 0.020	< 0.020
Zinc	mg/L	0.150	0.088	0.058	0.109
Nitrate (as N)	mg/L	0.81	0.89	0.21	0.26
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	-	-	< 1.000	-
Tot. Org. Halogens	mg/L	-	-	0.007	-
Carbon Tetrachloride	mg/L	-	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.005	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.005	< 0.001
Trichloroethylene	mg/L	0.004	< 0.005	< 0.005	0.008
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.005	< 0.001

Well: MSB 13B, M-Area Settling Basin

SRP Grid Coordinates	N 101735.7			ft (msl)
	E 47523.5	Screen Zone Elevation		176.2 - 171.2
Latitude	33.328300° N	Top of Casing Elevation		345.6
Longitude	81.739320° W	Casing Material		PVC

Parameter	Units	03/04/88	05/19/88	09/05/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	199.1	205.3	204.2	193
pH	pH	11.5	11.5	11.8	11.7
Conductivity	µmhos/cm	1175	905	1801	1830
Alkalinity	mg/L	365	191	375	432
TDS	mg/L	230	306	517	-
Gross Alpha	pCi/L	4.4	-	11.0	-
Nonvolatile Beta	pCi/L	20.5	-	44.6	-
Total Radium	pCi/L	< 1.0	-	2.4	-
Tritium	pCi/mL	-	-	0.38	-
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	0.100	0.190	0.331	-
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	42.8	-	138	-
Chloride	mg/L	-	2.9	< 1.0	-
Chromium	mg/L	-	0.011	0.038	-
Copper	mg/L	-	0.009	0.015	-
Cyanide	mg/L	< 0.005	< 0.005	0.013	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	-	-	0.119	-
Lead	mg/L	0.009	0.019	0.038	-
Magnesium	mg/L	-	-	0.024	-
Manganese	mg/L	-	-	< 0.002	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	< 0.004	< 0.004	< 0.004	-
Potassium	mg/L	-	-	46.0	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silica	mg/L	-	-	12.9	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	18.0	26.2	38.4	-
Total Phosphates	mg/L	-	0.030	< 0.020	-
Zinc	mg/L	0.029	0.043	0.063	-
Nitrate (as N)	mg/L	12.6	24.4	11.8	-
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	-
Phenols	mg/L	0.032	0.009	0.006	-
Tot. Org. Carbon	mg/L	-	-	2.80	-
Tot. Org. Halogens	mg/L	-	-	0.069	-
Carbon Tetrachloride	mg/L	-	< 0.005	< 0.005	-
Chloroform	mg/L	< 0.020	< 0.005	< 0.005	< 0.020
Tetrachloroethylene	mg/L	0.081	0.123	0.057	0.053
Trichloroethylene	mg/L	0.035	0.060	0.042	0.032
1,1,1-TCE	mg/L	< 0.020	0.016	< 0.005	0.006

Well: MSB 13C, M-Area Settling Basin

SRP Grid Coordinates	N 101745.7			ft (msl)
	E 47521.9	Screen Zone Elevation		242.6 - 222.6
Latitude	33.328320° N	Top of Casing Elevation		345.7
Longitude	81.739344° W	Casing Material		PVC

Parameter	Units	02/19/88	05/09/88	08/09/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	-	5.1	5.2	-
Conductivity	µmhos/cm	-	720	954	-
Alkalinity	mg/L	-	3	4	-
TDS	mg/L	612	548	-	-
Gross Alpha	pCi/L	17.9	-	-	-
Nonvolatile Beta	pCi/L	122	-	-	-
Total Radium	pCi/L	4.4	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	-	-
Barium	mg/L	0.015	0.015	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	-	-
Calcium	mg/L	5.90	-	-	-
Chloride	mg/L	-	5.0	-	-
Chromium	mg/L	-	< 0.004	-	-
Copper	mg/L	-	< 0.004	-	-
Cyanide	mg/L	< 0.005	0.016	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.022	0.011	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	0.0002	-	-
Nickel	mg/L	0.036	0.034	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	< 0.0020	-	-
Sodium	mg/L	112	119	-	-
Total Phosphates	mg/L	-	0.190	-	-
Zinc	mg/L	1.51	0.753	-	-
Nitrate (as N)	mg/L	34.8	17.6	-	-
Sulfate	mg/L	< 5.0	< 5.0	-	-
Phenols	mg/L	< 0.005	< 0.005	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	-	< 0.005	< 0.010	-
Tetrachloroethylene	mg/L	-	0.017	0.011	-
Trichloroethylene	mg/L	-	0.017	0.015	-
1,1,1-TCE	mg/L	-	0.049	0.028	-

Well: MSB 22, M-Area Settling Basin

SRP Grid Coordinates	N 102186.5			ft (msl)
	E 48508.8	Screen Zone Elevation		241.7 - 221.7
Latitude	33.330906° N	Top of Casing Elevation		359.0
Longitude	81.737603° W	Casing Material		PVC

Parameter	Units	01/14/88	04/27/88	07/10/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.6	233.1	232.4	231.8
pH	pH	6.0	5.1	5.6	5.6
Conductivity	µmhos/cm	266	220	145	128
Alkalinity	mg/L	11	2	10	17
TDS	mg/L	-	-	86	152
Gross Alpha	pCi/L	-	47.5	34.7	-
Nonvolatile Beta	pCi/L	-	79.0	27.2	-
Total Radium	pCi/L	-	-	22.0	-
Tritium	pCi/mL	-	1.95	1.06	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	-	0.109	0.044	0.042
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	11.8	-
Chloride	mg/L	-	1.7	1.9	5.2
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	0.016	< 0.004	0.017
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	0.24	-
Iron	mg/L	-	-	< 0.004	-
Lead	mg/L	-	0.081	0.038	0.054
Magnesium	mg/L	-	-	0.804	-
Manganese	mg/L	-	-	0.062	-
Mercury	mg/L	-	< 0.0002	0.0005	< 0.0002
Nickel	mg/L	-	0.036	0.005	0.006
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	6.00	-
Silver	mg/L	-	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	-	5.54	4.09	3.30
Total Phosphates	mg/L	-	0.080	0.020	< 0.020
Zinc	mg/L	-	0.627	0.260	0.376
Nitrate (as N)	mg/L	-	22.2	11.8	8.78
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	-	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	-	-	1.60	-
Tot. Org. Halogens	mg/L	-	-	48.5	-
Carbon Tetrachloride	mg/L	-	< 0.005	< 0.005	< 0.005
Chloroform	mg/L	< 20.000	0.008	< 0.005	0.005
Tetrachloroethylene	mg/L	130	127	91.0	130
Trichloroethylene	mg/L	63.0	48.0	27.0	51.0
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.005	< 0.005

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

Well: MSB 29B, M-Area Settling Basin

SRP Grid	N	107319.3		ft (msl)
Coordinates	E	51217.5	Screen Zone Elevation	153.3 - 147.7
Latitude		33.346676° N	Top of Casing Elevation	365.2
Longitude		81.740456° W	Casing Material	PVC

Parameter	Units	02/24/88	05/10/88	08/14/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	227.4	226.8	226.9	225.6
pH	pH	4.4	4.4	4.5	4.4
Conductivity	µmhos/cm	26	28	28	28
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	24	40	29	45
Gross Alpha	pCi/L	1.4	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	0.3	< 1.0	1.6
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.006	0.005	0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	2.2	2.1	2.2	2.3
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	0.005
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	< 0.002	-
Mercury	mg/L	-	< 0.0002	< 0.0002	0.0003
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.12	2.14	2.14	2.08
Total Phosphates	mg/L	-	0.030	< 0.020	< 0.020
Zinc	mg/L	-	0.013	0.012	0.007
Nitrate (as N)	mg/L	1.57	1.10	1.45	1.64
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

Well: MSB 29C, M-Area Settling Basin

SRP Grid	N	107315.0		ft (msl)
Coordinates	E	51206.6	Screen Zone Elevation	181.2 - 175.6
Latitude		33.346648° N	Top of Casing Elevation	365.2
Longitude		81.740476° W	Casing Material	PVC

Parameter	Units	02/24/88	05/10/88	08/14/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.8	233.3	233.2	232.2
pH	pH	4.6	4.6	4.6	4.7
Conductivity	µmhos/cm	24	28	26	26
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	22	26	8	47
Gross Alpha	pCi/L	2.0	-	-	-
Nonvolatile Beta	pCi/L	3.7	-	-	-
Total Radium	pCi/L	1.2	0.6	< 1.0	0.6
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.007	0.005	0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	1.8	1.8	1.9	2.1
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	0.008
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.004	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.16	2.15	1.93	1.98
Total Phosphates	mg/L	-	0.020	< 0.020	< 0.020
Zinc	mg/L	-	0.009	0.022	0.011
Nitrate (as N)	mg/L	1.46	1.14	1.45	1.65
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

Well: MSB 29D, M-Area Settling Basin

SRP Grid	N	107323.3		ft (msl)
Coordinates	E	51226.9	Screen Zone Elevation	229.5 - 208.9
Latitude		33.346700° N	Top of Casing Elevation	365.1
Longitude		81.740439° W	Casing Material	PVC

Parameter	Units	02/24/88	05/10/88	08/14/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.2	235.5	235.4	234.3
pH	pH	4.4	4.4	4.4	4.5
Conductivity	µmhos/cm	33	38	36	35
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	30	40	31	59
Gross Alpha	pCi/L	20.6	-	-	-
Nonvolatile Beta	pCi/L	11.5	-	-	-
Total Radium	pCi/L	6.8	6.2	6.9	6.3
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.010	0.007	0.006	0.009
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	2.3	2.5	2.3	2.2
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.009	0.006	0.004	0.015
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.009	0.011	< 0.006	0.015
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.003	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.46	3.70	3.36	3.28
Total Phosphates	mg/L	-	0.030	< 0.020	0.060
Zinc	mg/L	-	0.006	0.024	0.012
Nitrate (as N)	mg/L	1.81	1.56	1.98	2.24
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

Well: MSB 43A, M-Area Settling Basin

SRP Grid	N	107275.3		ft (msl)
Coordinates	E	49293.7	Screen Zone Elevation	141.8 - 136.2
Latitude		33.343436° N	Top of Casing Elevation	357.9
Longitude		81.745437° W	Casing Material	PVC

Parameter	Units	02/24/88	05/11/88	08/13/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.5	232.3	231.8	231.1
pH	pH	5.2	5.1	4.9	5.0
Conductivity	µmhos/cm	21	20	20	23
Alkalinity	mg/L	1	1	1	0
TDS	mg/L	24	38	15	122
Gross Alpha	pCi/L	1.1	-	-	-
Nonvolatile Beta	pCi/L	1.8	-	-	-
Total Radium	pCi/L	< 1.0	0.3	< 1.0	< 1.0
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.004	0.004	< 0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	3.5	1.4	1.8	1.5
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	< 0.004	< 0.004	< 0.004	0.011
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.008	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.51	1.57	1.48	1.65
Total Phosphates	mg/L	-	0.060	< 0.020	< 0.020
Zinc	mg/L	-	0.024	0.023	0.032
Nitrate (as N)	mg/L	1.14	0.92	1.07	1.29
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

Well: MSB 43B, M-Area Settling Basin

			ft (msl)
SRP Grid	N 107274.6		
Coordinates	E 49311.8	Screen Zone Elevation	176.7 - 171.1
Latitude	33.343464° N	Top of Casing Elevation	358.0
Longitude	81.745388° W	Casing Material	PVC

Parameter	Units	02/24/88	05/11/88	08/14/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.6	232.4	232	231.2
pH	pH	5.1	4.9	4.9	4.8
Conductivity	µmhos/cm	25	22	23	37
Alkalinity	mg/L	1	0	1	1
TDS	mg/L	12	30	12	102
Gross Alpha	pCi/L	1.8	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	0.8	0.8	0.6	0.6
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	1.3	1.4	1.6	1.8
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.016	< 0.004	< 0.004	0.009
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.015	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.005	-
Mercury	mg/L	-	< 0.0002	0.0003	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.89	1.88	1.88	1.91
Total Phosphates	mg/L	-	0.020	< 0.020	< 0.020
Zinc	mg/L	-	0.011	0.021	0.071
Nitrate (as N)	mg/L	1.40	0.96	1.32	1.52
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	-
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	-

Well: MSB 43D, M-Area Settling Basin

			ft (msl)
SRP Grid	N 107274.2		
Coordinates	E 49322.0	Screen Zone Elevation	221.6 - 201.0
Latitude	33.343480° N	Top of Casing Elevation	357.5
Longitude	81.745360° W	Casing Material	PVC

Parameter	Units	02/24/88	05/11/88	08/13/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.5	234.1	234	233
pH	pH	4.9	4.8	4.6	4.6
Conductivity	µmhos/cm	26	24	25	25
Alkalinity	mg/L	1	0	0	0
TDS	mg/L	18	26	28	112
Gross Alpha	pCi/L	< 3.0	-	-	-
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	< 1.0	0.5	< 1.0
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.006	< 0.004	< 0.004	0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	2.0	2.0	2.4	2.1
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	0.006	0.005	< 0.004	0.005
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.008	0.009	< 0.006	0.010
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.013	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	1.76	1.68	1.63	1.72
Total Phosphates	mg/L	-	0.040	< 0.020	< 0.020
Zinc	mg/L	-	0.011	0.049	0.042
Nitrate (as N)	mg/L	1.24	0.88	1.08	1.21
Sulfate	mg/L	-	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	-
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	-
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	-
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	-

Other Analyses
(Pest/Herb*, GCMS Scan, and Appendix IX Analytes: Table 5-91)

MSB 1A 01/14/88

Aluminum	0.244 mg/L
Cyanide	< 0.005 mg/L
Cyanide	< 0.005 mg/L
Tin	< 0.12 mg/L
Tin	< 0.12 mg/L
Uranium	< 1 mg/L

Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None

MSB 1A 04/01/88

Aluminum	0.253 mg/L
Aluminum	0.231 mg/L
Cyanide	< 0.005 mg/L
Cyanide	< 0.005 mg/L
Tin	0.192 mg/L
Uranium	< 1 mg/L
Uranium	< 1 mg/L

GCMS Scan detected the following: None

MSB 1A 07/10/88

Aluminum	0.156 mg/L

Appendix IX analyses detected the following: None

MSB 1A 10/11/88

Aluminum	0.178 mg/L
Cyanide	< 0.005 mg/L
Cyanide	< 0.005 mg/L
Uranium	< 1 mg/L
1,1-Dichloroethylene	0.0039 mg/L
trans-1,2-Dichloroethene	< 0.01 mg/L

MSB 2A 02/21/88

Aluminum	0.335 mg/L
Aluminum	0.32 mg/L
Aluminum	0.326 mg/L
Cyanide	< 0.005 mg/L
Cyanide	< 0.005 mg/L
Tin	< 0.12 mg/L
Tin	< 0.12 mg/L
Tin	< 0.12 mg/L
Uranium	< 1 mg/L
Uranium	< 1 mg/L

GCMS Scan detected the following: None
Pest/Herb* analyses detected the following: None

MSB 2A 04/01/88

Aluminum	0.37 mg/L
Cyanide	< 0.005 mg/L
Tin	< 0.12 mg/L
Uranium	< 1 mg/L

GCMS Scan detected the following: None

MSB 2A 07/10/88

Aluminum	0.392 mg/L
Total Phenols	< 0.01 mg/L
Uranium	< 1 mg/L

Appendix IX analyses detected the following: None

MSB 2A 10/11/88

Aluminum	0.39 mg/L
Cyanide	< 0.005 mg/L
Uranium	< 1 mg/L
trans-1,2-Dichloroethene	< 0.2 mg/L

MSB 3A 01/14/88

Aluminum	0.104 mg/L
Cyanide	0.0472 mg/L
Cyanide	0.0455 mg/L
Tin	< 0.12 mg/L
Uranium	< 1 mg/L
Uranium	< 1 mg/L

GCMS Scan detected the following: None
Pest/Herb* analyses detected the following: None

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

MSB 4A	01/21/88	
Aluminum		<0.02 mg/L
Cyanide		0.025 mg/L
Tin		0.157 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
Chlorobenzene		0.018 mg/L
1,1-Dichloroethylene		0.023 mg/L
1,1-Dichloroethane		0.01 mg/L
trans-1,2-Dichloroethene		0.383 mg/L
Pest/Herb* analyses detected the following: None		
MSB 4A	04/01/88	
Aluminum		0.022 mg/L
Cyanide		0.0365 mg/L
Tin		0.135 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
Chlorobenzene		0.018 mg/L
Bromodichloromethane		0.026 mg/L
1,1-Dichloroethylene		0.029 mg/L
1,1-Dichloroethane		0.011 mg/L
MSB 4A	07/07/88	
Aluminum		0.274 mg/L
Aluminum		<0.02 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
Chlorobenzene		0.018 mg/L
Cyanide		0.0209 mg/L
Cyanide		0.0186 mg/L
1,1-Dichloroethane		0.450 mg/L
1,1-Dichloroethylene		0.025 mg/L
1,1-Dichloroethane		0.011 mg/L
MSB 4A	11/15/88	
Aluminum		<0.02 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
Cyanide		0.035 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
Chlorobenzene		0.016 mg/L
trans-1,2-Dichloroethene		0.346 mg/L
1,1-Dichloroethylene		0.025 mg/L
1,1-Dichloroethane		0.011 mg/L
MSB 4A	12/06/88	
GCMS Scan detected the following:		
Chlorobenzene		0.013 mg/L
1,1-Dichloroethylene		0.026 mg/L
1,1-Dichloroethane		0.012 mg/L
MSB 5A	02/21/88	
Aluminum		0.039 mg/L
Aluminum		0.038 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.011 mg/L
Pest/Herb* analyses detected the following: None		
MSB 5A	04/01/88	
Aluminum		0.026 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 5A	07/20/88	
Aluminum		0.028 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
trans-1,2-Dichloroethene		0.0085 mg/L
MSB 5A	11/16/88	
Aluminum		<0.02 mg/L
Cobalt		0.007 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 6A	02/25/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		0.719 mg/L
Uranium		<1 mg/L
Pest/Herb* analyses detected the following: None		
GCMS Scan detected the following: None		
MSB 6A	04/01/88	
Aluminum		0.032 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 6A	07/20/88	
Aluminum		0.024 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.012 mg/L
MSB 6A	10/11/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 6A	12/04/88	
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
MSB 7A	01/20/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Pest/Herb* analyses detected the following: None		
GCMS Scan detected the following: None		
MSB 7A	04/01/88	
Aluminum		0.031 mg/L
Aluminum		0.031 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 7A	07/20/88	
Aluminum		0.028 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.035 mg/L
MSB 7A	10/11/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 7A	12/14/88	
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

MSB 8A	01/21/88	
Aluminum		0.036 mg/L
Cyanide		<0.005 mg/L
Tin		0.364 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Pest/Herb* analyses detected the following: None		
GCMS Scan detected the following: None		
MSB 8A	05/03/88	
Aluminum		0.042 mg/L
Aluminum		0.04 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 8A	07/20/88	
Aluminum		0.048 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
Bis(2-Ethylhexyl) Phthalate		0.072 mg/L
MSB 8A	10/11/88	
Aluminum		0.03 mg/L
Aluminum		0.03 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 8A	12/04/88	
Bis(2-Ethylhexyl) Phthalate		0.024 mg/L
Bis(2-Ethylhexyl) Phthalate		<0.01 mg/L
MSB 13A	02/18/88	
Aluminum		0.037 mg/L
Cyanide		<0.005 mg/L
MSB 13A	05/08/88	
Aluminum		0.022 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 13A	08/08/88	
Aluminum		0.038 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Hydrogen Sulfide		<1 mg/L
Hydrogen Sulfide		<1 mg/L
Appendix IX analyses detected the following: None		
MSB 13A	10/30/88	
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 13B	03/04/88	
Aluminum		0.483 mg/L
Cyanide		<0.005 mg/L
MSB 13B	05/19/88	
Aluminum		0.172 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.001 mg/L

MSB 13B	09/05/88	
Acetone		<0.1 mg/L
Acrolein		<0.01 mg/L
Acrolein		<0.01 mg/L
Acrylonitrile		<0.008 mg/L
Acrylonitrile		<0.008 mg/L
Aluminum		0.239 mg/L
Aluminum		0.231 mg/L
Allyl Chloride		<0.1 mg/L
Bromodichloromethane		<0.005 mg/L
Trichlorofluoromethane		<0.005 mg/L
Bromoform		<0.005 mg/L
Bromomethane		<0.01 mg/L
Chloromethane		<0.01 mg/L
Acetonitrile (Methyl Cyanide)		<0.017 mg/L
Acetonitrile (Methyl Cyanide)		<0.017 mg/L
Chlorobenzene		<0.005 mg/L
Cobalt		<0.004 mg/L
Cobalt		<0.004 mg/L
Carbon Disulfide		<0.005 mg/L
Cyanide		0.013 mg/L
Chloroethene		<0.01 mg/L
Chloroethane		<0.01 mg/L
Benzene		<0.005 mg/L
Dibromochloromethane		<0.005 mg/L
Ethylbenzene		<0.005 mg/L
Hydrogen Sulfide		<1 mg/L
Hydrogen Sulfide		<1 mg/L
Iodomethane		<0.005 mg/L
Methacrylonitrile		<0.005 mg/L
Toluene		<0.005 mg/L
Methylethyl Ketone		<0.1 mg/L
Methyl Methacrylate		<0.005 mg/L
m-Xylene		<0.005 mg/L
o-Xylene		<0.005 mg/L
Propionitrile		<0.005 mg/L
Antimony		<0.003 mg/L
Antimony		<0.003 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Styrene		<0.005 mg/L
1,1,2,2-Tetrachloroethane		<0.005 mg/L
1,1,1,2-Tetrachloroethane		<0.005 mg/L
Thallium		<0.002 mg/L
Thallium		<0.002 mg/L
trans-1,2-Dichloroethene		<0.005 mg/L
trans-1,4-Dichloro-2-Butene		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Vanadium		<0.004 mg/L
Vanadium		<0.004 mg/L
Vinyl Acetate		<0.005 mg/L
1,1-Dichloroethylene		<0.005 mg/L
1,1-Dichloroethane		<0.005 mg/L
1,1,2-Trichloroethane		<0.005 mg/L
1,2-Dibromoethane		<0.005 mg/L
1,2-Dibromomethane		<0.005 mg/L
1,2-Dichloroethane		<0.005 mg/L
1,2-Dichloropropane		<0.005 mg/L
1,2,3-Trichloropropane		<0.005 mg/L
cis-1,3-Dichloropropene		<0.005 mg/L
trans-1,3-Dichloropropene		<0.005 mg/L
2-Chloroethylvinyl Ether		<0.005 mg/L
2-Hexanone		<0.05 mg/L
4-Methyl-2-Pentanone		<0.05 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 13B	11/12/88	
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 13C	02/19/88	
Aluminum		0.086 mg/L
Cyanide		<0.005 mg/L

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

MSB 13C	05/09/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		0.0159 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.01 mg/L
MSB 13C	08/09/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 22	04/27/88	
Aluminum		3.21 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
Toluene		0.378 mg/L
1,1,2,2-Tetrachloroethane		0.059 mg/L
MSB 22	07/10/88	
Aluminum		<0.02 mg/L
Aluminum		1.29 mg/L
Total Phenols		<0.01 mg/L
Total Phenols		<0.01 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Appendix IX analyses detected the following:		
Cobalt		0.003 mg/L
Cobalt		0.007 mg/L
MSB 22	10/11/88	
Aluminum		0.523 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 22	11/16/88	
Cobalt		<0.004 mg/L
Cobalt		0.007 mg/L
GCMS Scan detected the following:		
Chlorobenzene		0.012 mg/L
Toluene		0.005 mg/L
trans-1,2-Dichloroethene		0.224 mg/L
MSB 22	12/04/88	
Cobalt		0.006 mg/L
Cobalt		0.006 mg/L
GCMS Scan detected the following: None		
MSB 29A	08/14/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29A	11/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29B	02/24/88	
Aluminum		0.03 mg/L
Tin		0.021 mg/L
MSB 29B	05/10/88	
Aluminum		0.183 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 29B	08/14/88	
Aluminum		0.022 mg/L
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29B	11/08/88	
Aluminum		0.082 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29C	02/24/88	
Aluminum		0.033 mg/L
Aluminum		0.053 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
MSB 29C	05/10/88	
Aluminum		0.091 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 29C	08/14/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29C	11/08/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29D	02/24/88	
Aluminum		0.057 mg/L
Tin		0.544 mg/L
MSB 29D	05/10/88	
Aluminum		0.253 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 29D	08/14/88	
Aluminum		0.043 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29D	11/08/88	
Aluminum		0.044 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29TA	08/14/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 29TA	11/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 43A	02/24/88	
Aluminum		<0.02 mg/L
Aluminum		0.023 mg/L
Tin		0.365 mg/L
MSB 43A	05/11/88	
Aluminum		0.144 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		

TABLE 5-67
GROUNDWATER MONITORING RESULTS FROM THE M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY WELLS, CONT'D.

MSB 43A	08/13/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 43A	10/28/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 43B	02/24/88	
Aluminum		0.025 mg/L
Tin		0.271 mg/L
MSB 43B	05/11/88	
Aluminum		0.117 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 43B	08/14/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
MSB 43B	10/28/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 43D	02/24/88	
Aluminum		0.061 mg/L
Tin		0.18 mg/L
Tin		0.25 mg/L
MSB 43D	05/11/88	
Aluminum		0.314 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 43D	08/13/88	
Aluminum		0.042 mg/L
Cyanide		<0.005 mg/L
Tin		<0.12 mg/L
Uranium		<1 mg/L
MSB 43D	10/28/88	
Aluminum		0.05 mg/L
Aluminum		0.052 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
MSB 43TA	08/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 43TA	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS

Well: AC 1A, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 105865.0			
Coordinates	E 42238.8	Screen Zone Elevation		145.7 - 140.7
Latitude	33.328795° N	Top of Casing Elevation		262.1
Longitude	81.761268° W	Casing Material		Steel

Parameter	Units	01/27/88	04/02/88	07/08/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.1	215.5	214.6	213.6
pH	pH	5.6	6.0	5.3	5.3
Conductivity	µmhos/cm	22	24	24	25
Alkalinity	mg/L	3	4	3	4
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Well: AC 1B, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 105862.8			
Coordinates	E 42250.5	Screen Zone Elevation		202.1 - 197.1
Latitude	33.328809° N	Top of Casing Elevation		262.0
Longitude	81.761233° W	Casing Material		Steel

Parameter	Units	02/07/88	04/02/88	07/08/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.9	215.4	214.5	213.7
pH	pH	5.8	6.1	5.4	5.4
Conductivity	µmhos/cm	41	27	29	30
Alkalinity	mg/L	5	5	4	4
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Well: AC 2A, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 105636.4			
Coordinates	E 46428.6	Screen Zone Elevation		146.0 - 141.0
Latitude	33.335134° N	Top of Casing Elevation		344.7
Longitude	81.749792° W	Casing Material		PVC

Parameter	Units	01/21/88	04/03/88	07/06/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.9	224.3	223.3	222
pH	pH	6.2	6.5	6.0	5.7
Conductivity	µmhos/cm	63	42	37	33
Alkalinity	mg/L	15	14	22	21
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: AC 2B, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 105648.7			
Coordinates	E 46444.5	Screen Zone Elevation		236.4 - 216.4
Latitude	33.335187° N	Top of Casing Elevation		344.8
Longitude	81.749774° W	Casing Material		PVC

Parameter	Units	01/21/88	04/03/88	07/06/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.5	231.9	230.6	229.6
pH	pH	6.1	6.5	5.4	5.4
Conductivity	µmhos/cm	24	46	21	21
Alkalinity	mg/L	6	4	4	5
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Well: AC 3A, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 100989.1			
Coordinates	E 42119.8	Screen Zone Elevation		153.6 - 148.6
Latitude	33.317824° N	Top of Casing Elevation		302.3
Longitude	81.752094° W	Casing Material		PVC

Parameter	Units	01/23/88	04/02/88	07/08/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.4	212	211.2	210.5
pH	pH	6.0	6.5	6.0	6.1
Conductivity	µmhos/cm	46	49	46	53
Alkalinity	mg/L	15	17	16	19
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Well: AC 3B, A-Area Cluster Perimeter Wells

				ft (msl)
SRP Grid	N 100996.5			
Coordinates	E 42113.6	Screen Zone Elevation		213.4 - 193.4
Latitude	33.317830° N	Top of Casing Elevation		302.5
Longitude	81.752125° W	Casing Material		PVC

Parameter	Units	01/23/88	04/02/88	07/08/88	10/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	214.3	214.2	213.3	212.6
pH	pH	8.7	10.2	9.5	9.6
Conductivity	µmhos/cm	82	95	84	97
Alkalinity	mg/L	37	43	36	42
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Other Analyses

AC 2A	07/06/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
AC 2A	10/01/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: ASB 8, Savannah River Laboratory Seepage Basins

SRP Grid	N 106381.6			ft (msl)
Coordinates	E 53136.6	Screen Zone Elevation		226.6 - 206.6
Latitude	33.347737° N	Top of Casing Elevation		349.0
Longitude	81.733577° W	Casing Material		PVC

Parameter	Units	02/24/88	04/17/88	07/13/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.9	235.9	235	234.6
pH	pH	4.8	4.7	4.7	4.6
Conductivity	µmhos/cm	38	35	35	34
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	24.3	-	2.6	-
Nonvolatile Beta	pCi/L	20.7	-	4.4	-
Total Radium	pCi/L	< 1.0	-	1.0	-
Tritium	pCi/mL	-	-	2.28	-
Arsenic	mg/L	-	-	< 0.002	-
Barium	mg/L	-	-	0.004	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	-	-	0.549	-
Chloride	mg/L	5.6	-	4.7	-
Chromium	mg/L	-	-	< 0.004	-
Copper	mg/L	0.073	-	-	-
Fluoride	mg/L	-	-	< 0.10	-
Iron	mg/L	0.012	-	0.053	-
Lead	mg/L	0.012	-	< 0.006	-
Magnesium	mg/L	-	-	0.309	-
Manganese	mg/L	0.003	-	0.003	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	< 0.500	-
Selenium	mg/L	-	-	< 0.002	-
Silica	mg/L	-	-	3.13	-
Silver	mg/L	-	-	< 0.0020	-
Sodium	mg/L	3.95	-	3.70	-
Total Phosphates	mg/L	-	-	0.030	-
Nitrate (as N)	mg/L	-	-	0.76	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	-	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	1.20	-	0.744	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	0.019	-	0.027	-
Tetrachloroethylene	mg/L	0.004	-	0.021	-
Trichloroethylene	mg/L	0.942	-	0.932	-
1,1,1-TCE	mg/L	< 0.001	-	< 0.001	-

Well: ASB 8B, Savannah River Laboratory Seepage Basins

SRP Grid	N 106362.3			ft (msl)
Coordinates	E 53109.6	Screen Zone Elevation		128.4 - 122.8
Latitude	33.347650° N	Top of Casing Elevation		349.8
Longitude	81.733611° W	Casing Material		PVC

Parameter	Units	02/24/88	04/17/88	07/13/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.9	220.6	220.1	219.4
pH	pH	5.4	5.2	5.3	5.4
Conductivity	µmhos/cm	32	31	30	30
Alkalinity	mg/L	2	2	3	2
TDS	mg/L	50	-	-	-
Gross Alpha	pCi/L	< 3.0	-	0.9	-
Nonvolatile Beta	pCi/L	1.7	-	1.8	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	1.50	-	0.77	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.006	-	0.005	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	1.61	-	1.23	-
Chloride	mg/L	1.1	-	1.8	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	< 0.004	-	-	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.010	-	0.008	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.362	-	0.348	-
Manganese	mg/L	0.008	-	0.007	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	0.500	-	0.660	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	3.37	-	3.27	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	3.31	-	3.35	-
Total Phosphates	mg/L	< 0.020	-	< 0.020	-
Nitrate (as N)	mg/L	2.03	-	1.78	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.736	-	0.996	-
Carbon Tetrachloride	mg/L	< 0.001	< 0.005	< 0.001	-
Chloroform	mg/L	0.005	< 0.005	< 0.001	< 0.100
Tetrachloroethylene	mg/L	0.008	< 0.005	0.004	< 0.100
Trichloroethylene	mg/L	1.25	1.39	0.663	2.52
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.100

Well: ASB 8A, Savannah River Laboratory Seepage Basins

SRP Grid	N 106369.3			ft (msl)
Coordinates	E 53117.5	Screen Zone Elevation		83.5 - 77.9
Latitude	33.347679° N	Top of Casing Elevation		349.3
Longitude	81.733603° W	Casing Material		PVC

Parameter	Units	02/24/88	04/17/88	07/13/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.4	219.2	219	218.2
pH	pH	5.6	5.4	5.3	5.4
Conductivity	µmhos/cm	26	23	23	23
Alkalinity	mg/L	3	2	2	2
TDS	mg/L	42	-	-	-
Gross Alpha	pCi/L	< 3.0	-	< 3.0	-
Nonvolatile Beta	pCi/L	< 2.0	-	2.3	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	1.00	-	0.38	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.008	-	0.005	-
Cadmium	mg/L	0.003	-	0.002	-
Calcium	mg/L	2.46	-	1.25	-
Chloride	mg/L	5.6	-	1.7	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	0.007	-	-	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.018	-	0.027	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.334	-	0.284	-
Manganese	mg/L	0.011	-	0.009	-
Mercury	mg/L	< 0.0002	-	< 0.0002	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	< 0.500	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	3.48	-	3.17	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	2.16	-	1.93	-
Total Phosphates	mg/L	0.020	-	< 0.020	-
Nitrate (as N)	mg/L	1.69	-	0.88	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	< 0.001	-	< 0.001	-
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	0.003
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: ASB 8C, Savannah River Laboratory Seepage Basins

SRP Grid	N 106354.4			ft (msl)
Coordinates	E 53101.0	Screen Zone Elevation		188.3 - 182.7
Latitude	33.347619° N	Top of Casing Elevation		349.7
Longitude	81.733618° W	Casing Material		PVC

Parameter	Units	02/24/88	04/17/88	07/13/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.8	224.6	224	223.2
pH	pH	5.0	4.7	4.8	4.8
Conductivity	µmhos/cm	41	43	42	42
Alkalinity	mg/L	2	0	0	0
TDS	mg/L	38	-	-	-
Gross Alpha	pCi/L	2.0	-	2.1	-
Nonvolatile Beta	pCi/L	3.6	-	5.1	-
Total Radium	pCi/L	0.8	-	0.9	-
Tritium	pCi/mL	24.9	-	18.8	-
Arsenic	mg/L	< 0.002	-	< 0.002	-
Barium	mg/L	0.014	-	0.010	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	1.53	-	1.80	-
Chloride	mg/L	6.2	-	5.5	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	0.006	-	-	-
Fluoride	mg/L	< 0.10	-	< 0.10	-
Iron	mg/L	0.056	-	0.038	-
Lead	mg/L	< 0.006	-	< 0.006	-
Magnesium	mg/L	0.614	-	0.579	-
Manganese	mg/L	0.006	-	0.006	-
Mercury	mg/L	0.0008	-	0.0008	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	< 0.500	-	< 0.500	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	3.76	-	3.64	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	3.96	-	3.73	-
Total Phosphates	mg/L	0.620	-	< 0.020	-
Nitrate (as N)	mg/L	1.93	-	1.84	-
Sulfate	mg/L	< 5.0	-	< 5.0	-
Phenols	mg/L	< 0.005	-	< 0.005	-
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.976	-	1.20	-
Carbon Tetrachloride	mg/L	< 0.050	< 0.005	< 0.001	-
Chloroform	mg/L	< 0.050	< 0.005	0.003	-
Tetrachloroethylene	mg/L	0.101	0.153	0.097	-
Trichloroethylene	mg/L	1.25	1.65	0.826	-
1,1,1-TCE	mg/L	< 0.050	< 0.005	< 0.001	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: ASB 8TA, Savannah River Laboratory Seepage Basins

SRP Grid N 106375.8
Coordinates E 53124.7
Latitude 33.347705° N
Longitude 81.733597° W
Screen Zone Elevation ft (msl) 24.6 - 19.4
Top of Casing Elevation 349.6
Casing Material C.S.

Parameter	Units	03/09/88	04/17/88	07/13/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	213.7	214.6	215.1	214.1
pH	pH	5.2	5.1	5.1	5.1
Conductivity	µmhos/cm	29	22	22	22
Alkalinity	mg/L	-	0	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	-
Tot Org Carbon	mg/L			-	-
Tot. Org. Halogens	mg/L				
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: ASB 9B, Savannah River Laboratory Seepage Basins

SRP Grid N 104564.7
Coordinates E 54215.3
Latitude 33.345482° N
Longitude 81.727201° W
Screen Zone Elevation ft (msl) -
Top of Casing Elevation 309.0
Casing Material PVC

Parameter	Units	02/24/88	04/07/88	07/14/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.4	219.9	219.9	219.1
pH	pH	9.8	10.0	9.6	9.1
Conductivity	µmhos/cm	140	142	146	125
Alkalinity	mg/L	84	61	62	53
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot Org. Halogens	mg/L			-	-
Carbon Tetrachloride	mg/L				
Chloroform	mg/L	<0.020	<0.010	<0.010	0.002
Tetrachloroethylene	mg/L	0.049	0.045	0.038	0.041
Trichloroethylene	mg/L	0.055	0.051	0.044	0.050
1,1,1-TCE	mg/L	<0.020	<0.010	<0.010	<0.010

Well: ASB 9, Savannah River Laboratory Seepage Basins

SRP Grid N 104589.2
Coordinates E 54226.2
Latitude 33.345554° N
Longitude 81.727220° W
Screen Zone Elevation ft (msl) 236.4 - 216.4
Top of Casing Elevation 309.0
Casing Material PVC

Parameter	Units	01/28/88	04/07/88	07/14/88	10/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	241.1	240.9	240.2	239.9
pH	pH	5.2	5.5	4.9	5.1
Conductivity	µmhos/cm	34	41	37	40
Alkalinity	mg/L	2	2	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.1	-	2.0	-
Nonvolatile Beta	pCi/L	3.4	-	3.7	-
Total Radium	pCi/L	1.1	-	0.8	-
Tritium	pCi/mL	-	-	1.03	-
Arsenic	mg/L	-	-	<0.002	-
Barium	mg/L	-	-	0.035	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	-	-	2.09	-
Chloride	mg/L	2.6	-	3.2	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	0.004	-	-	-
Fluoride	mg/L	-	-	<0.10	-
Iron	mg/L	0.019	-	0.051	-
Lead	mg/L	0.007	-	<0.006	-
Magnesium	mg/L	-	-	0.915	-
Manganese	mg/L	0.024	-	0.022	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Nickel	mg/L	<0.004	-	-	-
Potassium	mg/L	-	-	<0.500	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	1.60	-
Silver	mg/L	-	-	<0.0020	-
Sodium	mg/L	2.08	-	2.21	-
Total Phosphates	mg/L	-	-	0.070	-
Nitrate (as N)	mg/L	-	-	0.27	-
Sulfate	mg/L	<5.0	-	<5.0	-
Phenols	mg/L	-	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Other Analyses
(GCMS Scan and Gamma PHA Analytes: Table 5-91)

ASB 8 07/13/88
trans-1,2-Dichloroethene <0.2 mg/L
1,1-Dichloroethylene <0.2 mg/L
Radium 226 1.52 pCi/mL
Gamma PHA analyses detected the following: None

ASB 8A 07/13/88
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L
Cadmium 109 0.802 pCi/mL
Gamma PHA analyses detected the following: None

ASB 8A 10/09/88
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L

ASB 8B 04/17/88
GCMS Scan detected the following:
Toluene 0.012 mg/L
1,1,2,2-Tetrachloroethane 0.015 mg/L

ASB 8B 07/13/88
Gamma PHA analyses detected the following: None

ASB 8C 04/17/88
GCMS Scan detected the following:
trans-1,2-Dichloroethene 0.036 mg/L

ASB 8C 07/13/88
Potassium 40 0.56 pCi/mL
Gamma PHA analyses detected the following: None

ASB 8TA 07/13/88
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L
Gamma PHA analyses detected the following: None

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

ASB 8TA	10/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
ASB 9	07/14/88	
Gamma PHA analyses detected the following: None		
ASB 9B	07/14/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
Gamma PHA analyses detected the following: None		
ASB 9B	10/09/88	
trans-1,2-Dichloroethene		0.004 mg/L
1,1-Dichloroethylene		<0.01 mg/L

Well: MSB 4B, M-Area Settling Basin

SRP Grid Coordinates
Latitude
Longitude

Screen Zone Elevation — ft (msl)
Top of Casing Elevation
Casing Material

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	-
pH	pH	6.2
Conductivity	µmhos/cm	3
Alkalinity	mg/L	1
TDS	mg/L	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Total Radium	pCi/L	-
Tritium	pCi/mL	-
Arsenic	mg/L	-
Barium	mg/L	-
Beryllium	mg/L	-
Cadmium	mg/L	-
Calcium	mg/L	-
Chloride	mg/L	-
Chromium	mg/L	-
Copper	mg/L	-
Cyanide	mg/L	-
Fluoride	mg/L	-
Iron	mg/L	-
Lead	mg/L	-
Magnesium	mg/L	-
Manganese	mg/L	-
Mercury	mg/L	-
Nickel	mg/L	-
Potassium	mg/L	-
Selenium	mg/L	-
Silica	mg/L	-
Silver	mg/L	-
Sodium	mg/L	-
Total Phosphates	mg/L	-
Zinc	mg/L	-
Nitrate (as N)	mg/L	-
Sulfate	mg/L	-
Phenols	mg/L	-
Tot. Org. Carbon	mg/L	-
Tot. Org. Halogens	mg/L	-
Carbon Tetrachloride	mg/L	-
Chloroform	mg/L	-
Tetrachloroethylene	mg/L	-
Trichloroethylene	mg/L	-
1,1,1-TCE	mg/L	-

Well: MSB 9A, M-Area Settling Basin

SRP Grid Coordinates N 102236.7, E 48242.5
Latitude 33.330582° N
Longitude 81.738401° W

Screen Zone Elevation — ft (msl) 143.7 - 138.7
Top of Casing Elevation 359.4
Casing Material PVC

Parameter	Units	02/17/88	05/04/88	07/04/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216	212.5	212.4	211.1
pH	pH	5.8	6.1	6.1	6.1
Conductivity	µmhos/cm	42	42	38	40
Alkalinity	mg/L	14	18	12	15
TDS	mg/L	40	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	<2.0	-
Total Radium	pCi/L	0.7	-	0.4	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	0.003
Barium	mg/L	0.007	0.009	0.006	0.007
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	4.04	-	-	-
Chloride	mg/L	1.8	1.9	2.2	6.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.026	-	<0.004	-
Lead	mg/L	0.048	0.042	<0.006	0.011
Magnesium	mg/L	0.294	-	-	-
Manganese	mg/L	0.002	-	<0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0003
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.46	1.74	1.62	1.83
Total Phosphates	mg/L	0.030	0.050	0.030	<0.020
Zinc	mg/L	3.82	5.36	2.59	2.94
Nitrate (as N)	mg/L	0.55	0.34	0.26	0.30
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.100	<1.000
Tetrachloroethylene	mg/L	1.27	2.32	1.47	3.71
Trichloroethylene	mg/L	2.99	2.24	2.07	4.72
1,1,1-TCE	mg/L	<0.001	<0.005	<0.100	<1.000

Well: MSB 9B, M-Area Settling Basin

SRP Grid Coordinates N 102239.4, E 48251.7
Latitude 33.330603° N
Longitude 81.738382° W

Screen Zone Elevation — ft (msl) 208.7 - 203.7
Top of Casing Elevation 359.6
Casing Material PVC

Parameter	Units	02/18/88	04/27/88	07/04/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.3	233.6	233.2	232.1
pH	pH	9.0	9.5	9.0	9.2
Conductivity	µmhos/cm	289	340	257	249
Alkalinity	mg/L	20	36	28	17
TDS	mg/L	240	-	-	-
Gross Alpha	pCi/L	8.9	-	8.2	-
Nonvolatile Beta	pCi/L	11.7	-	10.3	-
Total Radium	pCi/L	3.9	-	3.1	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.033	0.034	0.028	0.031
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	37.7	-	-	-
Chloride	mg/L	4.0	3.9	3.9	3.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.009	0.006	<0.004	0.008
Cyanide	mg/L	<0.005	<0.005	0.011	<0.005
Fluoride	mg/L	0.13	-	-	-
Iron	mg/L	0.013	-	0.024	-
Lead	mg/L	0.014	<0.006	<0.006	<0.006
Magnesium	mg/L	1.58	-	-	-
Manganese	mg/L	0.004	-	0.003	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0003
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	13.9	14.7	13.8	14.4
Total Phosphates	mg/L	0.020	0.020	0.030	<0.020
Zinc	mg/L	0.073	0.039	0.049	0.105
Nitrate (as N)	mg/L	12.4	27.7	21.1	21.3
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<5.000	<0.005	<5.000	<5.000
Tetrachloroethylene	mg/L	59.4	0.634	83.6	70.4
Trichloroethylene	mg/L	33.4	0.307	33.9	51.7
1,1,1-TCE	mg/L	<5.000	<0.005	<5.000	<5.000

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 9C, M-Area Settling Basin

SRP Grid	N	102245.6		ft (msl)
Coordinates	E	48273.0	Screen Zone Elevation	241.3 - 221.3
Latitude		33.330651° N	Top of Casing Elevation	359.1
Longitude		81.738338° W	Casing Material	PVC

Parameter	Units	02/17/88	04/27/88	07/04/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.8	232.9	232.3	231.5
pH	pH	3.3	3.9	3.9	3.8
Conductivity	µmhos/cm	278	380	359	335
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	172	-	-	-
Gross Alpha	pCi/L	137	67.2	152	-
Nonvolatile Beta	pCi/L	104	174	137	-
Total Radium	pCi/L	104	-	108	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.090	0.095	0.078	0.081
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	12.9			-
Chloride	mg/L	3.9	4.9	5.7	9.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.014	0.009	0.007	0.023
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	0.37	-	-	-
Iron	mg/L	0.068	-	0.062	-
Lead	mg/L	<0.006	0.007	0.011	0.008
Magnesium	mg/L	2.20	-	-	-
Manganese	mg/L	0.261	-	0.296	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0004
Nickel	mg/L	0.045	0.042	0.040	0.039
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	20.3	25.5	30.2	32.9
Total Phosphates	mg/L	0.030	0.030	0.020	<0.020
Zinc	mg/L	0.073	0.049	0.060	0.052
Nitrate (as N)	mg/L	14.8	35.4	32.7	32.5
Sulfate	mg/L	<5.0	<5.0	<5.0	5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<5.000	-	-
Chloroform	mg/L	<10.000	<5.000	<10.000	<10.000
Tetrachloroethylene	mg/L	43.5	988	113	198
Trichloroethylene	mg/L	35.5	100	103	118
1,1,1-TCE	mg/L	<0.001	<5.000	<10.000	<10.000

Well: MSB 10B, M-Area Settling Basin

SRP Grid	N	102488.2		ft (msl)
Coordinates	E	47943.1	Screen Zone Elevation	154.5 - 149.5
Latitude		33.330649° N	Top of Casing Elevation	354.7
Longitude		81.739679° W	Casing Material	PVC

Parameter	Units	02/17/88	04/30/88	07/04/88	10/06/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	213.3	212.7	212.3	211.3
pH	pH	5.3	5.3	5.2	5.1
Conductivity	µmhos/cm	32	38	39	38
Alkalinity	mg/L	2	3	2	1
TDS	mg/L	76	-	-	-
Gross Alpha	pCi/L	<3.0	-	0.7	-
Nonvolatile Beta	pCi/L	<2.0	-	<2.0	-
Total Radium	pCi/L	<1.0	-	0.6	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.014	0.011	0.011
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	2.03	-	-	-
Chloride	mg/L	-	2.1	2.4	2.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.030	-
Lead	mg/L	0.012	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.006	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	0.006	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.36	3.01	2.52	2.73
Total Phosphates	mg/L	-	<0.020	0.040	<0.020
Zinc	mg/L	0.152	0.127	0.154	0.101
Nitrate (as N)	mg/L	0.35	1.68	0.43	0.08
Sulfate	mg/L	8.0	8.4	8.0	8.4
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.005	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.005	0.001	0.002
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 10A, M-Area Settling Basin

SRP Grid	N	102451.8		ft (msl)
Coordinates	E	47954.4	Screen Zone Elevation	122.9 - 117.9
Latitude		33.330587° N	Top of Casing Elevation	355.0
Longitude		81.739578° W	Casing Material	PVC

Parameter	Units	02/17/88	04/30/88	08/09/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.3	210.6	210.7	209
pH	pH	5.5	5.4	5.3	5.3
Conductivity	µmhos/cm	23	20	21	20
Alkalinity	mg/L	3	3	4	4
TDS	mg/L	36	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	1.6	-	<2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.005	<0.004	0.025	<0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	2.36	-	-	-
Chloride	mg/L	-	1.9	2.3	4.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.017	-
Lead	mg/L	<0.006	<0.006	<0.006	0.016
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	<0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.42	1.50	1.06	2.05
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	0.269	0.123	0.077	0.134
Nitrate (as N)	mg/L	0.49	0.34	0.30	0.25
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.046	<0.001	0.002
Trichloroethylene	mg/L	0.004	0.017	0.006	0.009
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 10C, M-Area Settling Basin

SRP Grid	N	102465.6		ft (msl)
Coordinates	E	47951.1	Screen Zone Elevation	209.7 - 205.5
Latitude		33.330612° N	Top of Casing Elevation	356.0
Longitude		81.739614° W	Casing Material	PVC

Parameter	Units	02/17/88	04/30/88	07/04/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.5	231.9	231.2	230.6
pH	pH	6.8	7.5	6.8	6.8
Conductivity	µmhos/cm	204	260	236	255
Alkalinity	mg/L	35	44	42	42
TDS	mg/L	172	-	-	-
Gross Alpha	pCi/L	14.4	-	7.6	-
Nonvolatile Beta	pCi/L	15.7	-	8.7	-
Total Radium	pCi/L	3.4	-	3.1	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.115	0.138	0.121	0.146
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	20.9	-	-	-
Chloride	mg/L	-	5.0	4.7	6.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	<0.004	0.006
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.017	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.016	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	16.6	20.2	16.8	19.0
Total Phosphates	mg/L	-	0.110	0.060	<0.020
Zinc	mg/L	0.034	0.032	0.051	0.031
Nitrate (as N)	mg/L	8.34	22.0	<0.05	16.9
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<10.000	<0.005	<10.000	<10.000
Tetrachloroethylene	mg/L	18.9	25.5	14.5	56.7
Trichloroethylene	mg/L	32.5	33.5	27.1	75.1
1,1,1-TCE	mg/L	<10.000	<0.005	<10.000	<10.000

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 11A, M-Area Settling Basin

SRP Grid	N	102638.9		ft (msl)
Coordinates	E	48577.6	Screen Zone Elevation	135.4 - 130.4
Latitude		33.332018° N	Top of Casing Elevation	364.9
Longitude		81.738301° W	Casing Material	PVC

Parameter	Units	02/17/88	04/27/88	07/03/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.1	215	213.5	212.6
pH	pH	6.3	6.3	5.9	5.8
Conductivity	µmhos/cm	36	43	39	35
Alkalinity	mg/L	17	15	11	12
TDS	mg/L	50	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	2.0	-	<2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.007	0.007	0.006	0.006
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	6.37	-	-	-
Chloride	mg/L	2.0	2.0	2.3	2.3
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.008	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	0.006	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.011	-	0.018	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.274	-	-	-
Manganese	mg/L	0.002	-	0.003	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.42	1.48	1.62	1.59
Total Phosphates	mg/L	0.070	0.120	0.140	0.080
Zinc	mg/L	0.174	0.117	0.130	0.131
Nitrate (as N)	mg/L	0.44	0.26	0.38	0.25
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	0.010	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.010	<0.005	<0.010	<0.010
Tetrachloroethylene	mg/L	0.001	<0.005	<0.010	<0.001
Trichloroethylene	mg/L	0.019	0.022	0.015	0.015
1,1,1-TCE	mg/L	<0.010	<0.005	<0.010	<0.010

Well: MSB 11B, M-Area Settling Basin

SRP Grid	N	102648.9		ft (msl)
Coordinates	E	48578.5	Screen Zone Elevation	165.6 - 160.6
Latitude		33.332042° N	Top of Casing Elevation	364.8
Longitude		81.738319° W	Casing Material	PVC

Parameter	Units	02/17/88	04/27/88	07/03/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.5	221.9	218.7	218.2
pH	pH	6.4	6.2	5.8	5.8
Conductivity	µmhos/cm	39	38	35	37
Alkalinity	mg/L	15	12	11	11
TDS	mg/L	44	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	1.3	-	<2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.007	0.008	0.005	0.008
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.11	-	-	-
Chloride	mg/L	1.7	2.0	2.1	2.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	0.007	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.006	-	0.018	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.225	-	-	-
Manganese	mg/L	0.004	-	0.004	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	0.007	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.35	1.53	1.36	1.61
Total Phosphates	mg/L	0.070	0.060	0.090	<0.020
Zinc	mg/L	0.238	0.175	0.136	0.121
Nitrate (as N)	mg/L	0.41	0.24	0.20	0.21
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.010	<0.005	<0.010	<0.010
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.010	<0.001
Trichloroethylene	mg/L	0.046	0.044	0.076	0.178
1,1,1-TCE	mg/L	<0.010	<0.005	<0.010	<0.010

Well: MSB 11C, M-Area Settling Basin

SRP Grid	N	102658.6		ft (msl)
Coordinates	E	48579.4	Screen Zone Elevation	182.4 - 177.4
Latitude		33.332065° N	Top of Casing Elevation	364.9
Longitude		81.738335° W	Casing Material	PVC

Parameter	Units	02/17/88	04/27/88	07/03/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.1	224.9	220.5	220
pH	pH	4.6	4.9	4.6	4.6
Conductivity	µmhos/cm	82	78	63	71
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	54	-	-	-
Gross Alpha	pCi/L	3.0	3.2	2.8	-
Nonvolatile Beta	pCi/L	4.9	4.9	4.7	-
Total Radium	pCi/L	2.0	-	1.7	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.026	0.022	0.017	0.022
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.22	-	-	-
Chloride	mg/L	2.6	2.4	2.6	2.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.004	<0.004	<0.004	0.005
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.009	-	0.013	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	2.55	-	-	-
Manganese	mg/L	0.013	-	0.011	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.69	3.04	2.99	3.47
Total Phosphates	mg/L	0.030	0.020	0.020	<0.020
Zinc	mg/L	0.029	0.013	0.026	0.020
Nitrate (as N)	mg/L	4.08	7.52	12.1	5.46
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<2.000	-	-
Chloroform	mg/L	<10.000	<2.000	<10.000	<10.000
Tetrachloroethylene	mg/L	<0.001	<2.000	14.6	<1.000
Trichloroethylene	mg/L	23.5	28.0	22.6	108
1,1,1-TCE	mg/L	<0.001	<2.000	<10.000	<10.000

Well: MSB 11D, M-Area Settling Basin

SRP Grid	N	102669.5		ft (msl)
Coordinates	E	48579.7	Screen Zone Elevation	208.3 - 203.3
Latitude		33.332089° N	Top of Casing Elevation	365.2
Longitude		81.738355° W	Casing Material	PVC

Parameter	Units	02/17/88	05/04/88	07/03/88	10/04/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	234.1	233	232.2	231.4
pH	pH	5.0	5.0	4.8	4.7
Conductivity	µmhos/cm	21	25	26	27
Alkalinity	mg/L	2	0	0	0
TDS	mg/L	18	-	-	-
Gross Alpha	pCi/L	1.8	-	2.1	-
Nonvolatile Beta	pCi/L	1.9	-	2.1	-
Total Radium	pCi/L	1.1	-	1.6	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.007	0.008	0.007	0.008
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.37	-	-	-
Chloride	mg/L	2.1	2.4	2.4	2.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.009	-	0.023	-
Lead	mg/L	0.009	<0.006	<0.006	<0.006
Magnesium	mg/L	0.397	-	-	-
Manganese	mg/L	0.006	-	0.009	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.72	1.95	1.80	2.21
Total Phosphates	mg/L	0.030	0.030	0.030	<0.020
Zinc	mg/L	0.075	0.063	0.074	0.049
Nitrate (as N)	mg/L	1.35	0.89	1.20	1.36
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<2.000	<0.005	<2.000	-
Tetrachloroethylene	mg/L	1.76	1.90	1.96	-
Trichloroethylene	mg/L	43.0	50.7	47.6	-
1,1,1-TCE	mg/L	<2.000	<0.005	<2.000	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 11F, M-Area Settling Basin

SRP Grid	N	102629.3		ft (msl)
Coordinates	E	48577.0	Screen Zone Elevation	242.5 - 222.5
Latitude		33.331996° N	Top of Casing Elevation	364.8
Longitude		81.738284° W	Casing Material	PVC

Parameter	Units	02/18/88	04/27/88	07/03/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.4	233.3	232.6	231.8
pH	pH	4.0	4.4	4.1	4.2
Conductivity	µmhos/cm	38	44	38	34
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	118	-	-	-
Gross Alpha	pCi/L	6.7	-	8.4	-
Nonvolatile Beta	pCi/L	8.1	-	7.2	-
Total Radium	pCi/L	3.8	-	5.2	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.010	0.008	0.006	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.925	-	-	-
Chloride	mg/L	2.4	2.7	3.0	3.5
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.008	0.007	0.009	0.012
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.016	-	0.026	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.274	-	-	-
Manganese	mg/L	0.013	-	0.009	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.86	2.02	1.98	2.43
Total Phosphates	mg/L	0.130	0.080	0.120	0.090
Zinc	mg/L	0.061	0.019	0.031	0.077
Nitrate (as N)	mg/L	12.6	1.47	1.77	1.35
Sulfate	mg/L	5.2	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.500	-	-
Chloroform	mg/L	<0.200	<0.500	<1.000	-
Tetrachloroethylene	mg/L	1.26	2.09	1.03	-
Trichloroethylene	mg/L	4.82	6.26	3.87	-
1,1,1-TCE	mg/L	<0.200	<0.500	<1.000	-

Well: MSB 12B, M-Area Settling Basin

SRP Grid	N	102251.8		ft (msl)
Coordinates	E	47139.6	Screen Zone Elevation	161.2 - 156.2
Latitude		33.328814° N	Top of Casing Elevation	348.4
Longitude		81.741335° W	Casing Material	PVC

Parameter	Units	02/17/88	05/08/88	08/03/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.3	219.4	219.2	217
pH	pH	4.2	4.6	4.6	4.5
Conductivity	µmhos/cm	150	135	131	136
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	92	-	-	-
Gross Alpha	pCi/L	7.7	-	6.4	-
Nonvolatile Beta	pCi/L	12.9	-	8.9	-
Total Radium	pCi/L	2.0	-	1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.016	0.017	0.016	0.016
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	7.17	-	-	-
Chloride	mg/L	-	4.2	3.9	4.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.007	0.020
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.012	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.006	-
Mercury	mg/L	-	0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	15.6	15.2	15.0	13.6
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	0.072	0.069	0.054	0.044
Nitrate (as N)	mg/L	7.06	18.7	11.9	13.4
Sulfate	mg/L	5.9	<5.0	<5.0	<5.0
Phenols	mg/L	-	-	0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<1.000	-
Tetrachloroethylene	mg/L	1.12	1.34	1.41	-
Trichloroethylene	mg/L	2.82	4.13	4.86	-
1,1,1-TCE	mg/L	<0.100	0.025	<1.000	-

Well: MSB 12A, M-Area Settling Basin

SRP Grid	N	102283.2		ft (msl)
Coordinates	E	47138.2	Screen Zone Elevation	120.9 - 115.9
Latitude		33.328881° N	Top of Casing Elevation	347.8
Longitude		81.741400° W	Casing Material	PVC

Parameter	Units	02/17/88	05/04/88	08/03/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.7	209.3	209	206.9
pH	pH	5.0	5.0	4.8	4.7
Conductivity	µmhos/cm	18	19	18	22
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	26	-	-	-
Gross Alpha	pCi/L	<3.0	-	0.9	-
Nonvolatile Beta	pCi/L	1.4	-	1.4	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	<0.004	<0.004	<0.004	0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	0.520	-	-	-
Chloride	mg/L	-	1.8	2.1	2.3
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.013
Cyanide	mg/L	<0.005	<0.005	0.008	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.114	-
Lead	mg/L	0.010	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.003	-
Mercury	mg/L	-	<0.0002	0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.27	1.49	1.37	1.39
Total Phosphates	mg/L	-	0.030	0.030	<0.020
Zinc	mg/L	0.226	0.149	0.092	0.143
Nitrate (as N)	mg/L	1.81	0.31	0.25	0.32
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.100
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.010	<0.010
Trichloroethylene	mg/L	0.494	0.557	0.446	0.607
1,1,1-TCE	mg/L	<0.100	<0.005	<0.100	<0.100

Well: MSB 12C, M-Area Settling Basin

SRP Grid	N	102274.4		ft (msl)
Coordinates	E	47138.4	Screen Zone Elevation	182.9 - 177.9
Latitude		33.328862° N	Top of Casing Elevation	347.9
Longitude		81.741382° W	Casing Material	PVC

Parameter	Units	02/17/88	05/08/88	08/03/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.9	225	224.7	222.4
pH	pH	5.2	5.1	4.9	5.0
Conductivity	µmhos/cm	165	160	156	157
Alkalinity	mg/L	1	1	2	1
TDS	mg/L	112	-	-	-
Gross Alpha	pCi/L	10.3	-	7.9	-
Nonvolatile Beta	pCi/L	18.2	-	13.4	-
Total Radium	pCi/L	3.7	-	2.5	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.026	0.027	0.022	0.026
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	5.21	-	-	-
Chloride	mg/L	-	4.3	4.2	6.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.005	0.006
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.154	-
Lead	mg/L	<0.006	0.006	<0.006	0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.015	-
Mercury	mg/L	-	0.0002	0.0004	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	17.8	19.5	19.7	17.9
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	0.467	0.471	0.331	0.440
Nitrate (as N)	mg/L	7.76	13.1	13.4	16.7
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	-
Tetrachloroethylene	mg/L	0.540	0.495	0.534	-
Trichloroethylene	mg/L	0.115	0.111	0.210	-
1,1,1-TCE	mg/L	<0.100	0.062	<0.100	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 14B, M-Area Settling Basin

SRP Grid	N 101639.0			ft (msl)
Coordinates	E 48519.1	Screen Zone Elevation		193.7 - 188.7
Latitude	33.329712° N	Top of Casing Elevation		348.7
Longitude	81.736510° W	Casing Material		PVC

Parameter	Units	02/19/88	05/03/88	07/04/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.4	219.3	218.9	218.7
pH	pH	5.1	5.1	5.0	4.9
Conductivity	µmhos/cm	166	187	179	181
Alkalinity	mg/L	1	1	1	1
TDS	mg/L	178	-	-	-
Gross Alpha	pCi/L	5.2	-	4.6	-
Nonvolatile Beta	pCi/L	7.9	-	5.5	-
Total Radium	pCi/L	3.5	-	2.3	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.056	0.051	0.052	0.054
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	7.29	-	-	-
Chloride	mg/L	3.6	3.9	3.7	4.1
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.006	<0.004	0.009	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.043	-	0.047	-
Lead	mg/L	0.009	<0.006	<0.006	<0.006
Magnesium	mg/L	3.05	-	-	-
Manganese	mg/L	0.020	-	0.019	-
Mercury	mg/L	-	0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	0.005	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	14.9	17.1	16.2	19.9
Total Phosphates	mg/L	0.023	0.030	0.040	0.020
Zinc	mg/L	0.095	0.066	0.095	0.056
Nitrate (as N)	mg/L	8.52	28.5	18.3	17.2
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	-
Tetrachloroethylene	mg/L	0.191	0.228	0.150	-
Trichloroethylene	mg/L	0.177	0.144	0.125	-
1,1,1-TCE	mg/L	<0.100	0.020	<0.100	-

Well: MSB 14C, M-Area Settling Basin

SRP Grid	N 101648.6			ft (msl)
Coordinates	E 48517.3	Screen Zone Elevation		243.7 - 223.7
Latitude	33.329731° N	Top of Casing Elevation		348.7
Longitude	81.736534° W	Casing Material		PVC

Parameter	Units	02/19/88	04/27/88	07/04/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.7	233.8	233	-
pH	pH	7.0	7.4	8.3	8.4
Conductivity	µmhos/cm	98	105	109	104
Alkalinity	mg/L	34	32	37	35
TDS	mg/L	48	-	-	-
Gross Alpha	pCi/L	8.8	-	3.2	-
Nonvolatile Beta	pCi/L	4.9	-	4.1	-
Total Radium	pCi/L	2.8	-	2.8	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.011	0.012	0.010
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	13.1	-	-	-
Chloride	mg/L	2.2	2.0	2.2	4.7
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.008	<0.004	0.006	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.015	-	0.027	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.560	-	-	-
Manganese	mg/L	0.008	-	0.004	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.004	<0.004	0.007	0.006
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	0.0020	<0.0020
Sodium	mg/L	2.96	2.62	3.18	3.40
Total Phosphates	mg/L	<0.020	0.060	0.080	0.060
Zinc	mg/L	0.054	0.024	0.049	0.035
Nitrate (as N)	mg/L	2.28	1.64	0.76	2.68
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.010	<0.005	<0.010	-
Tetrachloroethylene	mg/L	0.018	0.010	0.011	-
Trichloroethylene	mg/L	0.062	0.048	0.053	-
1,1,1-TCE	mg/L	<0.010	<0.005	<0.010	-

Well: MSB 15A, M-Area Settling Basin

SRP Grid	N 102983.5			ft (msl)
Coordinates	E 48827.0	Screen Zone Elevation		167.2 - 162.2
Latitude	33.333187° N	Top of Casing Elevation		367.2
Longitude	81.738315° W	Casing Material		PVC

Parameter	Units	01/11/88	05/25/88	08/09/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	224.5	223	222.4	222
pH	pH	6.5	6.1	6.0	5.8
Conductivity	µmhos/cm	42	50	46	43
Alkalinity	mg/L	11	10	12	11
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	<3.0	-
Nonvolatile Beta	pCi/L	-	-	2.0	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.008	0.008	0.012
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.2	2.4	2.5
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.009
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.035	-
Lead	mg/L	-	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	<0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	0.005	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.48	1.55	1.68
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	-	0.030	0.046	0.022
Nitrate (as N)	mg/L	-	1.03	1.12	1.21
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.500	<0.005	<0.500	-
Tetrachloroethylene	mg/L	0.037	0.083	<0.050	-
Trichloroethylene	mg/L	1.27	1.83	1.27	-
1,1,1-TCE	mg/L	<0.500	<0.005	<0.500	-

Well: MSB 16A, M-Area Settling Basin

SRP Grid	N 103693.9			ft (msl)
Coordinates	E 48965.1	Screen Zone Elevation		166.2 - 161.2
Latitude	33.334983° N	Top of Casing Elevation		366.7
Longitude	81.739334° W	Casing Material		PVC

Parameter	Units	02/27/88	05/31/88	07/30/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.6	224.9	224.6	221.1
pH	pH	5.8	5.6	5.7	5.2
Conductivity	µmhos/cm	36	36	32	30
Alkalinity	mg/L	8	8	6	4
Chloroform	mg/L	<1.000	-	<1.000	<1.000
Tetrachloroethylene	mg/L	0.031	-	<1.000	<0.010
Trichloroethylene	mg/L	5.02	-	4.91	7.26
1,1,1-TCE	mg/L	<1.000	-	<1.000	<1.000

Well: MSB 16C, M-Area Settling Basin

SRP Grid	N 103714.1			ft (msl)
Coordinates	E 48970.5	Screen Zone Elevation		244.0 - 224.0
Latitude	33.335037° N	Top of Casing Elevation		366.6
Longitude	81.739359° W	Casing Material		PVC

Parameter	Units	02/27/88	05/31/88	07/30/88	10/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.9	234.2	233.2	232.3
pH	pH	5.3	5.7	5.8	5.6
Conductivity	µmhos/cm	27	30	29	33
Alkalinity	mg/L	3	7	10	10
Chloroform	mg/L	<2.000	<0.020	<2.000	<2.000
Tetrachloroethylene	mg/L	5.92	0.941	1.09	0.600
Trichloroethylene	mg/L	2.16	2.29	2.17	2.24
1,1,1-TCE	mg/L	<2.000	<0.020	<2.000	<2.000

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 17A, M-Area Settling Basin

SRP Grid Coordinates	N 101976.6			ft (msl)
	E 46245.7	Screen Zone Elevation		159.6 - 154.6
Latitude	33.326746° N	*Top of Casing Elevation*		*358.0*
Longitude	81.743153° W	Casing Material		PVC

Parameter	Units	02/19/88	05/08/88	07/29/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.4	217.8	217.3	216.2
pH	pH	4.8	4.9	4.7	4.7
Conductivity	µmhos/cm	149	175	174	172
Alkalinity	mg/L	0	1	0	0
TDS	*mg/L*	*174*	-	-	-
Gross Alpha	pCi/L	8.1	-	8.4	-
Nonvolatile Beta	pCi/L	14.3	-	9.2	-
Total Radium	pCi/L	2.3	-	2.5	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	0.002	<0.002	<0.002
Barium	mg/L	0.033	0.036	0.032	0.039
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	7.52	-	-	-
Chloride	mg/L	-	4.2	4.4	6.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.004	0.006	0.007
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.050	-
Lead	*mg/L*	*0.015*	*<0.006*	*<0.006*	*<0.006*
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.011	-
Mercury	mg/L	-	0.0003	0.0005	0.0003
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	11.6	14.1	14.4	17.8
Total Phosphates	mg/L	-	<0.020	0.030	<0.020
Zinc	mg/L	0.089	0.059	0.065	0.047
Nitrate (as N)	mg/L	3.03	3.03	10.0	15.5
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	-
Tetrachloroethylene	mg/L	0.393	0.318	0.330	-
Trichloroethylene	mg/L	0.071	0.058	0.068	-
1,1,1-TCE	mg/L	<0.001	0.028	0.044	-

Well: MSB 18A, M-Area Settling Basin

SRP Grid Coordinates	N 100416.1			ft (msl)
	E 46110.4	Screen Zone Elevation		162.3 - 157.3
Latitude	33.323075° N	Top of Casing Elevation		340.2
Longitude	81.740474° W	Casing Material		PVC

Parameter	Units	02/19/88	05/08/88	08/04/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	212.9	212.4	211.9	211
pH	pH	4.8	4.8	4.6	4.5
Conductivity	µmhos/cm	31	37	38	37
Alkalinity	mg/L	0	0	0	0
TDS	*mg/L*	144	-	-	-
Gross Alpha	pCi/L	<3.0	-	0.8	-
Nonvolatile Beta	pCi/L	1.6	-	2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.008	0.009	0.008	0.009
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	1.47	-	-	-
Chloride	mg/L	-	2.5	4.2	2.7
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.004	0.014
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.032	-
Lead	mg/L	*<0.006*	0.011	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.009	-
Mercury	mg/L	-	<0.0002	0.0003	<0.0002
Nickel	mg/L	0.004	<0.004	<0.004	0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.37	2.82	2.17	2.25
Total Phosphates	mg/L	-	0.030	0.040	<0.020
Zinc	mg/L	0.020	0.011	0.018	0.070
Nitrate (as N)	mg/L	2.24	1.51	2.04	2.16
Sulfate	mg/L	5.0	5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.002	<0.005	<0.002	<0.001
Tetrachloroethylene	mg/L	0.006	0.006	0.007	0.006
Trichloroethylene	mg/L	0.011	0.010	0.011	0.010
1,1,1-TCE	*mg/L*	*<0.002*	*<0.005*	*<0.002*	*<0.002*

Well: MSB 17B, M-Area Settling Basin

SRP Grid Coordinates	N 101994.6			ft (msl)
	E 46237.7	Screen Zone Elevation		190.0 - 185.0
Latitude	33.326772° N	Top of Casing Elevation		357.9
Longitude	81.743209° W	Casing Material		PVC

Parameter	Units	02/19/88	05/08/88	07/29/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.4	227.7	227.3	226.2
pH	pH	4.6	4.7	4.5	4.5
Conductivity	µmhos/cm	164	195	192	184
Alkalinity	mg/L	0	3	0	0
TDS	mg/L	182	-	-	-
Gross Alpha	pCi/L	12.2	-	11.7	-
Nonvolatile Beta	pCi/L	11.7	-	11.2	-
Total Radium	pCi/L	6.2	-	3.1	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.018	0.017	0.017	0.019
Beryllium	mg/L	-	-	-	-
Cadmium	*mg/L*	-	*<0.002*	*<0.002*	*<0.002*
Calcium	mg/L	3.38	-	-	-
Chloride	mg/L	-	4.8	4.7	4.9
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.013	0.009
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.020	-
Lead	mg/L	0.011	0.041	0.007	0.008
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.011	-
Mercury	mg/L	-	0.0003	0.0005	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	*mg/L*	-	*<0.0020*	*<0.0020*	*<0.0020*
Sodium	mg/L	25.4	25.7	26.7	31.7
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	0.036	0.100	0.037	0.031
Nitrate (as N)	mg/L	10.2	18.7	17.8	18.3
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.100
Tetrachloroethylene	mg/L	0.157	0.164	0.228	0.468
Trichloroethylene	mg/L	0.055	0.043	0.060	0.080
1,1,1-TCE	mg/L	0.118	0.118	0.135	<0.100

Well: MSB 18B, M-Area Settling Basin

SRP Grid Coordinates	N 100424.1			ft (msl)
	E 46115.7	Screen Zone Elevation		197.0 - 192.0
Latitude	33.323102° N	Top of Casing Elevation		340.3
Longitude	81.740475° W	Casing Material		PVC

Parameter	Units	02/19/88	05/08/88	08/04/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	222.5	221.8	221.4	220.5
pH	*pH*	*5.2*	*5.4*	*5.2*	*5.1*
Conductivity	µmhos/cm	94	110	107	109
Alkalinity	mg/L	6	7	5	7
TDS	mg/L	96	-	-	-
Gross Alpha	pCi/L	2.0	-	4.8	-
Nonvolatile Beta	pCi/L	11.5	-	6.4	-
Total Radium	pCi/L	<1.0	-	1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.018	0.019	0.016	0.017
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	4.91	-	-	-
Chloride	mg/L	-	4.3	4.3	5.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.012
Cyanide	*mg/L*	*<0.005*	*<0.005*	*<0.005*	*<0.005*
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.118	-
Lead	mg/L	0.009	0.008	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.016	-
Mercury	mg/L	-	<0.0002	0.0002	<0.0002
Nickel	mg/L	0.004	<0.004	<0.004	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	17.1	13.2	15.8	13.3
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	0.350	0.251	0.154	0.223
Nitrate (as N)	mg/L	8.00	8.64	8.02	9.51
Sulfate	*mg/L*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.002	<0.005	*<0.002*	-
Tetrachloroethylene	mg/L	0.006	0.006	0.008	-
Trichloroethylene	mg/L	0.003	<0.005	0.003	-
1,1,1-TCE	mg/L	0.006	0.006	0.005	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 12D, M-Area Settling Basin

SRP Grid	N 102262.2			ft (msl)
Coordinates	E 47139.7	Screen Zone Elevation		244.3 - 224.3
Latitude	33.328837° N	Top of Casing Elevation		348.1
Longitude	81.741355° W	Casing Material		PVC

Parameter	Units	02/18/88	05/09/88	08/03/88	10/30/88
Sampling Method	NA	Pump	Pump	-	-
Water Elevation	ft	-	-	-	-
pH	pH	6.6	6.9	-	-
Conductivity	µmhos/cm	210	145	-	-
Alkalinity	mg/L	76	46	-	-
TDS	mg/L	136	-	-	-
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	3.3	-	-	-
Total Radium	pCi/L	<1.0	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	-	-
Barium	mg/L	0.015	0.010	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	-	-
Calcium	mg/L	28.0	-	-	-
Chloride	mg/L	-	2.0	-	-
Chromium	mg/L	-	<0.004	-	-
Copper	mg/L	-	<0.004	-	-
Cyanide	mg/L	<0.005	<0.005	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.006	<0.006	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	<0.0002	-	-
Nickel	mg/L	0.007	0.008	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	-	-
Sodium	mg/L	9.24	10.6	-	-
Total Phosphates	mg/L	-	0.140	-	-
Zinc	mg/L	0.646	0.353	-	-
Nitrate (as N)	mg/L	1.43	16.1	-	-
Sulfate	mg/L	8.0	<5.0	-	-
Phenols	mg/L	<0.005	<0.005	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	-	-
Tetrachloroethylene	mg/L	0.009	0.008	-	-
Trichloroethylene	mg/L	0.007	0.006	-	-
1,1,1-TCE	mg/L	0.004	<0.005	-	-

Well: MSB 12TA, M-Area Settling Basin

SRP Grid	N 102266.7			ft (msl)
Coordinates	E 47127.3	Screen Zone Elevation		(103.7 - 113.7)
Latitude	33.328827° N	Top of Casing Elevation		348.5
Longitude	81.741396° W	Casing Material		Steel

Parameter	Units	03/12/88	04/26/88	07/03/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	188.7	190	189	188.1
pH	pH	6.7	6.2	5.9	6.1
Conductivity	µmhos/cm	61	46	31	43
Alkalinity	mg/L	-	9	8	15
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	2.1	1.8	-
Nonvolatile Beta	pCi/L	-	3.1	2.7	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	<0.04	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	<0.004	<0.004	0.006
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	2.88	3.30	4.08
Chloride	mg/L	-	1.9	1.9	2.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.008
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	<0.004	-
Lead	mg/L	-	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	<0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.52	1.22	1.47
Total Phosphates	mg/L	-	0.040	0.030	<0.020
Zinc	mg/L	-	0.020	0.025	0.035
Nitrate (as N)	mg/L	-	<0.05	0.05	0.10
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 12TB, M-Area Settling Basin

SRP Grid	N 102260.1			ft (msl)
Coordinates	E 47133.0	Screen Zone Elevation		13.7 - (6.3)
Latitude	33.328821° N	Top of Casing Elevation		348.9
Longitude	81.741368° W	Casing Material		Steel

Parameter	Units	03/12/88	05/23/88	08/03/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	188.9	190.9	190.2	188.3
pH	pH	5.6	5.5	5.2	5.4
Conductivity	µmhos/cm	29	29	25	42
Alkalinity	mg/L	-	7	7	4
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.4	0.9	-
Nonvolatile Beta	pCi/L	-	0.3	1.4	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	<0.14	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	<0.004	<0.004	0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.2	2.3	2.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.004	0.013
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.239	-
Lead	mg/L	-	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.009	-
Mercury	mg/L	-	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.44	1.49	1.56
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	-	0.037	0.025	0.033
Nitrate (as N)	mg/L	-	0.23	<0.05	0.12
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	0.005	0.012
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 14A, M-Area Settling Basin

SRP Grid	N 101629.5			ft (msl)
Coordinates	E 48521.9	Screen Zone Elevation		164.5 - 144.5
Latitude	33.329696° N	Top of Casing Elevation		348.3
Longitude	81.736484° W	Casing Material		PVC

Parameter	Units	02/19/88	04/27/88	07/04/88	10/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.7	219.5	217.2	216.9
pH	pH	4.6	4.5	4.7	4.6
Conductivity	µmhos/cm	117	140	131	138
Alkalinity	mg/L	0	1	0	0
TDS	mg/L	136	-	-	-
Gross Alpha	pCi/L	2.9	-	4.1	-
Nonvolatile Beta	pCi/L	10.1	-	8.3	-
Total Radium	pCi/L	2.4	-	2.8	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.045	0.052	0.053	0.059
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	6.19	-	-	-
Chloride	mg/L	2.6	3.2	3.3	7.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.005	<0.004	0.009	0.005
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.028	-	0.033	-
Lead	mg/L	0.006	0.008	0.009	<0.006
Magnesium	mg/L	2.75	-	-	-
Manganese	mg/L	0.015	-	0.015	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	0.005	0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	5.91	6.26	6.76	8.40
Total Phosphates	mg/L	0.018	0.020	0.020	0.030
Zinc	mg/L	0.063	0.046	0.053	0.022
Nitrate (as N)	mg/L	6.78	13.1	14.8	12.1
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.050	-	-
Chloroform	mg/L	<0.250	<0.050	<0.250	<0.250
Tetrachloroethylene	mg/L	0.509	0.434	0.488	0.097
Trichloroethylene	mg/L	1.00	0.895	0.784	1.27
1,1,1-TCE	mg/L	<0.250	<0.050	<0.250	<0.250

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 18C, M-Area Settling Basin

SRP Grid	N 100430.9		ft (msl)
Coordinates	E 46121.4	Screen Zone Elevation	227.3 - 207.3
Latitude	33.323126° N	Top of Casing Elevation	340.6
Longitude	81.740473° W	Casing Material	PVC

Parameter	Units	02/19/88	05/08/88	08/04/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	229.9	228	226.9	226.3
pH	pH	4.7	4.4	4.5	4.7
Conductivity	µmhos/cm	22	32	30	32
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	46	-	-	-
Gross Alpha	pCi/L	2.3	-	2.3	-
Nonvolatile Beta	pCi/L	2.2	-	2.4	-
Total Radium	pCi/L	1.9	-	0.9	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.010	0.011	0.009	0.008
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	0.520	-	-	-
Chloride	mg/L	-	1.6	2.2	3.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.016	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.014	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.70	2.15	2.23	2.85
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	0.013	0.019	0.033	0.108
Nitrate (as N)	mg/l	1.60	1.00	1.91	1.73
Sulfate	mg/l	5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	0.003	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	0.003	0.004
Trichloroethylene	mg/L	<0.001	<0.005	0.001	0.002
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 19B, M-Area Settling Basin

SRP Grid	N 100999.3		ft (msl)
Coordinates	E 50934.8	Screen Zone Elevation	147.4 - 142.4
Latitude	33.332243° N	Top of Casing Elevation	299.9
Longitude	81.728905° W	Casing Material	PVC

Parameter	Units	02/24/88	05/29/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.8	216.7	216.5	216
pH	pH	5.4	5.2	5.0	4.8
Conductivity	µmhos/cm	19	22	20	19
Alkalinity	mg/L	1	0	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.4	<3.0	-
Nonvolatile Beta	pCi/L	-	1.4	0.9	-
Total Radium	pCi/L	-	-	0.6	-
Tritium	pCi/mL	-	<0.06	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.005	<0.004	0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	1.6	3.9	1.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	0.004	0.007
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.022	-
Lead	mg/L	-	0.008	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.002	-
Mercury	mg/L	-	<0.0002	0.0002	<0.0002
Nickel	mg/L	-	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.54	1.37	1.50
Total Phosphates	mg/L	-	0.050	<0.020	<0.020
Zinc	mg/L	-	0.111	0.076	0.109
Nitrate (as N)	mg/L	-	0.85	0.69	1.05
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	<0.005	0.002	<0.001
Trichloroethylene	mg/L	0.023	0.023	0.014	0.009
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 19A, M-Area Settling Basin

SRP Grid	N 100983.0		ft (msl)
Coordinates	E 50934.4	Screen Zone Elevation	119.6 - 114.6
Latitude	33.332206° N	Top of Casing Elevation	299.5
Longitude	81.728874° W	Casing Material	PVC

Parameter	Units	02/24/88	05/24/88	08/05/88	11/19/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	213.4	213.4	213.1	212.7
pH	pH	5.4	5.1	5.0	5.2
Conductivity	µmhos/cm	21	24	23	23
Alkalinity	mg/L	2	0	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	1.1	0.8	-
Nonvolatile Beta	pCi/L	-	2.5	2.3	-
Total Radium	pCi/L	-	-	0.4	-
Tritium	pCi/mL	-	0.22	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.043	<0.004	0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	1.6	1.8	1.9
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.004
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.015	-
Lead	mg/L	-	0.006	<0.006	0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.003	-
Mercury	mg/L	-	<0.0002	0.0003	<0.0002
Nickel	mg/L	-	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.45	1.46	1.97
Total Phosphates	mg/L	-	0.030	<0.020	0.020
Zinc	mg/L	-	0.103	0.084	0.065
Nitrate (as N)	mg/L	-	1.06	1.18	1.34
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.020
Tetrachloroethylene	mg/L	<0.001	0.032	<0.010	0.073
Trichloroethylene	mg/L	0.287	0.199	0.203	0.345
1,1,1-TCE	mg/L	<0.100	<0.005	<0.100	<0.020

Well: MSB 19C, M-Area Settling Basin

SRP Grid	N 100992.1		ft (msl)
Coordinates	E 50942.4	Screen Zone Elevation	218.1 - 198.1
Latitude	33.332240° N	Top of Casing Elevation	300.2
Longitude	81.728871° W	Casing Material	PVC

Parameter	Units	02/24/88	05/25/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.4	238.8	238	237.5
pH	pH	5.7	5.5	5.3	5.2
Conductivity	µmhos/cm	268	325	357	350
Alkalinity	mg/L	10	9	14	10
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	1.8	7.6	-
Nonvolatile Beta	pCi/L	-	5.6	8.8	-
Total Radium	pCi/L	-	-	2.6	-
Tritium	pCi/mL	-	1.65	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.028	0.027	0.029
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	3.9	4.4	5.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	0.006	0.011
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.158	-
Lead	mg/L	-	0.039	0.025	0.012
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.010	-
Mercury	mg/L	-	0.0006	0.0003	<0.0002
Nickel	mg/L	-	<0.004	<0.004	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	0.006	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	16.4	21.3	24.4
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	-	0.194	2.37	1.84
Nitrate (as N)	mg/L	-	1.59	2.60	2.69
Sulfate	mg/L	-	110	125	126
Phenols	mg/L	-	0.012	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.200	<0.005	<0.200	-
Tetrachloroethylene	mg/L	0.148	0.122	<0.020	-
Trichloroethylene	mg/L	0.718	0.454	0.362	-
1,1,1-TCE	mg/L	<0.200	<0.005	<0.200	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 20A, M-Area Settling Basin

SRP Grid	N 103545.1			ft (msl)
Coordinates	E 46060.5	Screen Zone Elevation		161.2 - 156.2
Latitude	33.329910° N	Top of Casing Elevation		354.0
Longitude	81.746692° W	Casing Material		PVC

Parameter	Units	02/28/88	05/10/88	08/05/88	11/01/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	221.6	220.4	219.8	219
pH	pH	5.5	5.2	5.4	5.6
Conductivity	µmhos/cm	24	24	26	24
Alkalinity	mg/L	2	2	2	2
TDS	mg/L	48	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	0.9	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.006	0.005	0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	1.50	-	-	-
Chloride	mg/L	-	24.7	1.8	1.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.007
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.019	-
Lead	mg/L	<0.006	0.008	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.79	1.47	1.28	1.33
Total Phosphates	mg/L	-	<0.020	<0.020	<0.020
Zinc	mg/L	0.121	0.108	0.123	0.166
Nitrate (as N)	mg/L	1.14	1.05	1.22	1.44
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.100
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.010	<0.010
Trichloroethylene	mg/L	1.33	1.23	1.26	1.52
1,1,1-TCE	mg/L	<0.100	<0.005	<0.100	<0.100

Well: MSB 21A, M-Area Settling Basin

SRP Grid	N 103967.0			ft (msl)
Coordinates	E 47217.2	Screen Zone Elevation		157.8 - 152.8
Latitude	33.332732° N	Top of Casing Elevation		353.4
Longitude	81.744468° W	Casing Material		PVC

Parameter	Units	02/28/88	05/24/88	08/05/88	11/19/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	224	222.4	222	221.1
pH	pH	5.3	4.9	5.2	5.5
Conductivity	µmhos/cm	21	22	23	22
Alkalinity	mg/L	2	3	2	1
TDS	mg/L	58	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<1.9	-	1.5	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.005	<0.004	<0.004	<0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	3.52	-	-	-
Chloride	mg/L	-	1.9	2.1	2.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.015	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.003	-
Mercury	mg/L	-	<0.0002	0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.88	1.26	1.37	1.75
Total Phosphates	mg/L	-	0.040	<0.020	0.940
Zinc	mg/L	0.209	0.040	0.106	0.077
Nitrate (as N)	mg/L	0.94	0.81	0.95	1.03
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	0.004	0.004
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 20C, M-Area Settling Basin

SRP Grid	N 103556.3			ft (msl)
Coordinates	E 46088.8	Screen Zone Elevation		232.4 - 212.4
Latitude	33.329981° N	Top of Casing Elevation		353.3
Longitude	81.746640° W	Casing Material		PVC

Parameter	Units	02/28/88	05/10/88	08/05/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	230.8	230	229.5	228.2
pH	pH	9.1	8.9	10.1	10.1
Conductivity	µmhos/cm	106	92	126	130
Alkalinity	mg/L	43	31	43	58
TDS	mg/L	136	-	-	-
Gross Alpha	pCi/L	2.0	-	<3.0	-
Nonvolatile Beta	pCi/L	2.9	-	1.9	-
Total Radium	pCi/L	1.3	-	0.7	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.009	0.006	0.005	0.007
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	11.8	-	-	-
Chloride	mg/L	-	2.2	2.4	2.4
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.004	0.011
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.011	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	<0.002	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.92	3.08	2.50	2.91
Total Phosphates	mg/L	-	0.060	0.030	0.050
Zinc	mg/L	0.027	0.014	0.011	0.052
Nitrate (as N)	mg/L	1.91	1.59	1.97	2.71
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.000	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.000	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	0.000	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.000	<0.005	<0.001	<0.001

Well: MSB 21C, M-Area Settling Basin

SRP Grid	N 103973.0			ft (msl)
Coordinates	E 47234.6	Screen Zone Elevation		231.8 - 211.8
Latitude	33.332774° N	Top of Casing Elevation		353.4
Longitude	81.744433° W	Casing Material		PVC

Parameter	Units	02/28/88	05/24/88	08/05/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.6	232.2	231.8	230.7
pH	pH	5.1	5.1	5.2	5.1
Conductivity	µmhos/cm	25	23	22	22
Alkalinity	mg/L	3	5	2	2
TDS	mg/L	26	-	-	-
Gross Alpha	pCi/L	3.2	-	1.3	-
Nonvolatile Beta	pCi/L	<3.1	-	2.6	-
Total Radium	pCi/L	<1.0	-	0.8	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.008	0.008	0.005	0.007
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	3.25	-	-	-
Chloride	mg/L	-	2.2	2.3	2.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.006	0.006
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.019	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.006	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.88	1.17	1.27	1.49
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	0.100	0.034	0.015	0.110
Nitrate (as N)	mg/L	0.86	0.70	0.70	0.77
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	0.003
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 21TA, M-Area Settling Basin

SRP Grid	N 103980.9			ft (msl)
Coordinates	E 47218.2	Screen Zone Elevation		24.0 - 18.7
Latitude	33.332764° N	Top of Casing Elevation		354.7
Longitude	81.744492° W	Casing Material		PVC

Parameter	Units	01/23/88	05/24/88	08/05/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	193.7	192.6	192.3	191.8
pH	pH	5.8	6.1	5.0	5.9
Conductivity	µmhos/cm	60	63	68	62
Alkalinity	mg/L	15	12	15	16
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	3.2	1.4	-
Nonvolatile Beta	pCi/L	-	6.5	5.3	-
Total Radium	pCi/L	-	-	0.8	-
Tritium	pCi/mL	-	0.08	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	-	0.013	0.010	0.012
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.0	2.3	2.2
Chromium	mg/L	-	< 0.004	< 0.004	< 0.004
Copper	mg/L	-	< 0.004	0.004	0.010
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.056	-
Lead	mg/L	-	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.012	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	-	0.004	0.004	0.008
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	-	1.88	1.83	1.83
Total Phosphates	mg/L	-	0.020	< 0.020	< 0.020
Zinc	mg/L	-	0.024	0.012	0.223
Nitrate (as N)	mg/L	-	0.13	< 0.05	0.06
Sulfate	mg/L	-	9.1	9.6	9.6
Phenols	mg/L	-	< 0.005	0.007	0.007
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

Well: MSB 23, M-Area Settling Basin

SRP Grid	N 104312.0			ft (msl)
Coordinates	E 49294.0	Screen Zone Elevation		250.4 - 230.4
Latitude	33.336887° N	Top of Casing Elevation		371.8
Longitude	81.739670° W	Casing Material		PVC

Parameter	Units	03/18/88	05/25/88	08/31/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	6.4	-	-	-
Conductivity	µmhos/cm	60	-	-	-
Alkalinity	mg/L	-	-	-	-
Chloroform	mg/L	< 5.000	-	-	-
Tetrachloroethylene	mg/L	0.033	-	-	-
Trichloroethylene	mg/L	11.4	-	-	-
1,1,1-TCE	mg/L	< 5.000	-	-	-

Well: MSB 23B, M-Area Settling Basin

SRP Grid	N 104336.6			ft (msl)
Coordinates	E 49286.4	Screen Zone Elevation		176.1 - 171.1
Latitude	33.336929° N	Top of Casing Elevation		371.6
Longitude	81.739738° W	Casing Material		PVC

Parameter	Units	03/18/88	05/25/88	08/31/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	226.5	225.8	223.7
pH	pH	5.8	5.4	5.3	5.4
Conductivity	µmhos/cm	63	35	31	29
Alkalinity	mg/L	-	8	5	4
Chloroform	mg/L	< 6.250	< 0.100	-	< 1.000
Tetrachloroethylene	mg/L	0.109	< 0.010	-	< 0.100
Trichloroethylene	mg/L	5.57	2.99	-	2.48
1,1,1-TCE	mg/L	< 6.250	< 0.100	-	< 1.000

Well: MSB 23TA, M-Area Settling Basin

SRP Grid	N 104298.8			ft (msl)
Coordinates	E 54225.8	Screen Zone Elevation		65.4 - 60.4
Latitude	33.344911° N	Top of Casing Elevation		372.9
Longitude	81.726656° W	Casing Material		Steel

Parameter	Units	01/06/88	04/06/88	07/08/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	4.5	5.0	4.4	4.3
Conductivity	µmhos/cm	30	28	26	25
Alkalinity	mg/L	0	0	0	0
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 24, M-Area Settling Basin

SRP Grid	N 104614.4			ft (msl)
Coordinates	E 49842.9	Screen Zone Elevation		243.9 - 223.9
Latitude	33.338451° N	Top of Casing Elevation		380.2
Longitude	81.738813° W	Casing Material		PVC

Parameter	Units	03/18/88	05/26/88	08/24/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.7	236.8	236.7	236.2
pH	pH	11.1	11.1	10.6	11.0
Conductivity	µmhos/cm	254	257	256	233
Alkalinity	mg/L	-	71	84	76
Chloroform	mg/L	< 1.000	-	< 1.000	-
Tetrachloroethylene	mg/L	0.109	-	0.921	-
Trichloroethylene	mg/L	19.9	-	15.7	-
1,1,1-TCE	mg/L	< 1.000	-	< 1.000	-

Well: MSB 24A, M-Area Settling Basin

SRP Grid	N 104625.3			ft (msl)
Coordinates	E 49845.3	Screen Zone Elevation		178.8 - 168.8
Latitude	33.338479° N	Top of Casing Elevation		381.6
Longitude	81.738828° W	Casing Material		PVC

Parameter	Units	03/18/88	05/25/88	08/23/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	228.6	228.2	230
pH	pH	4.9	4.7	4.5	4.6
Conductivity	µmhos/cm	43	41	43	49
Alkalinity	mg/L	-	0	0	0
Chloroform	mg/L	< 10.000	-	< 2.000	-
Tetrachloroethylene	mg/L	7.50	-	5.16	-
Trichloroethylene	mg/L	22.0	-	26.4	-
1,1,1-TCE	mg/L	< 10.000	-	< 2.000	-

Well: MSB 25A, M-Area Settling Basin

SRP Grid	N 103504.8			ft (msl)
Coordinates	E 49657.9	Screen Zone Elevation		169.7 - 159.7
Latitude	33.335697° N	Top of Casing Elevation		366.4
Longitude	81.737141° W	Casing Material		PVC

Parameter	Units	03/18/88	05/31/88	07/30/88	10/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.2	221.3	220.3	221
pH	pH	5.0	4.9	5.1	4.8
Conductivity	µmhos/cm	31	33	31	34
Alkalinity	mg/L	-	1	1	0
Chloroform	mg/L	< 0.500	< 0.025	< 0.500	< 0.500
Tetrachloroethylene	mg/L	0.326	0.695	0.151	< 0.050
Trichloroethylene	mg/L	2.75	2.74	2.18	2.13
1,1,1-TCE	mg/L	< 0.500	< 0.025	< 0.500	< 0.500

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 26, M-Area Settling Basin

SRP Grid	N 104612.8			ft (msl)
Coordinates	E 48941.7	Screen Zone Elevation		240.5 - 220.5
Latitude	33.336976° N	Top of Casing Elevation		361.6
Longitude	81.741183° W	Casing Material		PVC

Parameter	Units	01/12/88	04/30/88	07/04/88	10/03/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.3	5.1	5.1	5.0
Conductivity	µmhos/cm	42	30	20	24
Alkalinity	mg/L	2	1	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	1.3	-	-
Nonvolatile Beta	pCi/L	-	0.9	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	0.74	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.010
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	0.004	0.002	0.012	0.034
1,1,1-TCE	mg/L	0.001	< 0.001	0.001	< 0.010

Well: MSB 26A, M-Area Settling Basin

SRP Grid	N 104602.3			ft (msl)
Coordinates	E 48440.7	Screen Zone Elevation		179.2 - 169.2
Latitude	33.336135° N	Top of Casing Elevation		360.9
Longitude	81.742482° W	Casing Material		PVC

Parameter	Units	01/12/88	04/30/88	07/04/88	10/03/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	227.7	226.9	225.8	225.2
pH	pH	5.2	4.9	5.0	4.8
Conductivity	µmhos/cm	28	26	24	51
Alkalinity	mg/L	2	1	1	1
Chloroform	mg/L	< 5.000	-	< 0.250	-
Tetrachloroethylene	mg/L	0.113	-	0.043	-
Trichloroethylene	mg/L	4.17	-	1.26	-
1,1,1-TCE	mg/L	< 5.000	-	< 0.250	-

Well: MSB 27, M-Area Settling Basin

SRP Grid	N 104972.8			ft (msl)
Coordinates	E 49487.7	Screen Zone Elevation		244.0 - 234.0
Latitude	33.338664° N	Top of Casing Elevation		375.5
Longitude	81.740446° W	Casing Material		PVC

Parameter	Units	02/08/88	04/20/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	242.6	240.8	240.2	239.6
pH	pH	5.1	5.0	4.9	4.9
Conductivity	µmhos/cm	35	37	39	42
Alkalinity	mg/L	1	1	1	0
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	0.002	< 0.001	0.002
Trichloroethylene	mg/L	< 0.001	0.004	0.003	0.006
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 27A, M-Area Settling Basin

SRP Grid	N 104962.8			ft (msl)
Coordinates	E 49487.8	Screen Zone Elevation		203.8 - 193.8
Latitude	33.338642° N	Top of Casing Elevation		375.2
Longitude	81.740426° W	Casing Material		PVC

Parameter	Units	02/08/88	04/20/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.5	232.5	232.1	-
pH	pH	5.6	5.1	5.0	5.0
Conductivity	µmhos/cm	31	33	33	35
Alkalinity	mg/L	3	3	0	1
Chloroform	mg/L	< 10.000	-	< 10.000	-
Tetrachloroethylene	mg/L	9.09	-	86.3	-
Trichloroethylene	mg/L	128	-	128	-
1,1,1-TCE	mg/L	< 10.000	-	< 10.000	-

Well: MSB 27B, M-Area Settling Basin

SRP Grid	N 104940.3			ft (msl)
Coordinates	E 49486.4	Screen Zone Elevation		169.9 - 164.4
Latitude	33.338590° N	Top of Casing Elevation		376.8
Longitude	81.740386° W	Casing Material		PVC

Parameter	Units	02/08/88	04/20/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	229	228.3	228.2	227.1
pH	pH	5.5	5.3	5.2	5.3
Conductivity	µmhos/cm	32	29	29	32
Alkalinity	mg/L	4	3	3	3
Chloroform	mg/L	< 0.200	< 0.200	< 0.200	< 0.020
Tetrachloroethylene	mg/L	< 0.001	< 0.002	< 0.020	< 0.002
Trichloroethylene	mg/L	0.357	0.210	0.290	0.112
1,1,1-TCE	mg/L	< 0.200	< 0.200	< 0.200	< 0.020

Well: MSB 27TA, M-Area Settling Basin

SRP Grid	N 104951.4			ft (msl)
Coordinates	E 49486.5	Screen Zone Elevation		55.9 - 50.6
Latitude	33.338614° N	Top of Casing Elevation		376.6
Longitude	81.740407° W	Casing Material		C.S.

Parameter	Units	02/08/88	04/20/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	198	196	198.8	198.5
pH	pH	4.8	4.8	4.9	5.0
Conductivity	µmhos/cm	23	27	27	25
Alkalinity	mg/L	0	0	1	1
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 28, M-Area Settling Basin

SRP Grid	N 104941.8			ft (msl)
Coordinates	E 48517.3	Screen Zone Elevation		230.6 - 210.6
Latitude	33.337010° N	Top of Casing Elevation		354.4
Longitude	81.742941° W	Casing Material		PVC

Parameter	Units	01/22/88	04/29/88	07/08/88	10/03/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.3	234.1	233.5	232.5
pH	pH	6.2	6.7	6.5	6.7
Conductivity	µmhos/cm	65	86	73	69
Alkalinity	mg/L	30	31	30	30
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 28A, M-Area Settling Basin

SRP Grid Coordinates	N 104947.7 E 48521.9	Screen Zone Elevation	ft (msl)	157.6 - 152.6
Latitude	33.337031° N	Top of Casing Elevation		354.2
Longitude	81.742940° W	Casing Material		PVC

Parameter	Units	01/22/88	04/29/88	07/08/88	10/03/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	227.6	226.1	225.8	224.8
pH	pH	4.9	5.1	4.9	4.8
Conductivity	µmhos/cm	22	24	25	22
Alkalinity	mg/L	2	1	0	1
Chloroform	mg/L	< 1.000	< 1.000	< 1.000	< 0.100
Tetrachloroethylene	mg/L	< 0.001	< 0.010	0.006	< 0.100
Trichloroethylene	mg/L	5.61	5.84	4.75	8.13
1,1,1-TCE	mg/L	< 1.000	< 1.000	< 1.000	< 1.000

Well: MSB 29A, M-Area Settling Basin

SRP Grid Coordinates	N 107326.8 E 51236.4	Screen Zone Elevation	ft (msl)	124.5 - 119.9
Latitude	33.346723° N	Top of Casing Elevation		365.4
Longitude	81.740421° W	Casing Material		PVC

Parameter	Units	01/31/88	05/10/88	08/14/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.5	220.8	221.1	219.9
pH	pH	6.5	7.2	6.6	6.1
Conductivity	µmhos/cm	113	87	83	74
Alkalinity	mg/L	31	29	28	22
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 29TA, M-Area Settling Basin

SRP Grid Coordinates	N 107330.4 E 51245.7	Screen Zone Elevation	ft (msl)	65.6 - 60.3
Latitude	33.346746° N	Top of Casing Elevation		365.2
Longitude	81.740403° W	Casing Material		C.S.

Parameter	Units	01/15/88	05/10/88	08/14/88	11/08/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	211.8	211.8	212.6	211.3
pH	pH	5.0	4.9	4.7	4.5
Conductivity	µmhos/cm	18	21	20	19
Alkalinity	mg/L	2	0	0	0
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	0.001	< 0.001	0.002	0.002
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 30A, M-Area Settling Basin

SRP Grid Coordinates	N 105727.4 E 48004.1	Screen Zone Elevation	ft (msl)	36.6 - 26.6
Latitude	33.337909° N	Top of Casing Elevation		354.6
Longitude	81.745821° W	Casing Material		PVC

Parameter	Units	03/11/88	06/18/88	08/20/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194	196.9	197.7	195.9
pH	pH	6.5	6.3	6.2	6.5
Conductivity	µmhos/cm	80	69	70	70
Alkalinity	mg/L	-	32	23	24
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 30AA, M-Area Settling Basin

SRP Grid Coordinates	N 105715.7 E 47970.5	Screen Zone Elevation	ft (msl)	97.6 - 92.0
Latitude	33.337828° N	Top of Casing Elevation		352.6
Longitude	81.745886° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	08/21/88	12/21/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.4	226.2	225.8	224.7
pH	pH	6.4	6.2	6.0	6.2
Conductivity	µmhos/cm	104	106	94	87
Alkalinity	mg/L	-	25	20	16
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 30B, M-Area Settling Basin

SRP Grid Coordinates	N 105719.9 E 47981.8	Screen Zone Elevation	ft (msl)	129.9 - 124.3
Latitude	33.337856° N	Top of Casing Elevation		353.1
Longitude	81.745865° W	Casing Material		PVC

Parameter	Units	03/11/88	06/18/88	08/20/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228	228	227.5	226.1
pH	pH	4.5	4.5	4.4	4.5
Conductivity	µmhos/cm	28	33	31	32
Alkalinity	mg/L	-	0	0	0
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 30C, M-Area Settling Basin

SRP Grid Coordinates	N 105731.1 E 48013.7	Screen Zone Elevation	ft (msl)	237.2 - 217.2
Latitude	33.337932° N	Top of Casing Elevation		354.9
Longitude	81.745803° W	Casing Material		PVC

Parameter	Units	03/11/88	06/18/88	08/20/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.4	235.1	234.4	233
pH	pH	5.4	5.4	5.1	5.4
Conductivity	µmhos/cm	19	19	15	19
Alkalinity	mg/L	-	2	1	1
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 30CC, M-Area Settling Basin

SRP Grid Coordinates	N 105724.2 E 47993.3	Screen Zone Elevation	ft (msl)	165.3 - 159.7
Latitude	33.337884° N	Top of Casing Elevation		353.7
Longitude	81.745843° W	Casing Material		PVC

Parameter	Units	03/11/88	06/18/88	08/20/88	12/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.1	228.1	227.6	226.2
pH	pH	5.1	5.2	4.9	5.1
Conductivity	µmhos/cm	21	23	17	21
Alkalinity	mg/L	-	1	1	0
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Trichloroethylene	mg/L	0.003	0.002	0.003	0.005
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.005

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 31A, M-Area Settling Basin

SRP Grid	N 101979.3			ft (msl)
Coordinates	E 50100.2	Screen Zone Elevation		22.0 - 12.0
Latitude	33.333047° N	Top of Casing Elevation		347.2
Longitude	81.733009° W	Casing Material		PVC

Parameter	Units	02/28/88	05/25/88	08/13/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	195	194.9	195.9	194.2
pH	pH	4.9	4.4	4.7	4.8
Conductivity	µmhos/cm	16	21	21	19
Alkalinity	mg/L	1	0	0	0
TDS	mg/L	26	-	-	-
Gross Alpha	pCi/L	<3.0	0.5	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	1.3	<2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	<0.66	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	<0.004	<0.004	<0.004	<0.004
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.777	-	-	-
Chloride	mg/L	1.9	2.0	2.0	2.3
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.009	0.008	0.005	0.016
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.017	-	0.005	-
Lead	mg/L	<0.006	<0.006	<0.006	0.008
Magnesium	mg/L	0.204	-	-	-
Manganese	mg/L	0.005	-	0.004	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.65	1.27	1.41	1.66
Total Phosphates	mg/L	<0.020	0.030	<0.020	0.030
Zinc	mg/L	0.053	0.048	0.042	0.048
Nitrate (as N)	mg/L	0.53	0.40	0.40	0.42
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 31B, M-Area Settling Basin

SRP Grid	N 101981.3			ft (msl)
Coordinates	E 50078.7	Screen Zone Elevation		157.2 - 152.2
Latitude	33.333016° N	Top of Casing Elevation		347.5
Longitude	81.733069° W	Casing Material		PVC

Parameter	Units	02/28/88	05/25/88	08/13/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.4	215.2	214.8	214.7
pH	pH	5.1	4.7	4.7	4.8
Conductivity	µmhos/cm	22	25	24	22
Alkalinity	mg/L	1	0	1	0
TDS	mg/L	24	-	-	-
Gross Alpha	pCi/L	<3.0	0.2	1.3	-
Nonvolatile Beta	pCi/L	<2.0	1.0	<2.0	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	0.32	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.004	0.005	<0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.760	-	-	-
Chloride	mg/L	2.4	2.2	2.4	2.5
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.017	-	0.023	-
Lead	mg/L	<0.006	0.009	<0.006	0.006
Magnesium	mg/L	0.265	-	-	-
Manganese	mg/L	0.002	-	0.003	-
Mercury	mg/L	-	<0.0002	0.0002	0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.90	1.54	1.74	1.93
Total Phosphates	mg/L	0.100	0.030	0.030	0.020
Zinc	mg/L	0.076	0.091	0.050	0.083
Nitrate (as N)	mg/L	0.88	0.67	0.84	0.96
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	0.009	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<5.000	<0.050
Tetrachloroethylene	mg/L	0.026	0.088	<0.050	0.026
Trichloroethylene	mg/L	0.293	0.419	0.359	0.365
1,1,1-TCE	mg/L	<0.100	<0.005	<5.000	<0.050

Well: MSB 31C, M-Area Settling Basin

SRP Grid	N 101979.6			ft (msl)
Coordinates	E 50089.9	Screen Zone Elevation		236.0 - 216.0
Latitude	33.333030° N	Top of Casing Elevation		347.3
Longitude	81.733037° W	Casing Material		PVC

Parameter	Units	02/28/88	05/25/88	07/27/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.4	236.3	235.8	235
pH	pH	5.4	5.4	5.0	5.5
Conductivity	µmhos/cm	54	96	82	73
Alkalinity	mg/L	5	5	3	1
TDS	mg/L	58	-	-	-
Gross Alpha	pCi/L	7.9	1.6	7.8	-
Nonvolatile Beta	pCi/L	10.7	11.6	12.0	-
Total Radium	pCi/L	3.6	-	2.9	-
Tritium	pCi/mL	-	2.91	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.025	0.029	0.021	0.025
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	3.82	-	-	-
Chloride	mg/L	4.2	5.6	6.1	6.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	<0.004	<0.004	0.008	0.005
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.029	-	<0.004	-
Lead	mg/L	<0.006	0.010	<0.006	<0.006
Magnesium	mg/L	0.938	-	-	-
Manganese	mg/L	0.017	-	0.017	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	6.68	7.58	6.84	8.40
Total Phosphates	mg/L	0.100	0.030	<0.020	0.020
Zinc	mg/L	0.070	0.109	0.042	0.041
Nitrate (as N)	mg/L	4.63	5.30	5.85	4.63
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	1.50	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	0.007	-	-
Chloroform	mg/L	<20.000	<0.005	<20.000	-
Tetrachloroethylene	mg/L	123	69.6	72.7	-
Trichloroethylene	mg/L	83.5	55.8	59.9	-
1,1,1-TCE	mg/L	<0.001	0.060	<20.000	-

Well: MSB 32, M-Area Settling Basin

SRP Grid	N 99655.6			ft (msl)
Coordinates	E 52733.9	Screen Zone Elevation		217.7 - 197.7
Latitude	33.332210° N	Top of Casing Elevation		255.3
Longitude	81.721553° W	Casing Material		PVC

Parameter	Units	02/24/88	04/30/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.5	225.8	225.3	226
pH	pH	5.2	5.2	5.0	4.8
Conductivity	µmhos/cm	23	22	23	23
Alkalinity	mg/L	3	2	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.1	-	-
Nonvolatile Beta	pCi/L	-	0.6	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	0.64	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 33, M-Area Settling Basin

SRP Grid	N 98031.0			ft (msl)
Coordinates	E 51736.3	Screen Zone Elevation		229.3 - 209.3
Latitude	33.326990° N	Top of Casing Elevation		256.6
Longitude	81.721020° W	Casing Material		PVC

Parameter	Units	01/25/88	04/17/88	07/08/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.9	218.6	218.3	219.3
pH	pH	5.0	5.3	5.0	5.0
Conductivity	µmhos/cm	52	43	40	39
Alkalinity	mg/L	1	2	1	1
Chloroform	mg/L	< 0.025	-	< 0.025	-
Tetrachloroethylene	mg/L	0.025	-	0.027	-
Trichloroethylene	mg/L	0.040	-	0.044	-
1,1,1-TCE	mg/L	< 0.025	-	< 0.025	-

Well: MSB 33A, M-Area Settling Basin

SRP Grid	N 98006.7			ft (msl)
Coordinates	E 51738.0	Screen Zone Elevation		89.9 - 84.3
Latitude	33.326939° N	Top of Casing Elevation		255.4
Longitude	81.720969° W	Casing Material		PVC

Parameter	Units	01/25/88	04/17/88	07/08/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.8	204.2	204	203.8
pH	pH	5.0	5.1	4.9	4.9
Conductivity	µmhos/cm	19	24	22	22
Alkalinity	mg/L	1	1	0	1
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	0.006	0.007	0.007	0.006
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 33B, M-Area Settling Basin

SRP Grid	N 97995.9			ft (msl)
Coordinates	E 51741.9	Screen Zone Elevation		127.9 - 122.3
Latitude	33.326921° N	Top of Casing Elevation		255.2
Longitude	81.720937° W	Casing Material		PVC

Parameter	Units	01/25/88	04/17/88	07/08/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	209	208.4	208.1	208.2
pH	pH	4.8	5.2	4.9	4.9
Conductivity	µmhos/cm	27	35	31	31
Alkalinity	mg/L	1	2	0	1
Chloroform	mg/L	< 0.010	< 0.010	< 0.010	< 0.010
Tetrachloroethylene	mg/L	0.020	0.031	0.030	0.061
Trichloroethylene	mg/L	0.009	0.016	0.016	0.025
1,1,1-TCE	mg/L	< 0.001	< 0.010	< 0.010	< 0.010

Well: MSB 33C, M-Area Settling Basin

SRP Grid	N 97984.8			ft (msl)
Coordinates	E 51746.7	Screen Zone Elevation		172.8 - 167.2
Latitude	33.326905° N	Top of Casing Elevation		255.3
Longitude	81.720903° W	Casing Material		PVC

Parameter	Units	01/25/88	04/17/88	07/08/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.3	210.8	210.5	210.8
pH	pH	4.6	4.9	4.8	4.8
Conductivity	µmhos/cm	52	44	41	42
Alkalinity	mg/L	0	1	0	0
Chloroform	mg/L	< 0.010	-	< 0.010	-
Tetrachloroethylene	mg/L	0.019	-	0.016	-
Trichloroethylene	mg/L	0.063	-	0.052	-
1,1,1-TCE	mg/L	< 0.010	-	< 0.010	-

Well: MSB 33TA, M-Area Settling Basin

SRP Grid	N 98018.2			ft (msl)
Coordinates	E 51734.0	Screen Zone Elevation		24.9 - 19.7
Latitude	33.326958° N	Top of Casing Elevation		255.5
Longitude	81.721002° W	Casing Material		C.S.

Parameter	Units	01/25/88	04/17/88	07/08/88	10/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	193.5	193	192.9	191.7
pH	pH	5.1	5.3	4.9	5.0
Conductivity	µmhos/cm	20	25	24	23
Alkalinity	mg/L	1	2	0	1
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 34A, M-Area Settling Basin

SRP Grid	N 104954.9			ft (msl)
Coordinates	E 50534.9	Screen Zone Elevation		118.3 - 113.3
Latitude	33.340334° N	Top of Casing Elevation		383.2
Longitude	81.737653° W	Casing Material		PVC

Parameter	Units	03/13/88	06/19/88	08/23/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.8	219.8	219.7	218.1
pH	pH	5.1	5.0	4.7	4.9
Conductivity	µmhos/cm	24	28	26	24
Alkalinity	mg/L	-	1	0	0
Chloroform	mg/L	< 0.200	< 0.020	< 0.200	< 0.200
Tetrachloroethylene	mg/L	0.144	0.138	0.159	0.142
Trichloroethylene	mg/L	1.36	1.19	1.09	1.36
1,1,1-TCE	mg/L	< 0.200	< 0.020	< 0.200	< 0.200

Well: MSB 34B, M-Area Settling Basin

SRP Grid	N 104944.7			ft (msl)
Coordinates	E 50534.9	Screen Zone Elevation		186.8 - 181.8
Latitude	33.340312° N	Top of Casing Elevation		383.1
Longitude	81.737633° W	Casing Material		PVC

Parameter	Units	03/13/88	06/19/88	07/30/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	229.4	229.5	228.8	227.9
pH	pH	4.8	4.7	4.6	4.8
Conductivity	µmhos/cm	65	59	50	40
Alkalinity	mg/L	-	0	0	0
Chloroform	mg/L	< 1.000	-	< 1.000	-
Tetrachloroethylene	mg/L	1.36	-	0.510	-
Trichloroethylene	mg/L	5.54	-	2.50	-
1,1,1-TCE	mg/L	< 1.000	-	< 1.000	-

Well: MSB 34C, M-Area Settling Basin

SRP Grid	N 104934.1			ft (msl)
Coordinates	E 50535.5	Screen Zone Elevation		240.7 - 220.7
Latitude	33.340289° N	Top of Casing Elevation		383.2
Longitude	81.737611° W	Casing Material		PVC

Parameter	Units	03/02/88	06/19/88	08/23/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.7	232.8	232.1	231
pH	pH	4.4	4.4	4.3	4.4
Conductivity	µmhos/cm	96	73	73	59
Alkalinity	mg/L	-	0	0	0
Chloroform	mg/L	< 0.200	-	< 0.500	< 0.500
Tetrachloroethylene	mg/L	0.447	-	0.399	0.316
Trichloroethylene	mg/L	1.94	-	1.17	1.17
1,1,1-TCE	mg/L	< 0.200	-	< 0.500	< 0.500

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 34TA, M-Area Settling Basin

SRP Grid	N 104905.8			ft (msl)
Coordinates	E 50536.6	Screen Zone Elevation		(92.7 - 102.7)
Latitude	33.340229° N	Top of Casing Elevation		382.5
Longitude	81.737553° W	Casing Material		Steel

Parameter	Units	03/13/88	06/19/88	08/23/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	191.6	198.2	201.4	197.9
pH	pH	5.9	5.9	5.7	5.7
Conductivity	µmhos/cm	25	30	33	28
Alkalinity	mg/L	-	8	9	5
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 34TB, M-Area Settling Basin

SRP Grid	N 104891.6			ft (msl)
Coordinates	E 50537.9	Screen Zone Elevation		75.8 - 65.8
Latitude	33.340199° N	Top of Casing Elevation		382.8
Longitude	81.737522° W	Casing Material		Steel

Parameter	Units	03/13/88	06/19/88	08/23/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	196.5	200.7	202.1	198.9
pH	pH	5.5	5.4	5.1	5.3
Conductivity	µmhos/cm	35	40	37	35
Alkalinity	mg/L	-	3	3	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 35A, M-Area Settling Basin

SRP Grid	N 102098.0			ft (msl)
Coordinates	E 50945.2	Screen Zone Elevation		130.8 - 125.2
Latitude	33.334689° N	Top of Casing Elevation		351.1
Longitude	81.731015° W	Casing Material		PVC

Parameter	Units	02/19/88	04/17/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.8	216.8	216.9	216.4
pH	pH	5.1	4.9	4.7	4.7
Conductivity	µmhos/cm	24	29	27	28
Alkalinity	mg/L	1	1	0	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.003	0.003	0.003	0.004
1,1,1-TCE	mg/L	<0.001	<0.001	0.001	<0.001

Well: MSB 35B, M-Area Settling Basin

SRP Grid	N 102110.8			ft (msl)
Coordinates	E 50947.9	Screen Zone Elevation		171.0 - 165.4
Latitude	33.334722° N	Top of Casing Elevation		351.8
Longitude	81.731032° W	Casing Material		PVC

Parameter	Units	02/19/88	04/17/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.2	220.9	221	220.4
pH	pH	6.2	6.0	5.7	5.5
Conductivity	µmhos/cm	69	47	40	40
Alkalinity	mg/L	15	15	10	10
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 35TA, M-Area Settling Basin

SRP Grid	N 102101.6			ft (msl)
Coordinates	E 50919.6	Screen Zone Elevation		40.1 - 34.8
Latitude	33.334655° N	Top of Casing Elevation		350.4
Longitude	81.731089° W	Casing Material		C.S.

Parameter	Units	02/19/88	04/17/88	07/13/88	10/10/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.1	196.3	198.4	197.6
pH	pH	5.2	5.0	4.9	4.8
Conductivity	µmhos/cm	22	19	19	18
Alkalinity	mg/L	1	1	0	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 36A, M-Area Settling Basin

SRP Grid	N 100511.3			ft (msl)
Coordinates	E 49514.9	Screen Zone Elevation		101.9 - 96.3
Latitude	33.328846° N	Top of Casing Elevation		340.6
Longitude	81.731694° W	Casing Material		PVC

Parameter	Units	03/01/88	05/30/88	08/23/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.5	211.3	210.5	210.4
pH	pH	4.9	4.9	4.4	4.8
Conductivity	µmhos/cm	32	32	34	33
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	36	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	<2.0	-
Total Radium	pCi/L	<1.0	-	0.3	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.012	0.012	0.011	0.011
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.43	-	-	-
Chloride	mg/L	1.1	2.1	2.2	2.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.004	0.004	0.006	0.008
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.068	-	0.094	-
Lead	mg/L	<0.006	<0.006	<0.006	0.010
Magnesium	mg/L	0.351	-	-	-
Manganese	mg/L	0.082	-	0.057	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0002
Nickel	mg/L	<0.004	0.006	0.005	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0040	<0.0020
Sodium	mg/L	2.45	1.79	1.72	1.67
Total Phosphates	mg/L	0.070	0.030	<0.020	0.050
Zinc	mg/L	0.029	0.025	0.027	0.022
Nitrate (as N)	mg/L	0.28	0.19	0.10	0.12
Sulfate	mg/L	<5.0	5.8	5.9	5.4
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	0.010	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 36B, M-Area Settling Basin

SRP Grid Coordinates N 100514.9, E 49526.3
Latitude 33.328872° N
Longitude 81.731671° W
Screen Zone Elevation ft (msl) 164.8 - 159.2
Top of Casing Elevation 340.7
Casing Material PVC

Parameter	Units	03/01/88	05/30/88	08/23/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.7	215.5	214.7	214.9
pH	pH	5.1	4.9	4.0	4.8
Conductivity	µmhos/cm	130	140	158	161
Alkalinity	mg/L	1	1	1	0
TDS	mg/L	94	-	-	-
Gross Alpha	pCi/L	2.8	-	4.6	-
Nonvolatile Beta	pCi/L	5.7	-	5.3	-
Total Radium	pCi/L	1.6	-	1.7	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.025	0.030	0.034	0.035
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	5.22			
Chloride	mg/L	2.4	2.8	3.0	2.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.005	0.005	0.006	0.008
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.016	-	0.079	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	2.32	-	-	-
Manganese	mg/L	0.037	-	0.032	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0004
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0040	<0.0020
Sodium	mg/L	10.4	10.3	12.4	13.2
Total Phosphates	mg/L	<0.020	0.040	<0.020	<0.020
Zinc	mg/L	0.021	0.028	0.023	0.022
Nitrate (as N)	mg/L	12.5	14.4	15.5	17.5
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<1.000	<0.005	<1.000	<1.000
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.100	<0.100
Trichloroethylene	mg/L	3.00	2.31	2.25	3.02
1,1,1-TCE	mg/L	<1.000	<0.005	<1.000	<1.000

Well: MSB 36C, M-Area Settling Basin

SRP Grid Coordinates N 100518.3, E 49537.2
Latitude 33.328897° N
Longitude 81.731649° W
Screen Zone Elevation ft (msl) 194.8 - 189.2
Top of Casing Elevation 340.8
Casing Material PVC

Parameter	Units	03/01/88	05/30/88	08/21/88	11/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.7	215.6	214.6	214.7
pH	pH	5.2	5.0	4.4	5.1
Conductivity	µmhos/cm	25	25	24	24
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	534	-	-	-
Gross Alpha	pCi/L	1.6	-	<3.0	-
Nonvolatile Beta	pCi/L	1.9	-	<2.0	-
Total Radium	pCi/L	0.7	-	0.6	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.006	0.006	0.006	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.35	-	-	-
Chloride	mg/L	<1.0	1.6	1.8	3.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	0.005	<0.004	<0.004	<0.004
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.015	-	0.125	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.357	-	-	-
Manganese	mg/L	0.006	-	0.006	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.16	2.04	2.10	1.96
Total Phosphates	mg/L	0.080	0.020	<0.020	0.030
Zinc	mg/L	0.042	0.008	0.046	0.015
Nitrate (as N)	mg/L	1.42	1.15	1.61	1.59
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.100
Tetrachloroethylene	mg/L	0.063	0.059	0.058	<0.100
Trichloroethylene	mg/L	0.599	0.467	0.475	0.730
1,1,1-TCE	mg/L	<0.100	<0.005	<0.100	<0.100

Well: MSB 36D, M-Area Settling Basin

SRP Grid Coordinates N 100521.7, E 49548.3
Latitude 33.328923° N
Longitude 81.731627° W
Screen Zone Elevation ft (msl) 249.7 - 229.0
Top of Casing Elevation 341.5
Casing Material PVC

Parameter	Units	03/13/88	05/30/88	07/28/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	238.9	-	-	-
pH	pH	6.7	5.7	5.6	5.8
Conductivity	µmhos/cm	112	125	131	120
Alkalinity	mg/L	-	7	9	5
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	4.0	-
Nonvolatile Beta	pCi/L	-	-	2.8	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.012	0.009	0.016
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	14.4	15.6	16.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.013	0.014	0.041
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.145	-
Lead	mg/L	-	0.032	0.010	0.013
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.020	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0006
Nickel	mg/L	-	<0.004	<0.004	0.009
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	13.3	15.2	15.1
Total Phosphates	mg/L		0.060	<0.020	0.130
Zinc	mg/L	-	0.120	0.018	0.039
Nitrate (as N)	mg/L	-	6.40	5.76	5.83
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	<1.000	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 36TA, M-Area Settling Basin

SRP Grid Coordinates N 100507.7, E 49503.0
Latitude 33.328818° N
Longitude 81.731719° W
Screen Zone Elevation ft (msl) 55.0 - 50.0
Top of Casing Elevation 340.6
Casing Material C.S.

Parameter	Units	03/13/88	05/30/88	08/21/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	191.8	193.7	192.8	192.2
pH	pH	5.3	5.2	5.1	5.0
Conductivity	µmhos/cm	24	22	23	23
Alkalinity	mg/L	-	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.4	<3.0	-
Nonvolatile Beta	pCi/L	-	2.5	<2.0	-
Total Radium	pCi/L	-	-	0.4	-
Tritium	pCi/mL	-	<0.47	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.007	0.005	0.008
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.2	2.4	2.2
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.008	0.007	0.010
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.456	-
Lead	mg/L	-	0.026	0.016	0.015
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.036	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	<0.004	<0.004	0.007
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.63	1.39	1.66
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	-	<0.002	0.015	0.024
Nitrate (as N)	mg/L	-	0.22	<0.05	<0.05
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 37A, M-Area Settling Basin

SRP Grid	N 105295.0			ft (msl)
Coordinates	E 51439.8	Screen Zone Elevation		74.5 - 68.9
Latitude	33.342564° N	Top of Casing Elevation		383.1
Longitude	81.735932° W	Casing Material		PVC

Parameter	Units	03/13/88	05/16/88	07/23/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	201.9	205.3	206	205
pH	pH	6.8	6.6	6.3	6.5
Conductivity	µmhos/cm	66	71	72	66
Alkalinity	mg/L	-	22	20	19
Chloroform	mg/L	<0.010	<0.010	<0.005	<0.010
Tetrachloroethylene	mg/L	<0.001	0.005	0.006	<0.010
Trichloroethylene	mg/L	0.041	0.045	0.016	0.040
1,1,1-TCE	mg/L	<0.010	<0.010	<0.005	<0.010

Well: MSB 37B, M-Area Settling Basin

SRP Grid	N 105289.5			ft (msl)
Coordinates	E 51450.0	Screen Zone Elevation		143.7 - 138.1
Latitude	33.342568° N	Top of Casing Elevation		382.8
Longitude	81.735894° W	Casing Material		PVC

Parameter	Units	03/13/88	05/15/88	07/23/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219.9	220	220	219.6
pH	pH	5.6	5.5	5.4	5.6
Conductivity	µmhos/cm	37	30	27	31
Alkalinity	mg/L	-	5	3	4
Chloroform	mg/L	<0.020	<0.020	<0.020	<0.020
Tetrachloroethylene	mg/L	0.008	0.010	0.004	<0.020
Trichloroethylene	mg/L	0.281	0.269	0.249	0.362
1,1,1-TCE	mg/L	<0.020	<0.020	<0.020	<0.020

Well: MSB 37C, M-Area Settling Basin

SRP Grid	N 105283.2			ft (msl)
Coordinates	E 51439.8	Screen Zone Elevation		181.5 - 175.9
Latitude	33.342538° N	Top of Casing Elevation		383.1
Longitude	81.735909° W	Casing Material		PVC

Parameter	Units	03/13/88	05/15/88	07/23/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.3	230.8	230.8	230
pH	pH	5.8	5.7	5.6	5.7
Conductivity	µmhos/cm	27	29	27	28
Alkalinity	mg/L	-	5	6	4
Chloroform	mg/L	<0.050	-	<0.100	-
Tetrachloroethylene	mg/L	0.022	-	0.007	-
Trichloroethylene	mg/L	0.075	-	0.120	-
1,1,1-TCE	mg/L	<0.050	-	<0.100	-

Well: MSB 37D, M-Area Settling Basin

SRP Grid	N 105271.0			ft (msl)
Coordinates	E 51440.3	Screen Zone Elevation		246.4 - 225.7
Latitude	33.342512° N	Top of Casing Elevation		382.8
Longitude	81.735884° W	Casing Material		PVC

Parameter	Units	03/13/88	05/15/88	07/23/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.2	5.2	5.1	5.2
Conductivity	µmhos/cm	25	30	30	54
Alkalinity	mg/L	-	1	1	1
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.002	-	0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: MSB 37TA, M-Area Settling Basin

SRP Grid	N 105301.3			ft (msl)
Coordinates	E 51449.8	Screen Zone Elevation		36.9 - 31.6
Latitude	33.342594° N	Top of Casing Elevation		382.4
Longitude	81.735918° W	Casing Material		C.S.

Parameter	Units	03/13/88	05/15/88	07/23/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	202.3	205.3	206	204.7
pH	pH	5.4	5.3	5.3	5.4
Conductivity	µmhos/cm	25	27	24	28
Alkalinity	mg/L	-	3	2	2
Chloroform	mg/L	<0.100	<0.100	<0.100	<0.100
Tetrachloroethylene	mg/L	0.061	0.065	0.048	<0.100
Trichloroethylene	mg/L	1.42	1.30	1.29	1.79
1,1,1-TCE	mg/L	<0.100	<0.100	<0.100	<0.100

Well: MSB 38TA, M-Area Settling Basin

SRP Grid	N 102434.9			ft (msl)
Coordinates	E 49810.4	Screen Zone Elevation		30.8 - 25.6
Latitude	33.333581° N	Top of Casing Elevation		356.7
Longitude	81.734658° W	Casing Material		C.S.

Parameter	Units	03/14/88	06/17/88	08/23/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	194.1	193.8	194.9	192.6
pH	pH	5.2	5.2	4.8	5.1
Conductivity	µmhos/cm	35	22	21	19
Alkalinity	mg/L	-	2	0	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 39A, M-Area Settling Basin

SRP Grid	N 100837.6			ft (msl)
Coordinates	E 48367.3	Screen Zone Elevation		112.8 - 107.2
Latitude	33.327693° N	Top of Casing Elevation		341.6
Longitude	81.735351° W	Casing Material		PVC

Parameter	Units	03/02/88	05/29/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	211.9	210.4	209.9	209.1
pH	pH	6.1	5.9	6.3	6.3
Conductivity	µmhos/cm	66	52	81	80
Alkalinity	mg/L	31	9	21	14
TDS	mg/L	1340	-	-	-
Gross Alpha	pCi/L	<3.0	-	<3.0	-
Nonvolatile Beta	pCi/L	<2.0	-	1.2	-
Total Radium	pCi/L	<1.0	-	<1.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.015	0.016	0.012	0.017
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	0.028	0.020	0.020
Calcium	mg/L	4.82	-	-	-
Chloride	mg/L	-	2.2	2.3	2.3
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.007
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.019	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.024	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.005	0.007	0.004	0.010
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.87	2.19	1.69	2.19
Total Phosphates	mg/L	0.050	0.050	0.020	0.030
Zinc	mg/L	0.160	0.149	0.119	0.198
Nitrate (as N)	mg/L	0.28	0.23	0.09	0.69
Sulfate	mg/L	6.0	6.2	6.0	6.2
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	0.003	<0.005	<0.001	0.001
Trichloroethylene	mg/L	0.002	<0.005	0.002	0.002
1,1,1-TCE	mg/L	0.002	<0.005	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 39B, M-Area Settling Basin

SRP Grid	N	100844.6		ft (msl)
Coordinates	E	48376.9	Screen Zone Elevation	150.7 - 145.1
Latitude		33.327724° N	Top of Casing Elevation	341.8
Longitude		81.735339° W	Casing Material	PVC

Parameter	Units	03/05/88	05/29/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215	213.6	212.8	212.3
pH	pH	4.3	4.4	4.4	4.3
Conductivity	µmhos/cm	145	175	163	165
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	110	-	-	-
Gross Alpha	pCi/L	8.6	-	3.9	-
Nonvolatile Beta	pCi/L	9.5	-	9.1	-
Total Radium	pCi/L	2.3	-	2.0	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.038	0.032	0.032	0.038
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	4.43	-	-	-
Chloride	mg/L	-	4.1	4.3	4.5
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.007	0.009
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.047	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.007	-
Mercury	mg/L	-	<0.0002	0.0002	<0.0002
Nickel	mg/L	<0.004	0.007	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	15.0	12.8	14.9	16.1
Total Phosphates	mg/L	-	0.030	<0.020	<0.020
Zinc	mg/L	0.005	0.015	0.017	0.048
Nitrate (as N)	mg/L	1.9	1.0	1.0	1.3
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.100	<0.005	<0.100	<0.100
Tetrachloroethylene	mg/L	0.190	0.184	0.216	0.228
Trichloroethylene	mg/L	0.180	0.231	0.264	0.319
1,1,1-TCE	mg/L	0.010	0.026	<0.100	<0.100

Well: MSB 39C, M-Area Settling Basin

SRP Grid	N	100852.1		ft (msl)
Coordinates	E	48386.7	Screen Zone Elevation	200.6 - 195.0
Latitude		33.327757° N	Top of Casing Elevation	341.5
Longitude		81.735328° W	Casing Material	PVC

Parameter	Units	03/01/88	05/29/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218.3	217.1	216.5	215.9
pH	pH	4.1	4.1	4.3	4.4
Conductivity	µmhos/cm	70	76	68	64
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	42	-	-	-
Gross Alpha	pCi/L	2.7	-	2.3	-
Nonvolatile Beta	pCi/L	<2.0	-	4.8	-
Total Radium	pCi/L	1.3	-	0.5	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.015	0.014	0.010	0.013
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	2.41	-	-	-
Chloride	mg/L	-	2.3	2.4	2.6
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	0.004	0.005
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.029	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.006	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0007
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	4.76	4.80	3.40	4.24
Total Phosphates	mg/L	-	0.040	<0.020	<0.020
Zinc	mg/L	0.016	0.034	0.006	0.027
Nitrate (as N)	mg/L	6.00	6.22	3.96	5.41
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.050	<0.005	<0.010	<0.050
Tetrachloroethylene	mg/L	0.256	0.023	0.027	<0.050
Trichloroethylene	mg/L	0.113	0.074	0.088	0.076
1,1,1-TCE	mg/L	<0.050	<0.005	<0.010	<0.050

Well: MSB 39D, M-Area Settling Basin

SRP Grid	N	100858.7		ft (msl)
Coordinates	E	48396.0	Screen Zone Elevation	240.5 - 219.9
Latitude		33.327786° N	Top of Casing Elevation	341.7
Longitude		81.735316° W	Casing Material	PVC

Parameter	Units	03/01/88	05/29/88	07/27/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.6	234.8	234.2	233.3
pH	pH	5.2	5.1	5.2	4.9
Conductivity	µmhos/cm	31	36	31	32
Alkalinity	mg/L	4	1	3	3
TDS	mg/L	24	-	-	-
Gross Alpha	pCi/L	3.7	-	3.7	-
Nonvolatile Beta	pCi/L	2.2	-	4.6	-
Total Radium	pCi/L	<1.0	-	0.8	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	0.007	0.006	0.007	0.009
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	1.46	-	-	-
Chloride	mg/L	-	2.2	2.5	3.8
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.013	0.257	0.047
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.042	-
Lead	mg/L	0.032	0.023	0.009	0.013
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.006	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	<0.004	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.57	1.75	3.55	2.01
Total Phosphates	mg/L	-	0.040	<0.020	<0.020
Zinc	mg/L	0.017	0.010	0.035	0.088
Nitrate (as N)	mg/L	2.10	1.34	1.53	1.99
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	1.50	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	0.003	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 39TA, M-Area Settling Basin

SRP Grid	N	100830.6		ft (msl)
Coordinates	E	48357.7	Screen Zone Elevation	50.9 - 45.7
Latitude		33.327662° N	Top of Casing Elevation	341.8
Longitude		81.735363° W	Casing Material	C.S.

Parameter	Units	01/24/88	05/29/88	08/05/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	191.6	191.4	190.3	189.7
pH	pH	4.9	4.6	5.0	4.9
Conductivity	µmhos/cm	21	23	21	21
Alkalinity	mg/L	1	2	1	2
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.0	<3.0	-
Nonvolatile Beta	pCi/L	-	0.5	1.2	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	<0.44	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.005	<0.004	0.005
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.2	2.5	2.3
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	0.014
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.507	-
Lead	mg/L	-	<0.006	<0.006	0.009
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.013	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	<0.004	<0.004	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.50	1.07	1.42
Total Phosphates	mg/L	-	0.020	<0.020	<0.020
Zinc	mg/L	-	0.011	0.046	0.083
Nitrate (as N)	mg/L	-	0.21	<0.05	<0.05
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 40A, M-Area Settling Basin

				ft (msl)
SRP Grid	N 97672.8			
Coordinates	E 48279.4	Screen Zone Elevation		117.7 - 112.1
Latitude	33.320553° N	Top of Casing Elevation		321.2
Longitude	81.729426° W	Casing Material		PVC

Parameter	Units	03/12/88	05/29/88	08/21/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203.1	203.1	202.2	202.4
pH	pH	5.1	4.8	4.8	4.5
Conductivity	µmhos/cm	52	52	47	48
Alkalinity	mg/L	-	0	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.7	<3.0	-
Nonvolatile Beta	pCi/L	-	2.2	1.4	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	<0.45	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.021	0.016	0.021
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.2	2.4	2.5
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	<0.004	<0.004	<0.004
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	1.62	-
Lead	mg/L	-	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.045	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0023
Nickel	mg/L	-	<0.004	0.004	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	2.05	1.97	2.15
Total Phosphates	mg/L	-	0.110	<0.020	0.280
Zinc	mg/L	-	0.025	0.031	0.029
Nitrate (as N)	mg/L	-	0.13	<0.05	<0.05
Sulfate	mg/L	-	12.1	12.0	11.7
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.005	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.001

Well: MSB 40B, M-Area Settling Basin

				ft (msl)
SRP Grid	N 97685.0			
Coordinates	E 48281.6	Screen Zone Elevation		155.8 - 150.2
Latitude	33.320584° N	Top of Casing Elevation		321.7
Longitude	81.729444° W	Casing Material		PVC

Parameter	Units	03/12/88	05/29/88	08/21/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.8	204.8	202.9	204.1
pH	pH	5.3	5.2	4.9	4.8
Conductivity	µmhos/cm	28	29	27	27
Alkalinity	mg/L	-	1	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.1	<3.0	-
Nonvolatile Beta	pCi/L	-	1.3	<2.0	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	0.34	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.007	0.005	0.006
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	1.9	2.1	2.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.009	0.008	0.012
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.075	-
Lead	mg/L	-	<0.006	<0.006	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.022	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	<0.004	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.43	1.50	1.63
Total Phosphates	mg/L	-	0.070	0.040	0.090
Zinc	mg/L	-	0.041	0.046	0.033
Nitrate (as N)	mg/L	-	0.72	0.72	0.89
Sulfate	mg/L	-	<5.0	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.025	-	-
Chloroform	mg/L	<0.020	<0.025	<0.020	<0.020
Tetrachloroethylene	mg/L	<0.001	<0.025	<0.002	<0.002
Trichloroethylene	mg/L	0.501	0.416	0.608	0.594
1,1,1-TCE	mg/L	<0.020	<0.025	<0.020	<0.020

Well: MSB 40C, M-Area Settling Basin

				ft (msl)
SRP Grid	N 97697.8			
Coordinates	E 48283.5	Screen Zone Elevation		192.8 - 187.2
Latitude	33.320615° N	Top of Casing Elevation		322.1
Longitude	81.729464° W	Casing Material		PVC

Parameter	Units	03/12/88	05/29/88	08/21/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.9	204.9	-	-
pH	pH	5.6	5.5	4.8	5.2
Conductivity	µmhos/cm	58	52	48	48
Alkalinity	mg/L	-	3	4	3
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.0	<3.0	-
Nonvolatile Beta	pCi/L	-	0.8	1.2	-
Total Radium	pCi/L	-	-	<1.0	-
Tritium	pCi/mL	-	<0.25	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.013	0.011	0.014
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	1.8	2.0	2.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.005	<0.004	0.008
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.401	-
Lead	mg/L	-	<0.006	0.007	<0.006
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.088	-
Mercury	mg/L	-	<0.0002	<0.0002	0.0002
Nickel	mg/L	-	0.004	<0.004	0.005
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.92	1.95	2.31
Total Phosphates	mg/L	-	0.700	0.650	0.760
Zinc	mg/L	-	0.010	0.022	0.025
Nitrate (as N)	mg/L	-	0.50	0.40	0.47
Sulfate	mg/L	-	8.2	8.9	7.7
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	-	-
Tetrachloroethylene	mg/L	<0.001	<0.005	-	-
Trichloroethylene	mg/L	<0.001	<0.005	-	-
1,1,1-TCE	mg/L	<0.001	<0.005	-	-

Well: MSB 40D, M-Area Settling Basin

				ft (msl)
SRP Grid	N 97709.3			
Coordinates	E 48285.1	Screen Zone Elevation		237.0 - 216.4
Latitude	33.320643° N	Top of Casing Elevation		322.9
Longitude	81.729482° W	Casing Material		PVC

Parameter	Units	03/12/88	05/29/88	08/22/88	11/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.2	4.9	5.4	5.4
Conductivity	µmhos/cm	28	41	34	27
Alkalinity	mg/L	-	1	1	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.1	<3.0	-
Nonvolatile Beta	pCi/L	-	1.1	1.1	-
Total Radium	pCi/L	-	-	0.6	-
Tritium	pCi/mL	-	1.22	-	-
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.007	0.004	0.007
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	1.8	1.8	2.0
Chromium	mg/L	-	<0.004	<0.004	<0.004
Copper	mg/L	-	0.065	0.013	0.036
Cyanide	mg/L	-	<0.005	<0.005	<0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.175	-
Lead	mg/L	-	0.138	0.017	0.022
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.023	-
Mercury	mg/L	-	<0.0002	<0.0002	<0.0002
Nickel	mg/L	-	0.008	<0.004	<0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	<0.0020	<0.0020	<0.0020
Sodium	mg/L	-	1.39	1.62	1.40
Total Phosphates	mg/L	-	0.390	<0.020	0.260
Zinc	mg/L	-	0.042	0.033	0.024
Nitrate (as N)	mg/L	-	0.63	0.70	0.82
Sulfate	mg/L	-	6.6	<5.0	<5.0
Phenols	mg/L	-	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	<0.005	-	-
Chloroform	mg/L	<0.001	<0.005	-	-
Tetrachloroethylene	mg/L	<0.001	<0.005	-	-
Trichloroethylene	mg/L	<0.001	<0.005	-	-
1,1,1-TCE	mg/L	<0.001	<0.005	-	-

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 40TA, M-Area Settling Basin

SRP Grid	N	97660.4		ft (msl)
Coordinates	E	48277.2	Screen Zone Elevation	30.7 - 25.5
Latitude	33.320522° N		Top of Casing Elevation	320.8
Longitude	81.729408° W		Casing Material	C.S.

Parameter	Units	03/12/88	05/29/88	08/21/88	11/05/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	187.1	187.8	186.7	186.8
pH	pH	5.8	5.4	5.5	5.3
Conductivity	µmhos/cm	39	37	33	33
Alkalinity	mg/L	-	7	5	7
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.1	< 3.0	-
Nonvolatile Beta	pCi/L	-	1.6	< 2.0	-
Total Radium	pCi/L	-	-	< 1.0	-
Tritium	pCi/mL	-	< 0.52	-	-
Arsenic	mg/L	-	< 0.002	< 0.002	< 0.002
Barium	mg/L	-	0.008	0.006	0.007
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	< 0.002	< 0.002	< 0.002
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	2.0	2.2	2.4
Chromium	*mg/L*	-	*< 0.004*	*< 0.004*	*< 0.004*
Copper	mg/L	-	0.006	< 0.004	0.007
Cyanide	mg/L	-	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	0.295	-
Lead	mg/L	-	< 0.006	< 0.006	0.007
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.064	-
Mercury	mg/L	-	< 0.0002	< 0.0002	< 0.0002
Nickel	mg/L	-	0.006	< 0.004	< 0.004
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	< 0.002	< 0.002	< 0.002
Silica	mg/L	-	-	-	-
Silver	mg/L	-	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	-	1.80	1.52	1.71
Total Phosphates	mg/L	-	0.070	< 0.020	0.040
Zinc	mg/L	-	0.012	0.015	0.014
Nitrate (as N)	mg/L	-	0.12	< 0.05	< 0.05
Sulfate	mg/L		- 5.0	< 5.0	< 5.0
Phenols	mg/L				
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	< 0.005	-	-
Chloroform	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.005	< 0.001	< 0.001
Trichloroethylene	*mg/L*	< 0.001	< 0.005	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.005	< 0.001	< 0.001

Well: MSB 41C, M-Area Settling Basin

SRP Grid	N	102203.9		ft (msl)
Coordinates	E	53410.6	Screen Zone Elevation	152.8 - 147.2
Latitude	33.338949° N		Top of Casing Elevation	324.6
Longitude	81.724728° W		Casing Material	PVC

Parameter	Units	02/06/88	04/30/88	07/21/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.7	217.6	217.1	216.4
pH	pH	5.4	4.9	4.9	4.8
Conductivity	µmhos/cm	19	17	18	17
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.0	-	-
Nonvolatile Beta	pCi/L	-	3.0	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	0.27	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-		
Chromium	*mg/L*	-	-	-	-
Copper	mg/L	-	-	-	-
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-			
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	< 0.001	< 0.001	0.004	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 41A, M-Area Settling Basin

SRP Grid	N	*102184.4*		*ft (msl)*
Coordinates	E	53424.1	Screen Zone Elevation	89.1 - 83.5
Latitude	33.338928° N		Top of Casing Elevation	323.8
Longitude	81.724654° W		Casing Material	PVC

Parameter	Units	02/06/88	04/30/88	07/21/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217	216.8	216.3	215.7
pH	pH	6.3	6.1	5.7	6.0
Conductivity	µmhos/cm	43	38	38	37
Alkalinity	mg/L	11	9	10	9
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 41D, M-Area Settling Basin

SRP Grid	N	*102213.4*		*ft (msl)*
Coordinates	E	53403.7	Screen Zone Elevation	247.7 - 227.0
Latitude	33.338959° N		Top of Casing Elevation	325.0
Longitude	81.724764° W		Casing Material	PVC

Parameter	Units	02/07/88	04/30/88	07/22/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	6.5	6.1	5.8	-
Conductivity	µmhos/cm	26	23	21	-
Alkalinity	mg/L	11	6	6	-
Chloroform	mg/L	< 0.001	-	-	-
Tetrachloroethylene	mg/L	< 0.001	-	-	-
Trichloroethylene	mg/L	< 0.001	-	-	-
1,1,1-TCE	mg/L	< 0.001	-	-	-

Well: MSB 41B, M-Area Settling Basin

SRP Grid	N	102194.5		ft (msl)
Coordinates	E	53417.8	Screen Zone Elevation	115.0 - 109.4
Latitude	33.338940° N		Top of Casing Elevation	324.0
Longitude	81.724690° W		Casing Material	PVC

Parameter	Units	02/06/88	04/30/88	07/21/88	10/07/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	217	216.9	216.5	215.7
pH	pH	5.4	5.1	5.1	5.1
Conductivity	µmhos/cm	35	19	18	19
Alkalinity	mg/L	2	1	2	1
Chloroform	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	mg/L	0.007	< 0.001	0.007	0.008
Trichloroethylene	mg/L	0.002	< 0.001	0.002	0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Well: MSB 41TA, M-Area Settling Basin

SRP Grid	N	102176.5		ft (msl)
Coordinates	E	53429.7	Screen Zone Elevation	28.1 - 22.9
Latitude	33.338920° N		Top of Casing Elevation	323.7
Longitude	81.724624° W		Casing Material	C.S.

Parameter	Units	02/06/88	04/30/88	07/21/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.9	204.8	204.2	202.6
pH	pH	5.3	5.4	5.2	5.2
Conductivity	µmhos/cm	23	21	26	21
Alkalinity	mg/L	3	1	2	2
Chloroform	mg/L	< 0.001	< 0.001	0.001	< 0.001
Tetrachloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethylene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-TCE	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 42A, M-Area Settling Basin

SRP Grid	N 104557.9			ft (msl)
Coordinates	E 51582.3	Screen Zone Elevation		130.8 - 125.2
Latitude	33.341167° N	Top of Casing Elevation		376.6
Longitude	81.734122° W	Casing Material		PVC

Parameter	Units	01/27/88	06/17/88	08/23/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.2	220.4	220.2	218.8
pH	pH	4.9	5.2	4.8	5.1
Conductivity	µmhos/cm	24	25	24	23
Alkalinity	mg/L	1	1	0	0
Chloroform	mg/L	<0.100	<0.100	<0.100	<0.100
Tetrachloroethylene	mg/L	0.057	0.091	0.118	0.124
Trichloroethylene	mg/L	0.600	0.879	0.820	0.987
1,1,1-TCE	mg/L	<0.001	<0.100	<0.100	<0.100

Well: MSB 42B, M-Area Settling Basin

SRP Grid	N 104569.8			ft (msl)
Coordinates	E 51582.8	Screen Zone Elevation		167.8 - 162.2
Latitude	33.341194° N	Top of Casing Elevation		376.5
Longitude	81.734144° W	Casing Material		PVC

Parameter	Units	02/18/88	06/17/88	08/23/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228	228.7	228.3	226.8
pH	pH	4.9	4.9	4.5	4.8
Conductivity	µmhos/cm	32	30	31	30
Alkalinity	mg/L	0	0	0	0
Chloroform	mg/L	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	mg/L	0.030	0.017	0.043	0.017
Trichloroethylene	mg/L	0.100	0.153	0.226	0.256
1,1,1-TCE	mg/L	<0.050	<0.050	<0.050	<0.050

Well: MSB 42C, M-Area Settling Basin

SRP Grid	N 104581.9			ft (msl)
Coordinates	E 51582.8	Screen Zone Elevation		205.8 - 200.2
Latitude	33.341221° N	Top of Casing Elevation		376.5
Longitude	81.734168° W	Casing Material		PVC

Parameter	Units	01/27/88	06/17/88	08/23/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.4	234.8	234.1	232.8
pH	pH	5.4	5.5	5.1	5.4
Conductivity	µmhos/cm	26	25	26	24
Alkalinity	mg/L	3	2	3	2
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.003	0.007	0.009
Trichloroethylene	mg/L	0.009	0.016	0.019	0.023
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 42D, M-Area Settling Basin

SRP Grid	N 104595.2			ft (msl)
Coordinates	E 51582.5	Screen Zone Elevation		248.7 - 228.2
Latitude	33.341250° N	Top of Casing Elevation		376.5
Longitude	81.734194° W	Casing Material		PVC

Parameter	Units	01/28/88	06/24/88	08/24/88	11/09/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	4.7	4.8	4.9	5.3
Conductivity	µmhos/cm	20	54	37	20
Alkalinity	mg/L	0	1	0	0
Chloroform	mg/L	<0.050	<0.005	<0.050	<0.050
Tetrachloroethylene	mg/L	0.001	0.107	<0.050	0.010
Trichloroethylene	mg/L	0.054	0.107	0.078	0.076
1,1,1-TCE	mg/L	<0.050	<0.005	<0.050	<0.050

Well: MSB 42TA, M-Area Settling Basin

SRP Grid	N 104545.6			ft (msl)
Coordinates	E 51581.7	Screen Zone Elevation		47.4 - 42.1
Latitude	33.341139° N	Top of Casing Elevation		376.7
Longitude	81.734100° W	Casing Material		C.S.

Parameter	Units	01/27/88	06/17/88	08/23/88	11/08/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203.5	204.5	205.8	203
pH	pH	5.2	5.3	4.8	5.0
Conductivity	µmhos/cm	17	18	18	18
Alkalinity	mg/L	1	1	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.001	0.002	0.002
Trichloroethylene	mg/L	0.003	0.002	0.003	0.004
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 43TA, M-Area Settling Basin

SRP Grid	N 107275.8			ft (msl)
Coordinates	E 49281.8	Screen Zone Elevation		41.9 - 36.7
Latitude	33.343418° N	Top of Casing Elevation		357.6
Longitude	81.745469° W	Casing Material		C.S.

Parameter	Units	02/14/88	05/11/88	08/13/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	199.9	201.7	202.7	201.4
pH	pH	4.9	4.7	4.8	4.7
Conductivity	µmhos/cm	19	19	18	22
Alkalinity	mg/L	1	1	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 44A, M-Area Settling Basin

SRP Grid	N 103296.5			ft (msl)
Coordinates	E 51106.9	Screen Zone Elevation		134.1 - 124.1
Latitude	33.337602° N	Top of Casing Elevation		376.9
Longitude	81.732920° W	Casing Material		PVC

Parameter	Units	02/18/88	06/19/88	08/13/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	218	219.3	218.7	217.7
pH	pH	5.2	5.1	4.9	4.9
Conductivity	µmhos/cm	25	21	20	20
Alkalinity	mg/L	1	2	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	0.001	0.002
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 44B, M-Area Settling Basin

SRP Grid	N 103296.2			ft (msl)
Coordinates	E 51096.4	Screen Zone Elevation		184.1 - 174.1
Latitude	33.337585° N	Top of Casing Elevation		377.1
Longitude	81.732947° W	Casing Material		PVC

Parameter	Units	02/18/88	06/19/88	08/13/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	226.9	227.5	226.8	226
pH	pH	5.4	5.3	5.1	5.0
Conductivity	µmhos/cm	48	34	30	34
Alkalinity	mg/L	5	4	1	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 44C, M-Area Settling Basin

SRP Grid	N	103296.3		ft (msl)
Coordinates	E	51106.6	Screen Zone Elevation	239.9 - 229.9
Latitude		33.337601° N	Top of Casing Elevation	377.9
Longitude		81.732921° W	Casing Material	PVC

Parameter	Units	03/17/88	06/19/88	09/07/88	12/18/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.9	239.1	237.6	239.8
pH	pH	5.8	5.8	5.9	6.4
Conductivity	µmhos/cm	76	94	83	179
Alkalinity	mg/L	-	25	22	85
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 45A, M-Area Settling Basin

SRP Grid	N	103998.1		ft (msl)
Coordinates	E	50554.7	Screen Zone Elevation	138.9 - 128.9
Latitude		33.338252° N	Top of Casing Elevation	381.1
Longitude		81.735739° W	Casing Material	PVC

Parameter	Units	03/05/88	05/15/88	07/30/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	216.9	217.8	217.7	216.7
pH	pH	5.7	5.5	5.4	5.4
Conductivity	µmhos/cm	35	44	38	41
Alkalinity	mg/L	-	7	6	6
Chloroform	mg/L	<0.100	<0.010	<0.100	<0.100
Tetrachloroethylene	mg/L	0.171	0.158	0.140	0.129
Trichloroethylene	mg/L	0.879	0.871	0.843	0.736
1,1,1-TCE	mg/L	<0.100	<0.010	<0.100	<0.100

Well: MSB 45B, M-Area Settling Basin

SRP Grid	N	103987.9		ft (msl)
Coordinates	E	50555.3	Screen Zone Elevation	189.8 - 179.8
Latitude		33.338230° N	Top of Casing Elevation	381.1
Longitude		81.735718° W	Casing Material	PVC

Parameter	Units	03/05/88	05/15/88	07/30/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.5	228.7	228.3	227.5
pH	pH	5.1	5.1	4.9	4.8
Conductivity	µmhos/cm	34	46	39	39
Alkalinity	mg/L	-	2	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 46A, M-Area Settling Basin

SRP Grid	N	103098.6		ft (msl)
Coordinates	E	50548.3	Screen Zone Elevation	129.7 - 119.7
Latitude		33.336253° N	Top of Casing Elevation	372.7
Longitude		81.734006° W	Casing Material	PVC

Parameter	Units	03/15/88	06/19/88	08/21/88	12/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	217.3	217.1	215.6
pH	pH	10.8	10.8	10.3	10.5
Conductivity	µmhos/cm	182	242	229	184
Alkalinity	mg/L	-	75	57	50
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 46B, M-Area Settling Basin

SRP Grid	N	103102.4		ft (msl)
Coordinates	E	50557.5	Screen Zone Elevation	189.7 - 179.7
Latitude		33.336276° N	Top of Casing Elevation	373.7
Longitude		81.733989° W	Casing Material	PVC

Parameter	Units	03/12/88	06/17/88	08/19/88	12/18/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	-	-	-	-
pH	pH	5.5	5.3	5.2	5.2
Conductivity	µmhos/cm	41	42	39	41
Alkalinity	mg/L	-	5	5	4
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 46C, M-Area Settling Basin

SRP Grid	N	103098.5		ft (msl)
Coordinates	E	50548.7	Screen Zone Elevation	246.8 - 236.8
Latitude		33.336253° N	Top of Casing Elevation	372.8
Longitude		81.734005° W	Casing Material	PVC

Parameter	Units	03/17/88	06/19/88	09/07/88	11/27/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.3	239.5	-	-
pH	pH	6.6	5.8	-	-
Conductivity	µmhos/cm	51	46	-	-
Alkalinity	mg/L	-	9	-	-
Chloroform	mg/L	<0.001	<0.001	-	-
Tetrachloroethylene	mg/L	0.001	<0.001	-	-
Trichloroethylene	mg/L	0.001	<0.001	-	-
1,1,1-TCE	mg/L	0.003	<0.001	-	-

Well: MSB 47B, M-Area Settling Basin

SRP Grid	N	106978.5		ft (msl)
Coordinates	E	52207.2	Screen Zone Elevation	-
Latitude		33.347539° N	Top of Casing Elevation	369.0
Longitude		81.737186° W	Casing Material	PVC

Parameter	Units	02/22/88	05/31/88	08/02/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.9	229.6	229.1	228.2
pH	pH	6.8	6.4	6.4	6.3
Conductivity	µmhos/cm	120	126	106	111
Alkalinity	mg/L	38	34	30	31
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	<0.005	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	<0.010	-	-	-
Cadmium	mg/L	<0.010	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.030	-	-	-
Copper	mg/L	<0.030	-	-	-
Cyanide	mg/L	<0.100	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.005	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	<0.0005	-	-	-
Nickel	mg/L	<0.030	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.005	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0500	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	<0.030	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	<0.010	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	-	-
Chloroform	mg/L	<0.001	<0.025	<0.500	<0.500
Tetrachloroethylene	mg/L	0.004	0.113	<0.500	<0.050
Trichloroethylene	mg/L	4.49	1.92	1.42	1.55
1,1,1-TCE	mg/L	<0.001	<0.025	<0.500	<0.500

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 47C, M-Area Settling Basin

SRP Grid	N 106969.2			ft (msl)
Coordinates	E 52195.5	Screen Zone Elevation		-
Latitude	33.347499° N	Top of Casing Elevation		369.3
Longitude	81.737199° W	Casing Material		PVC

Parameter	Units	02/22/88	05/31/88	08/02/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.1	235.7	235	234.5
pH	pH	5.8	5.6	5.7	5.4
Conductivity	µmhos/cm	63	54	49	48
Alkalinity	mg/L	7	8	7	5
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	<0.005	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	<0.010	-	-	-
Cadmium	mg/L	<0.010	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.030	-	-	-
Copper	mg/L	<0.030	-	-	-
Cyanide	mg/L	<0.100	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.005	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	<0.0005	-	-	-
Nickel	mg/L	<0.030	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.005	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0500	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	<0.030	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	<0.010	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	-	-
Chloroform	mg/L	<0.001	<0.025	<2.000	<2.000
Tetrachloroethylene	mg/L	0.023	<0.010	<2.000	<0.200
Trichloroethylene	mg/L	11.5	1.36	11.8	12.0
1,1,1-TCE	mg/L	<0.001	<0.025	<2.000	<2.000

Well: MSB 47D, M-Area Settling Basin

SRP Grid	N 106960.1			ft (msl)
Coordinates	E 52184.0	Screen Zone Elevation		-
Latitude	33.347460° N	Top of Casing Elevation		369.2
Longitude	81.737212° W	Casing Material		PVC

Parameter	Units	02/22/88	05/31/88	08/02/88	10/20/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	236.2	236.6	236.1	235.6
pH	pH	5.2	4.8	4.9	4.7
Conductivity	µmhos/cm	77	87	83	79
Alkalinity	mg/L	2	1	1	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Arsenic	mg/L	<0.005	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	<0.010	-	-	-
Cadmium	mg/L	<0.010	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	<0.030	-	-	-
Copper	mg/L	<0.030	-	-	-
Cyanide	mg/L	<0.100	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	<0.005	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	<0.0005	-	-	-
Nickel	mg/L	<0.030	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	<0.005	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	<0.0500	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	0.090	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	<0.010	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	<0.001	-	-	-
Chloroform	mg/L	<0.001	<0.010	<0.001	<0.002
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.002
Trichloroethylene	mg/L	0.003	0.007	0.001	<0.002
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.002

Well: MSB 47TA, M-Area Settling Basin

SRP Grid	N 106987.7			ft (msl)
Coordinates	E 52219.0	Screen Zone Elevation		-
Latitude	33.347578° N	Top of Casing Elevation		369.0
Longitude	81.737173° W	Casing Material		C.S.

Parameter	Units	02/22/88	05/31/88	08/02/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	215.2	217.5	216.8	216.1
pH	pH	5.6	5.2	5.1	5.0
Conductivity	µmhos/cm	24	27	25	25
Alkalinity	mg/L	3	2	1	1
Chloroform	mg/L	<0.050	<0.010	<0.050	<0.050
Tetrachloroethylene	mg/L	<0.001	<0.010	<0.005	<0.005
Trichloroethylene	mg/L	0.665	0.629	0.596	0.561
1,1,1-TCE	mg/L	<0.050	<0.010	<0.050	<0.050

Well: MSB 48D, M-Area Settling Basin

SRP Grid	N 107914.4			ft (msl)
Coordinates	E 54056.3	Screen Zone Elevation		243.4 - 221.9
Latitude	33.352627° N	Top of Casing Elevation		363.2
Longitude	81.734137° W	Casing Material		PVC

Parameter	Units	03/09/88	05/16/88	08/03/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.8	234.3	234.1	233.6
pH	pH	11.5	11.6	11.6	11.7
Conductivity	µmhos/cm	1926	1637	1510	1419
Alkalinity	mg/L	-	572	500	522
Chloroform	mg/L	<0.001	-	-	-
Tetrachloroethylene	mg/L	<0.001	-	-	-
Trichloroethylene	mg/L	<0.001	-	-	-
1,1,1-TCE	mg/L	<0.001	-	-	-

Well: MSB 49B, M-Area Settling Basin

SRP Grid	N 99737.8			ft (msl)
Coordinates	E 45868.2	Screen Zone Elevation		-
Latitude	33.321180° N	Top of Casing Elevation		334.8
Longitude	81.739792° W	Casing Material		PVC

Parameter	Units	03/03/88	04/30/88	07/15/88	10/06/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.7	204.7	204.4	203.1
pH	pH	5.2	6.0	5.8	6.1
Conductivity	µmhos/cm	60	55	52	59
Alkalinity	mg/L	-	10	8	14
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	<0.1	-	-
Nonvolatile Beta	pCi/L	-	3.2	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	-	<0.63	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	-	-	-	-
Beryllium	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Chromium	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Cyanide	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silica	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Total Phosphates	mg/L	-	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	-	-	-	-
Phenols	mg/L	-	-	-	-
Tot. Org. Carbon	mg/L	-	-	-	-
Tot. Org. Halogens	mg/L	-	-	-	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	<0.010	<0.010	<0.010	<0.010
Tetrachloroethylene	mg/L	<0.001	<0.001	0.007	<0.010
Trichloroethylene	mg/L	0.082	0.094	0.092	0.164
1,1,1-TCE	mg/L	<0.010	<0.010	<0.010	<0.010

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 49D, M-Area Settling Basin

SRP Grid	N 99724.9			ft (msl)
Coordinates	E 45856.4	Screen Zone Elevation		-
Latitude	33.321132° N	Top of Casing Elevation		334.2
Longitude	81.739798° W	Casing Material		PVC

Parameter	Units	03/04/88	04/30/88	07/16/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.4	228	227.5	226.5
pH	pH	6.4	6.2	5.8	6.3
Conductivity	µmhos/cm	74	69	64	60
Alkalinity	mg/L	-	31	29	21
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 50B, M-Area Settling Basin

SRP Grid	N 96433.0			ft (msl)
Coordinates	E 51053.5	Screen Zone Elevation		-
Latitude	33.322342° N	Top of Casing Elevation		224.0
Longitude	81.719711° W	Casing Material		PVC

Parameter	Units	02/13/88	06/23/88	08/13/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203	202.3	202.3	202.4
pH	pH	6.4	6.2	6.0	6.1
Conductivity	µmhos/cm	44	38	38	34
Alkalinity	mg/L	13	13	10	9
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.001	<0.001	0.002
Trichloroethylene	mg/L	0.004	0.003	0.003	0.005
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 50D, M-Area Settling Basin

SRP Grid	N 96416.7			ft (msl)
Coordinates	E 51044.1	Screen Zone Elevation		-
Latitude	33.322291° N	Top of Casing Elevation		223.5
Longitude	81.719704° W	Casing Material		PVC

Parameter	Units	02/13/88	06/23/88	08/13/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	203.2	202.7	202.5	202.6
pH	pH	5.1	5.2	5.1	5.1
Conductivity	µmhos/cm	52	55	57	56
Alkalinity	mg/L	1	4	2	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 51B, M-Area Settling Basin

SRP Grid	N 96992.7			ft (msl)
Coordinates	E 52818.0	Screen Zone Elevation		-
Latitude	33.326460° N	Top of Casing Elevation		263.5
Longitude	81.716152° W	Casing Material		PVC

Parameter	Units	02/13/88	04/17/88	07/15/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	204.7	204.6	204	204
pH	pH	6.8	6.6	6.2	6.5
Conductivity	µmhos/cm	61	57	59	50
Alkalinity	mg/L	21	20	19	18
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 51D, M-Area Settling Basin

SRP Grid	N 97015.7			ft (msl)
Coordinates	E 52816.2	Screen Zone Elevation		-
Latitude	33.326508° N	Top of Casing Elevation		262.5
Longitude	81.716202° W	Casing Material		PVC

Parameter	Units	02/14/88	04/17/88	07/16/88	10/07/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	210.4	210.1	209.6	209.1
pH	pH	5.0	4.9	4.6	4.6
Conductivity	µmhos/cm	22	25	25	18
Alkalinity	mg/L	1	1	0	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	0.003	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 52B, M-Area Settling Basin

SRP Grid	N 103077.7			ft (msl)
Coordinates	E 53418.4	Screen Zone Elevation		-
Latitude	33.340893° N	Top of Casing Elevation		321.9
Longitude	81.726407° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	08/21/88	10/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	219	219.1	219.1	218.4
pH	pH	10.4	9.9	10.1	10.7
Conductivity	µmhos/cm	152	106	134	175
Alkalinity	mg/L	-	40	48	69
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.002	0.002	0.002
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 52D, M-Area Settling Basin

SRP Grid	N 103062.7			ft (msl)
Coordinates	E 53416.8	Screen Zone Elevation		-
Latitude	33.340858° N	Top of Casing Elevation		321.8
Longitude	81.726382° W	Casing Material		PVC

Parameter	Units	03/13/88	06/19/88	08/21/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.2	238.5	238.2	237.9
pH	pH	6.1	5.6	5.7	5.6
Conductivity	µmhos/cm	33	33	32	24
Alkalinity	mg/L	-	4	8	4
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 53C, M-Area Settling Basin

SRP Grid	N 106456.2			ft (msl)
Coordinates	E 54540.5	Screen Zone Elevation		-
Latitude	33.350194° N	Top of Casing Elevation		345.5
Longitude	81.730024° W	Casing Material		PVC

Parameter	Units	02/13/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.5	223.5	222.8	222.1
pH	pH	5.4	5.2	5.2	5.2
Conductivity	µmhos/cm	26	23	23	21
Alkalinity	mg/L	4	4	2	3
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.001	0.002	0.001
Trichloroethylene	mg/L	0.003	0.002	0.002	0.003
1,1,1-TCE	mg/L	<0.001	0.001	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 53D, M-Area Settling Basin

SRP Grid	N	106448.2		ft (msl)
Coordinates	E	54553.1	Screen Zone Elevation	244.6 - 223.3
Latitude		33.350197° N	Top of Casing Elevation	345.1
Longitude		81.729976° W	Casing Material	PVC

Parameter	Units	02/13/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.3	234.4	233.7	233.3
pH	pH	4.9	4.8	4.8	4.7
Conductivity	µmhos/cm	33	26	29	23
Alkalinity	mg/L	0	0	0	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	0.002	0.001	<0.001	0.001
Trichloroethylene	mg/L	0.003	0.003	0.003	0.004
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 54B, M-Area Settling Basin

SRP Grid	N	108446.8		ft (msl)
Coordinates	E	52970.5	Screen Zone Elevation	-
Latitude		33.352031° N	Top of Casing Elevation	373.7
Longitude		81.738033° W	Casing Material	PVC

Parameter	Units	01/22/88	05/15/88	07/22/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.6	222.5	222.6	221.9
pH	pH	6.1	6.2	6.0	5.8
Conductivity	µmhos/cm	39	46	39	37
Alkalinity	mg/L	27	10	10	14
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 54C, M-Area Settling Basin

SRP Grid	N	108447.4		ft (msl)
Coordinates	E	52955.7	Screen Zone Elevation	-
Latitude		33.352008° N	Top of Casing Elevation	373.7
Longitude		81.738073° W	Casing Material	PVC

Parameter	Units	01/22/88	05/15/88	07/22/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	228.6	227.8	227.8	227
pH	pH	10.6	11.1	10.5	10.3
Conductivity	µmhos/cm	356	393	190	255
Alkalinity	mg/L	123	103	75	80
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 54D, M-Area Settling Basin

SRP Grid	N	108461.5		ft (msl)
Coordinates	E	52984.5	Screen Zone Elevation	244.5 - 223.5
Latitude		33.352086° N	Top of Casing Elevation	374.0
Longitude		81.738025° W	Casing Material	PVC

Parameter	Units	01/22/88	05/15/88	07/22/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.7	235.2	235.1	234.3
pH	pH	4.8	5.0	4.9	5.0
Conductivity	µmhos/cm	23	29	27	25
Alkalinity	mg/L	1	1	1	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 54TA, M-Area Settling Basin

SRP Grid	N	108446.3		ft (msl)
Coordinates	E	52985.8	Screen Zone Elevation	-
Latitude		33.352055° N	Top of Casing Elevation	373.8
Longitude		81.737992° W	Casing Material	C.S.

Parameter	Units	01/22/88	05/15/88	07/22/88	10/30/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.8	219.5	219.6	219.1
pH	pH	6.6	9.4	6.8	6.9
Conductivity	µmhos/cm	46	81	57	62
Alkalinity	mg/L	16	30	22	27
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 55D, M-Area Settling Basin

SRP Grid	N	108391.4		ft (msl)
Coordinates	E	52032.5	Screen Zone Elevation	245.5 - 224.3
Latitude		33.350377° N	Top of Casing Elevation	368.4
Longitude		81.740396° W	Casing Material	PVC

Parameter	Units	01/22/88	05/15/88	08/02/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	236.3	235.9	235.8	235
pH	pH	5.5	5.3	5.5	5.2
Conductivity	µmhos/cm	32	37	31	31
Alkalinity	mg/L	3	3	3	1
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 56D, M-Area Settling Basin

SRP Grid	N	108463.5		ft (msl)
Coordinates	E	44207.9	Screen Zone Elevation	232.2 - 210.9
Latitude		33.337755° N	Top of Casing Elevation	279.6
Longitude		81.761141° W	Casing Material	PVC

Parameter	Units	01/22/88	05/15/88	08/02/88	10/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.3	222.4	221.8	221.2
pH	pH	4.7	4.8	4.9	4.8
Conductivity	µmhos/cm	18	22	19	18
Alkalinity	mg/L	0	1	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Well: MSB 61C, M-Area Settling Basin

SRP Grid	N	106091.1		ft (msl)
Coordinates	E	55406.6	Screen Zone Elevation	-
Latitude		33.350802° N	Top of Casing Elevation	317.6
Longitude		81.727033° W	Casing Material	PVC

Parameter	Units	02/13/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Bail	Pump	Pump	Pump
Water Elevation	ft	223.6	223.6	223.2	222.3
pH	pH	5.4	5.5	5.1	4.8
Conductivity	µmhos/cm	32	33	28	27
Alkalinity	mg/L	2	2	1	0
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

Well: MSB 61D, M-Area Settling Basin

SRP Grid	N 106094.6		ft (msl)
Coordinates	E 55390.6	Screen Zone Elevation	-
Latitude	33.350783° N	Top of Casing Elevation	318.1
Longitude	81.727082° W	Casing Material	PVC

Parameter	Units	02/14/88	04/17/88	07/15/88	10/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	225.7	225.9	225.5	224.8
pH	pH	5.8	5.5	5.4	5.3
Conductivity	µmhos/cm	36	31	30	27
Alkalinity	mg/L	8	8	6	6
Chloroform	mg/L	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TCE	mg/L	<0.001	<0.001	<0.001	<0.001

Other Analyses
(Pest/Herb*, GCMS Scan, and Appendix IX Analytes: Table 5-91)

MSB 9A 02/17/88
Aluminum 0.045 mg/L
Cyanide <0.005 mg/L

MSB 9A 05/04/88
Aluminum 0.038 mg/L
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
Uranium <1 mg/L
GCMS Scan detected the following:
1,2-Dichloroethane 0.017 mg/L

MSB 9A 07/04/88
Aluminum 0.021 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <0.1 mg/L
1,1-Dichloroethylene <0.1 mg/L

MSB 9A 10/06/88
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <1 mg/L
1,1-Dichloroethylene <1 mg/L

MSB 9B 02/18/88
Aluminum 0.39 mg/L
Cyanide <0.005 mg/L

MSB 9B 04/27/88
Aluminum 0.116 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
GCMS Scan detected the following:
Chlorobenzene 0.007 mg/L
1,1-Dichloroethylene 0.021 mg/L
trans-1,3-Dichloropropene 0.009 mg/L

MSB 9B 07/04/88
Aluminum 0.114 mg/L
Cyanide 0.0112 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <5 mg/L
1,1-Dichloroethylene <5 mg/L

MSB 9B 10/06/88
Aluminum 0.058 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <5 mg/L
1,1-Dichloroethylene <5 mg/L

MSB 9C 02/17/88
Aluminum 4.24 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L

MSB 9C 04/27/88
Aluminum 3.79 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
GCMS Scan detected the following: None

MSB 9C 07/04/88
Aluminum 3.94 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <10 mg/L
1,1-Dichloroethylene <10 mg/L

MSB 9C 10/06/88
Aluminum 4.66 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <10 mg/L
1,1-Dichloroethylene <10 mg/L

MSB 10A 02/17/88
Aluminum 0.031 mg/L
Cyanide <0.005 mg/L

MSB 10A 04/30/88
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
GCMS Scan detected the following: None

MSB 10A 08/09/88
Aluminum <0.02 mg/L
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L

MSB 10A 10/06/88
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L

MSB 10B 02/17/88
Aluminum 0.039 mg/L
Aluminum 0.05 mg/L
Cyanide <0.005 mg/L
Cyanide <0.005 mg/L

MSB 10B 04/30/88
Aluminum 0.033 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
GCMS Scan detected the following: None

MSB 10B 07/04/88
Aluminum 0.025 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L

MSB 10B 10/06/88
Aluminum <0.02 mg/L
Cyanide <0.005 mg/L
Uranium <1 mg/L
trans-1,2-Dichloroethene <0.001 mg/L
1,1-Dichloroethylene <0.001 mg/L

MSB 10C 02/17/88
Aluminum 0.225 mg/L
Cyanide <0.005 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 10C	04/30/88	
Aluminum		0.052 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
trans-1,2-Dichloroethene		0.373 mg/L
MSB 10C	07/04/88	
Aluminum		0.06 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<10 mg/L
1,1-Dichloroethylene		<10 mg/L
MSB 10C	10/06/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<10 mg/L
1,1-Dichloroethylene		<10 mg/L
MSB 11A	02/17/88	
Aluminum		0.087 mg/L
Cyanide		<0.005 mg/L
MSB 11A	04/27/88	
Aluminum		0.024 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 11A	07/03/88	
Aluminum		0.036 mg/L
Cyanide		0.0059 mg/L
Cyanide		0.0059 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 11A	10/04/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 11B	02/17/88	
Aluminum		0.076 mg/L
Aluminum		0.074 mg/L
Cyanide		<0.005 mg/L
MSB 11B	04/27/88	
Aluminum		0.028 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 11B	07/03/88	
Aluminum		<0.02 mg/L
Cyanide		0.0071 mg/L
Uranium		<1 mg/L
1,1-Dichloroethylene		0.0026 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
MSB 11B	10/04/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 11C	02/17/88	
Aluminum		0.141 mg/L
Cyanide		<0.005 mg/L
MSB 11C	04/27/88	
Aluminum		0.082 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 11C	07/03/88	
Aluminum		0.076 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<10 mg/L
1,1-Dichloroethylene		<10 mg/L
MSB 11C	10/04/88	
Aluminum		0.051 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<10 mg/L
1,1-Dichloroethylene		<10 mg/L
MSB 11D	02/17/88	
Aluminum		0.069 mg/L
Cyanide		<0.005 mg/L
MSB 11D	05/04/88	
Aluminum		0.056 mg/L
Aluminum		0.057 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.006 mg/L
1,2-Dichloroethane		0.008 mg/L
MSB 11D	07/03/88	
Aluminum		0.023 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 11D	10/04/88	
Aluminum		0.039 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 11F	02/18/88	
Aluminum		0.396 mg/L
Cyanide		<0.005 mg/L
MSB 11F	04/27/88	
Aluminum		2.02 mg/L
Aluminum		1.98 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 11F	07/03/88	
Aluminum		0.356 mg/L
Aluminum		0.355 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 11F	10/04/88	
Aluminum		0.244 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 12A	02/17/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 12A	05/04/88	
Aluminum		0.022 mg/L
Aluminum		0.022 mg/L
Aluminum		0.021 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
Toluene		0.015 mg/L
1,2-Dichloroethane		0.002 mg/L
MSB 12A	08/03/88	
Aluminum		0.025 mg/L
Cyanide		0.008 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 12A	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 12B	02/17/88	
Aluminum		0.112 mg/L
Cyanide		<0.005 mg/L
MSB 12B	05/08/88	
Aluminum		0.058 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.02 mg/L
1,2-Dichloroethane		0.044 mg/L
MSB 12B	08/03/88	
Aluminum		0.046 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 12B	10/30/88	
Aluminum		0.054 mg/L
Aluminum		0.052 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
MSB 12C	02/17/88	
Aluminum		0.089 mg/L
Cyanide		<0.005 mg/L
MSB 12C	05/08/88	
Aluminum		0.027 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.051 mg/L
1,2-Dichloroethane		0.011 mg/L
MSB 12C	08/03/88	
Aluminum		0.046 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 12C	10/30/88	
Aluminum		0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 12D	02/18/88	
Aluminum		0.233 mg/L
Cyanide		<0.005 mg/L
MSB 12D	05/09/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 12TA	04/26/88	
Aluminum		0.026 mg/L
Aluminum		<0.02 mg/L
Aluminum		0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
GCMS Scan detected the following: None		
MSB 12TA	05/23/88	
Aluminum		0.019 mg/L
Aluminum		0.034 mg/L
Aluminum		0.039 mg/L
Aluminum		0.024 mg/L
Aluminum		0.026 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
GCMS Scan detected the following: None		
MSB 12TA	08/01/88	
Aluminum		0.031 mg/L
Aluminum		0.042 mg/L
Aluminum		0.037 mg/L
Aluminum		0.035 mg/L
Aluminum		0.034 mg/L
Aluminum		0.037 mg/L
Aluminum		0.033 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 12TA	07/03/88	
Aluminum		0.032 mg/L
Aluminum		0.031 mg/L
Aluminum		0.021 mg/L
Aluminum		0.027 mg/L
Aluminum		0.021 mg/L
Aluminum		0.038 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 12TA	08/03/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 12TA	09/05/88	
Aluminum		0.028 mg/L
Aluminum		0.024 mg/L
Aluminum		0.029 mg/L
Aluminum		0.022 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethyene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 12TA	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 12TB	05/23/88	
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 12TB	08/03/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 12TB	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 14A	02/19/88	
Aluminum		0.155 mg/L
Cyanide		<0.005 mg/L
MSB 14A	04/27/88	
Aluminum		0.062 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 14A	07/04/88	
Aluminum		0.064 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.25 mg/L
1,1-Dichloroethylene		<0.25 mg/L
MSB 14A	10/05/88	
Aluminum		0.034 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.25 mg/L
1,1-Dichloroethylene		<0.25 mg/L
MSB 14B	02/19/88	
Aluminum		0.135 mg/L
Cyanide		<0.005 mg/L
MSB 14B	05/03/88	
Aluminum		0.041 mg/L
Aluminum		0.048 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.013 mg/L
1,1-Dichloroethylene		0.013 mg/L
1,2-Dichloroethane		0.017 mg/L
MSB 14B	07/04/88	
Aluminum		0.051 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 14B	10/05/88	
Aluminum		0.026 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 14C	02/19/88	
Aluminum		0.162 mg/L
Cyanide		<0.005 mg/L
MSB 14C	04/27/88	
Aluminum		0.024 mg/L
Aluminum		0.027 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 14C	07/04/88	
Aluminum		0.044 mg/L
Aluminum		0.041 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
1,1-Dichloroethylene		0.0033 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
MSB 14C	10/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 15A	05/25/88	
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 15A	08/09/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.5 mg/L
1,1-Dichloroethylene		<0.5 mg/L
MSB 15A	10/11/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 16A	07/30/88	
trans-1,2-Dichloroethene		<1 mg/L
trans-1,2-Dichloroethene		<0.5 mg/L
1,1-Dichloroethylene		<1 mg/L
1,1-Dichloroethylene		<0.5 mg/L
MSB 16A	10/11/88	
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 16C	07/30/88	
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 16C	10/11/88	
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 17A	02/19/88	
Aluminum		0.143 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
MSB 17A	05/08/88	
Aluminum		0.07 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.017 mg/L
1,2-Dichloroethane		0.002 mg/L
MSB 17A	07/29/88	
Aluminum		0.058 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 17A	10/05/88	
Aluminum		0.04 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 17B	02/19/88	
Aluminum		0.161 mg/L
Cyanide		<0.005 mg/L
MSB 17B	05/08/88	
Aluminum		0.112 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.072 mg/L
1,2-Dichloroethane		0.004 mg/L
MSB 17B	07/29/88	
Aluminum		0.158 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 17B	10/05/88	
Aluminum		0.151 mg/L
Aluminum		0.126 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 18A	02/19/88	
Aluminum		0.046 mg/L
Cyanide		<0.005 mg/L
MSB 18A	05/08/88	
Aluminum		0.034 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.001 mg/L
MSB 18A	08/04/88	
Aluminum		0.022 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.002 mg/L
1,1-Dichloroethylene		<0.002 mg/L
MSB 18A	10/30/88	
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
trans-1,2-Dichloroethene		0.0013 mg/L
Uranium		<1 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 18B	02/19/88	
Aluminum		0.073 mg/L
Cyanide		<0.005 mg/L
MSB 18B	05/08/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 18B	08/04/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.002 mg/L
1,1-Dichloroethylene		<0.002 mg/L
MSB 18B	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 18C	02/19/88	
Aluminum		0.077 mg/L
Cyanide		<0.005 mg/L
MSB 18C	05/08/88	
Aluminum		0.095 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 18C	08/04/88	
Aluminum		0.065 mg/L
Aluminum		0.043 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 18C	11/01/88	
Aluminum		0.048 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 19A	05/24/88	
Aluminum		0.036 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 19A	08/05/88	
Aluminum		0.026 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 19A	11/19/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 19B	05/29/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 19B	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 19B	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 19C	05/25/88	
Aluminum		0.048 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.018 mg/L
MSB 19C	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.2 mg/L
1,1-Dichloroethylene		<0.2 mg/L
MSB 19C	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 20A	02/28/88	
Aluminum		0.04 mg/L
Aluminum		0.042 mg/L
Cyanide		<0.005 mg/L
MSB 20A	05/10/88	
Aluminum		0.108 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.008 mg/L
MSB 20A	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 20A	11/01/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 20C	02/28/88	
Aluminum		0.194 mg/L
Cyanide		<0.005 mg/L
MSB 20C	05/10/88	
Aluminum		0.511 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 20C	08/05/88	
Aluminum		0.174 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 20C	11/01/88	
Aluminum		0.24 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 21A	02/28/88	
Aluminum		0.068 mg/L
Cyanide		<0.005 mg/L
MSB 21A	05/24/88	
Aluminum		0.024 mg/L
Aluminum		0.03 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 21A	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 21A	11/19/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 21C	02/28/88	
Aluminum		0.075 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
MSB 21C	05/24/88	
Aluminum		0.024 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 21C	08/05/88	
Aluminum		< 0.02 mg/L
Cyanide		< 0.005 mg/L
Uranium		< 1 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 21C	11/01/88	
Aluminum		< 0.02 mg/L
Cyanide		< 0.005 mg/L
Uranium		< 1 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 21TA	05/24/88	
Aluminum		0.065 mg/L
Cyanide		< 0.005 mg/L
Uranium		< 1 mg/L
GCMS Scan detected the following: None		
MSB 21TA	08/05/88	
Aluminum		< 0.02 mg/L
Cyanide		< 0.005 mg/L
Uranium		< 1 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 21TA	11/01/88	
Aluminum		0.022 mg/L
Aluminum		0.024 mg/L
Cyanide		< 0.005 mg/L
Uranium		< 1 mg/L
Uranium		< 1 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23B	11/01/88	
trans-1,2-Dichloroethene		< 1 mg/L
1,1-Dichloroethylene		< 1 mg/L
MSB 23TA	07/08/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	07/13/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	07/20/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	07/27/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	08/03/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	08/10/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	08/17/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	08/24/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	09/07/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	09/14/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	09/22/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	09/28/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	10/07/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	10/12/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	10/19/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	10/26/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	11/01/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	11/04/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.01 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.01 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	11/11/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.005 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.005 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	11/18/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.005 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.005 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
MSB 23TA	11/28/88	
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.005 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
trans-1,2-Dichloroethene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.005 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L
1,1-Dichloroethylene		< 0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 23TA	12/16/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.005 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.005 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 24	08/24/88	
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 24A	08/23/88	
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 25A	07/30/88	
trans-1,2-Dichloroethene		<0.5 mg/L
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<0.5 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 25A	10/26/88	
trans-1,2-Dichloroethene		<0.5 mg/L
1,1-Dichloroethylene		<0.5 mg/L
MSB 26	07/04/88	
1,1-Dichloroethylene		0.0022 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
MSB 26	10/03/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 26A	07/04/88	
trans-1,2-Dichloroethene		<0.25 mg/L
1,1-Dichloroethylene		<0.25 mg/L
MSB 27	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 27	10/10/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 27A	07/13/88	
trans-1,2-Dichloroethene		<10 mg/L
1,1-Dichloroethylene		<10 mg/L
MSB 27B	07/13/88	
trans-1,2-Dichloroethene		<0.2 mg/L
1,1-Dichloroethylene		<0.2 mg/L
MSB 27B	10/10/88	
1,1-Dichloroethylene		0.0094 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
MSB 27TA	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 27TA	10/10/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 28	07/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 28	10/03/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 28A	07/08/88	
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 28A	10/03/88	
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 30A	08/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30A	12/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30AA	08/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30AA	12/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30B	08/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30B	12/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30C	08/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30C	12/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30CC	08/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 30CC	12/20/88	
trans-1,2-Dichloroethene		<0.005 mg/L
1,1-Dichloroethylene		<0.005 mg/L
MSB 31A	02/28/88	
Aluminum		0.033 mg/L
Cyanide		<0.005 mg/L
MSB 31A	05/25/88	
Aluminum		0.021 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 31A	08/13/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 31A	11/09/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 31B	02/28/88	
Aluminum		0.037 mg/L
Cyanide		<0.005 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 31B	05/25/88	
Aluminum		*0.027 mg/L*
Aluminum		0.03 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 31B	08/13/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<5 mg/L
1,1-Dichloroethylene		<5 mg/L
MSB 31B	11/09/88	
Aluminum		<0.02 mg/L
Cyanide		*<0.005 mg/L*
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 31C	02/28/88	
Aluminum		0.076 mg/L
Cyanide		<0.005 mg/L
MSB 31C	05/25/88	
Aluminum		0.038 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.017 mg/L
1,2-Dichloroethane		0.113 mg/L
MSB 31C	07/27/88	
Aluminum		0.032 mg/L
Aluminum		0.033 mg/L
Cyanide		<0.005 mg/L
Ammonia		0.56 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<20 mg/L
1,1-Dichloroethylene		<20 mg/L
MSB 31C	11/09/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		*<1 mg/L*
MSB 32	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 32	10/10/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 33	07/08/88	
trans-1,2-Dichloroethene		<0.025 mg/L
1,1-Dichloroethylene		<0.025 mg/L
MSB 33A	07/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		*<0.001 mg/L*
MSB 33A	10/04/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 33B	07/08/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		0.0967 mg/L
MSB 33B	10/04/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 33C	07/08/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		*<0.01 mg/L*
MSB 33TA	07/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 33TA	10/04/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 34A	08/23/88	
trans-1,2-Dichloroethene		<0.2 mg/L
1,1-Dichloroethylene		<0.2 mg/L
MSB 34A	11/09/88	
trans-1,2-Dichloroethene		<0.2 mg/L
1,1-Dichloroethylene		<0.2 mg/L
MSB 34B	07/30/88	
trans-1,2-Dichloroethene		<1 mg/L
trans-1,2-Dichloroethene		<2 mg/L
1,1-Dichloroethylene		<1 mg/L
1,1-Dichloroethylene		<2 mg/L
MSB 34C	08/23/88	
trans-1,2-Dichloroethene		<0.5 mg/L
1,1-Dichloroethylene		<0.5 mg/L
MSB 34C	11/09/88	
trans-1,2-Dichloroethene		<0.5 mg/L
1,1-Dichloroethylene		*<0.5 mg/L*
MSB 34TA	08/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 34TA	11/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 34TB	08/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 34TB	11/09/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		*<0.001 mg/L*
MSB 35A	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 35A	10/10/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 35B	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 35B	10/10/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		*<0.001 mg/L*
MSB 35TA	07/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 35TA	10/10/88	
trans-1,2-Dichloroethene		*<0.001 mg/L*
1,1-Dichloroethylene		<0.001 mg/L
MSB 36A	03/01/88	
Aluminum		0.053 mg/L
Cyanide		<0.005 mg/L
MSB 36A	05/30/88	
Aluminum		0.051 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 36A	08/23/88	
Aluminum		0.021 mg/L
Cyanide		<0.005 mg/L
Uranium		*<1 mg/L*
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 39A	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39A	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39B	03/05/88	
Aluminum		0.128 mg/L
Aluminum		0.152 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
MSB 39B	05/29/88	
Aluminum		0.058 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,1-Dichloroethylene		0.014 mg/L
1,1-Dichloroethylene		0.01 mg/L
1,2-Dichloroethane		0.013 mg/L
1,2-Dichloroethane		0.01 mg/L
MSB 39B	08/05/88	
Aluminum		0.045 mg/L
Aluminum		0.048 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 39B	10/30/88	
Aluminum		0.049 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 39C	03/01/88	
Aluminum		0.175 mg/L
Cyanide		<0.005 mg/L
MSB 39C	05/29/88	
Aluminum		0.139 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 39C	08/05/88	
Aluminum		0.083 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 39C	10/30/88	
Aluminum		0.108 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 39D	03/01/88	
Aluminum		0.049 mg/L
Cyanide		<0.005 mg/L
MSB 39D	05/29/88	
Aluminum		0.03 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		

MSB 39D	07/27/88	
Aluminum		0.851 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Ammonia		0.56 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39D	10/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39TA	05/29/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 39TA	08/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39TA	10/30/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 40A	05/29/88	
Aluminum		0.043 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 40A	08/21/88	
Aluminum		0.032 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 40A	11/05/88	
Aluminum		0.034 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 40B	05/29/88	
Aluminum		0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 40B	08/21/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 40B	11/05/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 36A	11/06/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 36B	03/01/88	
Aluminum		0.097 mg/L
Cyanide		<0.005 mg/L
MSB 36B	05/30/88	
Aluminum		0.041 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following:		
1,2-Dichloroethane		0.024 mg/L
MSB 36B	08/23/88	
Aluminum		0.03 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 36B	11/06/88	
Aluminum		0.023 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<1 mg/L
1,1-Dichloroethylene		<1 mg/L
MSB 36C	03/01/88	
Aluminum		0.052 mg/L
Cyanide		<0.005 mg/L
MSB 36C	05/30/88	
Aluminum		0.041 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 36C	08/21/88	
Aluminum		0.025 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 36C	11/19/88	
Aluminum		<0.02 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 36D	05/30/88	
Aluminum		0.049 mg/L
Cyanide		<0.005 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 36D	07/28/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Ammonia		1.1 mg/L
Ammonia		1.3 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 36D	11/06/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 36TA	05/30/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 36TA	08/21/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 36TA	11/06/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 37A	07/23/88	
trans-1,2-Dichloroethene		<0.005 mg/L
1,1-Dichloroethylene		<0.005 mg/L
MSB 37A	10/26/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 37B	07/23/88	
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 37B	10/27/88	
trans-1,2-Dichloroethene		<0.02 mg/L
1,1-Dichloroethylene		<0.02 mg/L
MSB 37C	07/23/88	
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 37D	07/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 37TA	07/23/88	
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 37TA	10/27/88	
trans-1,2-Dichloroethene		<0.10 mg/L
1,1-Dichloroethylene		<0.10 mg/L
MSB 38TA	08/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 38TA	11/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 39A	03/02/88	
Aluminum		0.081 mg/L
Aluminum		0.081 mg/L
Cyanide		<0.005 mg/L
MSB 39A	05/29/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 40C	05/29/88	
Aluminum		0.104 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 40C	08/21/88	
Aluminum		0.082 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 40C	11/05/88	
Aluminum		0.073 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 40D	05/29/88	
Aluminum		0.072 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 40D	08/22/88	
Aluminum		0.053 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 40D	11/06/88	
Aluminum		0.079 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
MSB 40TA	05/29/88	
Aluminum		0.022 mg/L
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
GCMS Scan detected the following: None		
MSB 40TA	08/21/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 40TA	11/05/88	
Aluminum		<0.02 mg/L
Cyanide		<0.005 mg/L
Uranium		<1 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41A	07/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41A	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41B	07/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41B	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41C	07/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41C	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41TA	07/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 41TA	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 42A	08/23/88	
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 42A	11/08/88	
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 42B	08/23/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 42B	11/08/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 42C	08/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 42C	11/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 42D	08/24/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 42D	11/09/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 42TA	08/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 42TA	11/08/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44A	08/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44A	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44B	08/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44B	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44C	09/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 44C	12/18/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 45A	07/30/88	
trans-1,2-Dichloroethene		<0.1 mg/L
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 45A	10/19/88	
trans-1,2-Dichloroethene		<0.1 mg/L
1,1-Dichloroethylene		<0.1 mg/L
MSB 45B	07/30/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 45B	10/19/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 46A	08/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 46A	12/19/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 46B	08/19/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 46B	12/18/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 47B	02/22/88	
Appendix IX analyses detected the following: None		
MSB 47C	02/22/88	
Appendix IX analyses detected the following: None		
MSB 47D	02/22/88	
Appendix IX analyses detected the following: None		
MSB 47TA	08/2/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 47TA	10/20/88	
trans-1,2-Dichloroethene		<0.05 mg/L
1,1-Dichloroethylene		<0.05 mg/L
MSB 49B	07/15/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 49B	10/06/88	
trans-1,2-Dichloroethene		<0.01 mg/L
1,1-Dichloroethylene		<0.01 mg/L
MSB 49D	07/16/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 49D	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 50B	08/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 50B	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 50D	08/13/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 50D	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 51B	07/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 51B	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 51D	07/16/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 51D	07/23/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 51D	10/07/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 52B	08/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 52B	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 52D	08/21/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 52D	10/29/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 53C	07/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 53C	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 53D	07/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 53D	10/28/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54B	07/22/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54B	10/30/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54C	07/22/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54C	10/30/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54D	07/22/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54D	10/30/88	
trans-1,2-Dichloroethene		<0.001 mg/L
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54TA	07/22/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 54TA	10/30/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 55D	08/02/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 55D	10/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-68
GROUNDWATER MONITORING RESULTS FROM THE PLUME DEFINITION WELLS, CONT'D.

MSB 56D	08/02/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 56D	10/20/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 61C	07/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 61C	10/02/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 61D	07/15/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L
MSB 61D	10/02/88	
trans-1,2-Dichloroethene		<0.001 mg/L
1,1-Dichloroethylene		<0.001 mg/L

TABLE 5-69
MAXIMUM CONSTITUENT LEVELS AT P AREA

Constituent	DWS	Units	PAC	PCB	PDB	PRP
Gross Alpha	15	pCi/L	<3	-	1.7	1.4
Nonvolatile Beta	-	pCi/L	8	6.5	4.7	3
Total Radium	5	pCi/L	<1	2.1	-	-
Tritium	20	pCi/mL	13.4	**24.6**	**498**	**37.6**
Arsenic	0.05	mg/L	<0.002	-	-	-
Barium	1	mg/L	0.045	-	-	0.102
Cadmium	0.01	mg/L	<0.002	**0.016**	-	-
Chromium	0.05	mg/L	<0.004	0.04	-	-
Fluoride	4	mg/L	<0.1	0.76	-	-
Lead	0.05	mg/L	<0.006	**0.073**	**0.072**	**0.079**
Mercury	0.002	mg/L	0.0009	-	-	0.0002
Selenium	0.01	mg/L	<0.002	0.003	-	-
Silver	0.05	mg/L	<0.002	-	-	<0.002
Nitrate (as N)	10	mg/L	0.28	-	-	-
Chloroform	0.1*	mg/L	-	<0.005	-	<0.001
Carbon Tetrachloride	0.005	mg/L	-	<0.005	-	<0.001
Trichloroethylene	0.005	mg/L	-	<0.005	-	**0.095**
1,1,1-Trichloroethane	0.2	mg/L	-	<0.005	-	**0.428**
Benzene	0.005	mg/L	-	<0.005	-	-
Chloroethene	0.002	mg/L	-	<0.01	-	-
1,2-Dichloroethane	0.005	mg/L	-	<0.005	-	-
1,1-Dichloroethylene	0.005	mg/L	-	<0.005	-	-
2,4-D	0.1	mg/L	<0.0003	-	-	-
Endrin	0.0002	mg/L	<0.0001	-	-	-
Lindane	0.004	mg/L	<0.00001	-	-	-
Methoxychlor	0.1	mg/L	<0.0005	-	-	-
Silvex	0.01	mg/L	<0.0001	-	-	-
Toxaphene	0.005	mg/L	<0.001	-	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

PAC = P-Area Acid/Caustic Basin Wells
PCB = P-Area Coal Pile Runoff Containment Basin Wells
PDB = P-Area Disassembly Basin Wells
PRP = P-Area Burning/Rubble Pit Wells

TABLE 5-69
MAXIMUM CONSTITUENT LEVELS AT P AREA, CONT'D.

Constituent	DWS	Units	PSB
Gross Alpha	15	pCi/L	1.9
Nonvolatile Beta	-	pCi/L	9.6
Tritium	20	pCi/mL	**267000**
Arsenic	0.05	mg/L	<0.002
Barium	1	mg/L	0.15
Cadmium	0.01	mg/L	<0.002
Chromium	0.05	mg/L	<0.004
Lead	0.05	mg/L	**0.088**
Mercury	0.002	mg/L	<0.0002
Selenium	0.01	mg/L	<0.002
Silver	0.05	mg/L	<0.002
Nitrate (as N)	10	mg/L	**32**

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

PSB = P-Area Reactor Seepage Basins Wells

TABLE 5-70
GROUNDWATER MONITORING RESULTS FROM THE P-AREA ACID/CAUSTIC BASIN WELLS

Well: PAC 1, P-Area Acid/Caustic Basin

SRP Grid Coordinates	N 43543.3 E 66753.4	Screen Zone Elevation	ft (msl) 283.9 - 253.9
Latitude	33.230963° N	Top of Casing Elevation	295.9
Longitude	81.575658° W	Casing Material	PVC

Parameter	Units	02/23/88	05/22/88	09/04/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	283.6	284.3	283.2	282.9
pH	pH	5.1	5.4	4.6	5.0
Conductivity	µmhos/cm	44	40	40	43
Alkalinity	mg/L	4	4	4	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	13.4	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.030	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.918	-	-	-
Chloride	mg/L	5.1	-	-	-
Chromium	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.077	-	0.097	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.005	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	5.18	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	5.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000		4.80	
Tot. Org. Halogens	mg/L	< 0.003		-	

Well: PAC 3, P-Area Acid/Caustic Basin

SRP Grid Coordinates	N 43585.6 E 66861.4	Screen Zone Elevation	ft (msl) 282.9 - 252.9
Latitude	33.231232° N	Top of Casing Elevation	289.9
Longitude	81.575456° W	Casing Material	PVC

Parameter	Units	02/23/88	05/22/88	09/04/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	270.9	270.9	270	269.7
pH	pH	6.1	6.1	5.3	5.3
Conductivity	µmhos/cm	360	322	340	389
Alkalinity	mg/L	27	56	11	11
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	12.9	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.044	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	6.36	-	-	-
Chloride	mg/L	6.1	-	-	-
Chromium	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.079	-	0.757	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.008	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	0.006	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	31.7	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	7.2	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	9.60	-
Tot. Org. Halogens	mg/L	< 0.003	-	-	-

Well: PAC 2, P-Area Acid/Caustic Basin

SRP Grid Coordinates	N 43527.7 E 66980.9	Screen Zone Elevation	ft (msl) 277.9 - 247.9
Latitude	33.231299° N	Top of Casing Elevation	284.8
Longitude	81.575029° W	Casing Material	PVC

Parameter	Units	02/23/88	05/22/88	09/04/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	270.6	270.8	269.6	269.2
pH	pH	5.8	6.0	5.8	5.8
Conductivity	µmhos/cm	66	74	89	99
Alkalinity	mg/L	10	14	14	15
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	1.50	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.027	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	3.15	-	-	-
Chloride	mg/L	3.7	-	-	-
Chromium	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.782	-	3.23	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.033	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	6.74	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	10.0	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.10	-	5.10	-
Tot. Org. Halogens	mg/L	< 0.005	-	-	-

Well: PAC 4, P-Area Acid/Caustic Basin

SRP Grid Coordinates	N 43495.4 E 66863.2	Screen Zone Elevation	ft (msl) 280.6 - 250.6
Latitude	33.231036° N	Top of Casing Elevation	291.6
Longitude	81.575276° W	Casing Material	PVC

Parameter	Units	02/23/88	05/22/88	09/04/88	11/01/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	283.7	284.1	283.3	283.1
pH	pH	5.4	5.7	5.3	5.2
Conductivity	µmhos/cm	205	180	177	195
Alkalinity	mg/L	7	10	6	8
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Total Radium	pCi/L	-	-	-	-
Tritium	pCi/mL	12.5	-	-	-
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.022	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	0.491	-	-	-
Chloride	mg/L	5.4	-	-	-
Chromium	mg/L	-	-	-	-
Fluoride	mg/L	-	-	-	-
Iron	mg/L	0.039	-	0.496	-
Lead	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	0.003	-	-	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	< 0.004	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Silica	mg/L	-	-	-	-
Silver	mg/L	< 0.0020	-	< 0.0020	-
Sodium	mg/L	37.3	-	-	-
Total Phosphates	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
Sulfate	mg/L	7.3	-	-	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	5.70	-
Tot. Org. Halogens	mg/L	0.023	-	-	-

TABLE 5-70
GROUNDWATER MONITORING RESULTS FROM THE P-AREA ACID/CAUSTIC BASIN WELLS, CONT'D.

Well: PAC 5, P-Area Acid/Caustic Basin

			ft (msl)
SRP Grid	N 43561.7		
Coordinates	E 66907.1	Screen Zone Elevation	275.1 - 255.1
Latitude	33.231254° N	Top of Casing Elevation	289.3
Longitude	81.575289° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	269.5
pH	pH	7.5
Conductivity	µmhos/cm	630
Alkalinity	mg/L	245
TDS	mg/L	392
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	8.0
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	10.9
Arsenic	mg/L	< 0.002
Barium	mg/L	0.045
Cadmium	mg/L	< 0.002
Calcium	mg/L	42.0
Chloride	mg/L	10.1
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.033
Lead	mg/L	< 0.006
Magnesium	mg/L	19.3
Manganese	mg/L	0.057
Mercury	mg/L	0.0009
Nickel	mg/L	-
Potassium	mg/L	2.67
Selenium	mg/L	< 0.002
Silica	mg/L	14.1
Silver	mg/L	< 0.0020
Sodium	mg/L	82.1
Total Phosphates	mg/L	0.030
Nitrate (as N)	mg/L	0.28
Sulfate	mg/L	68.3
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	2.90
Tot. Org. Halogens	mg/L	0.009

Well: PAC 6, P-Area Acid/Caustic Basin

			ft (msl)
SRP Grid	N 43580.1		
Coordinates	E 66894.7	Screen Zone Elevation	275.2 - 255.2
Latitude	33.231274° N	Top of Casing Elevation	289.4
Longitude	81.575358° W	Casing Material	PVC

Parameter	Units	12/04/88
Sampling Method	NA	Pump
Water Elevation	ft	270.8
pH	pH	7.3
Conductivity	µmhos/cm	390
Alkalinity	mg/L	149
TDS	mg/L	266
Gross Alpha	pCi/L	< 3.0
Nonvolatile Beta	pCi/L	3.8
Total Radium	pCi/L	< 1.0
Tritium	pCi/mL	8.60
Arsenic	mg/L	< 0.002
Barium	mg/L	0.027
Cadmium	mg/L	< 0.002
Calcium	mg/L	27.3
Chloride	mg/L	8.0
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.097
Lead	mg/L	< 0.006
Magnesium	mg/L	7.60
Manganese	mg/L	0.198
Mercury	mg/L	0.0007
Nickel	mg/L	-
Potassium	mg/L	1.43
Selenium	mg/L	< 0.002
Silica	mg/L	19.7
Silver	mg/L	< 0.0020
Sodium	mg/L	53.4
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	< 0.05
Sulfate	mg/L	44.4
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	1.50
Tot. Org. Halogens	mg/L	0.008

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

PAC 5 12/04/88
Turbidity 1.17 NTU
Pest/Herb* analyses detected the following: None

PAC 6 12/04/88
Turbidity 20.9 NTU
Pest/Herb* analyses detected the following: None

TABLE 5-71
GROUNDWATER MONITORING RESULTS FROM THE P-AREA BURNING/RUBBLE PIT WELLS

Well: PRP 1A, P-Area Burning/Rubble Pit

SRP Grid Coordinates	N 45349.8		ft (msl)
	E 63032.7	Screen Zone Elevation	262.9 - 232.9
Latitude	33.228896° N	Top of Casing Elevation	284.6
Longitude	81.588959° W	Casing Material	PVC

Parameter	Units	02/26/88	05/25/88	09/01/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	248.2	249	247.8	246.3
pH	pH	4.8	4.8	4.2	4.9
Conductivity	µmhos/cm	38	41	39	42
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	1.4	-	-	-
Nonvolatile Beta	pCi/L	1.9	-	-	-
Tritium	pCi/mL	37.6	-	25.7	-
Barium	mg/L	0.066	-	-	0.059
Chloride	mg/L	3.5	-	-	-
Copper	mg/L	0.019	-	-	-
Iron	mg/L	0.088	-	0.107	-
Lead	mg/L	0.030	-	0.025	-
Manganese	mg/L	0.005	-	0.004	-
Mercury	mg/L	<0.0002	-	-	-
Nickel	mg/L	0.012	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.18	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	2.00	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.010	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: PRP 3, P-Area Burning/Rubble Pit

SRP Grid Coordinates	N 45200.7		ft (msl)
	E 63165.5	Screen Zone Elevation	258.6 - 228.6
Latitude	33.228783° N	Top of Casing Elevation	280.7
Longitude	81.588320° W	Casing Material	PVC

Parameter	Units	02/26/88	05/25/88	09/01/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	253.2	255.1	252.8	250.5
pH	pH	4.9	4.8	4.5	4.9
Conductivity	µmhos/cm	88	89	92	93
Alkalinity	mg/L	2	0	0	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Tritium	pCi/mL	16.4	-	16.2	-
Barium	mg/L	0.090	-	-	0.102
Chloride	mg/L	8.1	-	-	-
Copper	mg/L	<0.004	-	-	-
Iron	mg/L	0.080	-	0.280	-
Lead	mg/L	0.079	-	0.036	-
Manganese	mg/L	0.073	-	0.069	-
Mercury	mg/L	0.0002	-	-	-
Nickel	mg/L	0.039	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	10.3	-	-	-
Sulfate	mg/L	5.7	-	-	-
Tot. Org. Carbon	mg/L	2.10	-	-	-
Tot. Org. Halogens	mg/L	0.426	-	0.496	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	0.045	-	0.041	-
Trichloroethylene	mg/L	0.095	-	0.062	-
1,1,1-TCE	mg/L	0.428	-	0.408	-

Well: PRP 2, P-Area Burning/Rubble Pit

SRP Grid Coordinates	N 45389.5		ft (msl)
	E 63229.0	Screen Zone Elevation	264.1 - 234.1
Latitude	33.229304° N	Top of Casing Elevation	286.4
Longitude	81.588519° W	Casing Material	PVC

Parameter	Units	02/26/88	05/25/88	09/01/88	12/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	252.9	253.8	252.2	250.5
pH	pH	4.9	4.9	4.5	5.0
Conductivity	µmhos/cm	26	25	26	29
Alkalinity	mg/L	2	0	1	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Tritium	pCi/mL	9.30	-	5.79	-
Barium	mg/L	0.018	-	-	0.020
Chloride	mg/L	2.7	-	-	-
Copper	mg/L	0.013	-	-	-
Iron	mg/L	0.065	-	0.057	-
Lead	mg/L	0.011	-	0.011	-
Manganese	mg/L	0.004	-	0.004	-
Mercury	mg/L	<0.0002	-	-	-
Nickel	mg/L	0.007	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	1.71	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	1.60	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.011	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: PRP 4, P-Area Burning/Rubble Pit

SRP Grid Coordinates	N 45270.9		ft (msl)
	E 63341.0	Screen Zone Elevation	262.9 - 232.9
Latitude	33.229224° N	Top of Casing Elevation	284.7
Longitude	81.587994° W	Casing Material	PVC

Parameter	Units	02/26/88	05/25/88	09/01/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	256.6	256.9	255.7	254.4
pH	pH	4.6	4.7	4.5	4.9
Conductivity	µmhos/cm	31	34	33	34
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	<3.0	-	-	-
Nonvolatile Beta	pCi/L	3.0	-	-	-
Tritium	pCi/mL	8.20	-	6.71	-
Barium	mg/L	0.023	-	-	0.022
Chloride	mg/L	3.0	-	-	-
Copper	mg/L	<0.004	-	-	-
Iron	mg/L	0.019	-	0.103	-
Lead	mg/L	<0.006	-	0.009	-
Manganese	mg/L	0.003	-	0.003	-
Mercury	mg/L	<0.0002	-	-	-
Nickel	mg/L	<0.004	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.08	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	0.006	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

TABLE 5-72
GROUNDWATER MONITORING RESULTS FROM THE P-AREA COAL PILE RUNOFF CONTAINMENT BASIN WELLS

Well: PCB 1A, P-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 41988.2 E 65070.6	Screen Zone Elevation	ft (msl) 293.5 - 263.5
Latitude	33.224779° N	Top of Casing Elevation	305.5
Longitude	81.577074° W	Casing Material	PVC

Parameter	Units	02/29/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	284	283.7	283.2	279.3
pH	pH	4.8	4.3	4.5	4.8
Conductivity	µmhos/cm	150	210	90	96
Alkalinity	mg/L	0	0	0	1
Nonvolatile Beta	pCi/L	2.3	-	-	-
Total Radium	pCi/L	< 1.0	-	< 1.0	-
Tritium	pCi/mL	20.0	-	8.39	-
Beryllium	mg/L	< 0.005	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	8.84	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	< 0.004	0.004	< 0.004	-
Fluoride	mg/L	0.16	-	-	-
Iron	mg/L	0.824	0.955	1.30	-
Lead	mg/L	0.019	-	0.008	-
Magnesium	mg/L	0.002	-	-	-
Manganese	mg/L	0.423	-	0.280	-
Nickel	mg/L	0.021	-	< 0.004	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Sodium	mg/L	7.38	-	-	-
Zinc	mg/L	0.054	0.087	-	-
Sulfate	mg/L	42.0	48.9	16.2	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	1.00	-	< 1.000	-
Tot. Org. Halogens	mg/L	0.010	-	0.008	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: PCB 2A, P-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 41821.4 E 64891.4	Screen Zone Elevation	ft (msl) 287.8 - 257.8
Latitude	33.224117° N	Top of Casing Elevation	304.9
Longitude	81.577222° W	Casing Material	PVC

Parameter	Units	02/29/88	06/14/88	09/24/88	12/03/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	282.4	282	281.3	278.2
pH	pH	4.8	5.1	4.7	4.7
Conductivity	µmhos/cm	51	48	53	63
Alkalinity	mg/L	4	4	1	0
Nonvolatile Beta	pCi/L	< 2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	0.3	-
Tritium	pCi/mL	18.4	-	8.35	-
Beryllium	mg/L	< 0.005	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	0.405	-	-	-
Chromium	mg/L	< 0.004	-	< 0.004	-
Copper	mg/L	< 0.004	0.415	0.006	-
Fluoride	mg/L	< 0.10	-	-	-
Iron	mg/L	0.620	2.95	0.156	-
Lead	mg/L	< 0.006	-	0.009	-
Magnesium	mg/L	0.069	-	-	-
Manganese	mg/L	0.010	-	0.009	-
Nickel	mg/L	0.005	-	< 0.004	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Sodium	mg/L	8.26	-	-	-
Zinc	mg/L	0.022	2.62	-	-
Sulfate	mg/L	< 5.0	< 5.0	8.9	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	1.20	-
Tot. Org. Halogens	mg/L	< 0.005	-	< 0.005	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: PCB 3A, P-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 42036.0 E 64706.3	Screen Zone Elevation	ft (msl) 292.7 - 262.7
Latitude	33.224291° N	Top of Casing Elevation	304.6
Longitude	81.578126° W	Casing Material	PVC

Parameter	Units	02/29/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	282.9	282.9	281.7	277.9
pH	pH	3.8	3.7	3.3	3.3
Conductivity	µmhos/cm	685	1310	1610	1435
Alkalinity	mg/L	0	0	0	0
Nonvolatile Beta	pCi/L	6.5	-	-	-
Total Radium	pCi/L	< 1.0	-	2.0	-
Tritium	pCi/mL	11.7	-	3.19	-
Beryllium	mg/L	0.008	-	-	-
Cadmium	mg/L	0.008	-	0.016	-
Calcium	mg/L	36.4	-	-	-
Chromium	mg/L	0.018	-	0.040	-
Copper	mg/L	0.204	0.125	0.522	-
Fluoride	mg/L	0.76	-	-	-
Iron	mg/L	0.374	0.221	2.75	-
Lead	mg/L	0.020	-	0.036	-
Magnesium	mg/L	0.018	-	-	-
Manganese	mg/L	1.33	-	3.63	-
Nickel	mg/L	0.193	-	0.496	-
Selenium	mg/L	< 0.002	-	0.003	-
Sodium	mg/L	5.46	-	-	-
Zinc	mg/L	0.678	0.063	-	-
Sulfate	mg/L	408	1060	1440	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	2.90	-
Tot. Org. Halogens	mg/L	0.005	-	0.217	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: PCB 4A, P-Area Coal Pile Runoff Containment Basin

SRP Grid Coordinates	N 42171.0 E 64901.4	Screen Zone Elevation	ft (msl) 292.9 - 262.9
Latitude	33.224907° N	Top of Casing Elevation	309.6
Longitude	81.577874° W	Casing Material	PVC

Parameter	Units	02/29/88	06/14/88	09/24/88	12/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	282.3	281.9	281.3	278.6
pH	pH	4.2	4.3	3.7	3.9
Conductivity	µmhos/cm	77	93	250	170
Alkalinity	mg/L	0	0	0	0
Nonvolatile Beta	pCi/L	2.4	-	-	-
Total Radium	pCi/L	< 1.0	-	2.1	-
Tritium	pCi/mL	24.6	-	13.1	-
Beryllium	mg/L	< 0.005	-	-	-
Cadmium	mg/L	< 0.002	-	< 0.002	-
Calcium	mg/L	1.35	-	-	-
Chromium	mg/L	< 0.004	-	0.006	-
Copper	mg/L	0.082	0.128	0.031	-
Fluoride	mg/L	0.12	-	-	-
Iron	mg/L	0.185	0.569	0.216	-
Lead	mg/L	0.052	-	0.073	-
Magnesium	mg/L	0.002	-	-	-
Manganese	mg/L	0.070	-	0.502	-
Nickel	mg/L	0.018	-	0.061	-
Selenium	mg/L	< 0.002	-	< 0.002	-
Sodium	mg/L	6.58	-	-	-
Zinc	mg/L	0.034	0.082	-	-
Sulfate	mg/L	13.0	21.9	80.0	-
Phenols	mg/L	< 0.005	-	-	-
Tot. Org. Carbon	mg/L	< 1.000	-	1.20	-
Tot. Org. Halogens	mg/L	< 0.005	-	0.235	-
Carbon Tetrachloride	mg/L	-	-	-	< 0.005
Chloroform	mg/L	-	-	-	< 0.005
Tetrachloroethylene	mg/L	-	-	-	< 0.005
Trichloroethylene	mg/L	-	-	-	< 0.005
1,1,1-TCE	mg/L	-	-	-	< 0.005

Other Analyses
(Gamma PHA Analytes: Table 5-91)

PCB 4A 12/04/88
GCMS Scan detected the following: None

TABLE 5-73
GROUNDWATER MONITORING RESULTS FROM THE P-AREA DISASSEMBLY BASIN WELLS

Well: PDB 2, P-Area Disassembly Basin

SRP Grid	N 43513.1		ft (msl)
Coordinates	E 64743.1	Screen Zone Elevation	268.7 - 247.7
Latitude	33.227619° N	Top of Casing Elevation	319.5
Longitude	81.580893° W	Casing Material	PVC

Parameter	Units	03/16/88	06/16/88	09/13/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	278.6	278.1	277.7	276.5
pH	pH	5.8	5.2	5.1	4.9
Conductivity	µmhos/cm	62	70	67	72
Alkalinity	mg/L	7	2	4	4
Gross Alpha	pCi/L	1.1	-	1.7	-
Nonvolatile Beta	pCi/L	2.0	-	4.2	-
Tritium	pCi/mL	207	-	193	-
Calcium	mg/L	6.77	-	-	-
Lead	mg/L	0.028	-	0.024	-
Manganese	mg/L	0.013	-	-	-
Sodium	mg/L	3.67	-	-	-

Well: PDB 3, P-Area Disassembly Basin

SRP Grid	N 43542.2		ft (msl)
Coordinates	E 64938.2	Screen Zone Elevation	269.1 - 248.1
Latitude	33.228002° N	Top of Casing Elevation	319.5
Longitude	81.580436° W	Casing Material	PVC

Parameter	Units	03/16/88	06/16/88	09/13/88	12/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	278.7	278.4	278	276.6
pH	pH	5.2	5.2	5.0	4.7
Conductivity	µmhos/cm	61	59	63	56
Alkalinity	mg/L	5	2	2	0
Gross Alpha	pCi/L	1.2	-	1.3	-
Nonvolatile Beta	pCi/L	< 2.0	-	1.4	-
Tritium	pCi/mL	498	-	332	-
Calcium	mg/L	2.09	-	-	-
Lead	mg/L	0.072	-	0.061	-
Manganese	mg/L	0.019	-	-	-
Sodium	mg/L	4.82	-	-	-

TABLE 5-74
GROUNDWATER MONITORING RESULTS FROM THE P-AREA REACTOR SEEPAGE BASINS WELLS

Well: PSB 1A, P-Area Reactor Seepage Basins

SRP Grid	N 43619.3		
Coordinates	E 64141.4	Screen Zone Elevation	ft (msl) 287.4 - 257.4
Latitude	33.226874° N	Top of Casing Elevation	329.1
Longitude	81.582683° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	276.6	276.1	275.5	274.6
pH	pH	7.3	7.0	6.3	6.8
Conductivity	µmhos/cm	69	40	57	52
Alkalinity	mg/L	20	16	13	9
Gross Alpha	pCi/L	0.6	0.3	0.5	0.1
Nonvolatile Beta	pCi/L	3.0	5.0	3.0	4.2
Tritium	pCi/mL	211000	267000	187000	224000
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.008	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Copper	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	< 0.006	-	0.010	-
Manganese	mg/L	0.003	-	0.004	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	4.23	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	8.90	-	1.60	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

Well: PSB 2A, P-Area Reactor Seepage Basins

SRP Grid	N 43612.4		
Coordinates	E 63916.5	Screen Zone Elevation	ft (msl) 287.2 - 257.2
Latitude	33.226492° N	Top of Casing Elevation	323.7
Longitude	81.583262° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	275.8	275.3	275	273.9
pH	pH	4.8	5.0	4.6	4.8
Conductivity	µmhos/cm	210	175	240	235
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	0.6	-	0.9	1.9
Nonvolatile Beta	pCi/L	9.6	-	4.5	6.4
Tritium	pCi/mL	148000	173000	119000	147000
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.150	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Copper	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.018	-	0.019	-
Manganese	mg/L	0.067	-	0.044	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	23.4	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	22.8	-	23.5	-
Tot. Org. Carbon	mg/L	1.30	-	-	-

Well: PSB 3A, P-Area Reactor Seepage Basins

SRP Grid	N 43599.8		
Coordinates	E 63590.4	Screen Zone Elevation	ft (msl) 286.5 - 256.5
Latitude	33.225932° N	Top of Casing Elevation	318.6
Longitude	81.584096° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	274.6	273.9	273.6	272.5
pH	pH	5.0	5.0	4.9	5.2
Conductivity	µmhos/cm	34	29	33	34
Alkalinity	mg/L	0	1	0	0
Gross Alpha	pCi/L	1.0	0.9	0.5	-
Nonvolatile Beta	pCi/L	2.7	2.5	1.3	-
Tritium	pCi/mL	130000	120000	65100	73300
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	0.017	0.012	0.012	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	-	1.26	0.806	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	-	0.249	0.223	-
Iron	mg/L	-	0.012	0.236	-
Lead	mg/L	0.056	0.048	0.033	-
Manganese	mg/L	0.021	0.015	0.016	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	< 0.004	< 0.004	-
Potassium	mg/L	-	0.722	0.722	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	1.93	1.81	1.77	-
Zinc	mg/L	-	0.065	0.051	-
Nitrate (as N)	mg/L	4.35	-	1.67	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

Well: PSB 4A, P-Area Reactor Seepage Basins

SRP Grid	N 43534.2		
Coordinates	E 63347.0	Screen Zone Elevation	ft (msl) 285.5 - 255.5
Latitude	33.225391° N	Top of Casing Elevation	312.5
Longitude	81.584610° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	273.5	272.8	272.2	271.3
pH	pH	4.9	4.6	4.6	5.1
Conductivity	µmhos/cm	46	32	40	40
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	0.4	0.7	1.2	1.5
Nonvolatile Beta	pCi/L	< 2.0	1.3	2.5	2.6
Tritium	pCi/mL	853	3720	6860	11000
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	0.022	0.023	0.023	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	-	0.744	0.654	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	-	0.492	0.462	-
Iron	mg/L	-	< 0.004	0.054	-
Lead	mg/L	0.078	0.074	0.042	-
Manganese	mg/L	0.006	0.003	0.005	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	< 0.004	0.005	-
Potassium	mg/L	-	< 0.500	0.646	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	4.73	4.26	3.93	-
Zinc	mg/L	-	0.069	0.057	-
Nitrate (as N)	mg/L	5.18	-	2.59	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

TABLE 5-74
GROUNDWATER MONITORING RESULTS FROM THE P-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: PSB 5A, P-Area Reactor Seepage Basins

SRP Grid Coordinates	N 43440.5 E 63606.5	Screen Zone Elevation	ft (msl) 292.3 - 262.3
Latitude	33.225606° N	Top of Casing Elevation	319.3
Longitude	81.583745° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	275.3	274.7	274.1	273.2
pH	pH	5.0	4.8	4.6	5.1
Conductivity	µmhos/cm	29	21	27	27
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	0.6	0.4	1.0	0.8
Nonvolatile Beta	pCi/L	< 2.0	< 0.1	1.2	0.1
Tritium	pCi/mL	37.4	43.2	27.1	35.2
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	0.007	0.006	0.007	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	-	2.14	0.809	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	-	0.205	0.248	-
Iron	mg/L	-	0.152	0.028	-
Lead	mg/L	0.088	0.076	0.068	-
Manganese	mg/L	0.003	0.003	0.003	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	< 0.004	< 0.004	-
Potassium	mg/L	-	< 0.500	2.31	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	1.66	1.70	1.75	-
Zinc	mg/L	-	0.032	0.018	-
Nitrate (as N)	mg/L	1.99	-	1.91	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

Well: PSB 7A, P-Area Reactor Seepage Basins

SRP Grid Coordinates	N 43553.3 E 64301.0	Screen Zone Elevation	ft (msl) 289.0 - 259.0
Latitude	33.226988° N	Top of Casing Elevation	330.7
Longitude	81.582135° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	277.1	276.5	276	275.2
pH	pH	6.2	6.3	6.0	6.2
Conductivity	µmhos/cm	78	52	71	68
Alkalinity	mg/L	15	15	14	13
Gross Alpha	pCi/L	0.4	0.8	0.3	0.7
Nonvolatile Beta	pCi/L	< 2.0	1.0	0.9	1.3
Tritium	pCi/mL	22000	17400	11000	14900
Arsenic	mg/L	-	-	-	-
Barium	mg/L	0.013	-	-	-
Cadmium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chromium	mg/L	< 0.004	-	-	-
Copper	mg/L	-	-	-	-
Iron	mg/L	-	-	-	-
Lead	mg/L	0.006	-	< 0.006	-
Manganese	mg/L	0.005	-	0.004	-
Mercury	mg/L	-	-	-	-
Nickel	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Selenium	mg/L	-	-	-	-
Silver	mg/L	-	-	-	-
Sodium	mg/L	7.42	-	-	-
Zinc	mg/L	-	-	-	-
Nitrate (as N)	mg/L	32.0	-	2.59	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

Well: PSB 6A, P-Area Reactor Seepage Basins

SRP Grid Coordinates	N 43429.0 E 63975.7	Screen Zone Elevation	ft (msl) 292.1 - 262.1
Latitude	33.226198° N	Top of Casing Elevation	324.2
Longitude	81.582764° W	Casing Material	PVC

Parameter	Units	03/08/88	06/01/88	09/18/88	11/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	277	276.4	275.8	275
pH	pH	4.8	5.4	5.2	5.2
Conductivity	µmhos/cm	57	40	59	60
Alkalinity	mg/L	1	0	0	0
Gross Alpha	pCi/L	0.2	0.1	0.1	0.6
Nonvolatile Beta	pCi/L	< 2.0	2.0	1.7	1.9
Tritium	pCi/mL	147000	95900	51700	75100
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	0.005	< 0.004	< 0.004	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	-	0.132	0.130	-
Chromium	mg/L	< 0.004	< 0.004	< 0.004	-
Copper	mg/L	-	0.034	0.025	-
Iron	mg/L	-	0.035	0.180	-
Lead	mg/L	0.018	0.014	0.010	-
Manganese	mg/L	0.004	< 0.002	< 0.002	-
Mercury	mg/L	-	< 0.0002	< 0.0002	-
Nickel	mg/L	-	< 0.004	< 0.004	-
Potassium	mg/L	-	< 0.500	< 0.500	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	9.81	8.68	8.23	-
Zinc	mg/L	-	0.009	< 0.004	-
Nitrate (as N)	mg/L	4.95	-	2.89	-
Tot. Org. Carbon	mg/L	< 1.000	-	-	-

Other Analyses

PSB 3A	06/01/88	
Turbidity		1.34 NTU
PSB 4A	06/01/88	
Turbidity		0.392 NTU
PSB 5A	06/01/88	
Turbidity		1.3 NTU
PSB 6A	06/01/88	
Turbidity		0.57 NTU

TABLE 5-75
MAXIMUM CONSTITUENT LEVELS AT THE RADIOACTIVE WASTE BURIAL GROUNDS

Constituent	DWS	Units	BGO	BG	MGA	MGC
Gross Alpha	15	pCi/L	**32.3**	**73.2**	9	**15.6**
Nonvolatile Beta	-	pCi/L	424	1460	2.3	30.7
Total Radium	5	pCi/L	**11**	-	-	-
Tritium	20	pCi/mL	**3060**	**2920000**	**125000**	**1840000**
Arsenic	0.05	mg/L	0.01	-	-	-
Barium	1	mg/L	0.685	-	-	-
Cadmium	0.01	mg/L	<0.002	-	-	-
Chromium	0.05	mg/L	0.018	-	-	-
Fluoride	4	mg/L	0.73	-	-	-
Lead	0.05	mg/L	**0.052**	-	-	-
Mercury	0.002	mg/L	0.0004	-	-	-
Selenium	0.01	mg/L	**0.019**	-	-	-
Silver	0.05	mg/L	**0.066**	-	-	-
Nitrate (as N)	10	mg/L	9.4	-	-	-
Carbon Tetrachloride	0.005	mg/L	<0.005	-	-	-
Chloroform	0.1*	mg/L	<0.005	-	-	-
Trichloroethylene	0.005	mg/L	**0.076**	-	-	-
1,1,1-Trichloroethane	0.2	mg/L	<0.005	-	-	-
Benzene	0.005	mg/L	**0.007**	-	-	
Chloroethene	0.002	mg/L	<0.01	-	-	-
1,2-Dichloroethane	0.005	mg/L	<0.005	-	-	-
1,1-Dichloroethylene	0.005	mg/L	<0.005	-	-	-
2,4-D	0.1	mg/L	0.014	-	-	-
Endrin	0.0002	mg/L	<0.0001	-	-	-
Lindane	0.004	mg/L	<0.00001	-	-	-
Methoxychlor	0.1	mg/L	<0.0005	-	-	-
Silvex	0.01	mg/L	<0.0001	-	-	-
Toxaphene	0.005	mg/L	<0.001	-	-	-

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

BGO = Radioactive Waste Burial Grounds Perimeter Wells
BG = Radioactive Waste Burial Grounds Wells
MGA = Monitoring Grid Wells for Radioactive Waste Burial Grounds (Series A)
MGC = Monitoring Grid Wells for Radioactive Waste Burial Grounds (Series C)

TABLE 5-75
MAXIMUM CONSTITUENT LEVELS AT THE RADIOACTIVE WASTE BURIAL GROUNDS, CONT'D.

Constituent	DWS	Units	MGE	MGG	MGI
Gross Alpha	15	pCi/L	5	**40**	**16**
Nonvolatile Beta	-	pCi/L	36.6	32.2	-
Tritium	20	pCi/mL	**2810000**	**3480000**	**345000**

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

MGE = Monitoring Grid Wells for Radioactive Waste Burial Grounds (Series E)
MGG = Monitoring Grid Wells for Radioactive Waste Burial Grounds (Series G)
MGI = Monitoring Grid Wells for Radioactive Waste Burial Grounds (Series I)

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS

Well: BG 10, Burial Grounds

SRP Grid	N 73055.6			ft (msl)
Coordinates	E 56106.8	Screen Zone Elevation		-
Latitude	33.278896° N	Top of Casing Elevation		256.4
Longitude	81.660969° W	Casing Material		Steel

Parameter	Units	01/16/88	04/12/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	230.4	230.3	233.1	231.8
pH	pH	4.6	3.7	4.2	3.7
Conductivity	µmhos/cm	195	-	557	468
Gross Alpha	pCi/L	-	-	16.7	36.2
Nonvolatile Beta	pCi/L	-	-	1460	857
Tritium	pCi/mL	33300	28300	11200	33700

Well: BG 26, Burial Grounds

SRP Grid	N 73958.4			ft (msl)
Coordinates	E 58809.7	Screen Zone Elevation		230.7 - 210.7
Latitude	33.285302° N	Top of Casing Elevation		295.7
Longitude	81.655605° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	240.2	238.5
pH	pH	7.9	6.4
Conductivity	µmhos/cm	48	-
Gross Alpha	pCi/L	0.6	1.0
Nonvolatile Beta	pCi/L	2.1	2.0
Tritium	pCi/mL	35.6	35.9

Well: BG 27, Burial Grounds

SRP Grid	N 74356.7			ft (msl)
Coordinates	E 58810.0	Screen Zone Elevation		254.4 - 234.4
Latitude	33.286184° N	Top of Casing Elevation		297.4
Longitude	81.656378° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	241.8	240.1
pH	pH	6.9	6.2
Conductivity	µmhos/cm	46	-
Gross Alpha	pCi/L	0.6	1.0
Nonvolatile Beta	pCi/L	1.5	0.1
Tritium	pCi/mL	34.8	33.7

Well: BG 28, Burial Grounds

SRP Grid	N 74752.0			ft (msl)
Coordinates	E 58810.2	Screen Zone Elevation		259.7 - 239.7
Latitude	33.287058° N	Top of Casing Elevation		295.7
Longitude	81.657145° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	247.7	246.5
pH	pH	6.8	5.9
Conductivity	µmhos/cm	39	-
Gross Alpha	pCi/L	6.0	0.6
Nonvolatile Beta	pCi/L	9.9	1.8
Tritium	pCi/mL	26.1	31.0

Well: BG 29, Burial Grounds

SRP Grid	N 75151.6			ft (msl)
Coordinates	E 58809.9	Screen Zone Elevation		251.6 - 231.6
Latitude	33.287942° N	Top of Casing Elevation		294.6
Longitude	81.657922° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	245.6	244.4
pH	pH	5.8	5.6
Conductivity	µmhos/cm	39	-
Gross Alpha	pCi/L	1.1	0.8
Nonvolatile Beta	pCi/L	1.8	0.3
Tritium	pCi/mL	51.7	39.9

Well: BG 30, Burial Grounds

SRP Grid	N 75550.1			ft (msl)
Coordinates	E 58809.1	Screen Zone Elevation		251.7 - 231.7
Latitude	33.288822° N	Top of Casing Elevation		288.7
Longitude	81.658698° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	237.6	237.5
pH	pH	5.0	5.9
Conductivity	µmhos/cm	42	-
Gross Alpha	pCi/L	1.1	2.2
Nonvolatile Beta	pCi/L	2.4	2.6
Tritium	pCi/mL	41.0	37.9

Well: BG 31, Burial Grounds

SRP Grid	N 75949.9			ft (msl)
Coordinates	E 58803.7	Screen Zone Elevation		243.3 - 223.3
Latitude	33.289697° N	Top of Casing Elevation		293.3
Longitude	81.659489° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	234.2	233.2
pH	pH	5.5	5.9
Conductivity	µmhos/cm	33	-
Gross Alpha	pCi/L	0.9	2.4
Nonvolatile Beta	pCi/L	3.3	1.7
Tritium	pCi/mL	829	1160

Well: BG 32, Burial Grounds

SRP Grid	N 76349.9			ft (msl)
Coordinates	E 58803.5	Screen Zone Elevation		246.9 - 226.9
Latitude	33.290582° N	Top of Casing Elevation		296.9
Longitude	81.660267° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	233.7	233.1
pH	pH	5.1	6.6
Conductivity	µmhos/cm	43	-
Gross Alpha	pCi/L	1.2	1.7
Nonvolatile Beta	pCi/L	4.2	3.9
Tritium	pCi/mL	22.3	20.2

Well: BG 33, Burial Grounds

SRP Grid	N 76479.9			ft (msl)
Coordinates	E 58526.0	Screen Zone Elevation		241.2 - 221.2
Latitude	33.290416° N	Top of Casing Elevation		291.2
Longitude	81.661250° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	233.2	232.6
pH	pH	4.9	6.1
Conductivity	µmhos/cm	47	-
Gross Alpha	pCi/L	1.9	1.8
Nonvolatile Beta	pCi/L	3.7	2.1
Tritium	pCi/mL	18.8	30.1

Well: BG 34, Burial Grounds

SRP Grid	N 76493.6			ft (msl)
Coordinates	E 58107.4	Screen Zone Elevation		237.4 - 217.4
Latitude	33.289764° N	Top of Casing Elevation		282.4
Longitude	81.662379° W	Casing Material		Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	233.3	232.4
pH	pH	5.0	6.2
Conductivity	µmhos/cm	34	-
Gross Alpha	pCi/L	0.9	0.8
Nonvolatile Beta	pCi/L	2.4	2.1
Tritium	pCi/mL	1780	1410

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BG 35, Burial Grounds

SRP Grid	N 76495.3		ft (msl)
Coordinates	E 57726.4	Screen Zone Elevation	248.0 - 228.0
Latitude	33.289146° N	Top of Casing Elevation	283.0
Longitude	81.663386° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	233.1	232.7
pH	pH	5.1	5.4
Conductivity	µmhos/cm	35	-
Gross Alpha	pCi/L	1.0	0.4
Nonvolatile Beta	pCi/L	1.9	1.4
Tritium	pCi/mL	66.4	58.9

Well: BG 36, Burial Grounds

SRP Grid	N 76747.6		ft (msl)
Coordinates	E 57620.3	Screen Zone Elevation	243.3 - 223.3
Latitude	33.289531° N	Top of Casing Elevation	281.3
Longitude	81.664155° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	233.1	231.9
pH	pH	5.4	5.7
Conductivity	µmhos/cm	32	-
Gross Alpha	pCi/L	0.7	0.8
Nonvolatile Beta	pCi/L	0.7	1.4
Tritium	pCi/mL	19.1	16.2

Well: BG 37, Burial Grounds

SRP Grid	N 76804.9		ft (msl)
Coordinates	E 57251.0	Screen Zone Elevation	247.8 - 227.8
Latitude	33.289055° N	Top of Casing Elevation	292.8
Longitude	81.665239° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	232.3	233.4
pH	pH	4.9	5.8
Conductivity	µmhos/cm	29	-
Gross Alpha	pCi/L	3.2	1.3
Nonvolatile Beta	pCi/L	3.3	1.6
Tritium	pCi/mL	22.0	21.0

Well: BG 38, Burial Grounds

SRP Grid	N 76805.0		ft (msl)
Coordinates	E 56851.1	Screen Zone Elevation	245.9 - 225.9
Latitude	33.288403° N	Top of Casing Elevation	301.9
Longitude	81.666292° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	232.7	231.9
pH	pH	4.5	5.0
Conductivity	µmhos/cm	60	-
Gross Alpha	pCi/L	1.5	2.6
Nonvolatile Beta	pCi/L	3.4	2.0
Tritium	pCi/mL	41.3	38.4

Well: BG 39, Burial Grounds

SRP Grid	N 76804.9		ft (msl)
Coordinates	E 56451.3	Screen Zone Elevation	246.0 - 226.0
Latitude	33.287750° N	Top of Casing Elevation	309.0
Longitude	81.667345° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	232.2	231.2
pH	pH	5.2	5.6
Conductivity	µmhos/cm	77	-
Gross Alpha	pCi/L	1.5	0.8
Nonvolatile Beta	pCi/L	3.0	2.3
Tritium	pCi/mL	15.9	17.8

Well: BG 40, Burial Grounds

SRP Grid	N 76805.1		ft (msl)
Coordinates	E 56051.0	Screen Zone Elevation	241.9 - 221.9
Latitude	33.287097° N	Top of Casing Elevation	314.9
Longitude	81.668399° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	231.9	230.9
pH	pH	5.8	6.1
Conductivity	µmhos/cm	19	-
Gross Alpha	pCi/L	73.2	0.9
Nonvolatile Beta	pCi/L	100	1.5
Tritium	pCi/mL	233	3.96

Well: BG 41, Burial Grounds

SRP Grid	N 76576.3		ft (msl)
Coordinates	E 55868.8	Screen Zone Elevation	241.0 - 221.0
Latitude	33.286294° N	Top of Casing Elevation	306.0
Longitude	81.668435° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	231	230.5
pH	pH	5.8	6.4
Conductivity	µmhos/cm	26	-
Gross Alpha	pCi/L	0.7	1.2
Nonvolatile Beta	pCi/L	3.8	1.3
Tritium	pCi/mL	22.3	18.8

Well: BG 42, Burial Grounds

SRP Grid	N 76178.8		ft (msl)
Coordinates	E 55869.5	Screen Zone Elevation	237.1 - 217.1
Latitude	33.285416° N	Top of Casing Elevation	300.1
Longitude	81.667660° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	231.3	230.1
pH	pH	5.9	5.9
Conductivity	µmhos/cm	53	-
Gross Alpha	pCi/L	1.6	1.2
Nonvolatile Beta	pCi/L	4.5	2.4
Tritium	pCi/mL	-	370

Well: BG 43, Burial Grounds

SRP Grid	N 75852.5		ft (msl)
Coordinates	E 56039.4	Screen Zone Elevation	242.9 - 222.9
Latitude	33.284972° N	Top of Casing Elevation	303.9
Longitude	81.666579° W	Casing Material	Steel

Parameter	Units	02/23/88	05/03/88
Sampling Method	NA	Bail	Bail
Water Elevation	ft	230.9	230.1
pH	pH	6.9	6.9
Conductivity	µmhos/cm	18	220
Gross Alpha	pCi/L	0.8	0.4
Nonvolatile Beta	pCi/L	1.7	0.4
Tritium	pCi/mL	42.0	55.7

Well: BG 51, Burial Grounds

SRP Grid	N 73864.3		ft (msl)
Coordinates	E 58599.3	Screen Zone Elevation	241.2 - 221.2
Latitude	33.284751° N	Top of Casing Elevation	292.2
Longitude	81.655976° W	Casing Material	Steel

Parameter	Units	02/23/88
Sampling Method	NA	Bail
Water Elevation	ft	240.7
pH	pH	8.1
Conductivity	µmhos/cm	29
Gross Alpha	pCi/L	0.2
Nonvolatile Beta	pCi/L	1.7
Tritium	pCi/mL	54.8

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BG 52, Burial Grounds

SRP Grid	N 75910.4		ft (msl)
Coordinates	E 55524.3	Screen Zone Elevation	243.8 - 223.8
Latitude	33.284259° N	Top of Casing Elevation	289.8
Longitude	81.668048° W	Casing Material	Steel

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	229.8	228.9	228.6	228.5
pH	pH	5.2	6.8	7.7	5.3
Conductivity	µmhos/cm	25	130	36	67
Gross Alpha	pCi/L	1.9	1.4	1.1	4.0
Nonvolatile Beta	pCi/L	3.0	2.2	3.1	2.8
Tritium	pCi/mL	42.2	53.1	24.1	42.3

Well: BG 53, Burial Grounds

SRP Grid	N 76157.3		ft (msl)
Coordinates	E 55073.9	Screen Zone Elevation	234.7 - 214.7
Latitude	33.284070° N	Top of Casing Elevation	285.7
Longitude	81.669714° W	Casing Material	Steel

Parameter	Units	01/18/88	04/12/88	07/25/88	10/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	229.7	229.1	228.2	228.7
pH	pH	8.1	4.2	5.3	5.6
Conductivity	µmhos/cm	53	-	24	25
Gross Alpha	pCi/L	0.2	0.5	0.5	-
Nonvolatile Beta	pCi/L	2.2	1.1	1.6	-
Tritium	pCi/mL	18.1	20.7	16.1	9.35

Well: BG 54, Burial Grounds

SRP Grid	N 75837.9		ft (msl)
Coordinates	E 54830.3	Screen Zone Elevation	235.2 - 215.2
Latitude	33.282966° N	Top of Casing Elevation	277.2
Longitude	81.669735° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	228.6	227.5	226.8	227
pH	pH	6.2	6.1	5.8	6.5
Conductivity	µmhos/cm	31	-	32	93
Gross Alpha	pCi/L	0.4	0.2	0.7	-
Nonvolatile Beta	pCi/L	2.1	1.3	2.2	-
Tritium	pCi/mL	20.0	35.1	17.7	17.8

Well: BG 55, Burial Grounds

SRP Grid	N 75525.3		ft (msl)
Coordinates	E 54590.5	Screen Zone Elevation	234.9 - 214.9
Latitude	33.281884° N	Top of Casing Elevation	276.9
Longitude	81.669759° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	227	225.9	225.2	225.7
pH	pH	5.2	5.6	5.1	5.6
Conductivity	µmhos/cm	30	-	28	33
Gross Alpha	pCi/L	1.0	2.3	1.9	-
Nonvolatile Beta	pCi/L	3.1	1.3	3.0	-
Tritium	pCi/mL	2060	2650	2290	2240

Well: BG 56, Burial Grounds

SRP Grid	N 75206.5		ft (msl)
Coordinates	E 54481.9	Screen Zone Elevation	230.9 - 210.9
Latitude	33.281001° N	Top of Casing Elevation	274.9
Longitude	81.669425° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	225.1	224.7	253.9	224.5
pH	pH	5.4	5.7	5.5	5.5
Conductivity	µmhos/cm	87	-	106	105
Gross Alpha	pCi/L	3.0	2.1	1.3	1.6
Nonvolatile Beta	pCi/L	2.6	2.5	1.8	2.8
Tritium	pCi/mL	47400	61000	57700	61100

Well: BG 57, Burial Grounds

SRP Grid	N 75000.4		ft (msl)
Coordinates	E 54820.0	Screen Zone Elevation	234.6 - 214.6
Latitude	33.281097° N	Top of Casing Elevation	272.6
Longitude	81.668135° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	226.4	225	225.1	225.2
pH	pH	5.7	6.4	5.6	6.0
Conductivity	µmhos/cm	28	-	30	37
Gross Alpha	pCi/L	1.0	1.1	0.6	-
Nonvolatile Beta	pCi/L	1.6	2.2	0.7	-
Tritium	pCi/mL	251	510	543	849

Well: BG 58, Burial Grounds

SRP Grid	N 74790.9		ft (msl)
Coordinates	E 55162.3	Screen Zone Elevation	238.2 - 218.2
Latitude	33.281192° N	Top of Casing Elevation	278.2
Longitude	81.666826° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	227.4	226.6	226	225.7
pH	pH	5.6	6.1	5.1	6.1
Conductivity	µmhos/cm	58	-	47	73
Gross Alpha	pCi/L	1.1	1.3	1.0	-
Nonvolatile Beta	pCi/L	2.0	1.7	30.4	-
Tritium	pCi/mL	30.0	26.8	24.0	24.2

Well: BG 59, Burial Grounds

SRP Grid	N 74593.4		ft (msl)
Coordinates	E 55508.3	Screen Zone Elevation	237.7 - 217.7
Latitude	33.281320° N	Top of Casing Elevation	282.7
Longitude	81.665532° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	230.3	228.7	228.1	227.7
pH	pH	5.7	6.9	6.7	6.9
Conductivity	µmhos/cm	63	-	44	46
Gross Alpha	pCi/L	0.5	1.2	0.0	-
Nonvolatile Beta	pCi/L	1.6	0.9	1.9	-
Tritium	pCi/mL	51.6	44.0	32.6	27.4

Well: BG 60, Burial Grounds

SRP Grid	N 74386.3		ft (msl)
Coordinates	E 55850.3	Screen Zone Elevation	235.5 - 215.5
Latitude	33.281420° N	Top of Casing Elevation	275.5
Longitude	81.664229° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	230.5	229.5	229.2	228.5
pH	pH	6.7	6.5	5.3	5.7
Conductivity	µmhos/cm	40	-	41	47
Gross Alpha	pCi/L	0.8	0.8	1.1	-
Nonvolatile Beta	pCi/L	0.5	1.0	24.5	-
Tritium	pCi/mL	28.2	27.2	20.7	30.2

Well: BG 61, Burial Grounds

SRP Grid	N 74075.4		ft (msl)
Coordinates	E 56360.8	Screen Zone Elevation	245.0 - 225.0
Latitude	33.281566° N	Top of Casing Elevation	275.0
Longitude	81.662281° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	233.4	232.2	231.3	230.8
pH	pH	6.3	6.2	5.8	5.8
Conductivity	µmhos/cm	38	-	39	47
Gross Alpha	pCi/L	0.5	0.4	0.7	-
Nonvolatile Beta	pCi/L	1.4	1.1	1.6	-
Tritium	pCi/mL	29.6	19.8	25.0	25.3

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BG 62, Burial Grounds

SRP Grid	N 73971.6		ft (msl)
Coordinates	E 56530.9	Screen Zone Elevation	242.5 - 222.5
Latitude	33.281613° N	Top of Casing Elevation	272.5
Longitude	81.661631° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	234.9	234.1	233.3	232.7
pH	pH	6.4	6.6	5.5	5.9
Conductivity	µmhos/cm	30	-	32	38
Gross Alpha	pCi/L	0.7	0.6	1.4	-
Nonvolatile Beta	pCi/L	3.4	1.3	1.5	-
Tritium	pCi/mL	40.0	25.0	29.6	33.6

Well: BG 63, Burial Grounds

SRP Grid	N 73754.5		ft (msl)
Coordinates	E 56870.5	Screen Zone Elevation	244.2 - 224.2
Latitude	33.281687° N	Top of Casing Elevation	274.2
Longitude	81.660315° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	237.8	236.2	234.7	234.6
pH	pH	6.3	5.9	5.6	5.7
Conductivity	µmhos/cm	28	-	30	35
Gross Alpha	pCi/L	0.6	0.6	0.2	-
Nonvolatile Beta	pCi/L	1.5	0.7	1.8	-
Tritium	pCi/mL	38.2	38.5	29.5	34.5

Well: BG 64, Burial Grounds

SRP Grid	N 73547.2		ft (msl)
Coordinates	E 57212.4	Screen Zone Elevation	247.3 - 227.3
Latitude	33.281787° N	Top of Casing Elevation	285.3
Longitude	81.659012° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	240.3	238.7	238	238.1
pH	pH	6.0	5.9	5.7	6.1
Conductivity	µmhos/cm	29	-	31	37
Gross Alpha	pCi/L	0.7	0.9	0.4	-
Nonvolatile Beta	pCi/L	1.4	0.7	1.9	-
Tritium	pCi/mL	35.5	34.1	30.4	33.1

Well: BG 65, Burial Grounds

SRP Grid	N 73340.6		ft (msl)
Coordinates	E 57552.7	Screen Zone Elevation	250.9 - 230.9
Latitude	33.281885° N	Top of Casing Elevation	290.9
Longitude	81.657715° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.7	236.3	235.7	236.1
pH	pH	6.4	6.1	6.3	6.9
Conductivity	µmhos/cm	45	-	41	58
Gross Alpha	pCi/L	0.5	0.8	0.3	-
Nonvolatile Beta	pCi/L	1.0	0.9	1.2	-
Tritium	pCi/mL	39.6	39.2	28.4	23.4

Well: BG 66, Burial Grounds

SRP Grid	N 73585.0		ft (msl)
Coordinates	E 57805.0	Screen Zone Elevation	251.0 - 231.0
Latitude	33.282837° N	Top of Casing Elevation	296.0
Longitude	81.657525° W	Casing Material	Steel

Parameter	Units	01/16/88	04/09/88	07/23/88	10/08/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.6	237.4	235.7	235.5
pH	pH	8.9	5.9	6.2	6.8
Conductivity	µmhos/cm	65	-	44	57
Gross Alpha	pCi/L	0.6	0.4	0.6	-
Nonvolatile Beta	pCi/L	0.9	0.9	0.6	-
Tritium	pCi/mL	53.3	56.7	44.1	50.9

Well: BG 67, Burial Grounds

SRP Grid	N 73954.1		ft (msl)
Coordinates	E 57902.6	Screen Zone Elevation	244.7 - 224.7
Latitude	33.283813° N	Top of Casing Elevation	294.7
Longitude	81.657985° W	Casing Material	Steel

Parameter	Units	01/18/88	04/12/88	07/25/88	10/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.6	236.5	235.6	235.7
pH	pH	8.0	4.1	5.6	5.8
Conductivity	µmhos/cm	44	-	33	37
Gross Alpha	pCi/L	1.1	1.2	0.4	-
Nonvolatile Beta	pCi/L	1.7	2.8	1.8	-
Tritium	pCi/mL	132	109	75.6	76.5

Well: BG 68, Burial Grounds

SRP Grid	N 76553.6		ft (msl)
Coordinates	E 58251.5	Screen Zone Elevation	-
Latitude	33.290131° N	Top of Casing Elevation	285.2
Longitude	81.662116° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.2
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	463

Well: BG 69, Burial Grounds

SRP Grid	N 76553.8		ft (msl)
Coordinates	E 58226.2	Screen Zone Elevation	-
Latitude	33.290091° N	Top of Casing Elevation	284.3
Longitude	81.662183° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.5
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	21100

Well: BG 80, Burial Grounds

SRP Grid	N 76596.5		ft (msl)
Coordinates	E 57962.6	Screen Zone Elevation	-
Latitude	33.289755° N	Top of Casing Elevation	278.5
Longitude	81.662960° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	232.7
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	902

Well: BG 81, Burial Grounds

SRP Grid	N 76621.9		ft (msl)
Coordinates	E 57983.0	Screen Zone Elevation	-
Latitude	33.289844° N	Top of Casing Elevation	279.4
Longitude	81.662956° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	227.4
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	36.3

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BG 82, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76645.7 E 57957.7	Screen Zone Elevation	-
Latitude	33.289856° N	Top of Casing Elevation	278.1
Longitude	81.663069° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	232.2
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	23.9

Well: BG 83, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76671.6 E 57984.5	Screen Zone Elevation	-
Latitude	33.289957° N	Top of Casing Elevation	277.7
Longitude	81.663048° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	232.6
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	2290

Well: BG 84, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76695.9 E 57955.4	Screen Zone Elevation	-
Latitude	33.289963° N	Top of Casing Elevation	277.3
Longitude	81.663172° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.6
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	135

Well: BG 85, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76719.0 E 57928.9	Screen Zone Elevation	-
Latitude	33.289971° N	Top of Casing Elevation	276.8
Longitude	81.663287° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.5
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	27.4

Well: BG 86, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76721.4 E 57979.4	Screen Zone Elevation	-
Latitude	33.290059° N	Top of Casing Elevation	277.7
Longitude	81.663159° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.5
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	142

Well: BG 87, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76748.9 E 57951.9	Screen Zone Elevation	-
Latitude	33.290075° N	Top of Casing Elevation	277.4
Longitude	81.663285° W	Casing Material	Steel

Parameter	Units	02/12/88
Sampling Method	NA	Bail
Water Elevation	ft	232.3
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	30.3

Well: BG 98, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 77257.0 E 57092.0	Screen Zone Elevation	-
Latitude	33.289795° N	Top of Casing Elevation	280.5
Longitude	81.666536° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	224.5
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	20.4

Well: BG 99, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 76903.0 E 58404.0	Screen Zone Elevation	-
Latitude	33.291153° N	Top of Casing Elevation	285.9
Longitude	81.662393° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	232.5
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	15.1

Well: BG 100, Burial Grounds

			ft (msl)
SRP Grid Coordinates	N 77816.0 E 58899.0	Screen Zone Elevation	-
Latitude	33.293980° N	Top of Casing Elevation	273.3
Longitude	81.662863° W	Casing Material	Steel

Parameter	Units	01/29/88
Sampling Method	NA	Bail
Water Elevation	ft	224.8
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	20.0

Well: BG 106, Burial Grounds

			ft (msl)
SRP Grid Coordinates		Screen Zone Elevation	
Latitude		Top of Casing Elevation	
Longitude		Casing Material	

Parameter	Units	01/29/88
Sampling Method	NA	Bail
Water Elevation	ft	-
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	35.6

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BG 113, Burial Grounds

SRP Grid	N 77412.0		ft (msl)
Coordinates	E 59375.0	Screen Zone Elevation	-
Latitude	33.293863° N	Top of Casing Elevation	
Longitude	81.660825° W	Casing Material	Steel

Parameter	Units	01/29/88
Sampling Method	NA	Bail
Water Elevation	ft	-
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	14.6

Well: BG 115, Burial Grounds

SRP Grid	N 77217.0		ft (msl)
Coordinates	E 57890.0	Screen Zone Elevation	-
Latitude	33.291009° N	Top of Casing Elevation	
Longitude	81.664357° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	-
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	13.9

Well: BG 119, Burial Grounds

SRP Grid	N 77752.0		ft (msl)
Coordinates	E 57100.0	Screen Zone Elevation	-
Latitude	33.290903° N	Top of Casing Elevation	
Longitude	81.667477° W	Casing Material	Steel

Parameter	Units	03/07/88
Sampling Method	NA	Bail
Water Elevation	ft	-
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	22.7

Well: BG 124, Burial Grounds

SRP Grid	N 77257.0		ft (msl)
Coordinates	E 57090.0	Screen Zone Elevation	-
Latitude	33.289792° N	Top of Casing Elevation	
Longitude	81.666541° W	Casing Material	Steel

Parameter	Units	03/07/88
Water Elevation	ft	-
pH	pH	-
Conductivity	µmhos/cm	-
Gross Alpha	pCi/L	-
Nonvolatile Beta	pCi/L	-
Tritium	pCi/mL	13.7

Well: BGO 1D, Burial Grounds Perimeter Wells

SRP Grid	N 73737.9		ft (msl)
Coordinates	E 58779.3	Screen Zone Elevation	245.0 - 225.0
Latitude	33.284765° N	Top of Casing Elevation	295.1
Longitude	81.655257° W	Casing Material	PVC

Parameter	Units	03/22/88	05/24/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240	239.1	238.3	237.7
pH	pH	5.5	5.0	4.9	4.7
Conductivity	µmhos/cm	61	48	46	50
Alkalinity	mg/L	3	4	1	1
TDS	mg/L	46	39	54	44
Gross Alpha	pCi/L	3.8	2.0	2.1	1.6
Nonvolatile Beta	pCi/L	4.7	3.0	2.8	4.5
Total Radium	pCi/L	1.5	2.6	0.4	0.4
Tritium	pCi/mL	13.7	15.2	12.6	10.3
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.031	0.025	0.045	0.024
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.421	0.499	0.225	0.465
Chloride	mg/L	1.6	2.3	2.1	2.3
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	0.22	<0.10
Iron	mg/L	0.046	0.045	0.154	0.077
Lead	mg/L	<0.006	0.008	<0.006	<0.006
Magnesium	mg/L	0.182	0.181	0.160	0.158
Manganese	mg/L	0.113	0.103	0.130	0.086
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0003
Potassium	mg/L	<0.500	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	2.80	17.1	2.47	5.40
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	7.01	5.51	4.89	6.20
Total Phosphates	mg/L	0.470	0.050	<0.020	<0.020
Nitrate (as N)	mg/L	3.55	2.58	2.39	3.47
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot Org Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L		-	-	-
Chloroform	mg/L				
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 2D, Burial Grounds Perimeter Wells

SRP Grid	N 74552.9		ft (msl)
Coordinates	E 58809.7	Screen Zone Elevation	238.9 - 218.9
Latitude	33.286617° N	Top of Casing Elevation	296.9
Longitude	81.656760° W	Casing Material	PVC

Parameter	Units	03/21/88	05/17/88	07/27/88	11/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.9	239.6	238.8	238.2
pH	pH	4.7	4.5	4.2	4.3
Conductivity	µmhos/cm	43	45	45	46
Alkalinity	mg/L	0	0	1	0
TDS	mg/L	44	22	34	64
Gross Alpha	pCi/L	3.5	3.6	2.1	2.6
Nonvolatile Beta	pCi/L	4.9	4.2	11.7	2.9
Total Radium	pCi/L	1.0	1.0	0.5	1.2
Tritium	pCi/mL	21.7	20.9	18.2	21.9
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.022	0.020	0.022	0.023
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.34	2.72	1.59	1.12
Chloride	mg/L	2.4	2.8	2.7	3.7
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.060	0.034	0.044	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	1.05	1.04	0.925	1.02
Manganese	mg/L	0.004	0.003	0.007	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0029
Potassium	mg/L	<0.500	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.18	3.24	2.95	3.22
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.25	3.08	2.16	2.34
Total Phosphates	mg/L	0.030	0.030	<0.020	<0.020
Nitrate (as N)	mg/L	2.25	1.94	2.58	3.00
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	0.010	<0.005	0.086
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 3D, Burial Grounds Perimeter Wells

SRP Grid	N 75351.3		ft (msl)
Coordinates	E 58809.2	Screen Zone Elevation	247.6 - 227.6
Latitude	33.288382° N	Top of Casing Elevation	292.7
Longitude	81.658312° W	Casing Material	PVC

Parameter	Units	03/22/88	05/24/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	238.3	237.2	236.3	235.8
pH	pH	4.9	4.7	4.4	4.1
Conductivity	µmhos/cm	44	51	47	47
Alkalinity	mg/L	1	1	0	0
TDS	mg/L	38	30	39	60
Gross Alpha	pCi/L	6.5	3.7	2.7	3.2
Nonvolatile Beta	pCi/L	7.2	4.2	2.6	3.7
Total Radium	pCi/L	1.9	1.3	< 1.0	0.5
Tritium	pCi/mL	34.8	31.9	26.2	31.2
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.009	0.007	0.118	0.007
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.518	0.523	0.246	0.302
Chloride	mg/L	4.5	4.9	3.7	3.6
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	0.13	< 0.10
Iron	mg/L	0.040	0.078	16.9	0.028
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.431	0.400	0.418	0.302
Manganese	mg/L	0.018	0.018	0.062	0.018
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0003
Potassium	mg/L	< 0.500	< 0.500	0.706	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	2.99	2.82	2.70	5.80
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	4.58	4.23	4.43	4.65
Total Phosphates	mg/L	0.030	0.090	0.020	0.030
Nitrate (as N)	mg/L	1.79	1.85	2.27	2.44
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.009	< 0.005	0.007	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 5C, Burial Grounds Perimeter Wells

SRP Grid	N 76476.9		ft (msl)
Coordinates	E 58794.5	Screen Zone Elevation	193.2 - 183.2
Latitude	33.290848° N	Top of Casing Elevation	296.1
Longitude	81.660537° W	Casing Material	PVC

Parameter	Units	03/21/88	05/24/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	217.1	216.3	215.6	215.3
pH	pH	11.8	6.6	7.4	6.8
Conductivity	µmhos/cm	821	97	106	95
Alkalinity	mg/L	57	40	28	21
TDS	mg/L	96	71	109	92
Gross Alpha	pCi/L	< 3.0	1.6	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	12.7	4.2	< 2.0	2.5
Total Radium	pCi/L	< 1.0	< 1.0	0.4	< 1.0
Tritium	pCi/mL	41.5	11.2	21.4	8.88
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.100	0.040	0.025	0.016
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	19.1	10.2	9.65	7.81
Chloride	mg/L	1.8	2.0	2.3	2.4
Chromium	mg/L	0.011	0.008	0.008	0.008
Fluoride	mg/L	0.11	0.12	0.51	< 0.10
Iron	mg/L	0.061	0.039	0.031	0.028
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.317	0.423	0.330	0.341
Manganese	mg/L	< 0.002	0.010	0.014	0.010
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0004
Potassium	mg/L	< 0.500	1.26	1.09	0.916
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	6.32	6.68	6.55	13.8
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.13	2.58	2.11	2.35
Total Phosphates	mg/L	0.390	0.510	0.340	0.610
Nitrate (as N)	mg/L	0.51	0.72	0.69	0.80
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.013	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 4D, Burial Grounds Perimeter Wells

SRP Grid	N 76150.1		ft (msl)
Coordinates	E 58803.7	Screen Zone Elevation	240.6 - 220.6
Latitude	33.290140° N	Top of Casing Elevation	297.5
Longitude	81.659878° W	Casing Material	PVC

Parameter	Units	03/21/88	05/17/88	08/09/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.4	233	232.4	232.2
pH	pH	7.2	6.3	5.9	5.7
Conductivity	µmhos/cm	92	63	65	60
Alkalinity	mg/L	48	17	15	16
TDS	mg/L	60	40	44	62
Gross Alpha	pCi/L	< 3.0	< 3.0	1.0	1.3
Nonvolatile Beta	pCi/L	3.5	1.6	1.6	1.9
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	0.4
Tritium	pCi/mL	62.0	51.7	40.4	69.8
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.007	0.006	0.008	0.007
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	8.79	19.7	7.78	7.28
Chloride	mg/L	2.1	2.2	2.2	2.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	0.13	< 0.10
Iron	mg/L	0.028	0.028	0.058	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.166	0.198	0.200	0.195
Manganese	mg/L	0.008	0.016	0.011	0.016
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	< 0.0002
Potassium	mg/L	0.940	0.646	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.10	3.31	3.19	7.00
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	20.1	3.44	1.99	2.36
Total Phosphates	mg/L	0.040	0.020	< 0.020	< 0.020
Nitrate (as N)	mg/L	0.87	0.80	1.30	1.25
Sulfate	mg/L	11.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.014	0.015	< 0.005	0.021
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 5D, Burial Grounds Perimeter Wells

SRP Grid	N 76477.5		ft (msl)
Coordinates	E 58784.8	Screen Zone Elevation	239.3 - 219.3
Latitude	33.290833° N	Top of Casing Elevation	296.3
Longitude	81.660564° W	Casing Material	PVC

Parameter	Units	03/21/88	05/24/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.9	232.4	232	231.8
pH	pH	5.3	5.0	4.8	4.7
Conductivity	µmhos/cm	35	48	38	40
Alkalinity	mg/L	4	4	1	1
TDS	mg/L	38	53	32	2000
Gross Alpha	pCi/L	5.5	9.4	4.9	6.5
Nonvolatile Beta	pCi/L	4.5	6.0	4.5	4.3
Total Radium	pCi/L	1.2	2.9	0.8	3.7
Tritium	pCi/mL	129	114	93.1	113
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.028	0.045	0.043	0.049
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.95	3.56	1.08	1.02
Chloride	mg/L	3.2	3.5	3.5	3.3
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.048	0.271	0.151	0.094
Lead	mg/L	< 0.006	0.009	< 0.006	0.008
Magnesium	mg/L	0.683	1.04	1.00	1.07
Manganese	mg/L	0.102	0.073	0.053	0.044
Mercury	mg/L	< 0.0002	< 0.0002	0.0002	< 0.0002
Potassium	mg/L	4.24	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.53	3.74	3.35	3.50
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.36	2.50	2.53	2.55
Total Phosphates	mg/L	0.090	0.200	< 0.020	< 0.020
Nitrate (as N)	mg/L	1.47	1.67	1.73	1.84
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.012	-	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 6A, Burial Grounds Perimeter Wells

SRP Grid	N 76487.2			ft (msl)
Coordinates	E 58316.8	Screen Zone Elevation		117.5 - 107.5
Latitude	33.290091° N	Top of Casing Elevation		285.6
Longitude	81.661815° W	Casing Material		***

Parameter	Units	03/20/88	05/23/88	07/27/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	159.8	158.2	157.4	158.3
pH	pH	8.1	7.7	7.5	7.1
Conductivity	µmhos/cm	271	280	300	300
Alkalinity	mg/L	124	138	138	136
TDS	mg/L	16	227	224	236
Gross Alpha	pCi/L	<3.0	2.6	2.5	1.5
Nonvolatile Beta	pCi/L	3.7	3.3	3.0	3.7
Total Radium	pCi/L	<1.0	<1.0	<1.0	<1.0
Tritium	pCi/mL	<0.70	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	0.003	<0.002	<0.002
Barium	mg/L	0.029	0.035	0.036	0.038
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	43.9	52.7	51.3	50.5
Chloride	mg/L	2.5	2.6	2.7	3.1
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.11	<0.10	0.30	<0.10
Iron	mg/L	0.030	0.048	0.040	0.042
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.885	1.34	1.15	1.07
Manganese	mg/L	0.004	0.005	0.008	0.006
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	1.66	1.06	1.19	1.06
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	22.6	21.6	3.35	43.8
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.80	2.49	2.39	2.39
Total Phosphates	mg/L	0.110	0.170	0.090	0.120
Nitrate (as N)	mg/L	0.55	0.09	<0.05	0.06
Sulfate	mg/L	13.0	10.3	10.0	10.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.024	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 6D, Burial Grounds Perimeter Wells

SRP Grid	N 76487.3			ft (msl)
Coordinates	E 58297.1	Screen Zone Elevation		237.2 - 217.2
Latitude	33.290059° N	Top of Casing Elevation		285.5
Longitude	81.661867° W	Casing Material		PVC

Parameter	Units	03/20/88	05/24/88	07/28/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233	232.6	232	231.8
pH	pH	6.7	7.2	6.5	6.3
Conductivity	µmhos/cm	141	160	137	122
Alkalinity	mg/L	37	52	63	30
TDS	mg/L	58	89	85	170
Gross Alpha	pCi/L	2.2	8.4	1.4	3.2
Nonvolatile Beta	pCi/L	2.6	10.6	4.2	3.6
Total Radium	pCi/L	0.9	1.1	<1.0	<1.0
Tritium	pCi/mL	501	589	691	1850
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.015	0.023	0.032	0.021
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	8.85	18.3	18.2	13.0
Chloride	mg/L	2.9	3.0	2.8	2.8
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	0.10	0.18	<0.10
Iron	mg/L	0.012	0.010	<0.004	0.035
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.437	0.414	0.564	0.550
Manganese	mg/L	0.040	0.029	0.048	0.053
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Potassium	mg/L	1.48	3.44	4.16	1.30
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.78	3.63	3.34	3.85
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	2.64	5.08	4.63	2.33
Total Phosphates	mg/L	0.120	0.150	<0.020	<0.020
Nitrate (as N)	mg/L	<0.05	0.31	0.40	0.64
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	-	<0.005	0.009
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 6C, Burial Grounds Perimeter Wells

SRP Grid	N 76487.1			ft (msl)
Coordinates	E 58307.0	Screen Zone Elevation		168.0 - 158.0
Latitude	33.290075° N	Top of Casing Elevation		285.6
Longitude	81.661841° W	Casing Material		PVC

Parameter	Units	03/20/88	05/23/88	07/27/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.4	219.8	219.4	219
pH	pH	8.0	7.9	7.8	7.3
Conductivity	µmhos/cm	155	145	148	148
Alkalinity	mg/L	68	70	70	74
TDS	mg/L	108	99	105	152
Gross Alpha	pCi/L	<3.0	<3.0	<3.0	1.0
Nonvolatile Beta	pCi/L	<2.0	<2.0	1.4	0.9
Total Radium	pCi/L	<1.0	0.5	<1.0	<1.0
Tritium	pCi/mL	3060	2610	2210	2420
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.016	0.015	0.014	0.016
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	24.8	1.87	22.0	28.7
Chloride	mg/L	1.9	2.0	4.8	2.4
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	0.15	<0.10
Iron	mg/L	0.029	0.034	0.088	<0.020
Lead	mg/L	<0.006	0.010	<0.006	<0.006
Magnesium	mg/L	0.502	0.507	0.572	0.485
Manganese	mg/L	<0.002	0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	0.0002	<0.0002	<0.0002
Potassium	mg/L	0.624	0.585	0.626	0.739
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.66	4.69	4.71	4.95
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	4.11	2.95	3.58	3.14
Total Phosphates	mg/L	0.080	0.100	0.090	0.110
Nitrate (as N)	mg/L	0.95	0.80	0.99	1.11
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	1.90	<1.000
Tot. Org. Halogens	mg/L	0.008	<0.005	0.096	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 7D, Burial Grounds Perimeter Wells

SRP Grid	N 76494.5			ft (msl)
Coordinates	E 57917.2	Screen Zone Elevation		235.5 - 215.5
Latitude	33.289455° N	Top of Casing Elevation		282.4
Longitude	81.662882° W	Casing Material		PVC

Parameter	Units	03/20/88	05/03/88	07/27/88	11/20/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.7	232.4	231.9	231.4
pH	pH	5.3	4.8	4.8	4.9
Conductivity	µmhos/cm	36	35	33	33
Alkalinity	mg/L	3	2	3	0
TDS	mg/L	38	42	28	51
Gross Alpha	pCi/L	3.1	4.9	2.2	3.2
Nonvolatile Beta	pCi/L	3.5	4.0	1.5	1.9
Total Radium	pCi/L	1.3	1.1	0.9	0.9
Tritium	pCi/mL	40.6	36.9	29.8	47.9
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.012	0.011	0.009
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.985	1.22	1.29	0.777
Chloride	mg/L	2.8	2.8	2.9	3.1
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.022	0.028	0.030	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.446	0.627	0.634	0.496
Manganese	mg/L	0.020	0.023	0.022	0.017
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	0.585	<0.500	-	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.22	4.15	4.08	3.78
Silver	mg/L	<0.0020	0.0020	<0.0020	<0.0020
Sodium	mg/L	1.87	2.57	2.31	2.23
Total Phosphates	mg/L	0.090	0.020	<0.020	0.030
Nitrate (as N)	mg/L	1.34	1.17	1.34	1.59
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.039	0.067	0.083	0.072
Carbon Tetrachloride	mg/L	-	-	-	<0.005
Chloroform	mg/L	-	-	-	<0.005
Tetrachloroethylene	mg/L	-	-	-	0.017
Trichloroethylene	mg/L	-	-	-	0.076
1,1,1-TCE	mg/L	-	-	-	<0.005

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 8A, Burial Grounds Perimeter Wells

SRP Grid	N 76569.0			ft (msl)
Coordinates	E 57618.3	Screen Zone Elevation		115.3 - 105.3
Latitude	33.289132° N	Top of Casing Elevation		283.2
Longitude	81.663814° W	Casing Material		***

Parameter	Units	03/20/88	05/22/88	07/28/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	158.8	159.1	156.3	161.4
pH	pH	12.7	11.1	11.1	11.8
Conductivity	µmhos/cm	9760	695	540	4100
Alkalinity	mg/L	500	172	133	105
TDS	mg/L	548	290	820	224
Gross Alpha	pCi/L	32.3	2.2	3.7	<3.0
Nonvolatile Beta	pCi/L	357	46.3	17.2	132
Total Radium	pCi/L	11.0	1.0	2.8	3.5
Tritium	pCi/mL	<0.70	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.379	0.169	0.167	0.157
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	70.7	34.8	31.8	33.5
Chloride	mg/L	2.7	2.4	<1.0	2.5
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.15	0.12	<0.10	0.13
Iron	mg/L	0.027	0.027	0.106	0.142
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.036	0.222	0.142	0.215
Manganese	mg/L	<0.002	<0.002	0.002	0.003
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0003
Potassium	mg/L	110	49.2	25.4	19.5
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	8.26	<0.100	1.24	51.0
Silver	mg/L	0.0030	<0.0020	<0.0020	<0.0020
Sodium	mg/L	44.0	30.4	15.6	14.6
Total Phosphates	mg/L	0.100	<0.020	0.120	0.100
Nitrate (as N)	mg/L	0.05	0.12	<0.05	<0.05
Sulfate	mg/L	21.0	18.1	12.5	15.3
Phenols	mg/L	0.073	0.063	0.044	0.101
Tot. Org. Carbon	mg/L	3.50	1.50	2.00	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.010	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 8C, Burial Grounds Perimeter Wells

SRP Grid	N 76579.2			ft (msl)
Coordinates	E 57618.7	Screen Zone Elevation		179.8 - 169.8
Latitude	33.289156° N	Top of Casing Elevation		283.3
Longitude	81.663832° W	Casing Material		PVC

Parameter	Units	03/20/88	05/21/88	07/27/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.4	223	222.5	222.3
pH	pH	8.9	7.7	7.1	6.6
Conductivity	µmhos/cm	147	145	129	119
Alkalinity	mg/L	51	50	49	45
TDS	mg/L	98	94	74	96
Gross Alpha	pCi/L	<3.0	<3.0	1.2	1.1
Nonvolatile Beta	pCi/L	12.2	8.2	5.4	4.6
Total Radium	pCi/L	<1.0	1.1	0.4	0.5
Tritium	pCi/mL	1.10	<0.70	<0.70	<0.70
Arsenic	mg/L	<0.002	<0.002	0.003	<0.002
Barium	mg/L	0.034	0.030	0.020	0.018
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	12.8	15.4	10.1	11.1
Chloride	mg/L	2.6	2.4	2.4	3.9
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.13	<0.10	0.12	<0.10
Iron	mg/L	<0.004	0.004	0.021	0.023
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.209	0.381	0.318	0.349
Manganese	mg/L	<0.002	<0.002	0.003	<0.002
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Potassium	mg/L	9.36	8.60	3.54	5.54
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	4.29	32.0	9.10	9.60
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	11.6	9.04	5.76	5.64
Total Phosphates	mg/L	0.250	0.200	0.160	0.170
Nitrate (as N)	mg/L	0.74	0.62	0.75	0.88
Sulfate	mg/L	13.0	7.9	6.4	5.3
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.80	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.007	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 8D, Burial Grounds Perimeter Wells

SRP Grid	N 76588.8			ft (msl)
Coordinates	E 57617.8	Screen Zone Elevation		236.1 - 216.1
Latitude	33.289175° N	Top of Casing Elevation		283.2
Longitude	81.663853° W	Casing Material		PVC

Parameter	Units	03/20/88	05/17/88	07/27/88	10/19/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.5	232.2	231.8	231.5
pH	pH	5.1	5.0	4.8	4.2
Conductivity	µmhos/cm	24	28	27	29
Alkalinity	mg/L	1	0	1	2
TDS	mg/L	46	30	26	48
Gross Alpha	pCi/L	4.5	3.3	0.9	1.9
Nonvolatile Beta	pCi/L	3.1	2.8	1.5	2.2
Total Radium	pCi/L	1.1	0.7	0.6	0.7
Tritium	pCi/mL	20.6	13.5	12.1	13.3
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.008	0.011	0.009	0.011
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.788	3.16	0.806	1.15
Chloride	mg/L	2.3	2.4	2.9	2.7
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.036	0.059	0.014	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.269	0.443	0.342	0.391
Manganese	mg/L	0.010	0.016	0.014	0.018
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	<0.500	<0.500	<0.500	<0.500
Selenium	mg/L	0.004	<0.002	<0.002	<0.002
Silica	mg/L	3.55	3.31	3.31	6.90
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.88	3.08	1.89	2.28
Total Phosphates	mg/L	0.030	0.020	<0.020	<0.020
Nitrate (as N)	mg/L	1.21	0.98	1.25	2.00
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	0.012	0.007	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 9D, Burial Grounds Perimeter Wells

SRP Grid	N 76811.6			ft (msl)
Coordinates	E 57478.9	Screen Zone Elevation		229.2 - 209.2
Latitude	33.289442° N	Top of Casing Elevation		285.1
Longitude	81.664652° W	Casing Material		PVC

Parameter	Units	03/09/88	05/21/88	07/27/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.5	231.9	231.6	231.2
pH	pH	5.7	5.4	5.1	4.8
Conductivity	µmhos/cm	51	43	38	38
Alkalinity	mg/L	6	5	5	3
TDS	mg/L	48	40	43	62
Gross Alpha	pCi/L	1.2	1.3	2.9	1.0
Nonvolatile Beta	pCi/L	1.6	1.9	424	2.0
Total Radium	pCi/L	<1.0	1.0	<1.0	<1.0
Tritium	pCi/mL	27.8	44.6	57.5	82.5
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.006	0.010	<0.004	0.014
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.990	1.75	1.94	1.43
Chloride	mg/L	1.9	2.6	2.5	2.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.057	0.035	0.014	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.203	0.314	0.356	0.433
Manganese	mg/L	0.059	0.070	0.066	0.058
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Potassium	mg/L	<0.500	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.87	4.57	4.71	7.70
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	4.94	4.64	3.50	3.59
Total Phosphates	mg/L	<0.020	0.060	<0.020	<0.020
Nitrate (as N)	mg/L	1.50	1.18	1.66	1.94
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.008	0.009	0.011	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 10A, Burial Grounds Perimeter Wells

SRP Grid	N 76805.2			ft (msl)
Coordinates	E 57050.9	Screen Zone Elevation		121.1 - 111.1
Latitude	33.288729° N	Top of Casing Elevation		300.9
Longitude	81.665766° W	Casing Material		***

Parameter	Units	03/20/88	05/22/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	184.6	180.7	167.4	168.8
pH	pH	8.3	7.4	7.5	7.5
Conductivity	µmhos/cm	228	310	240	245
Alkalinity	mg/L	132	114	127	140
TDS	mg/L	226	226	205	224
Gross Alpha	pCi/L	< 3.0	1.4	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	10.5	3.5	4.8	3.6
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	< 0.70	< 0.70	< 0.70	< 0.70
Arsenic	mg/L	0.004	0.003	0.005	< 0.002
Barium	mg/L	0.015	0.014	0.010	0.014
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	46.4	48.4	44.0	70.0
Chloride	mg/L	5.0	2.8	2.7	2.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	0.13	< 0.10	0.33	< 0.10
Iron	mg/L	0.091	0.027	0.148	0.064
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.17	1.21	1.12	1.28
Manganese	mg/L	0.008	0.003	0.007	0.007
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	2.61	3.10	1.32	1.18
Selenium	mg/L	0.019	< 0.002	< 0.002	< 0.002
Silica	mg/L	35.3	23.6	33.8	75.7
Silver	mg/L	< 0.0020	< 0.0020	0.0020	< 0.0020
Sodium	mg/L	13.2	3.79	4.10	2.16
Total Phosphates	mg/L	0.080	0.070	0.060	0.100
Nitrate (as N)	mg/L	0.11	0.12	< 0.05	0.05
Sulfate	mg/L	20.0	11.6	19.2	23.8
Phenols	mg/L	0.011	0.011	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.80	< 1.000	1.40	< 1.000
Tot. Org. Halogens	mg/L	0.012	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 10C, Burial Grounds Perimeter Wells

SRP Grid	N 76805.2			ft (msl)
Coordinates	E 57041.1	Screen Zone Elevation		167.3 - 157.3
Latitude	33.288713° N	Top of Casing Elevation		301.3
Longitude	81.665792° W	Casing Material		PVC

Parameter	Units	03/20/88	05/22/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	220.8	220.1	219.3	219.2
pH	pH	8.3	8.3	10.7	10.4
Conductivity	µmhos/cm	315	225	215	164
Alkalinity	mg/L	100	82	118	105
TDS	mg/L	158	140	100	200
Gross Alpha	pCi/L	2.8	1.6	2.7	2.0
Nonvolatile Beta	pCi/L	6.8	3.8	4.5	3.4
Total Radium	pCi/L	1.0	1.0	1.0	1.2
Tritium	pCi/mL	< 0.70	< 0.70	1.00	< 0.70
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.061	0.064	0.060	0.059
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	26.6	28.6	33.0	41.2
Chloride	mg/L	2.5	2.2	2.7	2.5
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	0.18	0.11	0.21	< 0.10
Iron	mg/L	0.009	0.031	0.037	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	1.13	1.75	1.50	1.20
Manganese	mg/L	0.007	0.003	0.003	0.008
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	2.24	0.536	0.930	1.04
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	9.13	3.94	8.40	22.2
Silver	mg/L	< 0.0020	0.0020	< 0.0020	< 0.0020
Sodium	mg/L	18.6	13.5	12.5	9.00
Total Phosphates	mg/L	< 0.020	0.040	0.090	0.070
Nitrate (as N)	mg/L	0.37	0.26	0.19	0.32
Sulfate	mg/L	22.0	11.3	8.6	8.0
Phenols	mg/L	0.057	0.011	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.20	2.00	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.015	-	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 10D, Burial Grounds Perimeter Wells

SRP Grid	N 76805.1			ft (msl)
Coordinates	E 57030.6	Screen Zone Elevation		250.5 - 230.5
Latitude	33.288696° N	Top of Casing Elevation		301.5
Longitude	81.665820° W	Casing Material		PVC

Parameter	Units	03/20/88	05/22/88	07/30/88	10/22/88
Sampling Method	NA	-	Pump	Pump	-
Water Elevation	ft	-	231.5	231.1	-
pH	pH	-	8.1	7.7	-
Conductivity	µmhos/cm	-	170	168	-
Alkalinity	mg/L	-	52	69	-
TDS	mg/L	-	72	108	-
Gross Alpha	pCi/L	-	4.6	1.5	-
Nonvolatile Beta	pCi/L	-	8.7	2.7	-
Total Radium	pCi/L	-	1.1	< 1.0	-
Tritium	pCi/mL	-	5.50	6.60	-
Arsenic	mg/L	-	< 0.002	< 0.002	-
Barium	mg/L	-	0.017	0.028	-
Cadmium	mg/L	-	< 0.002	< 0.002	-
Calcium	mg/L	-	17.2	26.8	-
Chloride	mg/L	-	2.8	3.3	-
Chromium	mg/L	-	< 0.004	< 0.004	-
Fluoride	mg/L	-	0.13	0.20	-
Iron	mg/L	-	0.093	0.971	-
Lead	mg/L	-	0.013	0.018	-
Magnesium	mg/L	-	0.257	0.217	-
Manganese	mg/L	-	0.021	0.032	-
Mercury	mg/L	-	< 0.0002	0.0002	-
Potassium	mg/L	-	4.88	1.93	-
Selenium	mg/L	-	< 0.002	< 0.002	-
Silica	mg/L	-	3.78	2.91	-
Silver	mg/L	-	< 0.0020	< 0.0020	-
Sodium	mg/L	-	11.9	10.5	-
Total Phosphates	mg/L	-	0.120	< 0.020	-
Nitrate (as N)	mg/L	-	0.17	0.18	-
Sulfate	mg/L	-	8.0	< 5.0	-
Phenols	mg/L	-	0.037	0.013	-
Tot. Org. Carbon	mg/L	-	7.70	8.00	-
Tot. Org. Halogens	mg/L	-	-	0.072	-
Carbon Tetrachloride	mg/L	-	-	-	
Chloroform	mg/L	-		-	
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 11D, Burial Grounds Perimeter Wells

SRP Grid	N 76805.1			ft (msl)
Coordinates	E 56651.3	Screen Zone Elevation		236.3 - 216.3
Latitude	33.288077° N	Top of Casing Elevation		305.3
Longitude	81.666819° W	Casing Material		PVC

Parameter	Units	03/09/88	05/03/88	07/28/88	10/22/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.4	231.5	230.8	230.7
pH	pH	5.7	4.9	4.9	4.3
Conductivity	µmhos/cm	34	36	34	35
Alkalinity	mg/L	3	1	2	2
TDS	mg/L	20	30	26	48
Gross Alpha	pCi/L	5.6	3.2	7.7	4.6
Nonvolatile Beta	pCi/L	3.3	3.2	4.6	3.8
Total Radium	pCi/L	3.6	1.1	0.8	1.2
Tritium	pCi/mL	7.00	6.70	6.30	6.07
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.006	0.007	0.009	0.007
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	0.929	1.03	1.56	1.01
Chloride	mg/L	2.8	2.9	2.9	3.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.023	0.012	0.173	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.295	0.446	0.380	0.464
Manganese	mg/L	0.020	0.021	0.024	0.018
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	< 0.500	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.50	3.63	3.79	6.70
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.76	2.76	2.75	2.83
Total Phosphates	mg/L	0.030	0.020	0.020	< 0.020
Nitrate (as N)	mg/L	1.44	1.13	1.75	2.04
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.010	0.008	< 0.005	0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 12A, Burial Grounds Perimeter Wells

SRP Grid	N 76804.6			ft (msl)
Coordinates	E 56250.7	Screen Zone Elevation		116.4 - 106.4
Latitude	33.287422° N	Top of Casing Elevation		313.4
Longitude	81.667872° W	Casing Material		PVC

Parameter	Units	03/03/88	05/22/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	186.7	186	182.9	183.4
pH	pH	8.1	7.6	7.0	7.0
Conductivity	µmhos/cm	200	165	180	152
Alkalinity	mg/L	84	44	81	53
TDS	mg/L	138	140	126	82
Gross Alpha	pCi/L	3.6	2.4	0.7	<3.0
Nonvolatile Beta	pCi/L	3.8	5.8	2.3	1.8
Total Radium	pCi/L	<1.0	<1.0	0.4	<1.0
Tritium	pCi/mL	1.30	<0.70	<0.70	<0.70
Arsenic	mg/L	0.005	0.002	<0.002	<0.002
Barium	mg/L	0.038	0.064	0.069	0.073
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	11.2	21.8	34.0	27.1
Chloride	mg/L	1.4	1.6	2.2	2.5
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	0.15	<0.10
Iron	mg/L	0.071	0.010	0.020	0.047
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.230	0.440	0.480	0.471
Manganese	mg/L	0.003	<0.002	0.005	0.006
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	22.7	4.93	1.70	1.85
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	19.0	9.77	16.3	33.0
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	17.2	4.37	24.6	2.54
Total Phosphates	mg/L	0.100	0.090	0.090	0.070
Nitrate (as N)	mg/L	9.40	0.33	0.18	0.31
Sulfate	mg/L	<5.0	13.0	10.2	11.3
Phenols	mg/L	0.024	0.015	<0.005	<0.005
Tot. Org. Carbon	mg/L	1.20	1.10	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.017	-	0.013	0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 12D, Burial Grounds Perimeter Wells

SRP Grid	N 76805.2			ft (msl)
Coordinates	E 56231.1	Screen Zone Elevation		237.8 - 217.8
Latitude	33.287391° N	Top of Casing Elevation		313.7
Longitude	81.667925° W	Casing Material		PVC

Parameter	Units	03/03/88	05/22/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.6	231.2	230.4	230.3
pH	pH	10.4	10.3	11.1	8.7
Conductivity	µmhos/cm	188	185	620	107
Alkalinity	mg/L	57	27	620	29
TDS	mg/L	102	88	140	104
Gross Alpha	pCi/L	1.7	1.8	<3.0	1.9
Nonvolatile Beta	pCi/L	6.7	4.8	2.8	3.8
Total Radium	pCi/L	<1.0	1.3	0.5	1.2
Tritium	pCi/mL	6.30	6.90	6.21	7.25
Arsenic	mg/L	0.003	<0.002	<0.002	<0.002
Barium	mg/L	0.018	0.026	0.094	0.044
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	22.5	17.2	46.2	14.6
Chloride	mg/L	3.7	4.9	3.1	3.4
Chromium	mg/L	<0.004	<0.004	0.005	<0.004
Fluoride	mg/L	<0.10	<0.10	0.12	<0.10
Iron	mg/L	0.035	<0.004	0.614	0.025
Lead	mg/L	<0.006	<0.006	<0.006	0.010
Magnesium	mg/L	0.023	0.217	0.198	0.948
Manganese	mg/L	<0.002	<0.002	0.007	0.010
Mercury	mg/L	<0.0002	<0.0002	0.0003	<0.0002
Potassium	mg/L	4.10	2.66	3.76	2.13
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	2.91	5.70	3.18	6.70
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	5.49	4.00	4.40	3.97
Total Phosphates	mg/L	0.110	0.040	<0.020	0.040
Nitrate (as N)	mg/L	1.27	1.01	1.35	1.70
Sulfate	mg/L	1.7	18.2	7.1	8.1
Phenols	mg/L	0.058	0.016	0.015	<0.005
Tot. Org. Carbon	mg/L	1.70	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.033	-	0.059	0.064
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 12C, Burial Grounds Perimeter Wells

SRP Grid	N 76805.2			ft (msl)
Coordinates	E 56241.1	Screen Zone Elevation		163.6 - 153.6
Latitude	33.287408° N	Top of Casing Elevation		313.6
Longitude	81.667899° W	Casing Material		PVC

Parameter	Units	03/03/88	05/22/88	07/30/88	10/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.2	221.1	220.1	220.2
pH	pH	11.8	11.7	12.9	11.5
Conductivity	µmhos/cm	1835	1400	4600	5100
Alkalinity	mg/L	472	303	542	296
TDS	mg/L	482	396	111	840
Gross Alpha	pCi/L	<4.0	4.0	<3.0	<3.0
Nonvolatile Beta	pCi/L	29.0	27.3	34.8	52.4
Total Radium	pCi/L	1.3	1.2	4.2	3.5
Tritium	pCi/mL	4.10	3.50	6.87	2.17
Arsenic	mg/L	0.004	0.003	<0.002	<0.002
Barium	mg/L	0.413	0.283	0.685	0.224
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	195	81.6	249	50.7
Chloride	mg/L	2.0	3.2	<1.0	<1.0
Chromium	mg/L	0.007	0.005	0.012	0.005
Fluoride	mg/L	0.46	0.33	0.27	0.24
Iron	mg/L	0.032	0.020	0.032	<0.020
Lead	mg/L	0.012	<0.006	0.021	0.006
Magnesium	mg/L	0.032	0.011	0.006	0.021
Manganese	mg/L	0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	33.9	23.7	42.0	17.5
Selenium	mg/L	<0.002	0.003	<0.002	<0.002
Silica	mg/L	5.84	50.8	0.330	4.60
Silver	mg/L	0.0030	0.0030	<0.0020	<0.0020
Sodium	mg/L	32.1	23.2	32.6	18.6
Total Phosphates	mg/L	0.060	0.190	<0.020	<0.020
Nitrate (as N)	mg/L	0.89	0.18	<0.05	0.36
Sulfate	mg/L	12.0	5.7	<5.0	<5.0
Phenols	mg/L	0.120	0.063	0.116	0.046
Tot. Org. Carbon	mg/L	5.40	3.00	1.80	<1.000
Tot. Org. Halogens	mg/L	0.062	-	0.017	0.014
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 13D, Burial Grounds Perimeter Wells

SRP Grid	N 76805.3			ft (msl)
Coordinates	E 55840.0	Screen Zone Elevation		248.5 - 228.5
Latitude	33.286753° N	Top of Casing Elevation		318.5
Longitude	81.668955° W	Casing Material		PVC

Parameter	Units	03/02/88	05/22/88	07/30/88	10/30/88
Sampling Method	NA	-	Pump	Pump	Pump
Water Elevation	ft	-	230.4	229.9	229.6
pH	pH	-	7.6	8.2	6.4
Conductivity	µmhos/cm	-	115	120	85
Alkalinity	mg/L	-	22	24	28
TDS	mg/L	-	13	89	186
Gross Alpha	pCi/L	-	2.9	<3.0	-
Nonvolatile Beta	pCi/L	-	10.0	4.7	-
Total Radium	pCi/L	-	0.8	<1.0	-
Tritium	pCi/mL	-	13.2	8.65	11.6
Arsenic	mg/L	-	<0.002	<0.002	<0.002
Barium	mg/L	-	0.012	0.010	0.013
Cadmium	mg/L	-	<0.002	<0.002	<0.002
Calcium	mg/L	-	9.36	6.98	8.58
Chloride	mg/L	-	4.6	4.8	4.7
Chromium	mg/L	-	<0.004	<0.004	<0.004
Fluoride	mg/L	-	<0.10	0.25	<0.10
Iron	mg/L	-	0.024	0.061	<0.020
Lead	mg/L	-	0.007	<0.006	<0.006
Magnesium	mg/L	-	0.136	0.173	0.144
Manganese	mg/L	-	0.012	0.020	0.032
Mercury	mg/L	-	<0.0002	0.0003	<0.0002
Potassium	mg/L	-	8.46	6.22	2.36
Selenium	mg/L	-	<0.002	<0.002	<0.002
Silica	mg/L	-	3.10	3.11	3.22
Silver	mg/L	-	<0.0020	<0.0020	0.0660
Sodium	mg/L	-	7.62	4.60	5.07
Total Phosphates	mg/L	-	0.090	<0.020	<0.020
Nitrate (as N)	mg/L	-	0.24	0.07	0.29
Sulfate	mg/L	-	6.4	5.6	5.2
Phenols	mg/L	-	0.011	0.005	<0.005
Tot. Org. Carbon	mg/L	-	2.80	4.20	1.10
Tot. Org. Halogens	mg/L	-	-	0.031	0.037
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 14A, Burial Grounds Perimeter Wells

SRP Grid	N	76377.5		ft (msl)
Coordinates	E	55838.3	Screen Zone Elevation	119.6 - 109.6
Latitude		33.285805° N	Top of Casing Elevation	301.9
Longitude		81.668129° W	Casing Material	***

Parameter	Units	03/03/88	05/22/88	07/30/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	157.8	157.3	156.7	156.9
pH	pH	12.2	11.6	12.1	10.9
Conductivity	µmhos/cm	3850	3800	3500	3300
Alkalinity	mg/L	829	786	670	588
TDS	mg/L	910	844	811	960
Gross Alpha	pCi/L	<6.0	17.9	17.8	23.3
Nonvolatile Beta	pCi/L	152	160	98.1	83.3
Total Radium	pCi/L	0.7	4.3	0.9	1.4
Tritium	pCi/mL	1.40	<0.70	0.26	<0.70
Arsenic	mg/L	0.009	<0.002	<0.002	<0.002
Barium	mg/L	0.320	0.303	0.198	0.200
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	143	170	88.6	155
Chloride	mg/L	3.8	2.2	2.2	3.7
Chromium	mg/L	0.011	0.018	0.006	<0.004
Fluoride	mg/L	0.16	0.27	0.73	0.29
Iron	mg/L	0.104	0.012	0.013	<0.020
Lead	mg/L	0.052	0.045	0.011	0.007
Magnesium	mg/L	0.028	0.014	0.004	0.013
Manganese	mg/L	<0.002	<0.002	<0.002	<0.002
Mercury	mg/L	<0.0002	<0.0002	0.0002	0.0003
Potassium	mg/L	144	130	119	91.1
Selenium	mg/L	<0.002	0.002	<0.002	<0.002
Silica	mg/L	1.99	4.36	2.24	2.82
Silver	mg/L	0.0030	0.0070	0.0040	<0.0020
Sodium	mg/L	105	94.5	92.0	93.8
Total Phosphates	mg/L	0.030	0.080	<0.020	<0.020
Nitrate (as N)	mg/L	0.40	0.05	<0.05	0.08
Sulfate	mg/L	19.0	7.3	20.3	21.5
Phenols	mg/L	0.153	0.702	0.043	0.456
Tot. Org. Carbon	mg/L	14.1	9.70	5.10	6.60
Tot. Org. Halogens	mg/L	0.033	-	<0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 14C, Burial Grounds Perimeter Wells

SRP Grid	N	76367.7		ft (msl)
Coordinates	E	55839.0	Screen Zone Elevation	202.1 - 192.1
Latitude		33.285784° N	Top of Casing Elevation	302.0
Longitude		81.668108° W	Casing Material	PVC

Parameter	Units	03/03/88	05/22/88	07/30/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	223.3	209.1	222.2	221.8
pH	pH	12.1	11.6	11.5	11.3
Conductivity	µmhos/cm	3500	1550	1400	1160
Alkalinity	mg/L	4	339	281	246
TDS	mg/L	752	414	321	446
Gross Alpha	pCi/L	16.4	8.8	<3.0	6.6
Nonvolatile Beta	pCi/L	39.9	21.6	4.1	10.1
Total Radium	pCi/L	2.7	1.2	0.7	0.9
Tritium	pCi/mL	4.20	3.60	3.93	4.79
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.435	0.172	0.125	0.110
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	403	101	111	88.6
Chloride	mg/L	12.2	2.2	2.1	2.4
Chromium	mg/L	0.013	0.007	0.004	0.005
Fluoride	mg/L	0.34	0.19	0.26	0.11
Iron	mg/L	0.042	0.007	0.020	<0.020
Lead	mg/L	0.034	<0.006	<0.006	<0.006
Magnesium	mg/L	0.010	0.031	0.030	0.114
Manganese	mg/L	<0.002	<0.002	<0.002	0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0003
Potassium	mg/L	34.5	18.5	17.8	14.0
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	1.07	1.85	2.83	2.73
Silver	mg/L	0.0050	0.0040	<0.0020	<0.0020
Sodium	mg/L	27.9	14.7	14.8	13.4
Total Phosphates	mg/L	0.060	0.070	<0.020	<0.020
Nitrate (as N)	mg/L	0.43	0.54	0.80	1.18
Sulfate	mg/L	<5.0	7.3	5.9	<5.0
Phenols	mg/L	0.097	0.075	0.034	0.018
Tot. Org. Carbon	mg/L	4.50	1.10	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.013	-	0.054	0.096
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 14D, Burial Grounds Perimeter Wells

SRP Grid	N	76357.5		ft (msl)
Coordinates	E	55839.6	Screen Zone Elevation	249.6 - 229.6
Latitude		33.285762° N	Top of Casing Elevation	302.0
Longitude		81.668086° W	Casing Material	PVC

Parameter	Units	03/02/88	05/22/88	07/30/88	10/29/88
Sampling Method	NA	-	Pump	Pump	-
Water Elevation	ft	-	-	-	-
pH	pH	-	6.5	6.6	-
Conductivity	µmhos/cm	-	78	80	-
Alkalinity	mg/L	-	22	14	-
TDS	mg/L	-	78	48	-
Gross Alpha	pCi/L	-	4.9	1.9	-
Nonvolatile Beta	pCi/L	-	5.9	2.8	-
Total Radium	pCi/L	-	1.3	<1.0	-
Tritium	pCi/mL	-	5.40	6.31	-
Arsenic	mg/L	-	<0.002	<0.002	-
Barium	mg/L	-	0.014	0.013	-
Cadmium	mg/L	-	<0.002	<0.002	-
Calcium	mg/L	-	9.74	8.88	-
Chloride	mg/L	-	3.6	3.9	-
Chromium	mg/L	-	<0.004	<0.004	-
Fluoride	mg/L	-	<0.10	0.12	-
Iron	mg/L	-	0.063	0.937	-
Lead	mg/L	-	0.018	<0.006	-
Magnesium	mg/L	-	0.313	0.267	-
Manganese	mg/L	-	0.038	0.041	-
Mercury	mg/L	-	<0.0002	0.0003	-
Potassium	mg/L	-	0.774	<0.500	-
Selenium	mg/L	-	<0.002	<0.002	-
Silica	mg/L	-	5.01	4.70	-
Silver	mg/L	-	<0.0020	<0.0020	-
Sodium	mg/L	-	2.93	2.48	-
Total Phosphates	mg/L	-	0.900	<0.020	-
Nitrate (as N)	mg/L	-	0.35	0.09	-
Sulfate	mg/L	-	<5.0	<5.0	-
Phenols	mg/L	-	0.009	0.012	-
Tot. Org. Carbon	mg/L	-	3.60	13.0	-
Tot. Org. Halogens	mg/L	-	-	0.049	-
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 15D, Burial Grounds Perimeter Wells

SRP Grid	N	75973.5		ft (msl)
Coordinates	E	55859.1	Screen Zone Elevation	238.7 - 218.7
Latitude		33.284945° N	Top of Casing Elevation	298.7
Longitude		81.667289° W	Casing Material	PVC

Parameter	Units	03/21/88	05/21/88	08/02/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	230.4	229.9	224.4	228.9
pH	pH	6.2	5.8	4.8	5.5
Conductivity	µmhos/cm	56	42	34	35
Alkalinity	mg/L	12	7	3	5
TDS	mg/L	42	47	32	90
Gross Alpha	pCi/L	2.2	1.4	4.1	2.4
Nonvolatile Beta	pCi/L	4.4	2.7	3.9	1.6
Total Radium	pCi/L	1.1	0.7	<1.0	<1.0
Tritium	pCi/mL	440	338	5.77	104
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.023	0.011	0.006	0.007
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	4.30	5.28	1.23	2.08
Chloride	mg/L	2.3	2.2	2.9	2.4
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.015	0.148	0.115	0.024
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.383	0.327	0.416	0.244
Manganese	mg/L	0.009	0.010	0.023	0.006
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	0.542	<0.500	<0.500	<0.500
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	2.99	2.92	3.28	2.89
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	3.88	3.30	3.97	3.60
Total Phosphates	mg/L	0.080	0.060	<0.020	0.090
Nitrate (as N)	mg/L	1.43	1.22	1.99	1.46
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	1.50	<1.000
Tot. Org. Halogens	mg/L	0.014	-	<0.005	0.007
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 16A, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 75757.0 E 56194.2	Screen Zone Elevation	ft (msl) 112.5 - 102.5
Latitude	33.285013° N	Top of Casing Elevation	305.0
Longitude	81.665986° W	Casing Material	***

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	160.7	161.1	160.4	158
pH	pH	12.3	11.9	11.9	12.2
Conductivity	µmhos/cm	5000	4400	4100	3600
Alkalinity	mg/L	83	68	707	740
TDS	mg/L	36	1070	936	958
Gross Alpha	pCi/L	6.8	16.4	<3.0	<3.0
Nonvolatile Beta	pCi/L	54.5	56.5	66.9	54.5
Total Radium	pCi/L	1.0	2.3	1.9	3.5
Tritium	pCi/mL	1.30	<0.70	<0.70	1.03
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.474	0.428	0.316	0.314
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	276	576	230	235
Chloride	mg/L	1.7	1.0	4.5	<1.0
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.22	0.20	0.19	0.13
Iron	mg/L	0.019	0.032	<0.004	<0.020
Lead	mg/L	0.017	0.011	<0.006	<0.006
Magnesium	mg/L	0.013	<0.002	0.007	0.012
Manganese	mg/L	<0.002	<0.002	0.003	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	107	92.0	80.0	63.8
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	0.550	3.47	0.270	0.830
Silver	mg/L	0.0080	0.0030	<0.0020	<0.0020
Sodium	mg/L	118	111	67.2	59.2
Total Phosphates	mg/L	0.050	0.030	<0.020	<0.020
Nitrate (as N)	mg/L	0.06	0.14	<0.05	0.10
Sulfate	mg/L	44.0	<5.0	<5.0	5.1
Phenols	mg/L	0.013	0.035	0.067	0.020
Tot. Org. Carbon	mg/L	3.70	2.10	2.50	5.00
Tot. Org. Halogens	mg/L	0.015	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 16D, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 75751.4 E 56202.1	Screen Zone Elevation	ft (msl) 237.3 - 217.3
Latitude	33.285013° N	Top of Casing Elevation	304.6
Longitude	81.665954° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.4	228	230.7	230.5
pH	pH	9.3	9.0	8.5	10.0
Conductivity	µmhos/cm	380	340	280	420
Alkalinity	mg/L	110	101	200	154
TDS	mg/L	252	198	169	302
Gross Alpha	pCi/L	10.8	7.0	6.2	<3.0
Nonvolatile Beta	pCi/L	18.3	10.4	7.9	10.2
Total Radium	pCi/L	<1.0	1.3	<1.0	0.5
Tritium	pCi/mL	1330	1710	746	1540
Arsenic	mg/L	0.003	0.003	<0.002	<0.002
Barium	mg/L	0.007	0.007	0.007	0.009
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	2.09	3.72	3.28	3.49
Chloride	mg/L	5.2	3.3	3.4	2.5
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.13	0.10	0.14	<0.10
Iron	mg/L	0.077	0.016	0.035	0.024
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.282	0.373	0.324	0.216
Manganese	mg/L	<0.002	0.003	0.003	<0.002
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Potassium	mg/L	8.24	7.52	7.67	15.0
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	6.41	5.54	5.90	10.9
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	884	51.8	52.2	63.0
Total Phosphates	mg/L	0.240	0.190	0.080	0.120
Nitrate (as N)	mg/L	0.35	0.22	0.10	0.08
Sulfate	mg/L	15.0	40.8	<5.0	27.3
Phenols	mg/L	0.066	<0.005	<0.005	0.017
Tot. Org. Carbon	mg/L	2.30	1.40	1.50	3.10
Tot. Org. Halogens	mg/L	0.111	-	0.010	0.045
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 17D, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 75599.6 E 56399.4	Screen Zone Elevation	ft (msl) 224.0 - 204.0
Latitude	33.285000° N	Top of Casing Elevation	298.3
Longitude	81.665140° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	231.9	231.5	231.2	230.8
pH	pH	8.7	7.2	7.4	6.7
Conductivity	µmhos/cm	145	120	138	80
Alkalinity	mg/L	38	32	46	28
TDS	mg/L	146	94	78	126
Gross Alpha	pCi/L	3.2	4.5	2.4	1.3
Nonvolatile Beta	pCi/L	7.9	4.2	2.3	1.1
Total Radium	pCi/L	1.9	0.6	1.2	1.1
Tritium	pCi/mL	14.6	12.1	10.2	12.8
Arsenic	mg/L	<0.002	<0.002	0.002	<0.002
Barium	mg/L	0.010	0.010	0.011	0.012
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	3.94	13.7	5.62	5.04
Chloride	mg/L	3.4	2.3	2.1	2.2
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	0.13	<0.10	0.13	<0.10
Iron	mg/L	0.052	0.046	0.018	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.225	0.204	0.212	0.190
Manganese	mg/L	0.015	0.020	0.017	0.013
Mercury	mg/L	<0.0002	<0.0002	0.0003	0.0004
Potassium	mg/L	2.96	1.87	2.11	0.850
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	3.81	0.440	3.96	3.66
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	21.1	22.2	24.0	13.2
Total Phosphates	mg/L	0.450	0.180	0.080	0.050
Nitrate (as N)	mg/L	1.20	0.79	1.13	1.28
Sulfate	mg/L	<5.0	16.7	14.6	10.3
Phenols	mg/L	<0.005	<0.005	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	<1.000
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 18A, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 75599.9 E 56699.7	Screen Zone Elevation	ft (msl) 109.5 - 99.5
Latitude	33.285490° N	Top of Casing Elevation	295.2
Longitude	81.664350° W	Casing Material	***

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	160.7	159.8	160.2	158.4
pH	pH	9.3	8.3	7.5	7.3
Conductivity	µmhos/cm	300	240	245	230
Alkalinity	mg/L	112	114	89	115
TDS	mg/L	188	172	198	230
Gross Alpha	pCi/L	4.4	3.1	3.0	6.0
Nonvolatile Beta	pCi/L	5.9	8.3	5.0	8.2
Total Radium	pCi/L	<1.0	0.9	0.8	2.1
Tritium	pCi/mL	<0.70	<0.70	<0.70	0.65
Arsenic	mg/L	0.006	0.005	<0.002	0.002
Barium	mg/L	0.035	0.045	0.052	0.062
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	21.2	51.4	32.2	36.9
Chloride	mg/L	3.0	2.5	2.5	2.6
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	<0.10	0.11	<0.10
Iron	mg/L	0.081	0.024	0.036	<0.020
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.918	1.53	1.93	2.40
Manganese	mg/L	<0.002	0.008	0.022	0.031
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0003
Potassium	mg/L	4.01	4.13	3.77	2.33
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	13.8	3.92	14.6	16.0
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	38.0	21.4	13.1	7.85
Total Phosphates	mg/L	0.360	0.250	0.160	0.210
Nitrate (as N)	mg/L	<0.05	0.14	0.10	0.10
Sulfate	mg/L	26.0	14.4	11.5	10.8
Phenols	mg/L	0.013	<0.005	0.006	<0.005
Tot. Org. Carbon	mg/L	<1.000	<1.000	<1.000	1.50
Tot. Org. Halogens	mg/L	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 18D, Burial Grounds Perimeter Wells

SRP Grid	N 75600.0		ft (msl)
Coordinates	E 56711.2	Screen Zone Elevation	239.6 - 219.6
Latitude	33.285509° N	Top of Casing Elevation	294.9
Longitude	81.664320° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	232.7	.	232	231.3
pH	pH	6.4	5.8	5.6	5.1
Conductivity	µmhos/cm	35	26	25	26
Alkalinity	mg/L	6	5	4	3
TDS	mg/L	38	36	47	88
Gross Alpha	pCi/L	1.7	< 3.0	4.6	1.8
Nonvolatile Beta	pCi/L	3.2	3.3	2.5	1.6
Total Radium	pCi/L	< 1.0	< 1.0	1.5	1.2
Tritium	pCi/mL	14.0	16.4	16.3	17.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.008	0.009	0.007	0.010
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.96	5.45	1.28	1.55
Chloride	mg/L	1.6	1.7	1.9	2.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.059	0.033	0.054	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.276	0.321	0.220	0.308
Manganese	mg/L	0.034	0.037	0.033	0.034
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	0.0003
Potassium	mg/L	0.516	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.07	45.4	3.37	3.49
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.04	2.20	1.52	1.96
Total Phosphates	mg/L	< 0.020	0.020	0.050	< 0.020
Nitrate (as N)	mg/L	1.12	0.93	1.25	1.44
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 19D, Burial Grounds Perimeter Wells

SRP Grid	N 75350.0		ft (msl)
Coordinates	E 56997.3	Screen Zone Elevation	213.9 - 193.9
Latitude	33.285423° N	Top of Casing Elevation	287.2
Longitude	81.663081° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.7	233.2	232.9	232.3
pH	pH	6.5	6.0	5.6	5.8
Conductivity	µmhos/cm	57	46	42	40
Alkalinity	mg/L	17	10	9	8
TDS	mg/L	58	32	30	138
Gross Alpha	pCi/L	3.1	2.6	1.8	2.0
Nonvolatile Beta	pCi/L	3.1	5.5	2.2	3.1
Total Radium	pCi/L	< 1.0	0.6	< 1.0	0.5
Tritium	pCi/mL	16.3	16.1	13.8	17.6
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.018	0.014	0.012	0.012
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	4.46	10.7	2.60	2.44
Chloride	mg/L	3.5	2.7	2.6	2.8
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.114	0.102	0.018	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.355	0.314	0.254	0.286
Manganese	mg/L	0.019	0.025	0.029	0.027
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	1.37	1.01	0.623	0.669
Selenium	mg/L	0.004	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.87	4.55	4.38	4.52
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.37	4.73	3.06	3.63
Total Phosphates	mg/L	< 0.020	0.050	< 0.020	0.070
Nitrate (as N)	mg/L	1.14	0.77	1.16	1.37
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.029	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 20D, Burial Grounds Perimeter Wells

SRP Grid	N 74962.2		ft (msl)
Coordinates	E 57113.8	Screen Zone Elevation	236.3 - 216.3
Latitude	33.284755° N	Top of Casing Elevation	283.7
Longitude	81.662021° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234.7	234.3	233.9	233.3
pH	pH	7.0	6.4	6.3	5.8
Conductivity	µmhos/cm	115	225	182	139
Alkalinity	mg/L	77	93	82	72
TDS	mg/L	652	220	122	174
Gross Alpha	pCi/L	5.4	4.9	2.6	3.4
Nonvolatile Beta	pCi/L	8.4	10.6	2.5	3.3
Total Radium	pCi/L	2.1	1.1	0.6	1.1
Tritium	pCi/mL	4.90	11.1	12.8	20.0
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.015	0.025	0.018	0.017
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	4.33	5.13	4.20	3.23
Chloride	mg/L	9.1	3.4	3.2	3.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.329	0.046	0.295	0.100
Lead	mg/L	< 0.006	< 0.006	< 0.006	0.008
Magnesium	mg/L	0.358	0.982	0.773	0.649
Manganese	mg/L	0.012	0.124	0.119	0.101
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	1.80	1.57	34.0	1.39
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.51	3.71	4.40	6.32
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	38.5	40.8	39.0	30.5
Total Phosphates	mg/L	0.270	0.110	0.030	< 0.020
Nitrate (as N)	mg/L	0.50	0.66	0.94	1.32
Sulfate	mg/L	26.0	11.1	7.0	< 5.0
Phenols	mg/L	0.013	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	5.00	1.40	< 1.000	2.40
Tot. Org. Halogens	mg/L	0.065	0.009	< 0.005	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 21D, Burial Grounds Perimeter Wells

SRP Grid	N 74688.5		ft (msl)
Coordinates	E 57470.7	Screen Zone Elevation	237.7 - 217.7
Latitude	33.284732° N	Top of Casing Elevation	285.4
Longitude	81.660549° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	235.5	235.3	234.8	234.1
pH	pH	10.1	10.1	6.9	7.8
Conductivity	µmhos/cm	340	420	191	220
Alkalinity	mg/L	94	149	56	87
TDS	mg/L	198	242	158	190
Gross Alpha	pCi/L	11.9	7.1	3.6	13.5
Nonvolatile Beta	pCi/L	56.9	44.7	13.9	33.6
Total Radium	pCi/L	2.3	2.1	3.5	2.5
Tritium	pCi/mL	27.9	30.2	29.2	34.0
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.009	0.008	0.036	0.047
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.10	3.83	13.6	11.4
Chloride	mg/L	4.5	2.3	2.4	2.4
Chromium	mg/L	< 0.004	0.005	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	0.11	< 0.10	< 0.10
Iron	mg/L	0.100	0.033	0.057	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.715	0.065	0.582	0.524
Manganese	mg/L	< 0.002	< 0.002	0.080	0.055
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Potassium	mg/L	31.9	55.2	0.785	15.3
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	2.46	7.48	4.01	3.49
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	29.4	2.24	9.08	14.4
Total Phosphates	mg/L	0.180	0.130	< 0.020	0.030
Nitrate (as N)	mg/L	1.29	1.14	1.34	1.62
Sulfate	mg/L	26.0	5.4	< 5.0	< 5.0
Phenols	mg/L	< 0.005	0.009	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	1.50	1.20	< 1.000	1.50
Tot. Org. Halogens	mg/L	0.051	0.015	< 0.005	0.008
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: BGO 22D, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 74482.2 E 57817.3	Screen Zone Elevation	ft (msl) 214.2 - 194.2
Latitude	33.284842° N	Top of Casing Elevation	286.5
Longitude	81.659236° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	233.7	232.8	232.2	231.7
pH	pH	5.3	5.0	4.8	5.1
Conductivity	µmhos/cm	34	32	30	31
Alkalinity	mg/L	2	0	2	1
TDS	mg/L	46	26	69	82
Gross Alpha	pCi/L	1.8	3.9	2.0	1.5
Nonvolatile Beta	pCi/L	2.5	3.5	1.7	2.0
Total Radium	pCi/L	< 1.0	1.5	0.9	0.4
Tritium	pCi/mL	17.0	15.7	14.4	15.8
Arsenic	mg/L	< 0.002	0.010	< 0.002	< 0.002
Barium	mg/L	0.008	0.007	0.006	0.006
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.04	1.92	0.836	1.02
Chloride	mg/L	2.4	2.0	2.0	2.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	0.22	< 0.10
Iron	mg/L	0.125	0.022	0.118	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.543	0.552	0.436	0.528
Manganese	mg/L	0.016	0.015	0.017	0.015
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	< 0.500	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.95	3.13	7.49	3.53
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.13	2.97	2.20	2.40
Total Phosphates	mg/L	0.050	0.420	0.020	0.090
Nitrate (as N)	mg/L	1.93	1.56	2.05	2.08
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 24D, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 74012.4 E 58438.8	Screen Zone Elevation	ft (msl) 241.0 - 221.0
Latitude	33.284816° N	Top of Casing Elevation	293.2
Longitude	81.656687° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	238.3	237.7	237.1	236.2
pH	pH	11.1	10.5	10.8	10.7
Conductivity	µmhos/cm	360	195	240	250
Alkalinity	mg/L	97	50	60	69
TDS	mg/L	136	86	116	126
Gross Alpha	pCi/L	< 3.0	2.6	< 3.0	2.9
Nonvolatile Beta	pCi/L	11.4	6.6	2.8	3.2
Total Radium	pCi/L	< 1.0	0.7	0.5	0.4
Tritium	pCi/mL	4.20	3.30	2.42	4.32
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.063	0.052	0.070	0.060
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	17.5	24.4	13.6	12.6
Chloride	mg/L	2.7	2.3	2.4	2.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	0.10	< 0.10	< 0.10
Iron	mg/L	0.038	0.022	0.033	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.141	0.184	0.088	0.091
Manganese	mg/L	< 0.002	< 0.002	0.003	< 0.002
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	6.67	3.25	3.46	2.27
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.83	2.99	3.94	3.82
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	26.0	18.4	21.2	17.6
Total Phosphates	mg/L	0.060	0.060	0.040	< 0.020
Nitrate (as N)	mg/L	0.87	0.77	0.96	1.06
Sulfate	mg/L	11.0	10.2	8.8	8.2
Phenols	mg/L	0.008	0.007	< 0.005	0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.033	0.013	< 0.005	0.006
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 23D, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 74238.1 E 58133.0	Screen Zone Elevation	ft (msl) 242.0 - 222.0
Latitude	33.284817° N	Top of Casing Elevation	289.2
Longitude	81.657930° W	Casing Material	PVC

Parameter	Units	03/22/88	05/18/88	07/26/88	11/02/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.2	236.7	236.1	235.4
pH	pH	7.6	6.4	6.2	6.2
Conductivity	µmhos/cm	126	66	57	52
Alkalinity	mg/L	33	15	13	12
TDS	mg/L	90	34	65	98
Gross Alpha	pCi/L	1.9	1.2	1.2	< 3.0
Nonvolatile Beta	pCi/L	7.6	4.5	2.3	3.2
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	0.4
Tritium	pCi/mL	24.2	21.9	19.6	21.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	1.29	2.78	1.66	0.629
Chloride	mg/L	1.2	1.2	1.2	1.3
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	0.10	< 0.10
Iron	mg/L	0.065	0.059	0.105	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.590	0.072	0.082	0.084
Manganese	mg/L	< 0.002	0.003	0.007	< 0.002
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	0.370	2.46	2.93	2.06
Selenium	mg/L	0.003	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.20	3.62	2.54	2.76
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	18.0	10.4	9.30	7.88
Total Phosphates	mg/L	0.060	0.040	< 0.020	< 0.020
Nitrate (as N)	mg/L	2.14	1.60	2.19	2.29
Sulfate	mg/L	6.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	0.006	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.012	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

Well: BGO 25A, Burial Grounds Perimeter Wells

SRP Grid Coordinates	N 76158.5 E 55668.1	Screen Zone Elevation	ft (msl) 114.1 - 104.1
Latitude	33.285042° N	Top of Casing Elevation	296.5
Longitude	81.668151° W	Casing Material	***

Parameter	Units	03/10/88	05/22/88	07/30/88	10/29/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	158.6	158.3	157.6	157.9
pH	pH	9.7	9.1	8.1	7.8
Conductivity	µmhos/cm	140	140	133	148
Alkalinity	mg/L	60	47	51	110
TDS	mg/L	148	160	136	330
Gross Alpha	pCi/L	< 3.0	< 3.0	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	3.7	2.1	2.6	2.3
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	< 0.70	< 0.70	0.23	< 0.70
Arsenic	mg/L	0.003	0.004	0.003	0.002
Barium	mg/L	0.007	0.013	0.011	0.032
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	12.1	15.4	9.54	45.7
Chloride	mg/L	2.5	2.5	2.6	2.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	0.36	< 0.10
Iron	mg/L	0.022	0.008	0.015	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.323	0.384	0.415	0.651
Manganese	mg/L	< 0.002	< 0.002	< 0.002	0.005
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	2.31	2.65	31.4	1.11
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	30.5	2.81	27.2	25.2
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	4.96	7.03	7.88	2.45
Total Phosphates	mg/L	< 0.020	0.040	< 0.020	0.070
Nitrate (as N)	mg/L	0.25	0.10	< 0.05	0.10
Sulfate	mg/L	13.0	13.6	14.0	14.4
Phenols	mg/L	0.018	0.009	0.014	0.071
Tot. Org. Carbon	mg/L	1.60	1.00	2.20	2.00
Tot. Org. Halogens	mg/L	0.010	-	< 0.005	0.018
Carbon Tetrachloride	mg/L	-	-	-	-
Chloroform	mg/L	-	-	-	-
Tetrachloroethylene	mg/L	-	-	-	-
Trichloroethylene	mg/L	-	-	-	-
1,1,1-TCE	mg/L	-	-	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Other Analyses
(GCMS Scan and Pest Herb* Analytes: Table 5-91)

BGO 1D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 1D 07/30/88
Turbidity 45 NTU
Pest/Herb* analyses detected the following: None

BGO 1D 10/23/88
Turbidity 2.2 NTU
Pest/Herb* analyses detected the following: None

BGO 2D 03/21/88
Pest/Herb* analyses detected the following: None

BGO 2D 07/27/88
Turbidity 0.27 NTU
Pest/Herb* analyses detected the following: None

BGO 2D 11/12/88
Turbidity 0.308 NTU
Turbidity 0.809 NTU
Pest/Herb* analyses detected the following: None

BGO 3D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 3D 07/30/88
Turbidity 272 NTU
Pest/Herb* analyses detected the following: None

BGO 3D 10/23/88
Turbidity 1.34 NTU
Pest/Herb* analyses detected the following: None

BGO 4D 03/21/88
Pest/Herb* analyses detected the following: None

BGO 4D 08/09/88
Turbidity 0.193 NTU
Turbidity 22.8 NTU
Pest/Herb* analyses detected the following: None

BGO 4D 10/19/88
Turbidity 0.195 NTU
Pest/Herb* analyses detected the following: None

BGO 5C 03/21/88
Pest/Herb* analyses detected the following: None

BGO 5C 07/30/88
Turbidity 284 NTU
Pest/Herb* analyses detected the following: None

BGO 5C 10/23/88
Turbidity 14.1 NTU
Turbidity 18.7 NTU
Pest/Herb* analyses detected the following: None

BGO 5D 03/21/88
Pest/Herb* analyses detected the following: None

BGO 5D 07/30/88
Turbidity 161 NTU
Pest/Herb* analyses detected the following: None

BGO 5D 10/23/88
Turbidity 0.461 NTU
Pest/Herb* analyses detected the following: None

BGO 6A 03/20/88
Pest/Herb* analyses detected the following: None

BGO 6A 07/27/88
Turbidity 0.318 NTU
Pest/Herb* analyses detected the following: None

BGO 6A 10/22/88
Turbidity 0.104 NTU
Turbidity 0.107 NTU
Pest/Herb* analyses detected the following: None

BGO 6C 03/20/88
Pest/Herb* analyses detected the following: None

BGO 6C 07/27/88
Turbidity 0.166 NTU
Pest/Herb* analyses detected the following: None

BGO 6C 10/29/88
Turbidity 0.151 NTU
Pest/Herb* analyses detected the following: None

BGO 6D 03/20/88
Pest/Herb* analyses detected the following: None

BGO 6D 07/28/88
Turbidity 15.5 NTU
Pest/Herb* analyses detected the following: None

BGO 6D 10/23/88
Turbidity 0.063 NTU
Pest/Herb* analyses detected the following: None

BGO 7D 03/20/88
Pest/Herb* analyses detected the following: None

BGO 7D 07/27/88
Turbidity 7.8 NTU
Pest/Herb* analyses detected the following: None

BGO 7D 11/20/88
Turbidity 0.093 NTU
Turbidity 0.089 NTU
Pest/Herb* analyses detected the following:
2,4-Dichlorophenoxyacetic Acid 0.0007 mg/L
GCMS Scan detected the following:
Benzene 0.007 mg/L
trans-1,2-Dichloroethene <0.005 mg/L
trans-1,2-Dichloroethene <0.005 mg/L
1,1-Dichloroethylene <0.005 mg/L
1,1-Dichloroethylene <0.005 mg/L

BGO 8A 03/20/88
Pest/Herb* analyses detected the following: None

BGO 8A 07/28/88
Pest/Herb* analyses detected the following: None
Turbidity 1.03 NTU

BGO 8A 10/23/88
Turbidity 0.177 NTU
Pest/Herb* analyses detected the following: None

BGO 8C 03/20/88
Pest/Herb* analyses detected the following: None

BGO 8C 07/27/88
Turbidity 0.376 NTU
Pest/Herb* analyses detected the following: None

BGO 8C 10/19/88
Turbidity 0.087 NTU
Pest/Herb* analyses detected the following: None

BGO 8D 03/20/88
Pest/Herb* analyses detected the following: None

BGO 8D 07/27/88
Turbidity 22.4 NTU
Pest/Herb* analyses detected the following: None

BGO 8D 10/19/88
Turbidity 0.11 NTU
Pest/Herb* analyses detected the following: None

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

BGO 9D	03/09/88	
Pest/Herb* analyses detected the following: None		
BGO 9D	07/27/88	
Turbidity		0.912 NTU
Pest/Herb* analyses detected the following: None		
BGO 9D	10/22/88	
Turbidity		0.11 NTU
Pest/Herb* analyses detected the following: None		
BGO 10A	03/20/88	
Pest/Herb* analyses detected the following: None		
BGO 10A	07/30/88	
Turbidity		2.5 NTU
Pest/Herb* analyses detected the following: None		
BGO 10A	10/23/88	
Turbidity		0.118 NTU
Pest/Herb* analyses detected the following: None		
BGO 10C	03/20/88	
Pest/Herb* analyses detected the following: None		
BGO 10C	07/30/88	
Turbidity		3.22 NTU
Pest/Herb* analyses detected the following: None		
BGO 10C	10/23/88	
Turbidity		0.277 NTU
Pest/Herb* analyses detected the following:		
2,4-Dichlorophenoxyacetic Acid		0.014 mg/L
BGO 10D	07/30/88	
Turbidity		11.7 NTU
Pest/Herb* analyses detected the following: None		
BGO 11D	03/09/88	
Pest/Herb* analyses detected the following: None		
BGO 11D	07/28/88	
Turbidity		1.14 NTU
Pest/Herb* analyses detected the following: None		
BGO 11D	10/22/88	
Turbidity		0.367 NTU
Pest/Herb* analyses detected the following: None		
BGO 12A	03/03/88	
Pest/Herb* analyses detected the following: None		
BGO 12A	07/30/88	
Turbidity		1.03 NTU
Pest/Herb* analyses detected the following: None		
BGO 12A	10/23/88	
Turbidity		0.168 NTU
Pest/Herb* analyses detected the following: None		
BGO 12C	03/03/88	
Pest/Herb* analyses detected the following: None		
BGO 12C	07/30/88	
Turbidity		8.33 NTU
Pest/Herb* analyses detected the following: None		
BGO 12C	10/23/88	
Turbidity		0.241 NTU
Pest/Herb* analyses detected the following: None		
BGO 12D	03/03/88	
Pest/Herb* analyses detected the following: None		
BGO 12D	07/30/88	
Turbidity		5 NTU
Pest/Herb* analyses detected the following: None		
BGO 12D	10/23/88	
Turbidity		1.67 NTU
Pest/Herb* analyses detected the following: None		
BGO 13D	07/30/88	
Turbidity		0.702 NTU
Pest/Herb* analyses detected the following: None		
BGO 13D	10/30/88	
Turbidity		0.846 NTU
Pest/Herb* analyses detected the following: None		
BGO 14A	03/03/88	
Pest/Herb* analyses detected the following: None		
BGO 14A	07/30/88	
Turbidity		0.574 NTU
Pest/Herb* analyses detected the following: None		
BGO 14A	10/29/88	
Turbidity		0.158 NTU
Pest/Herb* analyses detected the following: None		
BGO 14C	03/03/88	
Pest/Herb* analyses detected the following: None		
BGO 14C	07/30/88	
Turbidity		11.8 NTU
Pest/Herb* analyses detected the following: None		
BGO 14C	10/29/88	
Turbidity		0.253 NTU
Pest/Herb* analyses detected the following: None		
BGO 14D	07/30/88	
Turbidity		5.25 NTU
BGO 15D	03/21/88	
Pest/Herb* analyses detected the following: None		
BGO 15D	08/02/88	
Turbidity		1.15 NTU
Pest/Herb* analyses detected the following: None		
BGO 15D	10/29/88	
Turbidity		0.301 NTU
Pest/Herb* analyses detected the following: None		
BGO 16A	03/22/88	
Pest/Herb* analyses detected the following: None		
BGO 16A	07/26/88	
Turbidity		0.252 NTU
Turbidity		0.253 NTU
Pest/Herb* analyses detected the following: None		
BGO 16A	11/02/88	
Turbidity		0.247 NTU
Pest/Herb* analyses detected the following: None		
BGO 16D	03/22/88	
Pest/Herb* analyses detected the following: None		
BGO 16D	07/26/88	
Turbidity		20.5 NTU
Pest/Herb* analyses detected the following: None		
BGO 16D	11/02/88	
Turbidity		7.63 NTU
Pest/Herb* analyses detected the following:		
2,4-Dichlorophenoxyacetic Acid		0.0029 mg/L
BGO 17D	03/22/88	
Pest/Herb* analyses detected the following: None		
BGO 17D	07/26/88	
Turbidity		18.5 NTU
Pest/Herb* analyses detected the following: None		
BGO 17D	11/02/88	
Turbidity		3.6 NTU
Pest/Herb* analyses detected the following: None		

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

BGO 18A 03/22/88
Pest/Herb* analyses detected the following: None

BGO 18A 07/26/88
Turbidity 0.332 NTU
Pest/Herb* analyses detected the following: None

BGO 18A 11/02/88
Turbidity 0.166 NTU
Pest/Herb* analyses detected the following: None

BGO 18D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 18D 07/26/88
Turbidity 28.6 NTU
Pest/Herb* analyses detected the following: None

BGO 18D 11/02/88
Turbidity 6.77 NTU
Pest/Herb* analyses detected the following: None

BGO 19D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 19D 07/26/88
Turbidity 1.66 NTU
Pest/Herb* analyses detected the following: None

BGO 19D 11/02/88
Turbidity 10.7 NTU
Pest/Herb* analyses detected the following: None

BGO 20D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 20D 07/26/88
Turbidity 27.9 NTU
Pest/Herb* analyses detected the following: None

BGO 20D 11/02/88
Turbidity 8.54 NTU
Pest/Herb* analyses detected the following: None

BGO 21D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 21D 07/26/88
Turbidity 40.2 NTU
Pest/Herb* analyses detected the following: None

BGO 21D 11/02/88
Turbidity 8.61 NTU
Pest/Herb* analyses detected the following: None

BGO 22D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 22D 07/26/88
Turbidity 2.9 NTU
Pest/Herb* analyses detected the following: None

BGO 22D 11/02/88
Turbidity 2.61 NTU
Pest/Herb* analyses detected the following: None

BGO 23D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 23D 07/26/88
Turbidity 0.487 NTU
Pest/Herb* analyses detected the following: None

BGO 23D 11/02/88
Turbidity 1.2 NTU
Pest/Herb* analyses detected the following: None

BGO 24D 03/22/88
Pest/Herb* analyses detected the following: None

BGO 24D 07/26/88
Turbidity 4.57 NTU
Pest/Herb* analyses detected the following: None

BGO 24D 11/02/88
Turbidity 5.18 NTU
Pest/Herb* analyses detected the following: None

BGO 25A 03/10/88
Pest/Herb* analyses detected the following: None

BGO 25A 07/30/88
Turbidity 0.89 NTU
Pest/Herb* analyses detected the following: None

BGO 25A 10/29/88
Turbidity 0.36 NTU
Pest/Herb* analyses detected the following: None

Well: MGA 36, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 73904.0 E 57891.5	Screen Zone Elevation	ft (msl) 256.3 - 236.3
Latitude	33.283684° N	Top of Casing Elevation	298.3
Longitude	81.657917° W	Casing Material	PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	-	-	-
Water Elevation	ft	237.3	-	-	-
pH	pH	5.4	-	-	-
Conductivity	µmhos/cm	59	-	-	-
Gross Alpha	pCi/L	0.9	-	-	-
Nonvolatile Beta	pCi/L	2.3	-	-	-
Tritium	pCi/mL	23700	-	-	

Well: MGC 9, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 75372.1 E 55610.7	Screen Zone Elevation	ft (msl) 239.1 - 219.1
Latitude	33.283210° N	Top of Casing Elevation	284.1
Longitude	81.666775° W	Casing Material	PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	229.7	229.1	228.1	227.9
pH	pH	7.1	6.0	6.6	6.8
Conductivity	µmhos/cm	211	190	235	261
Gross Alpha	pCi/L	0.4	0.1	0.1	0.9
Nonvolatile Beta	pCi/L	5.6	6.0	7.9	0.6
Tritium	pCi/mL	23500	15100	10300	9680

Well: MGC 11, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 75252.3 E 55770.7	Screen Zone Elevation	ft (msl) 241.2 - 221.2
Latitude	33.283206° N	Top of Casing Elevation	291.2
Longitude	81.666121° W	Casing Material	PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	-	-	-
Water Elevation	ft	230.7	-	-	-
pH	pH	-	-	-	-
Conductivity	µmhos/cm	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-

Well: MGC 19, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 74770.1 E 56408.7	Screen Zone Elevation	ft (msl) 236.6 - 232.6
Latitude	33.283180° N	Top of Casing Elevation	286.6
Longitude	81.663504° W	Casing Material	PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	232.6	231.9	231.6	231.4
pH	pH	5.6	5.8	7.1	6.9
Conductivity	µmhos/cm	159	90	207	207
Gross Alpha	pCi/L	15.6	0.4	1.1	3.5
Nonvolatile Beta	pCi/L	30.7	1.4	2.7	2.2
Tritium	pCi/mL	1430	4230	31.7	38.9

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: MGC 23, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 75528.3			ft (msl)
Coordinates	E 56726.6	Screen Zone Elevation		251.7 - 231.7
Latitude	33.285376° N	Top of Casing Elevation		287.7
Longitude	81.664140° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	-	-	-
Water Elevation	ft	234	-	-	-
pH	pH	-	-	-	-
Conductivity	µmhos/cm	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-

Well: MGC 32, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 73982.1			ft (msl)
Coordinates	E 57448.8	Screen Zone Elevation		263.0 - 243.0
Latitude	33.283134° N	Top of Casing Elevation		298.0
Longitude	81.659235° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	246.3	245	244.5	243.8
pH	pH	5.0	4.4	5.0	5.2
Conductivity	µmhos/cm	51	120	60	59
Gross Alpha	pCi/L	1.6	1.7	0.4	2.7
Nonvolatile Beta	pCi/L	3.9	3.1	2.5	6.1
Tritium	pCi/mL	5840	4010	2730	3020

Well: MGC 36, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 73738.9			ft (msl)
Coordinates	E 57776.0	Screen Zone Elevation		256.6 - 236.6
Latitude	33.283130° N	Top of Casing Elevation		296.6
Longitude	81.657901° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	237.9	236.7	235.6	235.3
pH	pH	3.7	4.8	6.0	5.7
Conductivity	µmhos/cm	25	200	32	35
Gross Alpha	pCi/L	10.0	1.4	1.3	2.5
Nonvolatile Beta	pCi/L	8.2	0.8	3.0	2.4
Tritium	pCi/mL	43.1	2350	3800	4770

Well: MGE 9, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 75215.1			ft (msl)
Coordinates	E 55489.4	Screen Zone Elevation		240.6 - 220.6
Latitude	33.282664° N	Top of Casing Elevation		283.6
Longitude	81.666789° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	228.6	227.9	227.5	227.4
pH	pH	7.0	6.1	6.9	-
Conductivity	µmhos/cm	74	90	163	-
Gross Alpha	pCi/L	0.8	0.4	0.0	-
Nonvolatile Beta	pCi/L	1.3	0.8	0.8	-
Tritium	pCi/mL	1980	5530	8270	-

Well: MGE 21, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 74487.8			ft (msl)
Coordinates	E 56446.2	Screen Zone Elevation		250.0 - 230.0
Latitude	33.282617° N	Top of Casing Elevation		285.0
Longitude	81.662857° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	233.9	233.1	-	-
pH	pH	5.7	5.4	-	-
Conductivity	µmhos/cm	31	130	-	-
Gross Alpha	pCi/L	2.0	1.4	-	-
Nonvolatile Beta	pCi/L	2.4	0.6	-	-
Tritium	pCi/mL	1600	802	-	-

Well: MGE 30, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 73935.8			ft (msl)
Coordinates	E 57175.4	Screen Zone Elevation		251.2 - 231.2
Latitude	33.282586° N	Top of Casing Elevation		282.2
Longitude	81.659865° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	237	236.2	235.4	235.4
pH	pH	4.7	4.2	5.1	4.7
Conductivity	µmhos/cm	53	120	63	66
Gross Alpha	pCi/L	1.9	0.7	0.9	2.5
Nonvolatile Beta	pCi/L	2.9	1.7	2.9	3.5
Tritium	pCi/mL	177	151	120	133

Well: MGE 34, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 73695			ft (msl)
Coordinates	E 57495.1	Screen Zone Elevation		259.4 - 239.4
Latitude	33.282575° N	Top of Casing Elevation		294.4
Longitude	81.658555° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	238.2	236.6	-	-
pH	pH	4.7	4.9	-	-
Conductivity	µmhos/cm	50	120	-	-
Gross Alpha	pCi/L	0.8	0.6	-	-
Nonvolatile Beta	pCi/L	31.3	36.6	-	-
Tritium	pCi/mL	83500	28500	-	-

Well: MGG 15, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 74699			ft (msl)
Coordinates	E 55851.5	Screen Zone Elevation		245.0 - 225.0
Latitude	33.282114° N	Top of Casing Elevation		284.0
Longitude	81.664833° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	-	-	-
Water Elevation	ft	230.3	-	-	-
pH	pH	-	-	-	-
Conductivity	µmhos/cm	-	-	-	-
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-

Well: MGG 19, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 74456			ft (msl)
Coordinates	E 56174.3	Screen Zone Elevation		248.0 - 228.0
Latitude	33.282103° N	Top of Casing Elevation		280.0
Longitude	81.663511° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	232	231.5	-	-
pH	pH	7.0	6.9	-	-
Conductivity	µmhos/cm	157	80	-	-
Gross Alpha	pCi/L	0.4	0.9	-	-
Nonvolatile Beta	pCi/L	5.7	5.3	-	-
Tritium	pCi/mL	47.4	47.7	-	-

Well: MGG 23, Monitoring Grid Wells for Burial Grounds

SRP Grid	N 74214			ft (msl)
Coordinates	E 56491.8	Screen Zone Elevation		248.8 - 228.8
Latitude	33.282086° N	Top of Casing Elevation		277.8
Longitude	81.662205° W	Casing Material		PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	-	-
Water Elevation	ft	234.1	233.8	-	-
pH	pH	5.5	5.9	-	-
Conductivity	µmhos/cm	348	20	-	-
Gross Alpha	pCi/L	1.0	0.0	-	-
Nonvolatile Beta	pCi/L	2.0	0.6	-	-
Tritium	pCi/mL	167	202	-	-

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

Well: MGG 28, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 73905		ft (msl)
	E 56895.4	Screen Zone Elevation	252.5 - 232.5
Latitude	33.282061° N	Top of Casing Elevation	276.5
Longitude	81.660542° W	Casing Material	Steel

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	235.9	235.3	234.5	234
pH	pH	6.8	6.9	6.1	-
Conductivity	µmhos/cm	50	130	52	-
Gross Alpha	pCi/L	1.0	0.1	0.3	-
Nonvolatile Beta	pCi/L	1.6	<0.1	0.4	-
Tritium	pCi/mL	60.5	57.9	40.9	-

Well: MGG 36, Monitoring Grid Wells for Burial Grounds

SRP Grid Coordinates	N 73413		ft (msl)
	E 57541.7	Screen Zone Elevation	253.2 - 233.2
Latitude	33.282027° N	Top of Casing Elevation	291.2
Longitude	81.657885° W	Casing Material	PVC

Parameter	Units	02/23/88	05/03/88	08/22/88	11/28/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	238.7	237.2	235.8	235.8
pH	pH	5.9	5.7	6.0	6.1
Conductivity	µmhos/cm	37	130	37	40
Gross Alpha	pCi/L	0.6	0.2	2.6	0.8
Nonvolatile Beta	pCi/L	3.1	4.1	5.6	32.2
Tritium	pCi/mL	193000	258000	300000	371000

SRL RESEARCH WELLS

Gross Alpha (pCi/L)

Well	Number	Maximum	Minimum	Average
BG 222GR	1	3	3	3.0
BG 822GR	1	<1	<1	1.0
MGA 1	4	4	<1	1.8
MGA 3	3	<1	<1	1.0
MGA 5	4	5	<1	2.0
MGA 7	4	4	<1	1.8
MGA 9	1	1	1	1.0
MGA 11	4	9	<1	3.0
MGA 19	4	2	<1	1.3
MGA 21	4	1	<1	1.0
MGA 23	4	2	<1	1.3
MGA 32	4	2	<1	1.3
MGA 34	1	<1	<1	1.0
MGC 1	1	1	1	1.0
MGC 3	3	5	<1	2.3
MGC 5	2	<1	<1	1.0
MGC 7	3	4	<1	2.0
MGC 13	4	5	<1	2.5
MGC 15	1	2	2	2.0
MGC 17	1	2	2	2.0
MGC 21	4	4	<1	2.3
MGC 30	4	2	<1	1.3
MGC 34	1	<1	<1	1.0
MGE 1	4	4	<1	2.5
MGE 3	4	2	<1	1.5
MGE 5	4	3	<1	1.5
MGE 7	4	4	<1	2.0
MGE 13	4	2	<1	1.3
MGE 15	3	1	<1	1.0
MGE 17	2	2	1	1.5
MGE 19	3	1	<1	1.0
MGE 23	3	5	<1	2.3
MGE 32	2	<1	<1	1.0
MGE 36	1	1	1	1.0
MGG 3	4	4	1	2.3
MGG 5	1	<1	<1	1.0
MGG 7	4	6	<1	3.0
MGG 9	2	3	<1	2.0
MGG 13	4	11	3	5.5
MGG 17	4	40	3	16.5
MGG 21	4	8	<1	4.3
MGG 30	4	4	<1	1.8
MGG 32	1	<1	<1	1.0
MGG 34	3	5	<1	2.3
MGI 1	1	<1	<1	1.0
MGI 5	4	4	<1	2.5
MGI 7	4	16	<1	6.0
MGI 9	4	6	<1	3.0
MGI 13	1	1	<1	1.0
MGI 15	4	6	<1	3.0
MGI 17	4	1	<1	1.0
MGG 21A	4	1	<1	1.0
MGG 21B	4	5	<1	2.3
MGG 21P	4	4	<1	2.8

TABLE 5-76
GROUNDWATER MONITORING RESULTS FROM THE RADIOACTIVE WASTE BURIAL GROUNDS WELLS, CONT'D.

SRL RESEARCH WELLS

Nonvolatile Beta Gamma (pCi/L)

Well	Number	Maximum	Minimum	Average
BG 222GR	1	13	13	13.0
BG 822GR	1	22	22	22.0
MGA 1	4	33	2	16.3
MGA 3	2	71	3	37.0
MGA 5	4	28	1	8.3
MGA 7	4	24	1	9.5
MGA 11	4	69	< 1	20.5
MGA 19	4	12	1	7.0
MGA 21	4	45	< 1	12.8
MGA 23	4	31	1	14.3
MGA 32	4	9	< 1	3.0
MGA 34	1	20	20	20.0
MGC 1	1	36	36	36.0
MGC 3	4	28	2	10.5
MGC 7	4	81	1	23.8
MGC 13	3	102	2	35.3
MGC 15	1	7	7	7.0
MGC 17	1	3	3	3.0
MGC 21	4	14	2	5.5
MGC 30	3	337	3	114.3
MGC 34	1	10	10	10.0
MGE 1	3	24	7	13.0
MGE 3	4	46	1	13.0
MGE 5	3	35	3	14.0
MGE 7	4	21	< 1	6.5
MGE 13	3	156	< 1	54.3
MGE 17	1	13	13	13.0
MGE 19	3	17	< 1	6.3
MGE 23	3	15	< 1	7.7
MGE 32	4	49	1	15.8
MGE 36	4	7	3	4.3
MGG 3	4	19	2	8.3
MGG 5	1	17	17	17.0
MGG 7	4	39	< 1	10.5
MGG 9	2	35	17	26.0
MGG 13	4	98	2	29.3
MGG 17	4	24	1	10.0
MGG 21	4	274	3	72.3
MGG 30	4	2	< 1	1.8
MGG 32	1	42	42	42.0
MGG 34	4	94	< 1	27.3
MGI 1	1	18	18	18.0
MGI 5	4	15	< 1	5.8
MGI 7	4	35	< 1	9.5
MGI 9	4	62	< 1	17.3
MGI 13	1	105	105	105.0
MGI 15	4	21	< 1	8.8
MGI 17	4	27	1	12.0
MGG 21A	4	33	5	12.5
MGG 21B	4	9	3	6.5
MGG 21P	4	23	2	8.5

SRL RESEARCH WELLS

Tritium (pCi/mL)

Well	Number	Maximum	Minimum	Average
BG 222GR	1	58	58	58
BG 822GR	1	2,920,000	2,920,000	2,920,000
MGA 1	4	27,600	143	12,336
MGA 3	1	53,400	53,400	53,400
MGA 5	3	125,000	1,364	59,288
MGA 7	4	28,400	25,800	27,600
MGA 11	4	258	< 39	101
MGA 19	4	301	95	167
MGA 21	4	713	< 111	276
MGA 23	4	1,190	109	385
MGA 32	4	539	< 99	227
MGA 34	1	142	142	142
MGC 1	1	20,800	20,800	20,800
MGC 3	4	167,000	1,300	101,200
MGC 7	3	1,840,000	920,000	1,263,333
MGC 13	4	127	85	105
MGC 15	1	90	90	90
MGC 17	1	156	156	156
MGC 21	4	1,912	354	1,174
MGC 30	4	210	143	168
MGC 34	1	676	676	676
MGE 1	4	90,600	5,490	61,273
MGE 3	4	2,810,000	38,400	795,350
MGE 5	3	131,000	50,600	82,867
MGE 7	4	415,000	< 483	236,371
MGE 13	4	3,860	< 242	1,217
MGE 17	1	443	443	443
MGE 19	4	1,600	< 358	896
MGE 23	4	18,000	435	5,316
MGE 32	4	74,700	16,600	45,975
MGE 36	4	1,430,000	7,590	482,748
MGG 3	4	61,600	2,420	24,900
MGG 5	1	300	300	300
MGG 7	4	35,400	< 9,950	26,088
MGG 9	2	990	620	805
MGG 13	4	2,680,000	79,600	1,088,150
MGG 17	4	3,740	3,570	3,620
MGG 21	4	231,000	154,000	188,000
MGG 30	4	2,420	< 628	1,130
MGG 32	1	369,000	369,000	369,000
MGG 34	4	654,000	< 262,000	411,000
MGI 1	1	76,000	76,000	76,000
MGI 5	4	32,600	< 17,800	24,875
MGI 7	4	345,000	< 12,800	218,200
MGI 9	3	120	< 98	109
MGI 13	1	97	97	97
MGI 15	4	2,040	< 102	630
MGI 17	2	146	110	128
MGG 21A	3	8,304	2,980	4,768
MGG 21B	4	2,020,000	1,730,000	1,907,500
MGG 21P	4	3,480,000	2,200,000	2,617,500

TABLE 5-77
MAXIMUM CONSTITUENT LEVELS AT R AREA

Constituent	DWS	Units	RAC	RRP	RSE	RSF
Gross Alpha	15	pCi/L	2.5	2.3	**20.5**	-
Nonvolatile Beta	-	pCi/L	3.1	-	5590	8.2
Total Radium	5	pCi/L	1.2	-	-	-
Tritium	20	pCi/mL	-	-	3.4	14.8
Chromium	0.05	mg/L	-	-	-	0.007
Lead	0.05	mg/L	0.028	0.01	-	-
Mercury	0.002	mg/L	<0.0002	-	-	-
Silver	0.05	mg/L	<0.002	<0.002	-	<0.002
Nitrate (as N)	10	mg/L	2.35	-	**30**	3.05

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

RAC = R-Area Acid/Caustic Basin Wells
RRP = R-Area Burning/Rubble Pits Wells
RSE = R-Area Reactor Seepage Basins (Series E) Wells
RSF = R-Area Reactor Seepage Basins (Series F) Wells

TABLE 5-77
MAXIMUM CONSTITUENT LEVELS AT R AREA, CONT'D.

Constituent	DWS	Units	RSA	RSB	RSC	RSD
Gross Alpha	15	pCi/L	0.7	10.6	2.5	**15.8**
Nonvolatile Beta	-	pCi/L	3.1	13.6	31.2	3420
Tritium	20	pCi/mL	-	-	-	3.3

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

RSA = R-Area Reactor Seepage Basins (Series A) Wells
RSB = R-Area Reactor Seepage Basins (Series B) Wells
RSC = R-Area Reactor Seepage Basins (Series C) Wells
RSD = R-Area Reactor Seepage Basins (Series D) Wells

TABLE 5-78
GROUNDWATER MONITORING RESULTS FROM THE R-AREA ACID/CAUSTIC BASIN WELLS

Well: RAC 1, R-Area Acid/Caustic Basin

SRP Grid Coordinates	N 55107.3 E 74570.7		ft (msl)
Latitude	33.269295° N	Screen Zone Elevation	277.3 - 247.3
Longitude	81.577499° W	Top of Casing Elevation	283.6
		Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	273.5	272.1	270.5	272.1
pH	pH	4.7	4.8	4.7	4.6
Conductivity	µmhos/cm	95	89	77	103
Alkalinity	mg/L	1	1	0	0
Gross Alpha	pCi/L	2.0	-	1.9	-
Nonvolatile Beta	pCi/L	3.0	-	-	-
Total Radium	pCi/L	< 1.0	-	-	-
Copper	mg/L	0.005	-	-	-
Lead	mg/L	0.017	-	0.009	-
Manganese	mg/L	0.021	-	-	-
Mercury	mg/L	<0.0002	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.59	-	-	-
Nitrate (as N)	mg/L	2.35	-	-	-
Sulfate	mg/L	17.0	-	-	-

Well: RAC 2, R-Area Acid/Caustic Basin

SRP Grid Coordinates	N 55026.3 E 74555.5		ft (msl)
Latitude	33.269091° N	Screen Zone Elevation	273.4 - 243.4
Longitude	81.577382° W	Top of Casing Elevation	280.4
		Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	272.5	271.7	270.6	271.6
pH	pH	4.8	4.8	4.7	4.7
Conductivity	µmhos/cm	34	38	43	44
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.7	-	<3.0	-
Nonvolatile Beta	pCi/L	2.0	-	-	-
Total Radium	pCi/L	< 1.0	-	-	-
Copper	mg/L	0.164	-	-	-
Lead	mg/L	0.024	-	0.028	-
Manganese	mg/L	0.021	-	-	-
Mercury	mg/L	<0.0002	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.13	-	-	-
Nitrate (as N)	mg/L	1.86	-	-	-
Sulfate	mg/L	<5.0	-	-	-

Well: RAC 3, R-Area Acid/Caustic Basin

SRP Grid Coordinates	N 55015.3 E 74667.5		ft (msl)
Latitude	33.269250° N	Screen Zone Elevation	272.3 - 242.3
Longitude	81.577066° W	Top of Casing Elevation	279.3
		Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	271.9	271.4	269.3	271.4
pH	pH	4.9	4.8	5.3	4.8
Conductivity	µmhos/cm	36	40	120	47
Alkalinity	mg/L	1	0	10	0
Gross Alpha	pCi/L	2.5	-	1.5	-
Nonvolatile Beta	pCi/L	3.1	-	-	-
Total Radium	pCi/L	1.2	-	-	-
Copper	mg/L	0.068	-	-	-
Lead	mg/L	0.012	-	<0.006	-
Manganese	mg/L	0.034	-	-	-
Mercury	mg/L	<0.0002	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.45	-	-	-
Nitrate (as N)	mg/L	1.19	-	-	-
Sulfate	mg/L	<5.0	-	-	-

Well: RAC 4, R-Area Acid/Caustic Basin

SRP Grid Coordinates	N 54984.0 E 74588.8		ft (msl)
Latitude	33.269052° N	Screen Zone Elevation	268.2 - 238.2
Longitude	81.577212° W	Top of Casing Elevation	279.0
		Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	11/04/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	271.2	270.2	268.1	270
pH	pH	4.9	4.8	4.4	4.8
Conductivity	µmhos/cm	35	36	42	67
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	1.4	-	<3.0	-
Nonvolatile Beta	pCi/L	1.5	-	-	-
Total Radium	pCi/L	<1.0	-	-	-
Copper	mg/L	<0.004	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Manganese	mg/L	0.022	-	-	-
Mercury	mg/L	<0.0002	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	2.50	-	-	-
Nitrate (as N)	mg/L	1.15	-	-	-
Sulfate	mg/L	<5.0	-	-	-

TABLE 5-79
GROUNDWATER MONITORING RESULTS FROM THE R-AREA BURNING/RUBBLE PITS WELLS

Well: RRP 1, R-Area Burning/Rubble Pits

			ft (msl)
SRP Grid	N 54563.5		
Coordinates	E 75634.6	Screen Zone Elevation	272.4 - 242.4
Latitude	33.269826° N	Top of Casing Elevation	284.4
Longitude	81.573641° W	Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	263.4	263.3	261.6	261.3
pH	pH	4.9	4.7	4.8	4.8
Conductivity	µmhos/cm	24	24	30	27
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	1.5	-	-	-
Copper	mg/L	-	-	-	0.006
Lead	mg/L	0.010	-	0.007	-
Silver	mg/L	<0.0020	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: RRP 2, R-Area Burning/Rubble Pits

			ft (msl)
SRP Grid	N 54468.3		
Coordinates	E 75829.8	Screen Zone Elevation	272.5 - 242.5
Latitude	33.269933° N	Top of Casing Elevation	284.5
Longitude	81.572943° W	Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	262.3	262.2	260.5	260.2
pH	pH	4.5	4.4	4.3	4.4
Conductivity	µmhos/cm	31	39	47	53
Alkalinity	mg/L	0	0	0	0
Gross Alpha	pCi/L	2.3	-	-	-
Copper	mg/L	-	-	-	0.008
Lead	mg/L	<0.006	-	<0.006	-
Silver	mg/L	<0.0020	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: RRP 3, R-Area Burning/Rubble Pits

			ft (msl)
SRP Grid	N 54303.0		
Coordinates	E 75853.0	Screen Zone Elevation	268.1 - 238.1
Latitude	33.269605° N	Top of Casing Elevation	280.1
Longitude	81.572561° W	Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	261.5	261.3	259.5	259.2
pH	pH	5.2	5.1	5.1	5.1
Conductivity	µmhos/cm	10	10	15	12
Alkalinity	mg/L	1	1	1	0
Gross Alpha	pCi/L	<3.0	-	-	-
Copper	mg/L	-	-	-	0.043
Lead	mg/L	<0.006	-	<0.006	-
Silver	mg/L	<0.0020	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: RRP 4, R-Area Burning/Rubble Pits

			ft (msl)
SRP Grid	N 54294.5		
Coordinates	E 75723.3	Screen Zone Elevation	268.3 - 238.3
Latitude	33.269375° N	Top of Casing Elevation	280.2
Longitude	81.572886° W	Casing Material	PVC

Parameter	Units	02/09/88	05/24/88	09/05/88	12/23/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	261.6	261.4	259.5	259.3
pH	pH	4.8	4.8	4.6	4.9
Conductivity	µmhos/cm	18	18	23	19
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	1.4	-	-	-
Copper	mg/L	-	-	-	0.033
Lead	mg/L	<0.006	-	<0.006	-
Silver	mg/L	<0.0020	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS

Well: RSA 7, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58065.7 E 75195.9	Screen Zone Elevation	ft (msl) 289.5 - 269.6
Latitude	33.276861° N	Top of Casing Elevation	312.4
Longitude	81.581592° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277.7	277.4	277.6	277.4
pH	pH	4.5	5.1	5.2	4.9
Conductivity	µmhos/cm	210	-	29	33
Gross Alpha	pCi/L	0.4	0.4	0.4	0.0
Nonvolatile Beta	pCi/L	1.5	1.1	<0.2	1.8

Well: RSA 8, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58068.3 E 75402.3	Screen Zone Elevation	ft (msl) 285.5 - 265.5
Latitude	33.277204° N	Top of Casing Elevation	312.3
Longitude	81.581053° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277.7	278.3	277.6	278.1
pH	pH	3.9	5.7	5.5	5.3
Conductivity	µmhos/cm	210	-	31	37
Gross Alpha	pCi/L	0.2	0.0	0.3	0.7
Nonvolatile Beta	pCi/L	1.2	2.9	0.3	0.6

Well: RSA 9, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58123.8 E 75618.2	Screen Zone Elevation	ft (msl) 284.5 - 264.6
Latitude	33.277675° N	Top of Casing Elevation	311.7
Longitude	81.580597° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.8	275.9	275.5	275.7
pH	pH	3.9	5.3	5.5	5.0
Conductivity	µmhos/cm	210	-	25	26
Gross Alpha	pCi/L	0.4	0.0	0.2	0.6
Nonvolatile Beta	pCi/L	0.3	1.5	0.3	0.8

Well: RSA 10, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58172.8 E 75389.3	Screen Zone Elevation	ft (msl) 288.7 - 268.8
Latitude	33.277414° N	Top of Casing Elevation	311.3
Longitude	81.581290° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.9	274.3	274.8	275.3
pH	pH	3.8	5.6	5.3	4.8
Conductivity	µmhos/cm	200	-	30	32
Gross Alpha	pCi/L	0.2	0.3	0.3	0.6
Nonvolatile Beta	pCi/L	1.0	3.1	1.4	1.9

Well: RSB 7, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 57692.8 E 75044.3	Screen Zone Elevation	ft (msl) 292.6 - 272.7
Latitude	33.275789° N	Top of Casing Elevation	309.0
Longitude	81.581268° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	281.6	280.6	281	282
pH	pH	4.5	4.9	5.3	5.1
Conductivity	µmhos/cm	210	-	26	28
Gross Alpha	pCi/L	0.4	0.2	0.1	<0.0
Nonvolatile Beta	pCi/L	1.8	3.0	0.6	12.0

Well: RSB 8, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 57612.9 E 75178.2	Screen Zone Elevation	ft (msl) 294.3 - 274.3
Latitude	33.275830° N	Top of Casing Elevation	305.8
Longitude	81.580760° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	284.5	283	285.8	283.3
pH	pH	6.5	5.9	5.7	4.8
Conductivity	µmhos/cm	-	-	40	47
Gross Alpha	pCi/L	0.6	0.4	0.2	10.6
Nonvolatile Beta	pCi/L	3.9	2.4	1.1	13.6

Well: RSB 9, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 57527.9 E 75378.3	Screen Zone Elevation	ft (msl) 284.9 -
Latitude	33.275969° N	Top of Casing Elevation	305.6
Longitude	81.580068° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.2	283.1	282.6	284.9
pH	pH	6.3	6.1	6.1	4.7
Conductivity	µmhos/cm	-	-	52	58
Gross Alpha	pCi/L	0.2	0.6	0.6	0.2
Nonvolatile Beta	pCi/L	1.4	1.0	1.6	2.7

Well: RSC 2, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58543.0 E 74328.6	Screen Zone Elevation	ft (msl) 281.9 - 261.9
Latitude	33.276585° N	Top of Casing Elevation	302.0
Longitude	81.584671° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/12/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	276.7	274.6	274.8	275
pH	pH	6.2	6.8	6.0	5.5
Conductivity	µmhos/cm	-	-	26	27
Gross Alpha	pCi/L	0.3	0.7	0.7	1.6
Nonvolatile Beta	pCi/L	1.8	2.3	0.2	14.2

Well: RSC 3, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58724.7 E 74699.7	Screen Zone Elevation	ft (msl) 278.6 - 258.6
Latitude	33.277511° N	Top of Casing Elevation	301.3
Longitude	81.584178° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	272.3	271.1	270.5	271.1
pH	pH	5.4	6.0	6.8	6.8
Conductivity	µmhos/cm	200	-	117	131
Gross Alpha	pCi/L	<0.1	0.5	0.2	0.8
Nonvolatile Beta	pCi/L	1.8	0.8	1.9	1.0

Well: RSC 4, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58900.3 E 75097.8	Screen Zone Elevation	ft (msl) 288.6 - 268.6
Latitude	33.278548° N	Top of Casing Elevation	300.3
Longitude	81.583470° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.8	273.3	273.3	274.9
pH	pH	5.5	6.1	6.2	6.2
Conductivity	µmhos/cm	210	-	48	43
Gross Alpha	pCi/L	0.1	0.7	0.3	1.6
Nonvolatile Beta	pCi/L	1.3	2.6	0.3	4.9

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: RSC 5, R-Area Reactor Seepage Basins

SRP Grid	N 58901.2		ft (msl)
Coordinates	E 75484.9	Screen Zone Elevation	278.3 - 258.3
Latitude	33.279181° N	Top of Casing Elevation	304.9
Longitude	81.582452° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	270.3	269.8	269.9	270.1
pH	pH	6.1	6.2	6.6	6.7
Conductivity	µmhos/cm	120	-	549	600
Gross Alpha	pCi/L	0.0	0.0	0.1	2.5
Nonvolatile Beta	pCi/L	0.8	2.8	1.9	6.7

Well: RSC 6, R-Area Reactor Seepage Basins

SRP Grid	N 58607.1		ft (msl)
Coordinates	E 75686.1	Screen Zone Elevation	287.7 - 267.7
Latitude	33.278858° N	Top of Casing Elevation	304.1
Longitude	81.581351° W	Casing Material	Steel

Parameter	Units	03/16/88	06/20/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	276.1	275.1	275.6	276.6
pH	pH	4.5	4.6	5.5	5.4
Conductivity	µmhos/cm	200	-	45	52
Gross Alpha	pCi/L	0.8	0.1	0.1	0.9
Nonvolatile Beta	pCi/L	0.6	1.5	0.3	7.1

Well: RSC 7, R-Area Reactor Seepage Basins

SRP Grid	N 58200.1		ft (msl)
Coordinates	E 75686.2	Screen Zone Elevation	283.4 - 263.4
Latitude	33.277958° N	Top of Casing Elevation	307.8
Longitude	81.580561° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/12/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275	274.8	274.8	275.2
pH	pH	5.2	5.4	5.4	5.0
Conductivity	µmhos/cm	210	-	26	38
Gross Alpha	pCi/L	1.1	0.1	0.3	1.3
Nonvolatile Beta	pCi/L	1.2	2.2	1.1	31.2

Well: RSC 8, R-Area Reactor Seepage Basins

SRP Grid	N 57818.1		ft (msl)
Coordinates	E 75684.0	Screen Zone Elevation	-
Latitude	33.277109° N	Top of Casing Elevation	308.8
Longitude	81.579826° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/13/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	289.6	288.5	288.3	288.4
pH	pH	4.9	6.3	5.6	5.4
Conductivity	µmhos/cm	210	-	40	41
Gross Alpha	pCi/L	0.5	0.2	0.0	0.1
Nonvolatile Beta	pCi/L	1.3	1.6	0.4	7.4

Well: RSC 9, R-Area Reactor Seepage Basins

SRP Grid	N 59241.2		ft (msl)
Coordinates	E 74565.3	Screen Zone Elevation	271.6 - 251.6
Latitude	33.278435° N	Top of Casing Elevation	301.8
Longitude	81.585534° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/12/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	271.4	269.6	268.8	269.3
pH	pH	6.4	7.1	6.2	5.8
Conductivity	µmhos/cm	-	-	47	56
Gross Alpha	pCi/L	0.1	0.5	0.2	0.4
Nonvolatile Beta	pCi/L	1.7	1.7	0.2	3.0

Well: RSC 10, R-Area Reactor Seepage Basins

SRP Grid	N 59542.7		ft (msl)
Coordinates	E 75470.0	Screen Zone Elevation	275.5 - 255.5
Latitude	33.280577° N	Top of Casing Elevation	297.4
Longitude	81.583736° W	Casing Material	Steel

Parameter	Units	03/17/88	06/18/88	09/12/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	271.8	267.4	268.3	267.4
pH	pH	4.9	6.3	6.0	6.4
Conductivity	µmhos/cm	120	-	43	49
Gross Alpha	pCi/L	0.2	0.4	0.3	1.0
Nonvolatile Beta	pCi/L	3.0	2.6	1.3	2.0

Well: RSD 1, R-Area Reactor Seepage Basins

SRP Grid	N 57440.8		ft (msl)
Coordinates	E 75035.1	Screen Zone Elevation	287.7 - 267.9
Latitude	33.275216° N	Top of Casing Elevation	300.5
Longitude	81.580803° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.4	281.7	290.5	281
pH	pH	4.6	6.3	5.5	4.8
Conductivity	µmhos/cm	230	-	46	54
Gross Alpha	pCi/L	0.8	2.0	4.0	0.6
Nonvolatile Beta	pCi/L	35.2	42.8	100	32.2
Tritium	pCi/mL	-	-	-	-

Well: RSD 2A, R-Area Reactor Seepage Basins

SRP Grid	N 57448.5		ft (msl)
Coordinates	E 74811.5	Screen Zone Elevation	-
Latitude	33.274869° N	Top of Casing Elevation	301.2
Longitude	81.581407° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/11/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	286	283.9	287.4	283
pH	pH	6.3	5.9	7.0	6.4
Conductivity	µmhos/cm	-	-	27	30
Gross Alpha	pCi/L	0.6	0.1	0.1	0.3
Nonvolatile Beta	pCi/L	224	249	217	197
Tritium	pCi/mL	-	-	-	-

Well: RSD 2C, R-Area Reactor Seepage Basins

SRP Grid	N 57479.3		ft (msl)
Coordinates	E 74810.6	Screen Zone Elevation	-
Latitude	33.274936° N	Top of Casing Elevation	301.7
Longitude	81.581469° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.6	282.9	286.1	283.9
pH	pH	5.7	5.5	5.3	4.9
Conductivity	µmhos/cm	-	-	58	71
Gross Alpha	pCi/L	2.2	1.3	15.8	<0.3
Nonvolatile Beta	pCi/L	2530	2270	2380	3420
Tritium	pCi/mL	-	-	-	-

Well: RSD 3, R-Area Reactor Seepage Basins

SRP Grid	N 57451.6		ft (msl)
Coordinates	E 74702.3	Screen Zone Elevation	289.1 - 269.3
Latitude	33.274698° N	Top of Casing Elevation	300.8
Longitude	81.581701° W	Casing Material	PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	286	278.2	286.9	276.8
pH	pH	6.7	5.0	5.7	5.3
Conductivity	µmhos/cm	-	-	34	35
Gross Alpha	pCi/L	1.4	<0.1	0.4	0.6
Nonvolatile Beta	pCi/L	3.3	2.8	3.5	7.3
Tritium	pCi/mL	3.30	-	-	-

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: RSD 4, R-Area Reactor Seepage Basins

SRP Grid	N 57441.4		ft (msl)
Coordinates	E 75154.6	Screen Zone Elevation	290.6 - 270.6
Latitude	33.275412° N	Top of Casing Elevation	301.6
Longitude	81.580489° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	290.2	284.5	291.6	283.6
pH	pH	6.4	5.1	5.6	5.1
Conductivity	µmhos/cm	-	-	32	27
Gross Alpha	pCi/L	0.7	0.3	0.2	1.6
Nonvolatile Beta	pCi/L	105	173	36.4	128
Tritium	pCi/mL	-	-	-	-

Well: RSD 5, R-Area Reactor Seepage Basins

SRP Grid	N 57439.9		ft (msl)
Coordinates	E 75207.0	Screen Zone Elevation	289.6 - 269.6
Latitude	33.275495° N	Top of Casing Elevation	301.7
Longitude	81.580348° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	287	283.2	288.7	282.7
pH	pH	6.6	4.6	5.8	5.2
Conductivity	µmhos/cm	-	-	35	36
Gross Alpha	pCi/L	0.8	0.7	0.2	3.5
Nonvolatile Beta	pCi/L	394	115	340	261
Tritium	pCi/mL	-	-	-	-

Well: RSD 6, R-Area Reactor Seepage Basins

SRP Grid	N 57441.3		ft (msl)
Coordinates	E 75256.6	Screen Zone Elevation	290.1 - 270.1
Latitude	33.275579° N	Top of Casing Elevation	302.1
Longitude	81.580221° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	286.7	283.5	287.5	287.6
pH	pH	6.6	5.5	5.8	5.4
Conductivity	µmhos/cm	-	-	37	38
Gross Alpha	pCi/L	0.8	0.3	0.3	0.5
Nonvolatile Beta	pCi/L	130	125	165	81.4
Tritium	pCi/mL	-	-	-	-

Well: RSD 7, R-Area Reactor Seepage Basins

SRP Grid	N 57394.3		ft (msl)
Coordinates	E 75178.4	Screen Zone Elevation	287.3 - 267.3
Latitude	33.275347° N	Top of Casing Elevation	293.4
Longitude	81.580335° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.9	282.1	287.6	282
pH	pH	6.5	5.0	5.8	5.3
Conductivity	µmhos/cm	-	-	27	-
Gross Alpha	pCi/L	1.3	0.0	1.0	0.1
Nonvolatile Beta	pCi/L	106	196	111	92.7
Tritium	pCi/mL	-	-	-	-

Well: RSD 8, R-Area Reactor Seepage Basins

SRP Grid	N 57394.0		ft (msl)
Coordinates	E 75229.6	Screen Zone Elevation	287.3 - 267.3
Latitude	33.275430° N	Top of Casing Elevation	293.0
Longitude	81.580200° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	286	282.6	287.2	282.8
pH	pH	6.7	5.0	6.0	5.6
Conductivity	µmhos/cm	-	-	75	36
Gross Alpha	pCi/L	0.6	0.4	3.0	7.7
Nonvolatile Beta	pCi/L	747	1310	352	1060
Tritium	pCi/mL	-	-	-	-

Well: RSD 9, R-Area Reactor Seepage Basins

SRP Grid	N 57245.6		ft (msl)
Coordinates	E 75185.9	Screen Zone Elevation	271.7 - 251.7
Latitude	33.275030° N	Top of Casing Elevation	292.6
Longitude	81.580027° W	Casing Material	Steel

Parameter	Units	03/16/88	06/20/88	09/12/88	12/13/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	283.8	283.1	285.8	281.6
pH	pH	5.1	4.3	5.9	5.3
Conductivity	µmhos/cm	200	-	106	41
Gross Alpha	pCi/L	0.4	0.6	0.5	0.5
Nonvolatile Beta	pCi/L	5.1	4.4	4.1	3.1
Tritium	pCi/mL	-	-	-	-

Well: RSD 10, R-Area Reactor Seepage Basins

SRP Grid	N 57246.6		ft (msl)
Coordinates	E 75235.8	Screen Zone Elevation	-
Latitude	33.275114° N	Top of Casing Elevation	292.5
Longitude	81.579898° W	Casing Material	Steel

Parameter	Units	03/16/88	06/20/88	09/12/88	12/13/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	283.7	283	285.5	281.3
pH	pH	4.5	4.2	5.0	4.6
Conductivity	µmhos/cm	240	-	28	31
Gross Alpha	pCi/L	1.6	1.0	0.3	0.8
Nonvolatile Beta	pCi/L	43.8	52.7	48.0	58.8
Tritium	pCi/mL	-	-	-	-

Well: RSD 11, R-Area Reactor Seepage Basins

SRP Grid	N 57249.1		ft (msl)
Coordinates	E 75285.6	Screen Zone Elevation	-
Latitude	33.275200° N	Top of Casing Elevation	292.3
Longitude	81.579771° W	Casing Material	Steel

Parameter	Units	03/16/88	06/20/88	09/12/88	12/13/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	283.5	283	285.4	281.5
pH	pH	5.2	4.3	5.7	5.0
Conductivity	µmhos/cm	240	-	65	35
Gross Alpha	pCi/L	0.1	0.4	0.7	1.0
Nonvolatile Beta	pCi/L	11.3	16.3	6.1	18.9
Tritium	pCi/mL	-	-	-	-

Well: RSE 1A, R-Area Reactor Seepage Basins

SRP Grid	N 57734.5		ft (msl)
Coordinates	E 74712.7	Screen Zone Elevation	294.8 - 274.8
Latitude	33.275341° N	Top of Casing Elevation	304.2
Longitude	81.582222° W	Casing Material	PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	284.2	280.4	286.2	283.2
pH	pH	6.7	4.8	5.4	5.1
Conductivity	µmhos/cm	-	-	24	26
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.6	0.1	0.2	0.7
Nonvolatile Beta	pCi/L	19.7	32.0	25.6	24.9
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: RSE 1B, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57731.4			
Coordinates	E 74698.1	Screen Zone Elevation		295.7 - 275.7
Latitude	33.275310° N	Top of Casing Elevation		303.3
Longitude	81.582255° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.3	281.7	286.8	282.8
pH	pH	6.7	4.8	4.9	5.0
Conductivity	µmhos/cm	-	-	32	63
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.6	<0.1	0.3	31.9
Nonvolatile Beta	pCi/L	12.2	14.3	9.3	5590
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 1C, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57730.8			
Coordinates	E 74684.1	Screen Zone Elevation		288.5 - 268.5
Latitude	33.275286° N	Top of Casing Elevation		303.3
Longitude	81.582290° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.8	281.3	287.5	279.3
pH	pH	6.7	4.7	5.4	5.1
Conductivity	µmhos/cm	-	-	22	25
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	3.7	0.0	0.2	0.9
Nonvolatile Beta	pCi/L	6.8	3.5	1.5	20.2
Tritium	pCi/mL	3.00	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 2, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57594.9			
Coordinates	E 74743.5	Screen Zone Elevation		289.5 - 269.7
Latitude	33.275082° N	Top of Casing Elevation		302.5
Longitude	81.581870° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	281.2	278.7	282.8	279
pH	pH	6.7	4.9	5.3	4.8
Conductivity	µmhos/cm	-	-	22	34
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.4	0.6	2.3	1.0
Nonvolatile Beta	pCi/L	4.7	5.8	4.8	14.1
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 3A, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57445.8			
Coordinates	E 74931.2	Screen Zone Elevation		288.0 - 268.2
Latitude	33.275058° N	Top of Casing Elevation		301.0
Longitude	81.581086° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	285.7	281	287	280.6
pH	pH	6.9	5.0	5.4	5.0
Conductivity	µmhos/cm	-	-	49	52
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.3	1.1	-	0.4
Nonvolatile Beta	pCi/L	20.3	12.4	-	22.0
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 4A, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57528.4			
Coordinates	E 75101.1	Screen Zone Elevation		-
Latitude	33.275518° N	Top of Casing Elevation		304.6
Longitude	81.580799° W	Casing Material		Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	284	282.2	283.6	282.6
pH	pH	6.7	4.3	5.2	4.7
Conductivity	µmhos/cm	-	-	36	39
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.6	1.1	1.1	1.4
Nonvolatile Beta	pCi/L	70.3	42.3	18.9	44.9
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 4C, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57533.6			
Coordinates	E 75092.6	Screen Zone Elevation		-
Latitude	33.275515° N	Top of Casing Elevation		304.7
Longitude	81.580832° W	Casing Material		Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	283.7	282.7	282.7	283.2
pH	pH	6.2	4.6	5.5	4.8
Conductivity	µmhos/cm	-	-	35	38
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.1	0.1	0.8	0.6
Nonvolatile Beta	pCi/L	199	142	117	106
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 5, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 57588.9			
Coordinates	E 74969.6	Screen Zone Elevation		-
Latitude	33.275437° N	Top of Casing Elevation		306.0
Longitude	81.581263° W	Casing Material		Steel

Parameter	Units	03/19/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	282	281.4	281.2	281.4
pH	pH	6.3	4.9	5.4	5.3
Conductivity	µmhos/cm	250	-	38	42
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	-	0.6	0.5	0.3
Nonvolatile Beta	pCi/L	-	30.1	13.0	18.8
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 7, R-Area Reactor Seepage Basins

				ft (msl)
SRP Grid	N 58481.5			
Coordinates	E 74783.7	Screen Zone Elevation		286.3 - 266.5
Latitude	33.277110° N	Top of Casing Elevation		302.4
Longitude	81.583485° W	Casing Material		PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.4	275.2	274.4	275.4
pH	pH	6.9	4.7	5.2	5.2
Conductivity	µmhos/cm	-	-	39	41
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.2	0.1	0.2	0.5
Nonvolatile Beta	pCi/L	4.5	4.3	1.6	4.4
Tritium	pCi/mL	3.40	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: RSE 8, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58538.8 E 74869.4	Screen Zone Elevation	ft (msl) 291.0 - 271.2
Latitude	33.277376° N	Top of Casing Elevation	302.2
Longitude	81.583370° W	Casing Material	PVC

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277.3	276	275.4	275.7
pH	pH	6.8	4.8	5.1	4.9
Conductivity	µmhos/cm	-	-	60	61
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.6	0.6	1.0	5.5
Nonvolatile Beta	pCi/L	1.3	2.6	4.6	6.7
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 9, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58463.3 E 74971.1	Screen Zone Elevation	ft (msl) 286.7 - 266.7
Latitude	33.277375° N	Top of Casing Elevation	306.0
Longitude	81.582956° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.9	275.6	275	275.2
pH	pH	3.9	4.2	4.9	4.6
Conductivity	µmhos/cm	220	-	41	43
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.2	0.5	0.2	0.1
Nonvolatile Beta	pCi/L	1.3	3.8	1.0	1.4
Tritium	pCi/mL	-	-	-	-
Iron	mg/L				
Sodium	mg/L				
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 10, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58420.7 E 74848.3	Screen Zone Elevation	ft (msl) 290.5 - 270.7
Latitude	33.277080° N	Top of Casing Elevation	304.7
Longitude	81.583196° W	Casing Material	PVC

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.7	275.7	275.2	275.5
pH	pH	4.7	4.6	4.9	4.9
Conductivity	µmhos/cm	250	-	36	38
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.1	0.5	0.2	1.4
Nonvolatile Beta	pCi/L	3.0	6.3	5.9	9.9
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 11, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58357.6 E 74787.7	Screen Zone Elevation	ft (msl) -
Latitude	33.276842° N	Top of Casing Elevation	303.8
Longitude	81.583234° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277	276.4	275.8	276.3
pH	pH	6.7	4.5	5.2	5.0
Conductivity	µmhos/cm	210	-	55	63
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.8	0.8	1.1	1.3
Nonvolatile Beta	pCi/L	668	759	419	1170
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 12, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58318.2 E 74842.3	Screen Zone Elevation	ft (msl) -
Latitude	33.276844° N	Top of Casing Elevation	305.8
Longitude	81.583013° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	276.8	275.8	275.8	275.8
pH	pH	5.0	4.8	5.3	5.3
Conductivity	µmhos/cm	220	-	33	44
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.0	0.4	0.4	1.7
Nonvolatile Beta	pCi/L	196	181	261	169
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 13, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 57507.6 E 75146.7	Screen Zone Elevation	ft (msl) -
Latitude	33.275546° N	Top of Casing Elevation	301.2
Longitude	81.580639° W	Casing Material	Steel

Parameter	Units	03/12/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	286.9	284.1	286.5	284.2
pH	pH	7.1	5.8	5.1	5.0
Conductivity	µmhos/cm	-	-	32	49
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.5	0.1	0.7	0.3
Nonvolatile Beta	pCi/L	131	84.7	99.8	137
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L		-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 18, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58247.2 E 74839.5	Screen Zone Elevation	ft (msl) 288.1 - 268.1
Latitude	33.276682° N	Top of Casing Elevation	307.1
Longitude	81.582883° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	276.2	275.9	276.1	276.1
pH	pH	5.3	5.7	6.0	5.9
Conductivity	µmhos/cm	220	-	66	72
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	0.1	<0.1	0.1	0.4
Nonvolatile Beta	pCi/L	1.0	0.8	1.1	1.7
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

Well: RSE 19, R-Area Reactor Seepage Basins

SRP Grid Coordinates	N 58318.4 E 74791.2	Screen Zone Elevation	ft (msl) 282.5 - 262.5
Latitude	33.276761° N	Top of Casing Elevation	304.8
Longitude	81.583148° W	Casing Material	Steel

Parameter	Units	03/16/88	06/18/88	09/10/88	12/10/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	275.8	275	275.6	275.6
pH	pH	5.0	5.0	5.4	5.3
Conductivity	µmhos/cm	210	-	71	74
Alkalinity	mg/L	-	-	-	-
Gross Alpha	pCi/L	1.0	0.8	0.6	1.9
Nonvolatile Beta	pCi/L	59.4	61.4	64.5	74.2
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-

TABLE 5-80
GROUNDWATER MONITORING RESULTS FROM THE R-AREA REACTOR SEEPAGE BASINS WELLS, CONT'D.

Well: RSE 24, R-Area Reactor Seepage Basins

SRP Grid	N 57370.4		ft (msl)
Coordinates	E 74638.9	Screen Zone Elevation	257.6 - 237.6
Latitude	33.274415° N	Top of Casing Elevation	294.1
Longitude	81.581710° W	Casing Material	PVC

Parameter	Units	03/02/88	04/19/88	07/12/88	10/14/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	277.2	276.7	277.3	277.4
pH	pH	5.7	5.6	5.6	5.5
Conductivity	µmhos/cm	29	29	28	31
Alkalinity	mg/L	2	2	2	2
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	0.012	-	0.100	-
Sodium	mg/L	2.86	-	-	-
Nitrate (as N)	mg/L	2.00	-	2.15	-

Well: RSE 25, R-Area Reactor Seepage Basins

SRP Grid	N 55824.5		ft (msl)
Coordinates	E 74544.5	Screen Zone Elevation	257.5 - 237.5
Latitude	33.270840° N	Top of Casing Elevation	293.9
Longitude	81.578960° W	Casing Material	PVC

Parameter	Units	03/02/88	04/19/88	07/12/88	10/14/88
Sampling Method	NA	Bail	Bail	Bail	Bail
Water Elevation	ft	274.1	273.4	273.4	273
pH	pH	5.7	5.3	5.2	5.5
Conductivity	µmhos/cm	68	66	64	70
Alkalinity	mg/L	7	6	8	7
Gross Alpha	pCi/L	-	-	-	-
Nonvolatile Beta	pCi/L	-	-	-	-
Tritium	pCi/mL	-	-	-	-
Iron	mg/L	0.025	-	0.579	-
Sodium	mg/L	6.33	-	-	-
Nitrate (as N)	mg/L	30.0	-	3.52	-

Well: RSF 1, R-Area Reactor Seepage Basins

SRP Grid	N 58505.3		ft (msl)
Coordinates	E 74869.4	Screen Zone Elevation	238.8 - 228.8
Latitude	33.277302° N	Top of Casing Elevation	303.1
Longitude	81.583305° W	Casing Material	PVC

Parameter	Units	03/02/88	04/19/88	07/12/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	274.2	274	274.1	274.5
pH	pH	10.4	10.6	9.9	10.4
Conductivity	µmhos/cm	145	340	136	144
Alkalinity	mg/L	111	94	49	59
Nonvolatile Beta	pCi/L	2.6	-	-	-
Tritium	pCi/mL	14.8	-	14.2	-
Calcium	mg/L	23.3	-	-	-
Chromium	mg/L	0.007	-	-	-
Iron	mg/L	0.006	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	3.43	-	-	-
Nitrate (as N)	mg/L	1.05	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

Well: RSF 2, R-Area Reactor Seepage Basins

SRP Grid	N 57670.4		ft (msl)
Coordinates	E 74628.6	Screen Zone Elevation	235.3 - 224.8
Latitude	33.275062° N	Top of Casing Elevation	302.8
Longitude	81.582319° W	Casing Material	PVC

Parameter	Units	03/02/88	04/19/88	07/12/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	275.7	275.3	275.4	275.4
pH	pH	5.5	5.4	5.4	5.7
Conductivity	µmhos/cm	58	58	55	58
Alkalinity	mg/L	7	12	8	8
Nonvolatile Beta	pCi/L	<2.0	-	-	-
Tritium	pCi/mL	2.80	-	2.53	-
Calcium	mg/L	4.61	-	-	-
Chromium	mg/L	<0.004	-	-	-
Iron	mg/L	0.016	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	4.10	-	-	-
Nitrate (as N)	mg/L	3.05	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	0.007	-	-	-

Well: RSF 3, R-Area Reactor Seepage Basins

SRP Grid	N 57621.4		ft (msl)
Coordinates	E 75206.7	Screen Zone Elevation	239.8 - 229.8
Latitude	33.275896° N	Top of Casing Elevation	307.1
Longitude	81.580701° W	Casing Material	PVC

Parameter	Units	03/02/88	04/19/88	07/12/88	10/14/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	276.3	276.3	276.9	277.3
pH	pH	6.3	5.7	6.1	6.1
Conductivity	µmhos/cm	48	43	42	48
Alkalinity	mg/L	13	10	11	11
Nonvolatile Beta	pCi/L	8.2	-	-	-
Tritium	pCi/mL	1.50	-	1.49	-
Calcium	mg/L	1.09	-	-	-
Chromium	mg/L	<0.004	-	-	-
Iron	mg/L	0.076	-	-	-
Silver	mg/L	<0.0020	-	-	-
Sodium	mg/L	7.43	-	-	-
Nitrate (as N)	mg/L	0.36	-	-	-
Sulfate	mg/L	<5.0	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-

TABLE 5-81
MAXIMUM CONSTITUENT LEVELS AT S AREA

Constituent	DWS	Units	SBG	SLP
Gross Alpha	15	pCi/L	-	2.3
Nonvolatile Beta	-	pCi/L	4.6	3.9
Total Radium	5	pCi/L	-	0.5
Tritium	20	pCi/mL	**22.7**	12.6
Arsenic	0.05	mg/L	<0.002	0.002
Barium	1	mg/L	-	0.02
Cadmium	0.01	mg/L	-	<0.002
Chromium	0.05	mg/L	-	<0.004
Fluoride	4	mg/L	-	<0.1
Lead	0.05	mg/L	0.023	0.009
Mercury	0.002	mg/L	0.0007	0.0002
Selenium	0.01	mg/L	-	<0.002
Silver	0.05	mg/L	-	<0.002
Nitrate (as N)	10	mg/L	-	0.81
Carbon Tetrachloride	0.005	mg/L	<0.001	-
Chloroform	0.1*	mg/L	0.013	-
Trichloroethylene	0.005	mg/L	**1.25**	-
1,1,1-Trichloroethane	0.2	mg/L	<0.001	-
Benzene	0.005	mg/L	<0.005	-
Chloroethene	0.002	mg/L	<0.01	-
1,2-Dichloroethane	0.005	mg/L	<0.005	-
1,1-Dichloroethylene	0.005	mg/L	<0.005	-
2,4-D	0.1	mg/L	-	<0.0003
Endrin	0.0002	mg/L	-	<0.0001
Lindane	0.004	mg/L	-	<0.00001
Methoxychlor	0.1	mg/L	-	<0.0005
Silvex	0.01	mg/L	-	<0.0001
Toxaphene	0.005	mg/L	-	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

SBG = S-Area Background Wells
SLP = S-Area Low Point Pump Pit Wells

TABLE 5-82
GROUNDWATER MONITORING RESULTS FROM THE DEFENSE WASTE PROCESSING FACILITY WELLS

Well: SBG 1, S-Area Background Wells

				ft (msl)
SRP Grid	N 74619.4			
Coordinates	E 63749.1	Screen Zone Elevation		220.7 - 190.7
Latitude	33.294822° N	Top of Casing Elevation		262.4
Longitude	81.643880° W	Casing Material		PVC

Parameter	Units	02/21/88	04/19/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.6	236.7	236.3	236
pH	pH	4.9	5.0	4.8	4.5
Conductivity	µmhos/cm	34	36	38	39
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	-	-	1.1	-
Nonvolatile Beta	pCi/L	2.9	-	1.1	-
Tritium	pCi/mL	21.2	-	14.6	22.7
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.829	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Mercury	mg/L	0.0005	-	0.0007	-
Tot. Org. Carbon	mg/L	-	-	<1.000	-
Tot. Org. Halogens	mg/L	0.013	-	0.041	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SBG 2, S-Area Background Wells

				ft (msl)
SRP Grid	N 74570.2			
Coordinates	E 64939.6	Screen Zone Elevation		235.9 - 205.9
Latitude	33.296655° N	Top of Casing Elevation		290.0
Longitude	81.640649° W	Casing Material		PVC

Parameter	Units	03/23/88	06/13/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.6	236.7	236.4	236.1
pH	pH	5.2	4.8	4.9	4.7
Conductivity	µmhos/cm	19	16	18	18
Alkalinity	mg/L	1	0	1	0
Gross Alpha	pCi/L	1.1	1.4	0.1	-
Nonvolatile Beta	pCi/L	3.2	0.9	1.0	-
Tritium	pCi/mL	21.2	19.1	10.2	15.4
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.780	-	-	-
Lead	mg/L	0.009	-	<0.006	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Tot. Org. Carbon	mg/L	-	-	<1.000	-
Tot. Org. Halogens	mg/L	<0.005	-	0.013	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SBG 3, S-Area Background Wells

				ft (msl)
SRP Grid	N 73699.9			
Coordinates	E 65265.6	Screen Zone Elevation		236.6 - 206.6
Latitude	33.295262° N	Top of Casing Elevation		286.6
Longitude	81.638100° W	Casing Material		PVC

Parameter	Units	03/23/88	06/13/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	237.3	236.5	236.3	236.1
pH	pH	5.1	4.8	4.9	5.1
Conductivity	µmhos/cm	18	15	16	17
Alkalinity	mg/L	1	0	1	0
Gross Alpha	pCi/L	1.0	0.4	0.2	-
Nonvolatile Beta	pCi/L	2.3	-	0.7	-
Tritium	pCi/mL	22.5	19.2	10.2	14.9
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.491	-	-	-
Lead	mg/L	0.010	-	<0.006	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Tot. Org. Carbon	mg/L	-	-	1.30	-
Tot. Org. Halogens	mg/L	<0.005	-	0.007	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SBG 4, S-Area Background Wells

				ft (msl)
SRP Grid	N 72399.8			
Coordinates	E 65010.2	Screen Zone Elevation		215.6 - 185.6
Latitude	33.291969° N	Top of Casing Elevation		273.1
Longitude	81.636248° W	Casing Material		PVC

Parameter	Units	02/21/88	04/19/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.5	239.6	239	238.9
pH	pH	4.9	4.7	4.7	4.8
Conductivity	µmhos/cm	28	27	27	28
Alkalinity	mg/L	0	0	1	0
Gross Alpha	pCi/L	-	-	0.8	-
Nonvolatile Beta	pCi/L	4.6	-	5.8	-
Tritium	pCi/mL	11.6	-	11.2	15.5
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.853	-	-	-
Lead	mg/L	0.011	-	0.012	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Tot. Org. Carbon	mg/L	-	-	1.30	-
Tot. Org. Halogens	mg/L	0.036	-	0.055	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.013	-	0.002	-
Tetrachloroethylene	mg/L	0.006	-	0.002	-
Trichloroethylene	mg/L	0.030	-	0.047	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: SBG 5, S-Area Background Wells

				ft (msl)
SRP Grid	N 72208.3			
Coordinates	E 64499.0	Screen Zone Elevation		219.4 - 199.4
Latitude	33.290712° N	Top of Casing Elevation		284.5
Longitude	81.637223° W	Casing Material		PVC

Parameter	Units	02/21/88	04/19/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	248.1	247.8	247.2	247.2
pH	pH	6.5	6.5	6.2	6.0
Conductivity	µmhos/cm	59	58	56	56
Alkalinity	mg/L	14	20	18	18
Gross Alpha	pCi/L	-	-	0.2	-
Nonvolatile Beta	pCi/L	3.0	-	1.8	-
Tritium	pCi/mL	3.70	-	1.96	4.43
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	6.75	-	-	-
Lead	mg/L	<0.006	-	<0.006	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Tot. Org. Carbon	mg/L	-	-	2.60	-
Tot. Org. Halogens	mg/L	0.012	-	<0.005	-
Carbon Tetrachloride	mg/L	<0.001	<0.005	<0.001	-
Chloroform	mg/L	0.001	<0.005	0.002	-
Tetrachloroethylene	mg/L	0.002	<0.005	0.002	-
Trichloroethylene	mg/L	1.25	0.012	0.007	-
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	-

Well: SBG 6, S-Area Background Wells

				ft (msl)
SRP Grid	N 73599.3			
Coordinates	E 63860.0	Screen Zone Elevation		238.1 - 208.1
Latitude	33.292746° N	Top of Casing Elevation		281.7
Longitude	81.641607° W	Casing Material		PVC

Parameter	Units	02/21/88	04/19/88	08/16/88	10/27/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.5	243.3	242.5	242.4
pH	pH	4.9	4.9	4.9	4.8
Conductivity	µmhos/cm	29	29	30	29
Alkalinity	mg/L	1	1	2	0
Gross Alpha	pCi/L	-	-	0.7	-
Nonvolatile Beta	pCi/L	2.4	-	1.8	-
Tritium	pCi/mL	11.3	-	6.51	10.9
Arsenic	mg/L	<0.002	-	-	-
Calcium	mg/L	0.750	-	-	-
Lead	mg/L	0.023	-	0.011	-
Mercury	mg/L	<0.0002	-	<0.0002	-
Tot. Org. Carbon	mg/L	-	-	2.50	-
Tot. Org. Halogens	mg/L	<0.005	-	0.009	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	0.002	-	0.004	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	<0.001	-	<0.001	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Other Analyses
(Gamma PHA Analytes: Table 5-91)

SBG 5 04/19/88
GCMS Scan detected the following:
trans-1,2-Dichloroethene 0.036 mg/L

TABLE 5-83
GROUNDWATER MONITORING RESULTS FROM THE S-AREA LOW POINT PUMP PIT WELLS

Well: SLP 1, S-Area Low Point Pump Pit

SRP Grid	N 72958.4		ft (msl)
Coordinates	E 64449.1	Screen Zone Elevation	248.0 - 228.0
Latitude	33.292290° N	Top of Casing Elevation	284.8
Longitude	81.638811° W	Casing Material	PVC

Parameter	Units	03/23/88	06/13/88	08/31/88	12/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.9	243.2	242.9	242.5
pH	pH	6.6	5.5	5.5	5.5
Conductivity	µmhos/cm	52	29	30	26
Alkalinity	mg/L	17	8	6	6
TDS	mg/L	60	28	29	20
Gross Alpha	pCi/L	2.3	1.5	1.9	0.7
Nonvolatile Beta	pCi/L	2.4	2.0	1.3	< 2.0
Total Radium	pCi/L	< 1.0	0.5	0.5	< 1.0
Tritium	pCi/mL	11.7	11.9	7.34	11.4
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.018	0.019	0.014	0.020
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.04	4.01	2.50	3.23
Chloride	mg/L	4.0	3.6	< 1.0	4.1
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	0.024	0.153	0.009	0.064
Lead	mg/L	< 0.006	0.009	0.008	< 0.006
Magnesium	mg/L	0.387	0.426	0.271	0.338
Manganese	mg/L	0.085	0.090	0.068	0.087
Mercury	mg/L	< 0.0002	0.0002	0.0002	< 0.0002
Potassium	mg/L	0.755	< 0.500	< 0.500	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	4.96	3.64	3.48	6.20
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	4.64	2.67	2.29	1.91
Total Phosphates	mg/L	0.080	0.030	0.030	< 0.020
Nitrate (as N)	mg/L	0.26	0.14	0.12	0.07
Sulfate	mg/L	5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.013	< 0.005	0.008	< 0.005

Well: SLP 2, S-Area Low Point Pump Pit

SRP Grid	N 72863.4		ft (msl)
Coordinates	E 64529.7	Screen Zone Elevation	237.7 - 217.7
Latitude	33.292211° N	Top of Casing Elevation	283.8
Longitude	81.638414° W	Casing Material	PVC

Parameter	Units	03/23/88	06/13/88	08/30/88	12/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	243.9	243.2	242.8	242.4
pH	pH	10.1	8.8	8.6	7.3
Conductivity	µmhos/cm	101	75	73	59
Alkalinity	mg/L	40	30	23	21
TDS	mg/L	72	62	51	48
Gross Alpha	pCi/L	1.1	< 3.0	0.6	< 3.0
Nonvolatile Beta	pCi/L	3.9	1.6	1.4	< 2.0
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	20.4	10.0	8.64	9.78
Arsenic	mg/L	< 0.002	0.002	< 0.002	< 0.002
Barium	mg/L	0.011	< 0.004	0.009	0.011
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	17.0	2.11	11.6	10.2
Chloride	mg/L	1.3	1.5	< 1.0	1.9
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	< 0.004	0.056	0.010	< 0.020
Lead	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Magnesium	mg/L	0.202	0.035	0.193	0.197
Manganese	mg/L	< 0.002	0.002	0.004	0.012
Mercury	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Potassium	mg/L	1.11	< 0.500	0.532	< 0.500
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.24	3.39	2.96	6.41
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	2.65	0.27	1.55	1.68
Total Phosphates	mg/L	0.030	0.040	< 0.020	< 0.020
Nitrate (as N)	mg/L	0.77	0.57	0.71	0.81
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	0.016	< 0.005	< 0.005	< 0.005

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

SLP 1 03/23/88
Pest/Herb* analyses detected the following: None

SLP 2 03/23/88
Pest/Herb* analyses detected the following: None

TABLE 5-84
MAXIMUM CONSTITUENT LEVELS AT TNX AREA

Constituent	DWS	Units	XSB	YSB	TBG
Gross Alpha	15	pCi/L	**17.5**	1.5	**83.7**
Nonvolatile Beta	-	pCi/L	20.8	2.8	68.9
Total Radium	5	pCi/L	**6.1**	0.9	**42.6**
Tritium	20	pCi/mL	12.5	3.22	2.42
Cobalt-60	0.1	pCi/mL	0	-	0
Chromium-51	6	pCi/mL	0	-	0
Cesium-134	0.08	pCi/mL	0	-	0
Cesium-137	0.2	pCi/mL	0	-	0
Iodine-131	0.003	pCi/mL	0	-	0
Ruthenium-103	0.2	pCi/mL	0.013	-	0
Ruthenium-106	0.03	pCi/mL	**0.06**	-	0
Antimony-125	0.3	pCi/mL	0	-	0
Zirconium/Niobium-95	0.2	pCi/mL	0	-	0
Arsenic	0.05	mg/L	0.004	<0.002	-
Barium	1	mg/L	0.33	0.015	-
Cadmium	0.01	mg/L	<0.002	<0.002	-
Chromium	0.05	mg/L	0.007	<0.004	-
Fluoride	4	mg/L	0.24	0.12	-
Lead	0.05	mg/L	**0.067**	<0.006	-
Mercury	0.002	mg/L	**0.0051**	<0.0002	0.0018
Selenium	0.01	mg/L	<0.002	<0.002	-
Silver	0.05	mg/L	<0.002	<0.002	-
Nitrate (as N)	10	mg/L	**50.1**	8.84	-
Carbon Tetrachloride	0.005	mg/L	**0.057**	<0.001	-
Chloroform	0.1*	mg/L	0.002	<0.001	-
Trichloroethylene	0.005	mg/L	**0.782**	0.002	-
1,1,1-Trichloroethane	0.2	mg/L	<0.001	<0.001	-
Benzene	0.005	mg/L	<0.005	<0.005	<0.005
Chloroethene	0.002	mg/L	<0.01	<0.01	<0.01
1,2-Dichloroethane	0.005	mg/L	<0.005	<0.005	<0.005
1,1-Dichloroethylene	0.005	mg/L	<0.005	<0.005	<0.005
2,4-D	0.1	mg/L	<0.0003	-	<0.0003
Endrin	0.0002	mg/L	<0.0001	-	<0.0001
Lindane	0.004	mg/L	<0.00001	-	<0.00001
Methoxychlor	0.1	mg/L	<0.0005	-	<0.0005
Silvex	0.01	mg/L	<0.0001	-	<0.0001
Toxaphene	0.005	mg/L	<0.001	-	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

XSB = Old TNX Seepage Basin Wells
YSB = New TNX Seepage Basin Wells
TBG = TNX Burying Ground Wells

TABLE 5-85
GROUNDWATER MONITORING RESULTS FROM THE NEW TNX SEEPAGE BASIN WELLS

Well: YSB 1A, New TNX Seepage Basin

SRP Grid	N 71162.3			ft (msl)
Coordinates	E 17809.0	Screen Zone Elevation		128.4 - 98.4
Latitude	33.212185° N	Top of Casing Elevation		145.5
Longitude	81.758059° W	Casing Material		PVC

Parameter	Units	02/06/88	05/21/88	08/02/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	117.3	117.5	117.2	116.2
pH	pH	5.7	6.0	5.7	5.7
Conductivity	µmhos/cm	35	37	38	40
Alkalinity	mg/L	3	6	7	7
Gross Alpha	pCi/L	1.5	-	0.9	< 3.0
Nonvolatile Beta	pCi/L	2.8	-	2.0	1.2
Total Radium	pCi/L	-	-	< 1.0	< 1.0
Tritium	pCi/mL	-	-	1.65	-
Arsenic	mg/L	-	-	< 0.002	< 0.002
Barium	mg/L	-	-	0.009	0.010
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	-	< 0.002	< 0.002
Calcium	mg/L	-	-	2.32	-
Chloride	mg/L	1.3	-	3.6	3.7
Chromium	mg/L	-	-	< 0.004	< 0.004
Copper	mg/L	-	-	< 0.004	-
Fluoride	mg/L	-	-	< 0.10	< 0.10
Iron	mg/L	0.008	-	0.051	0.046
Lead	mg/L	-	-	< 0.006	< 0.006
Magnesium	mg/L	-	-	0.259	-
Manganese	mg/L	-	-	0.005	0.004
Mercury	mg/L	-	-	< 0.0002	< 0.0002
Nickel	mg/L	-	-	< 0.004	-
Potassium	mg/L	-	-	0.932	-
Selenium	mg/L	-	-	< 0.002	< 0.002
Silica	mg/L	-	-	4.31	-
Silver	mg/L	-	-	< 0.0020	< 0.0020
Sodium	mg/L	2.80	-	2.68	2.85
Total Phosphates	mg/L	< 0.020	-	0.060	-
Zinc	mg/L	0.043	-	0.035	-
Nitrate (as N)	mg/L	1.07	-	1.18	1.12
Sulfate	mg/L	< 5.0	-	< 5.0	< 5.0
Phenols	mg/L		-	< 0.003	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	-	-	0.237	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

Well: YSB 3A, New TNX Seepage Basin

SRP Grid	N 70859.1			ft (msl)
Coordinates	E 17755.7	Screen Zone Elevation		126.7 - 96.7
Latitude	33.211428° N	Top of Casing Elevation		143.9
Longitude	81.757610° W	Casing Material		PVC

Parameter	Units	02/08/88	05/21/88	08/20/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	117.6	117.9	117.8	116
pH	pH	6.6	6.8	6.4	6.4
Conductivity	µmhos/cm	280	317	310	215
Alkalinity	mg/L	73	106	83	53
Gross Alpha	pCi/L	< 3.0	-	< 3.0	1.3
Nonvolatile Beta	pCi/L	< 2.0	-	< 2.0	< 2.0
Total Radium	pCi/L	-	-	< 1.0	< 1.0
Tritium	pCi/mL	-	-	0.77	-
Arsenic	mg/L	-	-	< 0.002	< 0.002
Barium	mg/L	-	-	< 0.004	0.006
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	-	< 0.002	< 0.002
Calcium	mg/L	-	-	4.60	-
Chloride	mg/L	10.0	-	10.2	7.2
Chromium	mg/L	-	-	< 0.004	< 0.004
Copper	mg/L	-	-	< 0.004	-
Fluoride	mg/L	-	-	< 0.10	< 0.10
Iron	mg/L	0.035	-	0.091	0.048
Lead	mg/L	-	-	< 0.006	< 0.006
Magnesium	mg/L	-	-	0.200	-
Manganese	mg/L	-	-	0.003	0.004
Mercury	mg/L	-	-	< 0.0002	< 0.0002
Nickel	mg/L	-	-	0.010	-
Potassium	mg/L	-	-	0.700	-
Selenium	mg/L	-	-	< 0.002	< 0.002
Silica	mg/L	-	-	2.13	-
Silver	mg/L	-	-	< 0.0020	< 0.0020
Sodium	mg/L	55.8	-	53.6	35.0
Total Phosphates	mg/L	0.040	-	< 0.020	-
Zinc	mg/L	0.035	-	0.021	-
Nitrate (as N)	mg/L	8.84	-	3.89	5.49
Sulfate	mg/L	12.0	-	< 5.0	< 5.0
Phenols	mg/L		-	< 0.005	< 0.005
Tot. Org. Carbon	mg/L		-	1.10	< 1.000
Tot. Org. Halogens	mg/L	-	-	0.015	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

Well: YSB 2A, New TNX Seepage Basin

SRP Grid	N 71010.3			ft (msl)
Coordinates	E 17850.5	Screen Zone Elevation		127.7 - 97.7
Latitude	33.211917° N	Top of Casing Elevation		144.7
Longitude	81.757654° W	Casing Material		PVC

Parameter	Units	02/08/88	05/21/88	08/20/88	12/26/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	117.7	118.2	118.2	116.9
pH	pH	5.6	5.9	5.2	5.6
Conductivity	µmhos/cm	40	44	44	44
Alkalinity	mg/L	5	7	5	5
Gross Alpha	pCi/L	1.5	-	< 3.0	< 3.0
Nonvolatile Beta	pCi/L	< 2.0	-	1.0	2.2
Total Radium	pCi/L	-	-	0.4	< 1.0
Tritium	pCi/mL	-	-	2.81	-
Arsenic	mg/L	-	-	< 0.002	< 0.002
Barium	mg/L	-	-	0.010	0.011
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	-	< 0.002	< 0.002
Calcium	mg/L	-	-	2.03	-
Chloride	mg/L	3.2	-	4.5	4.5
Chromium	mg/L	-	-	< 0.004	< 0.004
Copper	mg/L	-	-	< 0.004	-
Fluoride	mg/L	-	-	< 0.10	< 0.10
Iron	mg/L	0.048	-	0.113	0.068
Lead	mg/L	-	-	< 0.006	< 0.006
Magnesium	mg/L	-	-	0.413	-
Manganese	mg/L	-	-	0.002	0.003
Mercury	mg/L	-	-	< 0.0002	< 0.0002
Nickel	mg/L	-	-	< 0.004	-
Potassium	mg/L	-	-	1.08	-
Selenium	mg/L	-	-	< 0.002	< 0.002
Silica	mg/L	-	-	3.69	-
Silver	mg/L	-	-	< 0.0020	< 0.0020
Sodium	mg/L	4.19	-	3.79	4.38
Total Phosphates	mg/L	0.050	-	< 0.020	-
Zinc	mg/L	0.035	-	0.018	-
Nitrate (as N)	mg/L	0.82	-	0.90	0.95
Sulfate	mg/L	< 5.0	-	< 5.0	< 5.0
Phenols	mg/L	-	-	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	-	-	0.013	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	< 0.001	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

Well: YSB 4A, New TNX Seepage Basin

SRP Grid	N 71020.9			ft (msl)
Coordinates	E 17740.1	Screen Zone Elevation		127.6 - 97.6
Latitude	33.211760° N	Top of Casing Elevation		144.6
Longitude	81.757965° W	Casing Material		PVC

Parameter	Units	02/08/88	05/21/88	08/02/88	12/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	116.9	117.1	116.8	115.8
pH	pH	5.5	5.8	5.3	5.5
Conductivity	µmhos/cm	52	74	69	64
Alkalinity	mg/L	5	8	8	6
Gross Alpha	pCi/L	< 3.0	-	1.4	< 3.0
Nonvolatile Beta	pCi/L	2.3	-	1.1	2.0
Total Radium	pCi/L	-	-	0.7	0.9
Tritium	pCi/mL	-	-	3.22	-
Arsenic	mg/L	-	-	< 0.002	< 0.002
Barium	mg/L	-	-	0.015	0.010
Beryllium	mg/L	-	-	< 0.005	-
Cadmium	mg/L	-	-	< 0.002	< 0.002
Calcium	mg/L	-	-	2.14	-
Chloride	mg/L	3.7	-	6.0	6.4
Chromium	mg/L	-	-	< 0.004	< 0.004
Copper	mg/L	-	-	0.005	-
Fluoride	mg/L	-	-	0.12	< 0.10
Iron	mg/L	0.056	-	0.046	0.096
Lead	mg/L	-	-	< 0.006	< 0.006
Magnesium	mg/L	-	-	0.567	-
Manganese	mg/L	-	-	0.011	0.008
Mercury	mg/L	-	-	< 0.0002	< 0.0002
Nickel	mg/L	-	-	0.008	-
Potassium	mg/L	-	-	0.797	-
Selenium	mg/L	-	-	< 0.002	< 0.002
Silica	mg/L	-	-	3.79	-
Silver	mg/L	-	-	< 0.0020	< 0.0020
Sodium	mg/L	7.99	-	7.62	5.47
Total Phosphates	mg/L	0.040	-	0.100	-
Zinc	mg/L	0.044	-	0.012	-
Nitrate (as N)	mg/L	< 0.05	-	2.60	1.51
Sulfate	mg/L	5.0	-	< 5.0	< 5.0
Phenols	mg/L	-	-	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	-	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	-	-	0.689	< 0.005
Carbon Tetrachloride	mg/L	-	-	< 0.001	< 0.005
Chloroform	mg/L	-	-	< 0.001	< 0.005
Tetrachloroethylene	mg/L	-	-	< 0.001	< 0.005
Trichloroethylene	mg/L	-	-	0.002	< 0.005
1,1,1-TCE	mg/L	-	-	< 0.001	< 0.005

TABLE 5-85
GROUNDWATER MONITORING RESULTS FROM THE NEW TNX SEEPAGE BASIN WELLS, CONT'D.

Other Analyses
(Gamma PHA Analytes: Table 5-91)

YSB 1A 12/26/88
GCMS Scan detected the following: None

YSB 2A 12/26/88
GCMS Scan detected the following: None

YSB 3A 12/26/88
GCMS Scan detected the following: None

YSB 4A 12/17/88
GCMS Scan detected the following: None

TABLE 5-86
GROUNDWATER MONITORING RESULTS FROM THE OLD TNX SEEPAGE BASIN WELLS

Well: XSB 1, Old TNX Seepage Basin

SRP Grid Coordinates	N 71133.1 E 16901.0	Screen Zone Elevation	ft (msl) 112.0 - 92.0
Latitude	33.210637° N	Top of Casing Elevation	155.0
Longitude	81.760390° W	Casing Material	Steel

Parameter	Units	02/26/88	06/15/88
Sampling Method	NA	Pump	Pump
Water Elevation	ft	102.4	103.3
pH	pH	6.1	5.5
Conductivity	µmhos/cm	120	125
Alkalinity	mg/L	4	5
TDS	mg/L	-	-
Gross Alpha	pCi/L	5.1	-
Nonvolatile Beta	pCi/L	10.7	-
Total Radium	pCi/L	<1.0	-
Tritium	pCi/mL	5.40	-
Arsenic	mg/L	<0.002	-
Barium	mg/L	0.074	-
Beryllium	mg/L	-	-
Cadmium	mg/L	<0.002	-
Calcium	mg/L	10.8	-
Chloride	mg/L	1.1	-
Chromium	mg/L	-	-
Copper	mg/L	-	-
Cyanide	mg/L	<0.005	-
Fluoride	mg/L	-	-
Iron	mg/L	0.059	-
Lead	mg/L	0.067	-
Magnesium	mg/L	2.34	-
Manganese	mg/L	0.024	-
Mercury	mg/L	<0.0002	-
Nickel	mg/L	<0.004	-
Potassium	mg/L	2.78	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	<0.0020	-
Sodium	mg/L	3.20	-
Total Phosphates	mg/L	-	-
Zinc	mg/L	0.351	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Phenols	mg/L	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-
Tot. Org. Halogens	mg/L	0.055	-
Carbon Tetrachloride	mg/L	<0.001	-
Chloroform	mg/L	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-
Trichloroethylene	mg/L	0.061	-
1,1,1-TCE	mg/L	<0.001	-

Well: XSB 2, Old TNX Seepage Basin

SRP Grid Coordinates	N 71019.7 E 16948.0	Screen Zone Elevation	ft (msl) 113.5 - 93.5
Latitude	33.210463° N	Top of Casing Elevation	154.1
Longitude	81.760046° W	Casing Material	Steel

Parameter	Units	02/26/88	06/15/88
Sampling Method	NA	-	Pump
Water Elevation	ft	-	-
pH	pH	-	4.3
Conductivity	µmhos/cm	-	1040
Alkalinity	mg/L	-	0
TDS	mg/L	-	-
Gross Alpha	pCi/L	-	-
Nonvolatile Beta	pCi/L	-	-
Total Radium	pCi/L	-	-
Tritium	pCi/mL	-	-
Arsenic	mg/L	-	-
Barium	mg/L	-	-
Beryllium	mg/L	-	-
Cadmium	mg/L	-	-
Calcium	mg/L	-	-
Chloride	mg/L	-	-
Chromium	mg/L	-	-
Copper	mg/L	-	-
Cyanide	mg/L	-	-
Fluoride	mg/L	-	-
Iron	mg/L	-	-
Lead	mg/L	-	-
Magnesium	mg/L	-	-
Manganese	mg/L	-	-
Mercury	mg/L	-	-
Nickel	mg/L	-	-
Potassium	mg/L	-	-
Selenium	mg/L	-	-
Silica	mg/L	-	-
Silver	mg/L	-	-
Sodium	mg/L	-	-
Total Phosphates	mg/L	-	-
Zinc	mg/L	-	-
Nitrate (as N)	mg/L	-	-
Sulfate	mg/L	-	-
Phenols	mg/L	-	-
Tot. Org. Carbon	mg/L	-	-
Tot. Org. Halogens	mg/L	-	-
Carbon Tetrachloride	mg/L	-	-
Chloroform	mg/L	-	-
Tetrachloroethylene	mg/L	-	-
Trichloroethylene	mg/L	-	-
1,1,1-TCE	mg/L	-	-

Well: XSB 1D, Old TNX Seepage Basin

SRP Grid Coordinates	N 71104.8 E 16893.5	Screen Zone Elevation	ft (msl) 107.9 - 87.9
Latitude	33.210562° N	Top of Casing Elevation	156.0
Longitude	81.760354° W	Casing Material	PVC

Parameter	Units	12/12/88
Sampling Method	NA	Pump
Water Elevation	ft	98.5
pH	pH	5.4
Conductivity	µmhos/cm	101
Alkalinity	mg/L	4
TDS	mg/L	66
Gross Alpha	pCi/L	1.5
Nonvolatile Beta	pCi/L	2.6
Total Radium	pCi/L	0.7
Tritium	pCi/mL	2.84
Arsenic	mg/L	<0.002
Barium	mg/L	0.033
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	3.72
Chloride	mg/L	4.2
Chromium	mg/L	-
Copper	mg/L	-
Cyanide	mg/L	-
Fluoride	mg/L	<0.10
Iron	mg/L	0.031
Lead	mg/L	0.011
Magnesium	mg/L	0.925
Manganese	mg/L	0.058
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	1.51
Selenium	mg/L	<0.002
Silica	mg/L	10.1
Silver	mg/L	<0.0020
Sodium	mg/L	7.34
Total Phosphates	mg/L	0.020
Zinc	mg/L	-
Nitrate (as N)	mg/L	7.35
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.650
Carbon Tetrachloride	mg/L	0.057
Chloroform	mg/L	<0.050
Tetrachloroethylene	mg/L	<0.050
Trichloroethylene	mg/L	0.782
1,1,1-TCE	mg/L	<0.050

Well: XSB 2D, Old TNX Seepage Basin

SRP Grid Coordinates	N 71086.0 E 16823.1	Screen Zone Elevation	ft (msl) 104.0 - 84.0
Latitude	33.210406° N	Top of Casing Elevation	154.8
Longitude	81.760503° W	Casing Material	PVC

Parameter	Units	12/12/88
Sampling Method	NA	Pump
Water Elevation	ft	97.3
pH	pH	9.8
Conductivity	µmhos/cm	220
Alkalinity	mg/L	71
TDS	mg/L	116
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	7.8
Total Radium	pCi/L	1.5
Tritium	pCi/mL	2.07
Arsenic	mg/L	0.004
Barium	mg/L	0.040
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	15.2
Chloride	mg/L	4.8
Chromium	mg/L	0.007
Copper	mg/L	-
Cyanide	mg/L	-
Fluoride	mg/L	0.14
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	0.125
Manganese	mg/L	<0.002
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	6.34
Selenium	mg/L	<0.002
Silica	mg/L	8.90
Silver	mg/L	<0.0020
Sodium	mg/L	21.7
Total Phosphates	mg/L	0.320
Zinc	mg/L	-
Nitrate (as N)	mg/L	3.99
Sulfate	mg/L	10.9
Phenols	mg/L	0.013
Tot. Org. Carbon	mg/L	1.20
Tot. Org. Halogens	mg/L	0.132
Carbon Tetrachloride	mg/L	0.007
Chloroform	mg/L	<0.005
Tetrachloroethylene	mg/L	<0.005
Trichloroethylene	mg/L	0.154
1,1,1-TCE	mg/L	<0.005

TABLE 5-86
GROUNDWATER MONITORING RESULTS FROM THE OLD TNX SEEPAGE BASIN WELLS, CONT'D.

Well: XSB 3A, Old TNX Seepage Basin

SRP Grid	N 70915.4			ft (msl)
Coordinates	E 16902.0	Screen Zone Elevation		-
Latitude	33.210157° N	Top of Casing Elevation		157.4
Longitude	81.759964° W	Casing Material		PVC

Parameter	Units	02/26/88	06/15/88	08/02/88	12/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	99.9	99.5	98.6	98.6
pH	pH	5.0	5.5	5.5	5.5
Conductivity	µmhos/cm	112	104	110	135
Alkalinity	mg/L	6	6	10	1
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	4.4	-	4.0	-
Nonvolatile Beta	pCi/L	5.0	-	4.5	-
Total Radium	pCi/L	1.1	-	0.9	-
Tritium	pCi/mL	12.5	-	2.93	-
Arsenic	mg/L	<0.002	-	<0.002	-
Barium	mg/L	0.021	-	0.019	-
Beryllium	mg/L	-	-	<0.005	-
Cadmium	mg/L	<0.002	-	<0.002	-
Calcium	mg/L	5.68	-	8.98	-
Chloride	mg/L	4.9	-	5.0	-
Chromium	mg/L	-	-	<0.004	-
Copper	mg/L	-	-	0.013	-
Cyanide	mg/L	<0.005	-	-	-
Fluoride	mg/L	-	-	0.12	-
Iron	mg/L	0.013	-	0.015	-
Lead	mg/L	0.007	-	0.010	-
Magnesium	mg/L	1.13	-	1.24	-
Manganese	mg/L	0.019	-	0.017	-
Mercury	mg/L	<0.0002	-	0.0003	-
Nickel	mg/L	<0.004	-	<0.004	-
Potassium	mg/L	1.30	-	1.13	-
Selenium	mg/L	-	-	<0.002	-
Silica	mg/L	-	-	4.34	-
Silver	mg/L	<0.0020	-	<0.0020	-
Sodium	mg/L	12.0	-	10.5	-
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	0.012	-	0.033	-
Nitrate (as N)	mg/L	6.95	-	7.43	-
Sulfate	mg/L	-	-	5.3	-
Phenols	mg/L	<0.005	-	<0.005	-
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	-
Tot. Org. Halogens	mg/L	0.005	-	0.392	-
Carbon Tetrachloride	mg/L	<0.001	-	<0.001	-
Chloroform	mg/L	<0.001	-	<0.001	-
Tetrachloroethylene	mg/L	<0.001	-	<0.001	-
Trichloroethylene	mg/L	0.009	-	0.017	-
1,1,1-TCE	mg/L	<0.001	-	<0.001	-

Well: XSB 4D, Old TNX Seepage Basin

SRP Grid	N 70997.9			ft (msl)
Coordinates	E 16826.2	Screen Zone Elevation		103.9 - 83.9
Latitude	33.210216° N	Top of Casing Elevation		154.9
Longitude	81.760324° W	Casing Material		PVC

Parameter	Units	12/12/88
Sampling Method	NA	Pump
Water Elevation	ft	97.1
pH	pH	5.1
Conductivity	µmhos/cm	138
Alkalinity	mg/L	2
TDS	mg/L	90
Gross Alpha	pCi/L	2.6
Nonvolatile Beta	pCi/L	3.7
Total Radium	pCi/L	0.7
Tritium	pCi/mL	1.36
Arsenic	mg/L	<0.002
Barium	mg/L	0.041
Beryllium	mg/L	-
Cadmium	mg/L	<0.002
Calcium	mg/L	4.57
Chloride	mg/L	6.4
Chromium	mg/L	<0.004
Copper	mg/L	-
Cyanide	mg/L	-
Fluoride	mg/L	<0.10
Iron	mg/L	<0.020
Lead	mg/L	<0.006
Magnesium	mg/L	1.18
Manganese	mg/L	0.153
Mercury	mg/L	<0.0002
Nickel	mg/L	-
Potassium	mg/L	1.26
Selenium	mg/L	<0.002
Silica	mg/L	9.36
Silver	mg/L	<0.0020
Sodium	mg/L	17.1
Total Phosphates	mg/L	0.030
Zinc	mg/L	-
Nitrate (as N)	mg/L	12.6
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.030
Carbon Tetrachloride	mg/L	<0.005
Chloroform	mg/L	<0.005
Tetrachloroethylene	mg/L	<0.005
Trichloroethylene	mg/L	0.040
1,1,1-TCE	mg/L	<0.005

Well: XSB 4, Old TNX Seepage Basin

SRP Grid	N 71024.5			ft (msl)
Coordinates	E 16851.1	Screen Zone Elevation		114.3 - 94.3
Latitude	33.210315° N	Top of Casing Elevation		153.5
Longitude	81.760310° W	Casing Material		Steel

Parameter	Units	02/26/88	06/15/88	08/02/88
Sampling Method	NA	Pump	Pump	Pump
Water Elevation	ft	98.8	98.5	97.6
pH	pH	4.4	4.9	4.8
Conductivity	µmhos/cm	247	395	520
Alkalinity	mg/L	2	0	2
TDS	mg/L	-	-	-
Gross Alpha	pCi/L	14.2	-	17.5
Nonvolatile Beta	pCi/L	13.2	-	20.8
Total Radium	pCi/L	3.0	-	6.1
Tritium	pCi/mL	7.40	-	7.73
Arsenic	mg/L	<0.002	-	<0.002
Barium	mg/L	0.098	-	0.330
Beryllium	mg/L	-	-	0.016
Cadmium	mg/L	<0.002	-	<0.002
Calcium	mg/L	6.32	-	15.8
Chloride	mg/L	4.4	-	5.1
Chromium	mg/L	-	-	<0.004
Copper	mg/L	-	-	0.004
Cyanide	mg/L	<0.005	-	-
Fluoride	mg/L	-	-	0.24
Iron	mg/L	0.014	-	0.161
Lead	mg/L	0.006	-	0.016
Magnesium	mg/L	1.76	-	4.66
Manganese	mg/L	0.306	-	0.963
Mercury	mg/L	0.0027	-	0.0051
Nickel	mg/L	0.018	-	0.057
Potassium	mg/L	2.05	-	3.76
Selenium	mg/L	-	-	<0.002
Silica	mg/L	-	-	4.94
Silver	mg/L	<0.0020	-	<0.0020
Sodium	mg/L	36.9	-	71.9
Total Phosphates	mg/L	-	-	-
Zinc	mg/L	0.049	-	0.114
Nitrate (as N)	mg/L	24.3	-	50.1
Sulfate	mg/L	-	-	<5.0
Phenols	mg/L	<0.005	-	<0.005
Tot. Org. Carbon	mg/L	<1.000	-	<1.000
Tot. Org. Halogens	mg/L	0.171	-	0.225
Carbon Tetrachloride	mg/L	0.003	-	0.007
Chloroform	mg/L	<0.001	-	0.002
Tetrachloroethylene	mg/L	0.001	-	0.001
Trichloroethylene	mg/L	0.072	-	0.238
1,1,1-TCE	mg/L	<0.001	-	<0.001

Well: XSB 5A, Old TNX Seepage Basin

SRP Grid	N 70962.5			ft (msl)
Coordinates	E 16716.3	Screen Zone Elevation		-
Latitude	33.209958° N	Top of Casing Elevation		113.5
Longitude	81.760544° W	Casing Material		PVC

Parameter	Units	02/26/88	06/15/88	08/18/88	12/12/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	99.1	98.8	97.8	97.9
pH	pH	4.6	4.3	4.6	4.5
Conductivity	µmhos/cm	140	225	138	310
Alkalinity	mg/L	0	0	0	0
TDS	mg/L	-	-	-	-
Gross Alpha	pCi/L	7.6	-	9.8	7.0
Nonvolatile Beta	pCi/L	9.2	-	7.8	9.0
Total Radium	pCi/L	2.1	-	1.6	4.8
Tritium	pCi/mL	7.00	-	1.97	3.45
Arsenic	mg/L	<0.002	-	<0.002	<0.002
Barium	mg/L	0.024	-	0.018	0.044
Beryllium	mg/L	-	-	<0.005	-
Cadmium	mg/L	<0.002	-	<0.002	<0.002
Calcium	mg/L	4.69	-	3.44	-
Chloride	mg/L	<1.0	-	5.4	5.4
Chromium	mg/L	-	-	<0.004	<0.004
Copper	mg/L	-	-	0.021	-
Cyanide	mg/L	<0.005	-	-	-
Fluoride	mg/L	-	-	<0.10	<0.10
Iron	mg/L	0.011	-	0.102	<0.020
Lead	mg/L	0.026	-	0.022	0.035
Magnesium	mg/L	0.614	-	0.488	-
Manganese	mg/L	0.014	-	0.013	0.020
Mercury	mg/L	0.0003	-	0.0002	0.0009
Nickel	mg/L	<0.004	-	<0.004	-
Potassium	mg/L	1.30	-	1.55	-
Selenium	mg/L	-	-	<0.002	<0.002
Silica	mg/L	-	-	3.78	-
Silver	mg/L	<0.0020	-	<0.0020	<0.0020
Sodium	mg/L	16.3	-	18.3	40.2
Total Phosphates	mg/L	-	-	<0.020	-
Zinc	mg/L	0.025	-	0.024	-
Nitrate (as N)	mg/L	11.2	-	11.5	31.9
Sulfate	mg/L	-	-	<5.0	<5.0
Phenols	mg/L	<0.005	-	<0.005	<0.005
Tot. Org. Carbon	mg/L	<1.000	-	<1.000	<1.000
Tot. Org. Halogens	mg/L	0.019	-	0.012	0.048
Carbon Tetrachloride	mg/L	<0.001	<0.005	<0.001	<0.005
Chloroform	mg/L	<0.001	<0.005	<0.001	<0.005
Tetrachloroethylene	mg/L	<0.001	<0.005	<0.001	<0.005
Trichloroethylene	mg/L	0.025	0.072	0.012	0.063
1,1,1-TCE	mg/L	<0.001	<0.005	<0.001	<0.005

TABLE 5-86
GROUNDWATER MONITORING RESULTS FROM THE OLD TNX SEEPAGE BASIN WELLS, CONT'D.

Other Analyses
(Pest/Herb*, GCMS Scan, and Gamma PHA Analytes: Table 5-91)

XSB 1	02/26/88		
Cyanide		<0.005	mg/L
XSB 1D	12/12/88		
Gamma PHA analyses detected the following: None			
Pest/Herb* analyses detected the following: None			
GCMS Scan detected the following:			
trans-1,2-Dichloroethene		0.255	mg/L
XSB 2D	12/12/88		
Gamma PHA analyses detected the following: None			
Pest/Herb* analyses detected the following: None			
GCMS Scan detected the following:			
Toluene		0.006	mg/L
trans-1,2-Dichloroethene		0.041	mg/L
XSB 3A	02/26/88		
Cyanide		<0.005	mg/L
XSB 4	02/26/88		
Cyanide		<0.005	mg/L
XSB 4D	12/12/88		
Gamma PHA analyses detected the following: None			
Pest/Herb* analyses detected the following: None			
GCMS Scan detected the following: None			
XSB 5A	02/26/88		
Cyanide		<0.005	mg/L
XSB 5A	06/15/88		
GCMS Scan detected the following: None			
XSB 5A	12/12/88		
Gamma PHA analyses detected the following:			
Ruthenium 103		0.013	pCi/mL
GCMS Scan detected the following: None			

TABLE 5-87
GROUNDWATER MONITORING RESULTS FROM THE TNX BURYING GROUND WELLS

Well: TBG 1, TNX Burying Ground

SRP Grid Coordinates	N 71178.18 E 17379.25	Screen Zone Elevation	ft (msl) 109.1 - 89.1
Latitude	33.211518° N	Top of Casing Elevation	151.22
Longitude	81.759220° W	Casing Material	PVC

Parameter	Units	12/27/88
Sampling Method	NA	Pump
Water Elevation	ft	98.9
pH	pH	5.7
Conductivity	µmhos/cm	116
Alkalinity	mg/L	13
TDS	mg/L	68
Gross Alpha	pCi/L	4.5
Nonvolatile Beta	pCi/L	4.9
Total Radium	pCi/L	1.8
Tritium	pCi/mL	2.42
Arsenic	mg/L	<0.002
Barium	mg/L	0.060
Cadmium	mg/L	<0.002
Calcium	mg/L	6.22
Chloride	mg/L	4.8
Chromium	mg/L	<0.004
Fluoride	mg/L	<0.10
Iron	mg/L	0.313
Lead	mg/L	<0.006
Magnesium	mg/L	1.45
Manganese	mg/L	0.242
Mercury	mg/L	<0.0002
Potassium	mg/L	2.07
Selenium	mg/L	<0.002
Silica	mg/L	13.3
Silver	mg/L	<0.0020
Sodium	mg/L	11.0
Total Phosphates	mg/L	<0.020
Nitrate (as N)	mg/L	5.06
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.332
Carbon Tetrachloride	mg/L	<0.025
Chloroform	mg/L	<0.025
Tetrachloroethylene	mg/L	<0.025
Trichloroethylene	mg/L	0.306
1,1,1-TCE	mg/L	<0.025

Well: TBG 4, TNX Burying Ground

SRP Grid Coordinates	N 71267.09 E 17177.74	Screen Zone Elevation	ft (msl) 109.3 - 89.3
Latitude	33.211385° N	Top of Casing Elevation	151.34
Longitude	81.759922° W	Casing Material	PVC

Parameter	Units	12/27/88
Sampling Method	NA	Pump
Water Elevation	ft	101.2
pH	pH	4.2
Conductivity	µmhos/cm	420
Alkalinity	mg/L	0
TDS	mg/L	276
Gross Alpha	pCi/L	83.7
Nonvolatile Beta	pCi/L	68.9
Total Radium	pCi/L	42.6
Tritium	pCi/mL	1.90
Arsenic	mg/L	<0.002
Barium	mg/L	0.398
Cadmium	mg/L	<0.002
Calcium	mg/L	9.51
Chloride	mg/L	3.8
Chromium	mg/L	<0.004
Fluoride	mg/L	0.29
Iron	mg/L	0.040
Lead	mg/L	<0.006
Magnesium	mg/L	7.56
Manganese	mg/L	0.575
Mercury	mg/L	0.0018
Potassium	mg/L	3.27
Selenium	mg/L	<0.002
Silica	mg/L	11.6
Silver	mg/L	<0.0020
Sodium	mg/L	40.3
Total Phosphates	mg/L	0.030
Nitrate (as N)	mg/L	43.5
Sulfate	mg/L	<5.0
Phenols	mg/L	<0.005
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	0.611
Carbon Tetrachloride	mg/L	0.259
Chloroform	mg/L	<0.015
Tetrachloroethylene	mg/L	0.038
Trichloroethylene	mg/L	0.268
1,1,1-TCE	mg/L	<0.015

Well: TBG 3, TNX Burying Ground

SRP Grid Coordinates	N 71324.13 E 17177.73	Screen Zone Elevation	ft (msl) 108.9 - 88.9
Latitude	33.211511° N	Top of Casing Elevation	151.17
Longitude	81.760033° W	Casing Material	PVC

Parameter	Units	12/28/88
Sampling Method	NA	Pump
Water Elevation	ft	101
pH	pH	4.3
Conductivity	µmhos/cm	350
Alkalinity	mg/L	0
TDS	mg/L	224
Gross Alpha	pCi/L	30.6
Nonvolatile Beta	pCi/L	25.0
Total Radium	pCi/L	37.7
Tritium	pCi/mL	1.86
Arsenic	mg/L	<0.002
Barium	mg/L	0.394
Cadmium	mg/L	<0.002
Calcium	mg/L	10.5
Chloride	mg/L	8.3
Chromium	mg/L	<0.004
Fluoride	mg/L	0.25
Iron	mg/L	0.116
Lead	mg/L	0.012
Magnesium	mg/L	6.94
Manganese	mg/L	1.37
Mercury	mg/L	0.0010
Potassium	mg/L	3.06
Selenium	mg/L	<0.002
Silica	mg/L	12.7
Silver	mg/L	<0.0020
Sodium	mg/L	32.8
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	41.9
Sulfate	mg/L	10.9
Phenols	mg/L	0.011
Tot. Org. Carbon	mg/L	1.20
Tot. Org. Halogens	mg/L	0.492
Carbon Tetrachloride	mg/L	0.270
Chloroform	mg/L	<0.010
Tetrachloroethylene	mg/L	0.146
Trichloroethylene	mg/L	0.017
1,1,1-TCE	mg/L	<0.010

Well: TBG 5, TNX Burying Ground

SRP Grid Coordinates	N 71226.45 E 17354.51	Screen Zone Elevation	ft (msl) 112.4 - 92.4
Latitude	33.211584° N	Top of Casing Elevation	149.41
Longitude	81.759379° W	Casing Material	PVC

Parameter	Units	12/28/88
Sampling Method	NA	Pump
Water Elevation	ft	100.6
pH	pH	5.7
Conductivity	µmhos/cm	93
Alkalinity	mg/L	3
TDS	mg/L	50
Gross Alpha	pCi/L	<3.0
Nonvolatile Beta	pCi/L	<2.0
Total Radium	pCi/L	0.5
Tritium	pCi/mL	3.15
Arsenic	mg/L	<0.002
Barium	mg/L	0.025
Cadmium	mg/L	<0.002
Calcium	mg/L	6.20
Chloride	mg/L	4.5
Chromium	mg/L	<0.004
Fluoride	mg/L	0.14
Iron	mg/L	0.059
Lead	mg/L	0.006
Magnesium	mg/L	1.22
Manganese	mg/L	0.201
Mercury	mg/L	<0.0002
Potassium	mg/L	1.17
Selenium	mg/L	<0.002
Silica	mg/L	12.2
Silver	mg/L	<0.0020
Sodium	mg/L	6.65
Total Phosphates	mg/L	0.180
Nitrate (as N)	mg/L	1.79
Sulfate	mg/L	21.2
Phenols	mg/L	0.008
Tot. Org. Carbon	mg/L	<1.000
Tot. Org. Halogens	mg/L	1.08
Carbon Tetrachloride	mg/L	<0.050
Chloroform	mg/L	<0.050
Tetrachloroethylene	mg/L	<0.050
Trichloroethylene	mg/L	1.06
1,1,1-TCE	mg/L	<0.050

TABLE 5-87
GROUNDWATER MONITORING RESULTS FROM THE TNX BURYING GROUND WELLS, CONT'D.

Well: TBG 6, TNX Burying Ground

				ft (msl)
SRP Grid	N	71365.36		
Coordinates	E	17730.16	Screen Zone Elevation	109.1 - 89.1
Latitude	33.212505° N		Top of Casing Elevation	148.06
Longitude	81.758661° W		Casing Material	PVC

Parameter	Units	12/28/88
Sampling Method	NA	Pump
Water Elevation	ft	101
pH	pH	4.9
Conductivity	µmhos/cm	230
Alkalinity	mg/L	0
TOS	mg/L	84
Gross Alpha	pCi/L	9.2
Nonvolatile Beta	pCi/L	8.2
Total Radium	pCi/L	7.6
Tritium	pCi/mL	2.66
Arsenic	mg/L	< 0.002
Barium	mg/L	0.058
Cadmium	mg/L	< 0.002
Calcium	mg/L	13.2
Chloride	mg/L	4.0
Chromium	mg/L	< 0.004
Fluoride	mg/L	0.24
Iron	mg/L	0.055
Lead	mg/L	< 0.006
Magnesium	mg/L	2.76
Manganese	mg/L	0.076
Mercury	mg/L	< 0.0002
Potassium	mg/L	1.71
Selenium	mg/L	< 0.002
Silica	mg/L	12.4
Silver	mg/L	< 0.0020
Sodium	mg/L	19.1
Total Phosphates	mg/L	0.290
Nitrate (as N)	mg/L	21.1
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.238
Carbon Tetrachloride	mg/L	0.023
Chloroform	mg/L	< 0.005
Tetrachloroethylene	mg/L	< 0.005
Trichloroethylene	mg/L	0.217
1,1,1-TCE	mg/L	< 0.005

Well: TBG 7, TNX Burying Ground

				ft (msl)
SRP Grid	N	71298.53		
Coordinates	E	17548.10	Screen Zone Elevation	104.7 - 84.7
Latitude	33.212060° N		Top of Casing Elevation	146.76
Longitude	81.759010° W		Casing Material	PVC

Parameter	Units	12/27/88
Sampling Method	NA	Pump
Water Elevation	ft	102.8
pH	pH	6.0
Conductivity	µmhos/cm	56
Alkalinity	mg/L	9
TOS	mg/L	40
Gross Alpha	pCi/L	1.2
Nonvolatile Beta	pCi/L	1.4
Total Radium	pCi/L	1.0
Tritium	pCi/mL	1.96
Arsenic	mg/L	< 0.002
Barium	mg/L	0.013
Cadmium	mg/L	< 0.002
Calcium	mg/L	5.81
Chloride	mg/L	3.1
Chromium	mg/L	< 0.004
Fluoride	mg/L	< 0.10
Iron	mg/L	0.100
Lead	mg/L	< 0.006
Magnesium	mg/L	0.568
Manganese	mg/L	0.024
Mercury	mg/L	< 0.0002
Potassium	mg/L	1.00
Selenium	mg/L	< 0.002
Silica	mg/L	8.50
Silver	mg/L	< 0.0020
Sodium	mg/L	3.49
Total Phosphates	mg/L	0.060
Nitrate (as N)	mg/L	1.25
Sulfate	mg/L	< 5.0
Phenols	mg/L	< 0.005
Tot. Org. Carbon	mg/L	< 1.000
Tot. Org. Halogens	mg/L	0.081
Carbon Tetrachloride	mg/L	< 0.005
Chloroform	mg/L	< 0.005
Tetrachloroethylene	mg/L	< 0.005
Trichloroethylene	mg/L	< 0.005
1,1,1-TCE	mg/L	< 0.005

Other Analyses
(Pest/Herb*, GCMS Scan, and Gamma PHA Analytes: Table 5-91)

TBG 1 12/27/88
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TBG 3 12/28/88
Lead 214 0.02 pCi/mL
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TBG 4 12/27/88
Lead 214 0.02 pCi/mL
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TBG 5 12/28/88
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TBG 6 12/28/88
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TBG 7 12/27/88
Pest/Herb* analyses detected the following: None
GCMS Scan detected the following: None
Gamma PHA analyses detected the following: None

TABLE 5-88
MAXIMUM CONSTITUENT LEVELS AT Z AREA

Constituent	DWS	Units	ZBG	ZDT
Gross Alpha	15	pCi/L	1	3.3
Nonvolatile Beta	-	pCi/L	13.4	7.4
Total Radium	5	pCi/L	0.6	1.1
Tritium	20	pCi/mL	14	**35.1**
Cobalt-60	0.1	pCi/mL	0	-
Chromium-51	6	pCi/mL	0	-
Cesium-134	0.08	pCi/mL	0	-
Cesium-137	0.2	pCi/mL	0	-
Iodine-131	0.003	pCi/mL	0	-
Ruthenium-103	0.2	pCi/mL	0	-
Ruthenium-106	0.03	pCi/mL	0	-
Antimony-125	0.3	pCi/mL	0	-
Zirconium/Niobium-95	0.2	pCi/mL	0	-
Arsenic	0.05	mg/L	<0.002	<0.002
Barium	1	mg/L	0.013	0.025
Cadmium	0.01	mg/L	<0.002	0.002
Chromium	0.05	mg/L	<0.004	<0.004
Fluoride	4	mg/L	<0.1	0.24
Lead	0.05	mg/L	0.011	0.008
Mercury	0.002	mg/L	0.0005	0.0005
Selenium	0.01	mg/L	<0.002	<0.002
Silver	0.05	mg/L	<0.002	<0.002
Nitrate (as N)	10	mg/L	1.69	2.32
Carbon Tetrachloride	0.005	mg/L	<0.005	-
Chloroform	0.1*	mg/L	<0.005	-
Trichloroethylene	0.005	mg/L	<0.005	-
1,1,1-Trichloroethane	0.2	mg/L	<0.005	-
Benzene	0.005	mg/L	<0.005	-
Chloroethene	0.002	mg/L	<0.01	-
1,2-Dichloroethane	0.005	mg/L	<0.005	-
1,1-Dichloroethylene	0.005	mg/L	<0.005	-
2,4-D	0.1	mg/L	-	<0.0003
Endrin	0.0002	mg/L	-	<0.0001
Lindane	0.004	mg/L	-	<0.00001
Methoxychlor	0.1	mg/L	-	<0.0005
Silvex	0.01	mg/L	-	<0.0001
Toxaphene	0.005	mg/L	-	<0.001

Note: Analytical results are given for nonvolatile beta and only those analytes with federal primary drinking water standards (DWS). Analytical results in bold are above the drinking water standards.

* Federal primary drinking water standard for trihalomethanes.

ZBG = Z-Area Background Wells
ZDT = Z-Area Low Point Drain Tank Wells

TABLE 5-89
GROUNDWATER MONITORING RESULTS FROM THE Z-AREA BACKGROUND WELLS

Well: ZBG 1, Z-Area Background Wells

				ft (msl)
SRP Grid Coordinates	N 76584.2 E 65584.1	Screen Zone Elevation		240.1 - 220.0
Latitude	33.302161° N	Top of Casing Elevation		291.1
Longitude	81.642863° W	Casing Material		PVC

Parameter	Units	03/12/88	05/03/88	09/25/88	12/11/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	234	233.4	233	232.1
pH	pH	5.6	5.7	6.0	5.8
Conductivity	µmhos/cm	27	24	26	118
Alkalinity	mg/L	3	2	2	2
TDS	mg/L	26	-	-	-
Gross Alpha	pCi/L	<3.0	0.6	1.0	<3.0
Nonvolatile Beta	pCi/L	<2.0	1.5	1.2	13.4
Total Radium	pCi/L	<1.0	<1.0	0.6	<1.0
Tritium	pCi/mL	13.2	13.7	8.68	14.0
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.011	0.011	0.013	0.012
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	1.21	-	-	-
Chloride	mg/L	<1.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.033	-	-	-
Lead	mg/L	<0.006	<0.006	0.008	0.011
Magnesium	mg/L	0.466	-	-	-
Manganese	mg/L	0.011	-	-	-
Mercury	mg/L	<0.0002	<0.0002	0.0004	<0.0002
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	2.96	-	-	-
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	1.91	-	-	-
Total Phosphates	mg/L	<0.020	-	-	-
Nitrate (as N)	mg/L	1.50	1.23	1.59	1.69
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-
Carbon Tetrachloride	mg/L	<0.005	<0.005	<0.005	<0.005
Chloroform	mg/L	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	mg/L	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	mg/L	<0.005	<0.005	<0.005	<0.005
1,1,1-TCE	mg/L	<0.005	<0.005	<0.005	<0.005

Well: ZBG 2, Z-Area Background Wells

				ft (msl)
SRP Grid Coordinates	N 76170.5 E 67472.9	Screen Zone Elevation		230.9 - 210.9
Latitude	33.304327° N	Top of Casing Elevation		278.0
Longitude	81.637084° W	Casing Material		PVC

Parameter	Units	03/12/88	06/11/88	09/25/88	12/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	221.8	220.4	219.9	219
pH	pH	5.1	5.2	5.6	5.2
Conductivity	µmhos/cm	20	18	18	17
Alkalinity	mg/L	1	1	1	1
TDS	mg/L	28	-	-	-
Gross Alpha	pCi/L	<3.0	1.0	<3.0	0.9
Nonvolatile Beta	pCi/L	<2.0	1.3	1.4	<2.0
Total Radium	pCi/L	<1.0	<1.0	<1.0	0.6
Tritium	pCi/mL	13.1	12.9	6.57	11.2
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	0.005	0.005	0.006	0.006
Cadmium	mg/L	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	0.704	-	-	-
Chloride	mg/L	<1.0	-	-	-
Chromium	mg/L	<0.004	<0.004	<0.004	<0.004
Fluoride	mg/L	<0.10	-	-	-
Iron	mg/L	0.021	-	-	-
Lead	mg/L	<0.006	<0.006	<0.006	<0.006
Magnesium	mg/L	0.425	-	-	-
Manganese	mg/L	0.007	-	-	-
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0005
Potassium	mg/L	<0.500	-	-	-
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Silica	mg/L	2.60	-	-	-
Silver	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Sodium	mg/L	0.92	-	-	-
Total Phosphates	mg/L	0.040	-	-	-
Nitrate (as N)	mg/L	1.00	0.75	1.21	0.95
Sulfate	mg/L	<5.0	-	-	-
Phenols	mg/L	<0.005	-	-	-
Tot. Org. Carbon	mg/L	<1.000	-	-	-
Tot. Org. Halogens	mg/L	<0.005	-	-	-
Carbon Tetrachloride	mg/L	<0.005	<0.005	<0.005	<0.005
Chloroform	mg/L	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	mg/L	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	mg/L	<0.005	<0.005	<0.005	<0.005
1,1,1-TCE	mg/L	<0.005	<0.005	<0.005	<0.005

Other Analyses
(GCMS Scan and Gamma PHA Analytes: Table 5-91)

ZBG 1 — 03/12/88

Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

ZBG 1 — 05/03/88

Nitrite (as N)	<0.05 mg/L
Nitrite (as N)	<0.05 mg/L
Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L
Antimony	<0.003 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

ZBG 1 — 09/25/88

Nitrite (as N)	<0.05 mg/L
Antimony	0.004 mg/L
Lead 212	0.016 pCi/mL

Gamma PHA analyses detected the following: None

GCMS Scan detected the following: None

ZBG 1 — 12/11/88

Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

ZBG 2 — 03/12/88

Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

ZBG 2 — 06/11/88

Antimony	<0.003 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

ZBG 2 — 09/25/88

Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L
Antimony	<0.003 mg/L

Gamma PHA analyses detected the following: None

GCMS Scan detected the following: None

ZBG 2 — 12/17/88

Nitrite (as N)	<0.05 mg/L
Nitrite (as N)	<0.05 mg/L
Antimony	<0.003 mg/L
Antimony	<0.003 mg/L

GCMS Scan detected the following: None

TABLE 5-90
GROUNDWATER MONITORING RESULTS FROM THE Z-AREA LOW POINT DRAIN TANK WELLS

Well: ZDT 1, Z-Area Drain Tank

			ft (msl)
SRP Grid	N 71644.4		
Coordinates	E 65114.8	Screen Zone Elevation	247.0 - 227.0
Latitude	33.290469° N	Top of Casing Elevation	265.1
Longitude	81.634506° W	Casing Material	PVC

Parameter	Units	03/24/88	06/13/88	08/30/88	12/28/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	239.1	239	238.4	238
pH	pH	5.6	5.2	4.1	5.3
Conductivity	µmhos/cm	42	33	43	48
Alkalinity	mg/L	5	3	3	0
TDS	mg/L	42	32	28	42
Gross Alpha	pCi/L	0.9	1.1	0.8	3.3
Nonvolatile Beta	pCi/L	1.6	1.8	2.1	7.4
Total Radium	pCi/L	< 1.0	< 1.0	0.3	1.1
Tritium	pCi/mL	31.2	28.9	19.1	23.7
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.012	0.012	0.014	0.025
Cadmium	mg/L	< 0.002	< 0.002	0.002	< 0.002
Calcium	mg/L	1.27	1.00	1.27	1.33
Chloride	mg/L	2.2	2.7	< 1.0	3.2
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
Iron	mg/L	< 0.004	0.067	0.012	0.022
Lead	mg/L	< 0.006	< 0.006	< 0.006	0.008
Magnesium	mg/L	0.287	0.321	0.554	1.01
Manganese	mg/L	0.040	0.032	0.024	0.025
Mercury	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002
Potassium	mg/L	0.404	0.540	1.46	4.99
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	5.25	4.64	4.00	7.25
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	3.37	4.14	3.47	4.40
Total Phosphates	mg/L	0.020	0.020	< 0.020	< 0.020
Nitrate (as N)	mg/L	1.01	0.74	0.82	0.74
Sulfate	mg/L	6.0	< 5.0	< 5.0	9.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	1.80	1.20
Tot. Org. Halogens	mg/L	0.013	< 0.005	0.055	< 0.005

Well: ZDT 2, Z-Area Drain Tank

			ft (msl)
SRP Grid	N 71696.5		
Coordinates	E 65059.9	Screen Zone Elevation	245.1 - 225.1
Latitude	33.290494° N	Top of Casing Elevation	265.0
Longitude	81.634751° W	Casing Material	PVC

Parameter	Units	03/24/88	06/13/88	08/30/88	12/17/88
Sampling Method	NA	Pump	Pump	Pump	Pump
Water Elevation	ft	240.5	240.3	239.7	239.6
pH	pH	5.6	5.2	4.8	5.4
Conductivity	µmhos/cm	62	52	53	53
Alkalinity	mg/L	9	6	13	4
TDS	mg/L	48	38	35	66
Gross Alpha	pCi/L	< 3.0	1.3	1.0	1.2
Nonvolatile Beta	pCi/L	1.6	2.2	1.5	1.1
Total Radium	pCi/L	< 1.0	< 1.0	< 1.0	< 1.0
Tritium	pCi/mL	35.1	34.2	24.1	25.4
Arsenic	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.018	0.014	0.012	0.012
Cadmium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Calcium	mg/L	3.26	4.79	3.13	3.40
Chloride	mg/L	3.2	3.0	< 1.0	3.0
Chromium	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Fluoride	mg/L	0.24	< 0.10	< 0.10	< 0.10
Iron	mg/L	< 0.004	0.038	0.017	< 0.020
Lead	mg/L	< 0.006	0.006	< 0.006	0.006
Magnesium	mg/L	0.500	0.512	0.489	0.469
Manganese	mg/L	0.049	0.036	0.029	0.023
Mercury	mg/L	< 0.0002	0.0002	0.0002	0.0005
Potassium	mg/L	0.890	0.600	< 0.500	0.532
Selenium	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Silica	mg/L	3.83	3.39	3.21	7.19
Silver	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Sodium	mg/L	5.78	4.56	4.07	4.58
Total Phosphates	mg/L	0.030	0.030	< 0.020	< 0.020
Nitrate (as N)	mg/L	1.98	1.75	2.00	2.32
Sulfate	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Phenols	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tot. Org. Carbon	mg/L	< 1.000	< 1.000	< 1.000	< 1.000
Tot. Org. Halogens	mg/L	< 0.005	< 0.005	0.012	0.005

Other Analyses
(Pest/Herb* Analytes: Table 5-91)

ZDT 1 03/24/88
Pest/Herb* analyses detected the following: None

ZDT 2 03/24/88
Pest/Herb* analyses detected the following: None

TABLE 5-91
DETECTION LIMITS FOR OTHER CONSTITUENTS

Constituent	Detection Limit (mg/L)
Base/Neutral/Acid (BNA)	
1,2,3-Trichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,2-Diphenylhydrazine	0.01
1,3-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01
2,4,6-Trichlorophenol	0.01
2,4-Dichlorophenol	0.01
2,4-Dimethylphenol	0.01
2,4-Dinitrophenol	0.05
2,4-Dinitrotoluene	0.01
2,6-Dinitrotoluene	0.01
2-Chloronaphthalene	0.01
2-Chlorophenol	0.01
2-Methyl-4,6-dinitrophenol	0.05
2-Nitrophenol	0.01
3,3'-Dichlorobenzidine	0.02
3,4-Benzofluoranthene	0.01
3-Methyl-4-chlorophenol	0.02
4-Bromophenyl Phenyl Ether	0.01
4-Chlorophenyl Phenyl Ether	0.01
4-Nitrophenol	0.05
Acenaphthene	0.01
Acenaphthylene	0.01
Anthracene	0.01
Benzidine	0.04
Benzo(a)anthracene	0.01
Benzo(a)pyrene	0.01
Benzo(ghi)perylene	0.01
Benzo(b)fluoranthene	0.01
Benzo(k)fluoranthene	0.01
Bis(2-chloroethoxy)methane	0.01
Bis(2-chloroethyl)ether	0.01
Bis(2-chloroisopropyl)ether	0.01
Bis(2-ethylhexyl)phthalate	0.01
Butylbenzyl Phthalate	0.01
Chrysene	0.01
Di-n-butyl Phthalate	0.01
Di-n-octyl Phthalate	0.01
Dibenz(a,h)anthracene	0.01
Diethyl Phthalate	0.01
Dimethyl Phthalate	0.01
Fluoranthene	0.01
Fluorene	0.01
Hexachlorobenzene	0.01
Hexachlorobutadiene	0.01
Hexachlorocyclopentadiene	0.01
Hexachloroethane	0.01
Indeno(1,2,3-c,d)pyrene	0.01
Isophorone	0.01
N-Nitrosodi-n-propylamine	0.01
N-Nitrosodimethylamine	0.01
N-Nitrosodiphenylamine	0.01
Napthalene	0.01
Nitrobenzene	0.01

Constituent	Detection Limit (mg/L)
Base/Neutral/Acid (BNA) (cont.)	
Pentachlorophenol	0.05
Phenanthrene	0.01
Pyrene	0.01
GCMS Scan	
1,1,2,2-Tetrachloroethane	0.005
1,1,2-Trichloroethane	0.005
1,1-Dichloroethane	0.005
1,1-Dichloroethylene	0.005
1,2-Dichloroethane	0.005
1,2-Dichloropropane	0.005
2-Chloroethylvinyl Ether	0.005
Benzene	0.005
Bromodichloromethane	0.005
Bromoform	0.005
Bromomethane	0.01
Chlorobenzene	0.005
Chloroethane	0.01
Chloroethene	0.01
Chloromethane	0.001
Dibromochloromethane	0.005
Dichlorodifluoromethane	0.001
Ethylbenzene	0.005
Toluene	0.005
Trichlorofluoromethane	0.005
cis-1,3-Dichloropropene	0.005
trans-1,2-Dichloroethene	0.005
trans-1,3-Dichloropropene	0.005
Appendix IX*	
alpha-Benzene Hexachloride	0.00001
Acetone	0.1
Acetophenone	0.01
Acrolein	0.01
Acrylonitrile	0.008
alpha-Endosulfan	0.00004
Aldrin	0.00002
Acenaphthene	0.01
Acenaphthylene	0.01
Aniline	0.01
Anthracene	0.01
Allyl Chloride	0.1
Azinphos Methyl	0.0077
Benzo(a)anthracene	0.01
Benzo(a)pyrene	0.01
beta-Benzene Hexachloride	0.00001
Butylbenzyl Phthalate	0.01
beta-Endosulfan	0.0001
Benzoic Acid	0.01
Benzo(g,h,i)perylene	0.01
Benzo(b)fluoranthene	0.01
Benzo(k)fluoranthene	0.01

TABLE 5-91
DETECTION LIMITS FOR OTHER CONSTITUENTS, CONT'D.

Constituent	Detection Limit (mg/L)
Appendix IX* (cont.)	
Bromodichloromethane	0.005
Benzyl Alcohol	0.02
Bis(2-chloroethyl)ether	0.01
Bis(2-chloroethoxy)methane	0.01
Bis(2-chloroisopropyl)ether	0.01
Bis(2-ethylhexyl)phthalate	0.01
Trichlorofluoromethane	0.005
Bromoform	0.005
Chrysene	0.01
Bromomethane	0.01
Chloromethane	0.01
Acetonitrile (Methyl Cyanide)	0.017
Chlorobenzilate	0.01
Chlorobenzene	0.005
Chlordane	0.0026
Chlorpyriphos	0.0063
Pentachlorobenzene	0.01
Pentachloroethane	0.01
Pentachloronitrobenzene	0.01
Hexachlorobenzene	0.01
Hexachlorocyclopentadiene	0.01
Hexachloroethane	0.01
Cobalt	0.004
Carbon Disulfide	0.005
Cyanide	0.005
Chloroethene	0.01
Chloroethane	0.01
Benzene	0.005
Benzenethiol	0.01
Dibenz(a,h)anthracene	0.01
delta-Benzene Hexachloride	0.00002
Dibromochloromethane	0.005
Diethyl Phthalate	0.01
Diazinon	0.0053
Dibenzofuran	0.01
Dichlorvos	0.011
Disulfoton	0.0055
Dieldrin	0.00004
Dimethyl Phthalate	0.01
Di-n-butyl Phthalate	0.01
Di-n-octyl Phthalate	0.01
Diphenylamine	0.01
Endrin Aldehyde	0.00013
Endrin	0.0001
Endosulfan Sulfate	0.0001
Ethylbenzene	0.005
Ethoprop	0.005
Ethyl Methacrylate	0.01
Fluoranthene	0.01
Fenthion	0.0065
Fluorene	0.01
Hexachlorobutadiene	0.01
Heptachlor	0.00002

Constituent	Detection Limit (mg/L)
Appendix IX* (cont.)	
Heptachlor Epoxide	0.00003
Indeno(1,2,3-c,d)pyrene	0.01
Iodomethane	0.005
Isosafrole	0.01
Isophorone	0.01
Lindane	0.00001
Malononitrile	0.01
Methacrylonitrile	0.005
Toluene	0.005
Methylethyl Ketone	0.01
Methyl Methacrylate	0.005
Methyl Methanesulfonate	0.01
Merphos	0.01
Malathion	0.0044
m-Xylene	0.005
Naphthalene	0.01
Nitrobenzene	0.01
N-Nitrosodimethylamine	0.01
N-Nitrosodi-n-butylamine	0.01
N-Nitrosodipropylamine	0.01
N-Nitrosodiethylamine	0.01
N-Nitrosoethylmethylamine	0.01
N-Nitrosomorpholine	0.01
N-Nitrosodiphenylamine	0.01
N,N-Dimethyl Aniline	0.01
o-Phenylenediamine	0.01
o-Toluidine	0.01
o-Xylene	0.005
PCB 1016	0.00098
PCB 1221	0.00061
PCB 1232	0.00081
PCB 1242	0.00092
PCB 1248	0.00048
PCB 1254	0.00068
PCB 1260	0.001
PCB 1262	0.150
Pentachlorophenol	0.05
Phenanthrene	0.01
Phorate	0.0058
2,2-Bis(4-chlorophenyl)-1,1 -dichloroethane	0.00004
2,2-Bis(4-chlorophenyl)-1,1 -dichloroethene	0.0001
2,2-Bis(4-chlorophenyl)-1,1,1 -trichloroethane	0.00012
Propionitrile	0.005
Parathion Ethyl	0.0077
Parathion Methyl	0.0063
Pyrene	0.01
Pyridine	0.01
Resorcinol	0.01
Safrole	0.01
Antimony	0.003
Silvex	0.00025

TABLE 5-91
DETECTION LIMITS FOR OTHER CONSTITUENTS, CONT'D.

Constituent	Detection Limit (mg/L)
Appendix IX* (cont.)	
Tin	0.12
Stirphos	0.025
Styrene	0.005
Sulfide	1
Sulprotos	0.0071
1,2,4,5-Tetrachlorobenzene	0.01
1,1,2,2-Tetrachloroethane	0.005
1,1,1,2-Tetrachloroethane	0.005
Tetrachlorodibenzodioxin	1.20
Tetrachlorodebenzofuran	0.88
Thallium	0.002
Total Phenols	0.88
Toxaphene	0.001
trans-1,2-Dichloroethene	0.005
Vanadium	0.002
Vinyl Acetate	0.005
1-Napthylamine	0.01
1 Nitrosopiperidine	0.01
1,1-Dichloroethylene	0.005
1,1-Dichloroethane	0.005
trans-1,4-Dichloro-2-butene	0.005
1,1,2-Trichloroethane	0.005
1,2-Dibromoethane	0.005
1,2-Dibromomethane	0.005
1,2-Dichlorobenzene	0.01
1,2-Dichloroethane	0.005
1,2-Dichloropropane	0.005
1,2-Diphenylhydrazine	0.01
1,2,3-Trichloropropane	0.005
1,2,4-Trichlorobenzene	0.01
1,3-Dichlorobenzene	0.01
cis-1,3-Dichloropropene	0.005
trans-1,3-Dichloropropene	0.005
1,3-Dinitrobenzene	0.01
1,4-Dichlorobenzene	0.01
1,4-Dinitrobenzene	0.01
1,4-Naphthoquinone	0.01
2-Acetylaminofluorene	0.01
2-Chloroethylvinyl Ether	0.005
2-Chlorophenol	0.01
2-Chloronaphthalene	0.01
2-Dinitrophenol	0.01
2-Hexanone	0.05
2-Methylnaphthalene	0.01
2-Methyl Phenol	0.01
2-Nitroaniline	0.05
2-Picoline	0.01
2,3,4,6-Tetrachlorophenol	0.01
2,4-D	0.0003
2,4-Dichlorophenol	0.01
2,4-Dimethylphenol	0.01
2,4-Dinitrophenol	0.05
2,4-Dinitrotoluene	0.01
2,4,5-T	0.0003

Constituent	Detection Limit (mg/L)
Appendix IX* (cont.)	
2,4,5-Trichlorophenol	0.01
2,4,6-Trichlorophenol	0.01
2,6-Dichlorophenol	0.01
2,6-Dinitrotoluene	0.01
3-Methylcholanthrene	0.01
3-Nitroaniline	0.05
3,3'-Dichlorobenzidene	0.02
3,3-Dimethoxybenzidine	0.01
3,4-Benzofluoranthene	0.01
4-Aminobiphenyl	0.01
4-Bromophenyl Phenyl Ether	0.01
4-Chloroaniline	0.02
4-Chlorophenyl Phenyl Ether	0.01
3-Methyl-4-chlorophenol	0.02
4-Dimethylaminoazobenzene	0.01
4-Methyl-2-pentanone	0.05
4-Methyl Phenol	0.01
4-Nitroaniline	0.05
4-Nitrophenol	0.05
2-Methyl-4,6-dinitrophenol	0.05
7,12-Dimethylbenz(a)anthracene	0.01

* *During first quarter 1988, the MSB wells were analyzed for a slightly different Appendix IX list.*

Pesticides/Herbicides (Pest/Herb*) Short List

2,4-D	0.0003
Endrin	0.0001
Lindane	0.00001
Methoxychlor	0.0005
Silvex (2,4,5-TP)	0.0001
Toxaphene	0.001

* An asterisk following the Pest/Herb callout indicates that only the analyses in this table were conducted.

Pesticides/Herbicides (Pest/Herb)

Endrin	0.0001
Lindane	0.00001
Toxaphene	0.001
2,2-Bis(4-chlorophenyl)-1,1, -trichloroethane	0.00012
2,2-Bis(4-chlorophenyl)-1,1 -dichloroethane	0.00004
2,2-Bis(4-chlorophenyl)-1,1 -dichloroethene	0.0001
2,4,5-T	0.0003
Aldrin	0.00002
Chlordane	0.0026
Dieldrin	0.00004

TABLE 5-91
DETECTION LIMITS FOR OTHER CONSTITUENTS, CONT'D.

Constituent	Detection Limit (mg/L)
Pesticides/Herbicides (Pest/Herb) (cont.)	
Endosulfan Sulfate	0.00011
Endrin Aldehyde	0.00013
Heptachlor	0.00002
Heptachlor Epoxide	0.00003
PCB 1016	0.00098
PCB 1221	0.00061
PCB 1232	0.00081
PCB 1242	0.00092
PCB 1248	0.00048
PCB 1254	0.00068
PCB 1260	0.001
PCB 1262	0.150
alpha-Benzene Hexachloride	0.00001
alpha-Endosulfan	0.00004
beta-Benzene Hexachloride	0.00001
beta-Endosulfan	0.0001
delta-Benzene Hexachloride	0.00002
Gamma PHA	
Cerium 144	–
Cobalt 60	–
Chromium 51	–
Cesium 134	–
Cesium 137	–
Iodine 131	–
Ruthenium 103	–
Ruthenium 106	–
Ruthenium 107	–
Antimony 125	–
Zirconium/Niobium 95	–

Chapter 6

Food and Drinking Water Monitoring Programs

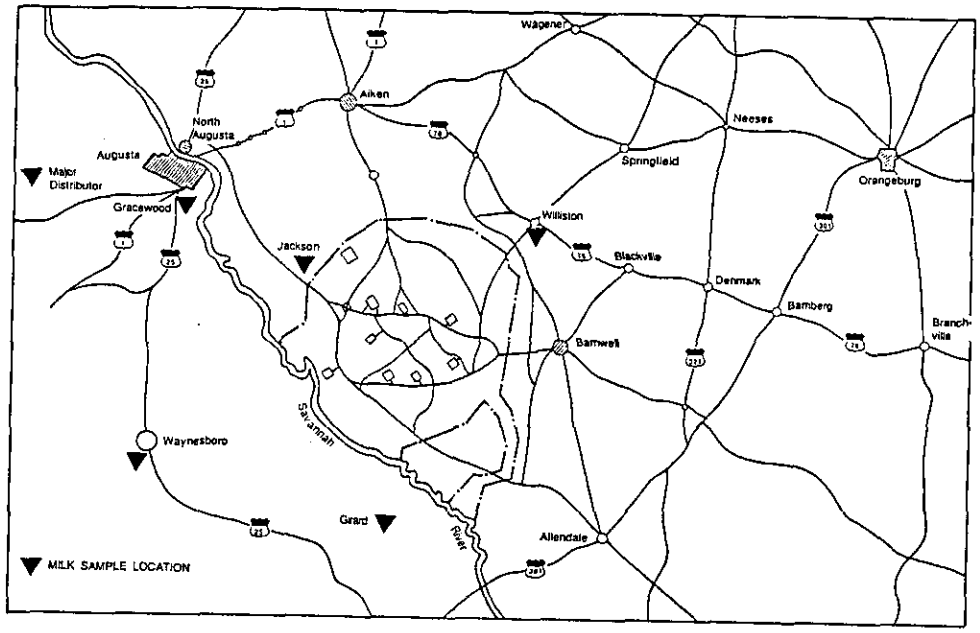


Figure 6-1. Milk sample locations

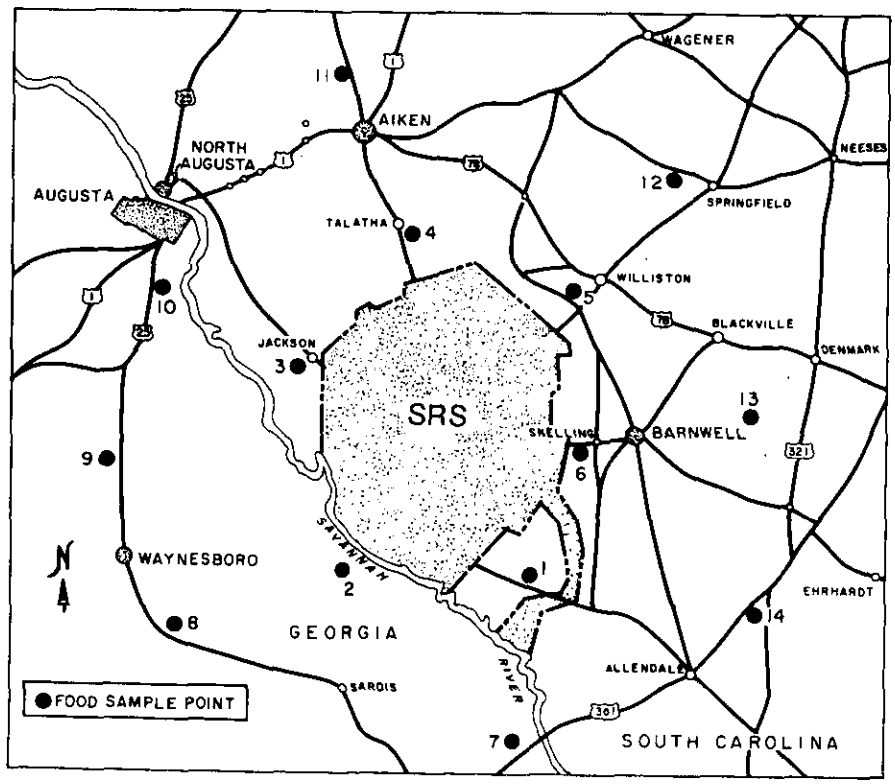


Figure 6-2. Food sample locations

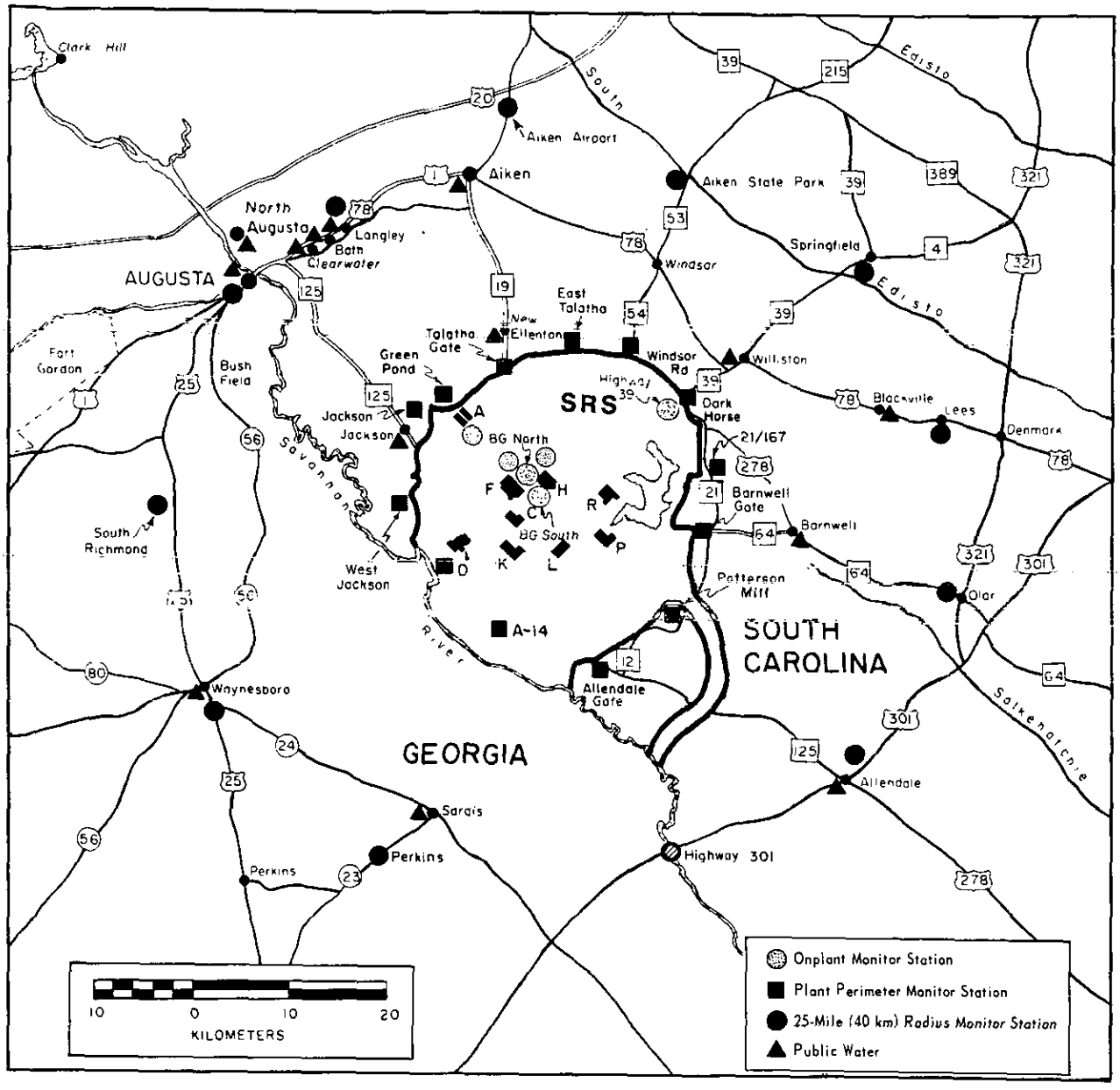


Figure 6-3. Continuous air monitoring stations

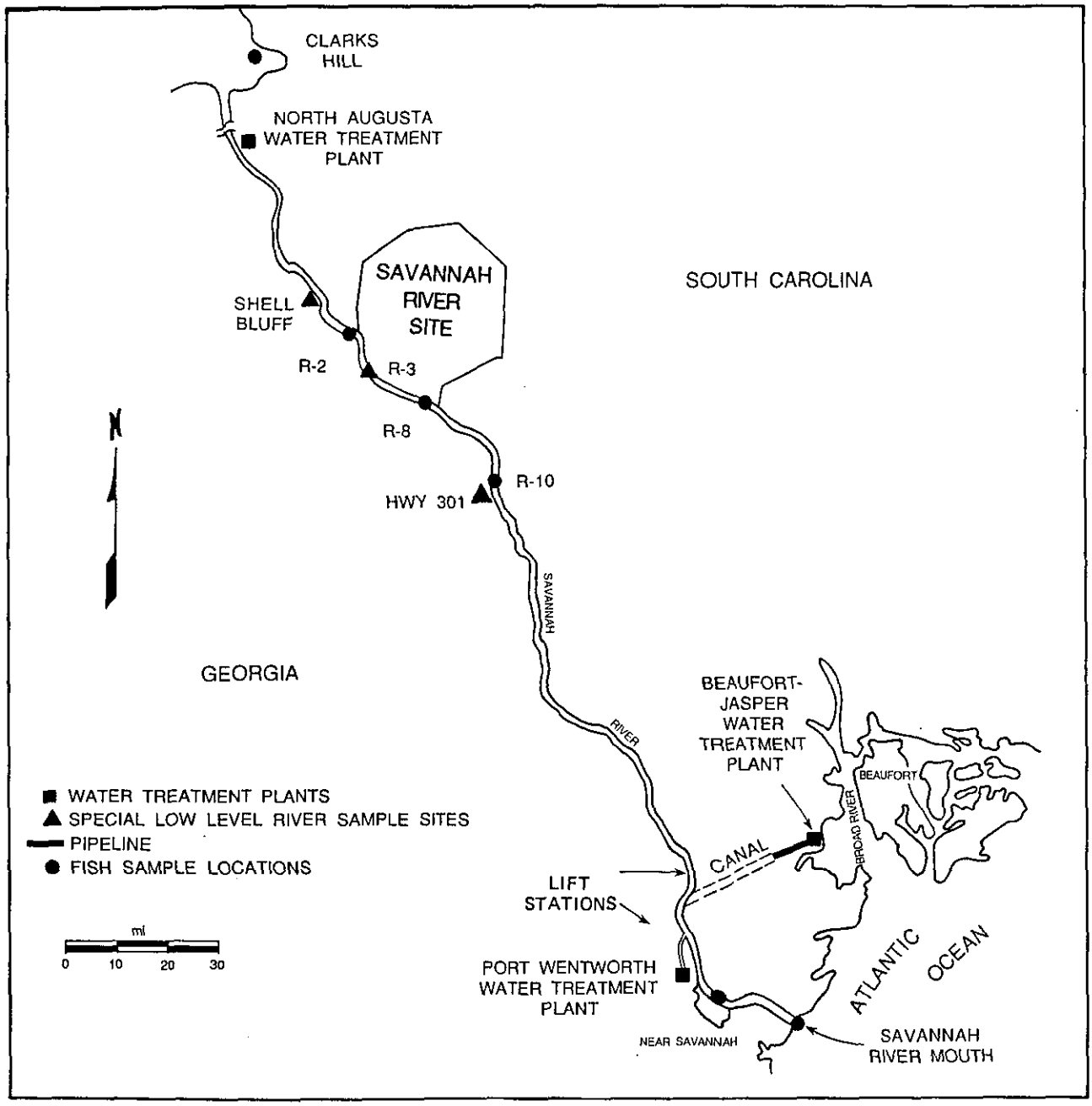


Figure 6-4. Fish sample and water treatment plant locations

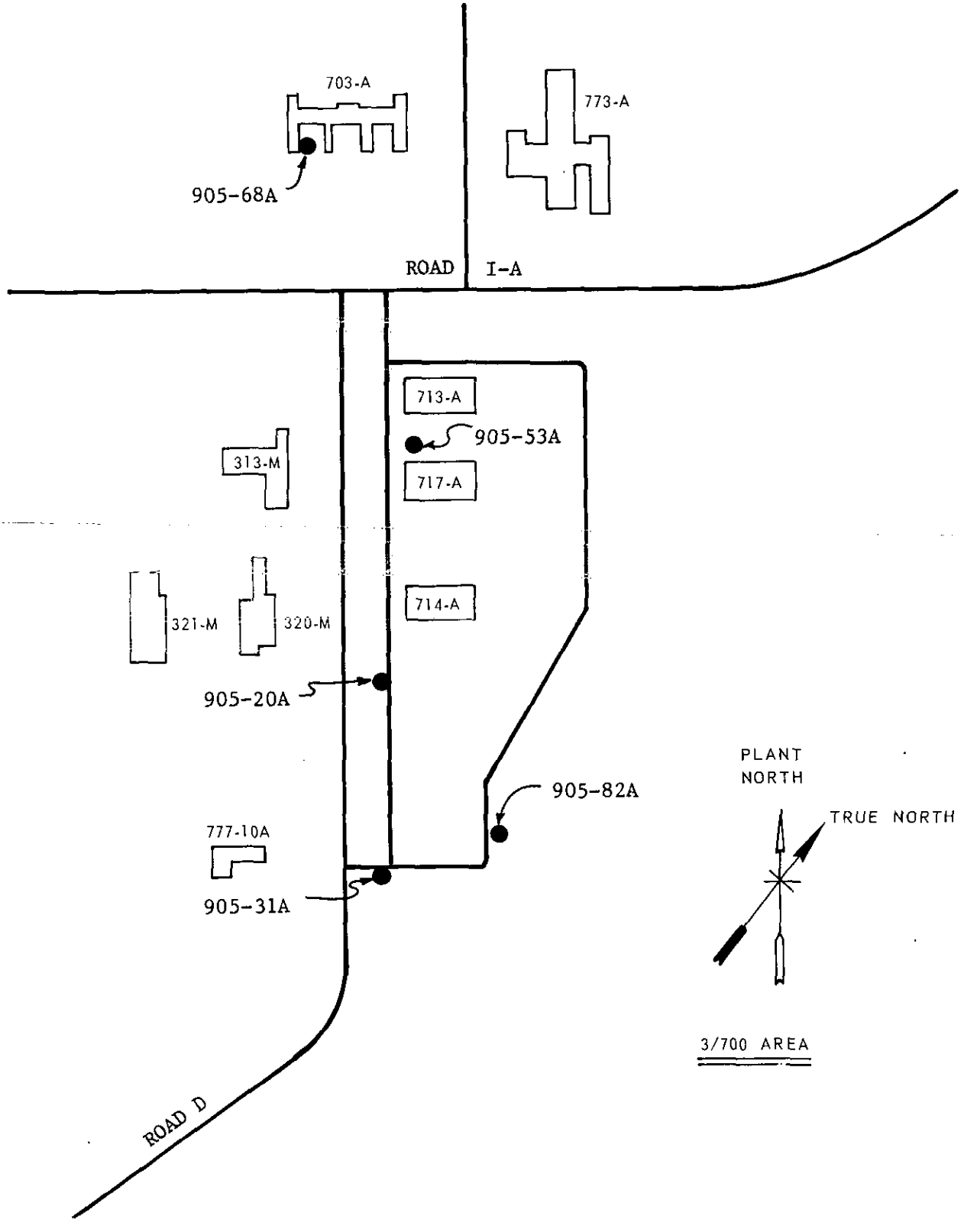


Figure 6-5. A-Administration Area well locations

TABLE 6-1
RADIOACTIVITY IN MILK

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			H-3, pCi/mL				
JACKSON, SC	26	1.9	±0.19	0.68	±0.13	1.1	±0.56
WILLISTON, SC	23	1.5	±0.27	0.1	±0.00	0.69	±0.68
GIRARD, GA	22	4.0	±0.18	-0.07	±0.00	0.76	±1.7
GRACEWOOD, GA	22	0.56	±0.13	-0.12	±0.16	0.19	±0.44
WAYNESBORO, GA	26	0.71	±0.14	-0.05	±0.12	0.21	±0.40
MAJOR DISTRIBUTOR	26	0.36	±0.26	-0.24	±0.11	0.06	±0.30
			Sr-90, pCi/L				
JACKSON, SC	4	3.7	±5.0	-0.88	±3.8	2.3	-
WILLISTON, SC	4	5.2	±5.0	-0.88	±3.7	2.8	-
GIRARD, GA	4	5.6	±5.1	-0.47	±3.9	3.0	-
GRACEWOOD, GA	3	9.1	±5.5	0.92	±3.6	4.2	-
WAYNESBORO, GA	4	7.0	±4.5	3.6	±3.9	4.8	-
MAJOR DISTRIBUTOR	4	6.9	±4.1	-0.25	±3.9	4.7	-
			Cs-137, pCi/L				
JACKSON, SC	25	5.4	±1.7	0	±1.8	0.76	±3.2
WILLISTON, SC	22	7.5	±1.9	0	±4.1	4.8	±4.2
GIRARD, GA	22	6.5	±1.6	0	±1.7	1.7	±4.9
GRACEWOOD, GA	21	4.0	±1.3	0	±1.7	0.87	±3.2
WAYNESBORO, GA	25	4.8	±1.8	0	±1.7	0.52	±2.9
MAJOR DISTRIBUTOR	25	5.5	±1.5	0	±1.8	1.5	±4.2
			I-131, pCi/L				
JACKSON, SC	25	0	±360	0	±1.7	0	-
WILLISTON, SC	22	0	±40	0	±1.9	0	-
GIRARD, GA	21	0	±25	0	±1.8	0	-
GRACEWOOD, GA	20	0	±8.4	0	±3.1	0	-
WAYNESBORO, GA	24	0	±8.0	0	±1.8	0	-
MAJOR DISTRIBUTOR	25	0	±9.8	0	±2.3	0	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 6-2
RADIOACTIVITY IN FOOD

Type Food	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Sr-90, pCi/g (wet weight)				
Collards	15	0.43	±0.40	0.0	±0.07	0.15	±0.22
Fruits	14	0.54	±0.12	-0.04	±0.08	0.06	±0.33
Grains	14	0.03	±0.05	-0.02	±0.08	0.005	±0.03
Corn	14	1.0	±0.07	-0.04	±0.06	0.07	±0.54
Chicken	4	0.06	±0.08	-0.04	±0.07	-	-
Eggs	16	0.03	±0.06	-0.08	±0.07	-0.003	±0.06
Pork	4	0.03	±0.10	0.0	±0.07	-	-
Beef	4	0.06	±0.10	0.0	±0.08	-	-
			Zr-95, Nb-95, pCi/g (wet weight)				
Collards	15	0.0	±0.14	0.0	±0.05	-	-
Fruits	14	0.0	±0.46	0.0	±0.03	-	-
Grains	14	0.0	±0.19	0.0	±0.01	-	-
Corn	14	0.0	±0.35	0.0	±0.11	-	-
Chicken	4	0.0	±0.24	0.0	±0.04	-	-
Eggs	17	0.0	±0.04	0.0	±0.01	-	-
Pork	4	0.0	±0.04	0.0	±0.01	-	-
Beef	4	0.0	±0.33	0.0	±0.008	-	-
			Ru-103,106,pCi/g (wet weight)				
Collards	15	0.0	±0.23	0.0	±0.10	-	-
Fruits	14	0.0	±0.41	0.0	±0.21	-	-
Grains	14	0.0	±0.26	0.0	±0.03	-	-
Corn	14	0.0	±0.32	0.0	±0.13	-	-
Chicken	4	0.0	±0.15	0.0	±0.13	-	-
Eggs	17	0.0	±0.14	0.0	±0.01	-	-
Pork	4	0.0	±0.046	0.0	±0.02	-	-
Beef	4	0.0	±0.36	0.0	±0.04	-	-
			Cs-137, pCi/g (wet weight)				
Collards	15	0.01	±0.004	0.0	±0.0	0.006	±0.009
Fruits	14	0.02	±0.01	0.0	±0.001	0.001	±0.01
Grains	14	0.03	±0.01	0.0	±0.002	0.01	±0.02
Corn	14	0.02	±0.01	0.0	±0.002	0.003	±0.006
Chicken	4	0.02	±0.01	0.0	±0.02	-	-
Eggs	17	0.006	±0.003	0.0	±0.006	0.001	±0.004
Pork	4	0.02	±0.005	0.0	±0.006	-	-
Beef	4	0.05	±0.01	0.0	±0.02	-	-
			K-40, pCi/g (wet weight)				
Collards	15	5.4	±0.38	0.20	±0.13	3.3	±2.7
Fruits	14	1.9	±0.17	0.0	±0.40	1.3	±1.4
Grains	14	3.9	±0.27	1.7	±0.16	2.8	±1.3
Corn	14	3.6	±0.27	0.0	±0.27	2.1	±2.5
Chicken	4	2.5	±0.20	1.4	±0.13	-	-
Eggs	17	2.3	±0.18	0.36	±0.06	1.4	±0.75
Pork	4	2.6	±0.13	1.3	±0.14	-	-
Beef	4	2.8	±0.21	1.3	±0.13	-	-

- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 6-2
RADIOACTIVITY IN FOOD, CONT'D.

Type Food	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			Tritium, pCi/mL (free water)				
Collards	14	7.1	±0.21	-0.02	±0.13	1.1	3.7
Fruits	14	4.2	±0.19	0.17	±0.16	1.8	2.4
Grains	a						
Corn	a						
Chicken	4	1.6	±0.24	0.70	±0.23	-	-
Eggs	17	2.1	±1.2	-0.01	±0.12	0.83	1.3
Pork	4	0.69	±0.24	0.10	±0.23	-	-
Beef	4	0.70	±0.24	0.0	±0.23	-	-
			U/Pu, pCi/g (wet weight)				
Collards	15	0.13	±0.12	0.0	±0.0	0.011	±0.07
Fruits	14	0.38	±0.05	0.0	±0.0	0.028	±0.20
Grains	14	0.02	±0.02	0.0	±0.01	0.004	±0.02
Corn	14	0.02	±0.01	0.0	±0.0	0.004	±0.013
Chicken	4	0.0	±0.01	0.0	±0.01	-	-
Eggs	16	0.02	±0.06	0.0	±0.01	0.006	±0.02
Pork	4	0.0	±0.01	0.0	±0.01	-	-
Beef	4	0.0	±0.01	0.0	±0.01	-	-
			Pu-239, fCi/g (wet weight)				
Collards	4	0.028	±0.018	0.01	±0.015	-	-
Fruits	4	0.023	±0.032	0.0	±0.01	-	-
Grains	4	0.22	±0.070	0.012	±0.040	-	-
Corn	4	0.025	±0.019	0.013	±0.013	-	-
Chicken	4	0.10	±0.061	0.0	±0.0	-	-
Eggs	12	0.13	±0.05	0.027	±0.03	0.14	±0.55
Pork	4	1.1	±0.42	-0.003	±0.02	-	-
Beef	4	0.41	±0.044	0.022	±0.034	-	-
			Pu-238, fCi/g (wet weight)				
Collards	4	0.27	±0.065	0.038	±0.030	-	-
Fruits	4	0.091	±0.027	-0.015	±0.025	-	-
Grains	4	0.45	±0.42	0.003	±0.025	-	-
Corn	4	0.009	±0.022	-0.060	±0.02	-	-
Chicken	4	0.033	±0.040	-0.08	±0.013	-	-
Eggs	12	0.54	±0.14	0.029	±0.029	0.13	±0.29
Pork	4	0.32	±0.11	-0.011	±0.028	-	-
Beef	4	0.77	±0.11	-0.016	±0.030	-	-

[a] No analysis.
- Insufficient data; standard deviation not calculated for <5 samples.

TABLE 6-3
RADIOACTIVITY IN DRINKING WATER

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Gross Alpha, pCi/L				
A AREA	4	0.86	±0.68	-0.08	±0.17	0.24	±0.43
ALLENDALE GATE	4	0.21	±0.37	-0.09	±0.17	0.01	±0.14
BARNWELL GATE	4	0.08	±0.29	-0.09	±0.17	0.01	±0.08
CENTRAL SHOPS	5	0.27	±0.45	-0.09	±0.17	0.04	±0.15
CLASSIFICATION YARD	4	1.04	±0.97	-0.09	±0.17	0.24	±0.54
D AREA	4	0	±0.24	-0.08	±0.17	-0.05	±0.04
EMER OPER CENTER	4	0.83	±0.57	0.08	±0.29	0.27	±0.37
FIRING RANGE	4	1.91	±0.92	0.26	±0.38	1.17	±0.78
FORESTRY BLDG	5	4.52	±1.26	0.5	±0.47	1.67	±1.72
JACKSON GATE	4	0.83	±0.63	0.17	±0.34	0.37	±0.31
PAR POND LAB	4	0	±0.24	-0.03	±0.3	-0.01	±0.01
TALATHA GATE	4	3.93	±1.34	0.95	±0.62	1.72	±1.47
TC-1	4	0.72	±0.53	0.26	±0.38	0.43	±0.2
TNX	4	0.41	±0.44	-0.09	±0.17	0.1	±0.22
WILLISTON GATE	4	0.4	±0.5	-0.08	±0.17	0.12	±0.2
Z AREA	1	0.49	±0.52	0.49	±0.52	0.49	-
105C BLDG	12	2.63	±0.99	0	±0.24	0.68	±0.92
105K BLDG	12	0.68	±0.48	-0.09	±0.17	0.25	±0.22
105L BLDG	12	0.4	±0.43	-0.17	±0.24	0.17	±0.17
105P BLDG	12	0.93	±0.56	-0.08	±0.17	0.31	±0.28
221F BLDG	12	4.63	±1.47	0.09	±0.36	1.61	±1.32
221H BLDG	12	6.64	±1.49	0.52	±0.49	3.06	±2.02
241-24H	3	6.51	±1.74	1.85	±0.84	3.56	±2.57
617G WACKENHUT TR FA	4	0.84	±1.84	0.08	±0.29	0.31	±0.35
681 1G	4	0.59	±0.61	0	±0.24	0.27	±0.28
681 3G	4	0.5	±0.47	0.08	±0.29	0.25	±0.18
701 1F	3	4.17	±1.21	0.84	±0.58	2.07	±1.83
701 1H	3	4	±1.19	0.42	±0.44	2.51	±1.87
701-12G BARRICADE 7	4	0.33	±0.41	0.08	±0.29	0.18	±0.12
701-13G BARRICADE 6	4	1.16	±0.72	0.08	±0.29	0.46	±0.49
701-8G BARRICADE 8	4	0.49	±0.45	0.08	±0.29	0.25	±0.18
704-F	2	1.34	±0.82	0.6	±0.52	0.97	±0.52
704-H	2	3.11	±1.13	0.43	±0.46	1.77	±1.9
704S DWPF	4	0.6	±0.52	0.08	±0.29	0.3	±0.22
772-F	3	5.79	±1.65	1.32	±0.73	2.83	±2.56
AIKEN STREAM & WELL	2	0.51	±0.48	0.26	±0.3	0.38	±0.18
ALLENDALE WELL	2	0.26	±0.3	-0.08	±0.17	0.09	±0.24
AUGUSTA RIVER	2	0.17	±0.34	0.17	±0.24	0.17	±0
BARNWELL WELL	2	0.34	±0.42	0	±0	0.17	±0.24
BATH WELL	2	0.34	±0.42	-0.09	±0.17	0.13	±0.3
BLACKVILLE WELL	2	0.08	±0.29	0	±0	0.04	±0.06
CLEARWATER LAKE	2	0.17	±0.24	0.08	±0.29	0.12	±0.06
JACKSON WELL	2	2.98	±1.03	2.15	±0.89	2.56	±0.59
LANGLEY WELL	2	1.7	±0.8	0.26	±0.3	0.98	±1.02
NEW ELLENTON WELL	2	0.34	±0.42	0.26	±0.3	0.3	±0.06
NORTH AUGUSTA RIVER	2	0.09	±0.17	-0.08	±0.17	0.01	±0.12
SARDIS WELL	2	0.17	±0.24	0	±0.24	0.08	±0.12
WAYNESBORO STREAM	2	0.09	±0.17	0.08	±0.29	0.08	±0.01
WILLISTON WELL	3	1.24	±0.76	0.43	±0.38	0.92	±0.43
BEAUFORT FIN COMP	12	0.09	±0.3	-0.08	±0.29	0	±0.05
BEAUFORT RAW COMP	13	0.1	±0.35	-0.17	±0.24	-0.02	±0.11
N AUGUSTA FIN COMP	12	0.21	±0.37	-0.17	±0.24	0	±0.12
N AUGUSTA RAW COMP	12	0.08	±0.16	-0.14	±0.18	-0.06	±0.07
SAVANNAH FIN COMP	12	0.13	±0.47	-0.2	±0.14	-0.03	±0.11
SAVANNAH RAW COMP	12	0.11	±0.34	-0.16	±0.06	0.02	±0.09

- Insufficient data; standard deviation not calculated <5 samples.

TABLE 6-3
RADIOACTIVITY IN DRINKING WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Nonvolatile Beta, pCi/L				
A AREA	4	0.74	±0.75	-0.22	±0.85	0.36	±0.42
ALLENDALE GATE	4	1.87	±0.86	-0.39	±0.83	0.59	±0.94
BARNWELL GATE	4	0.55	±0.88	0	±1.06	0.33	±0.24
CENTRAL SHOPS	4	0.89	±0.75	0.19	±1.08	0.49	±0.3
CLASSIFICATION YARD	4	1.86	±0.99	0.39	±0.92	1.12	±0.6
D AREA	4	1.68	±1.07	0.93	±0.93	1.37	±0.32
EMER OPER CENTER	4	0.55	±0.88	0.28	±0.92	0.46	±0.13
FIRING RANGE	4	2.64	±1.11	1.59	±0.86	2.09	±0.43
FORESTRY BLDG	5	3.56	±1.01	0.55	±0.88	1.73	±1.14
JACKSON GATE	4	1.34	±1.04	0.13	±1.07	0.81	±0.57
PAR POND LAB	4	1.85	±1.09	0	±1.06	1.15	±0.83
TALATHA GATE	4	2.34	±0.97	0	±0.87	1.52	±1.07
TC-1	4	1.21	±0.96	0.52	±1.12	0.93	±0.31
TNX	4	3.56	±1.18	2.52	±1.16	3.1	±0.5
WILLISTON GATE	4	0.52	±1.12	-0.22	±0.85	0.12	±0.33
Z AREA	1	1.72	±0.86	1.72	±0.86	1.72	-
105C BLDG	12	2.47	±1.34	0.48	±1.25	1.12	±0.56
105K BLDG	12	3.25	±1.41	0.62	±0.94	1.58	±0.75
105L BLDG	12	2.15	±1.31	0.9	±0.98	1.32	±0.37
105P BLDG	12	1.97	±0.89	0.67	±0.96	1.13	±0.42
221F BLDG	12	8.26	±1.82	1.26	±1.2	4.1	±1.73
241-24H	3	5.33	±1.57	3.32	±1.08	4.65	±1.15
221H BLDG	12	11	±1.96	2.86	±1.36	6.58	±3.06
617G WACKENHUT TR FA	4	1.67	±1.07	0.45	±1.11	0.9	±0.54
681 1G	4	3.83	±1.45	2.2	±1.07	3.18	±0.78
681 3G	4	2.52	±1	1.17	±1.19	1.93	±0.56
701 1F	3	8.71	±1.82	2.13	±1.12	5.04	±3.36
701 1H	3	6.5	±1.65	3.64	±1.26	5.25	±1.46
701-12G BARRICADE 7	4	1.87	±0.86	0.86	±1.32	1.33	±0.53
701-13G BARRICADE 6	4	0.78	±1.15	-0.05	±0.8	0.34	±0.34
701-8G BARRICADE 8	4	1.01	±1	0.32	±0.63	0.7	±0.29
704 F	3	4.88	±1.22	3.84	±1.41	4.29	±0.53
704 H	2	6.97	±1.39	4.09	±1.48	5.53	±2.04
704S DWPF	4	1.61	±0.87	0.66	±0.89	1.24	±0.41
772 F	3	5.44	±1.31	4.22	±1.61	4.67	±0.67
AIKEN STREAM & WELL	2	1.92	±1.23	0.65	±1.16	1.28	±0.9
ALLENDALE WELL	2	1.28	±1.16	0.32	±1.13	0.8	±0.68
AUGUSTA RIVER	2	0.83	±1.11	0.39	±1.13	0.61	±0.31
BARNWELL WELL	2	0.19	±1.11	0.06	±1.02	0.12	±0.09
BATH WELL	2	1.66	±1.2	1.36	±1.24	1.51	±0.21
BLACKVILLE WELL	2	1.15	±1.14	0.52	±1.15	0.83	±0.45
CLEARWATER LAKE	2	2.56	±1.29	1.56	±1.26	2.06	±0.71
JACKSON WELL	2	4.42	±1.52	2.82	±1.32	3.62	±1.13
LANGLEY WELL	2	2.75	±1.31	1.75	±1.28	2.25	±0.71
NEW ELLENTON WELL	2	1.36	±1.24	0.64	±1.09	1	±0.51
NORTH AUGUSTA RIVER	2	1.3	±1.23	1.22	±1.15	1.26	±0.06
SARDIS WELL	2	1.79	±1.21	0.65	±1.16	1.22	±0.81
WAYNESBORO STREAM	2	0.9	±1.12	0.45	±1.14	0.67	±0.32
WILLISTON WELL	2	2.79	±1.38	1.34	±1.17	2.06	±1.03
BEAUFORT FIN COMP	12	2.79	±0.98	0.64	±1.14	1.5	±0.69
BEAUFORT RAW COMP	12	2.42	±0.92	-0.67	±1.04	1.48	±0.81
N AUGUSTA FIN COMP	12	1.97	±0.6	0.17	±1.13	1.06	±0.52
N AUGUSTA RAW COMP	12	2.24	±0.9	-1.06	±1	1.26	±0.82
SAVANNAH FIN COMP	12	3.82	±1.13	0.34	±1.14	1.62	±0.89
SAVANNAH RAW COMP	12	2.24	±0.95	0.39	±1.15	1.47	±0.57

- Insufficient data; standard deviation not calculated <5 samples.

TABLE 6-3
RADIOACTIVITY IN DRINKING WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Sr-89,90, pCi/L				
105C BLDG	1	1.4	±3	1.4	±3	1.4	-
105K BLDG	1	0.35	±2.9	0.35	±2.9	0.35	-
105L BLDG	1	0.71	±0.29	0.71	±0.29	0.71	-
105P BLDG	1	-0.18	±2.8	-0.18	±2.8	-0.18	-
221F BLDG	1	-0.21	±1.03	-0.21	±1.03	-0.21	-
221H BLDG	1	0	±1.2	0	±1.2	0	-
241-24H	1	-0.27	±1.05	-0.27	±1.05	-0.27	-
701 1F	1	-0.17	±2.8	-0.17	±2.8	-0.17	-
701 1H	1	0.7	±2.9	0.7	±2.9	0.7	-
704S DWPF	1	-0.68	±0.97	-0.68	±0.97	-0.68	-
772 F	1	0.85	±1.26	0.85	±1.26	0.85	-
AIKEN STREAM & WELL	1	-0.67	±1.18	-0.67	±1.18	-0.67	-
ALLENDALE WELL	1	1.7	±2.9	1.7	±2.9	1.7	-
AUGUSTA RIVER	1	1.7	±2.9	1.7	±2.9	1.7	-
BARNWELL WELL	1	0	±2.9	0	±2.9	0	-
BATH WELL	1	1.3	±2.8	1.3	±2.8	1.3	-
BLACKVILLE WELL	1	0.84	±2.8	0.84	±2.8	0.84	-
CLEARWATER LAKE	1	2.7	±3	2.7	±3	2.7	-
JACKSON WELL	1	1	±2.8	1	±2.8	1	-
LANGLEY WELL	1	2.4	±3	2.4	±3	2.4	-
NEW ELLENTON WELL	1	0.68	±2.7	-0.68	±2.7	-0.68	-
NORTH AUGUSTA RIVER	1	0.68	±2.8	0.68	±2.8	0.68	
SARDIS WELL	1	-1.2	±2.6	-1.2	±2.6	-1.2	-
TNX	1	-0.38	±0.85	-0.38	±0.85	-0.38	-
WAYNESBORO STREAM	1	-0.45	±1.18	-0.45	±1.18	-0.45	-
WILLISTON WELL	1	-0.34	±0.27	-0.34	±0.27	-0.34	-

- Insufficient data; standard deviation not calculated <5 samples.

TABLE 6-3
RADIOACTIVITY IN DRINKING WATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			H-3, pCi/mL				
A AREA	4	0.04	±0.26	-0.18	±0.11	-0.05	0.1
ALLENDALE GATE	4	0.19	±0.1	-0.35	±0.17	-0.12	0.25
BARNWELL GATE	4	0.05	±0.14	-0.12	±0.26	-0.03	0.08
CENTRAL SHOPS	4	0.36	±0.18	-0.3	±0.11	-0.07	0.31
CLASSIFICATION YARD	4	-0.04	±0.18	-0.3	±0.11	-0.17	0.12
D AREA	4	0.49	±0.18	0.35	±0.26	0.44	0.06
EMER OPER CENTER	4	0.19	±0.26	-0.16	±0.25	-0.04	0.16
FIRING RANGE	4	1.55	±0.28	1.12	±0.12	1.41	0.19
FORESTRY BLDG	4	1.34	±0.19	0.91	±0.12	1.21	0.2
JACKSON GATE	4	0.12	±0.1	-0.14	±0.11	-0.01	0.11
PAR POND LAB	4	-0.09	±0.26	-0.53	±0.17	-0.27	0.18
TALATHA GATE	4	1.17	±0.11	0.66	±0.12	0.91	0.21
TC-1	4	0.07	±0.26	-0.07	±0.11	0.02	0.07
TNX	4	-0.03	±0.21	-0.19	±0.09	-0.12	0.07
WILLISTON GATE	4	0.25	±0.26	-0.24	±0.1	0.01	0.23
Z AREA	1	0.13	±0.15	0.13	±0.15	0.13	-
105C BLDG	12	0.35	±0.18	-0.38	±0.11	-0.05	0.2
105K BLDG	13	1.55	±0.18	-0.12	±0.09	0.49	0.59
105L BLDG	12	0.2	±0.17	-0.19	±0.11	-0.03	0.13
105P BLDG	13	1.7	±0.15	0.11	±0.2	0.49	0.55
221F BLDG	12	0.21	±0.26	-0.38	±0.17	-0.09	0.19
221H BLDG	12	0.17	±0.26	-0.29	±0.17	-0.01	0.12
241-24H	3	0.08	±0.26	-0.26	±0.11	-0.08	0.17
617G WACKENHUT TR FA	4	2.01	±0.22	1.01	±0.11	1.49	0.46
681 1G	4	0.22	±0.18	-0.31	±0.11	-0.02	0.22
681 3G	4	0.08	±0.25	-0.26	±0.25	-0.09	0.15
701 1F	3	0.11	±0.17	-0.31	±0.14	-0.06	0.22
701 1H	3	0.2	±0.17	-0.14	±0.19	0.03	0.17
701-12G BARRICADE 7	4	4.08	±0.31	2.05	±0.12	2.77	0.94
701-13G BARRICADE 6	4	2.82	±0.29	2.15	±0.18	2.61	0.31
701-8G BARRICADE 8	4	3.52	±0.3	3.13	±0.2	3.34	0.18
704 F	2	0.09	±0.1	-0.19	±0.11	-0.05	0.2
704 H	2	0.08	±0.08	-0.19	±0.09	-0.06	0.19
704S DWPF	4	0.04	±0.25	-0.14	±0.26	-0.02	0.08
772 F	3	0.32	±0.26	-0.22	±0.11	0.01	0.28
AIKEN STREAM & WELL	2	0.42	±0.21	0.1	±0.17	0.26	0.23
ALLENDALE WELL	2	-0.09	±0.21	-0.26	±0.17	-0.17	0.12
AUGUSTA RIVER	2	0.23	±0.21	0.12	±0.17	0.17	0.08
BARNWELL WELL	2	-0.21	±0.17	-0.24	±0.14	-0.22	0.02
BATH WELL	2	0.34	±0.21	-0.1	±0.17	0.12	0.31
BLACKVILLE WELL	2	-0.12	±0.21	-0.38	±0.17	-0.25	0.18
CLEARWATER LAKE	2	-0.06	±0.17	-0.19	±0.14	-0.12	0.09
JACKSON WELL	2	0.63	±0.21	0.39	±0.17	0.51	0.17
LANGLEY WELL	2	0.22	±0.21	0.14	±0.17	0.18	0.06
NEW ELLENTON WELL	2	0.11	±0.17	0.07	±0.21	0.09	0.03
NORTH AUGUSTA RIVER	2	0.32	±0.21	0.28	±0.19	0.3	0.03
SARDIS WELL	2	0.14	±0.17	-0.03	±0.21	0.05	0.12
WAYNESBORO STREAM	2	-0.23	±0.21	-0.47	±0.17	-0.35	0.17
WILLISTON WELL	2	0.16	±0.21	-0.09	±0.17	0.03	0.18
BEAUFORT FIN COMP	12	3.98	±0.24	1.52	±0.24	2.54	0.69
BEAUFORT RAW COMP	12	3.98	±0.24	1.51	±0.24	2.53	0.69
N AUGUSTA FIN COMP	12	0.46	±0.19	-0.14	±0.09	0.13	0.2
N AUGUSTA RAW COMP	12	0.47	±0.24	-0.14	±0.11	0.11	0.21
SAVANNAH FIN COMP	12	3.63	±0.24	1.26	±0.24	2.55	0.65
SAVANNAH RAW COMP	12	3.98	±0.24	1.27	±0.24	2.55	0.79

- Insufficient data; standard deviation not calculated <5 samples.

TABLE 6-4
DRINKING WATER ANALYSIS RESULTS
FOR RESIDUAL CHLORINE AND TOTAL COLIFORM[a]

Location	No. of Samples	Residual Chlorine (mg/L) Maximum	Minimum	Average	Total Coliform (colonies/100mL) Maximum	Minimum	Average
Aiken Barricade	11	0.3	0.1	0.2	<1		
Allendale Barricade	18	2.0	<0.1	<0.5	<1		
ATTA	9	0.5	0.1	0.3	<1		
Augusta Barricade	15	0.8	<0.1	<0.3	<1		
703-A	2	1.0	<0.1		<1		
703-41A	7	1.3	1.1	1.1	<1		
703-42A	2	1.4	0.5		<1		
703-43A	2	1.5			<1		
703-44A	2	1.0	0.3		<1		
703-45A	2	1.3	1.0		<1		
708-A	2	1.2	0.4		<1		
716-A	2	2.0	0.8		<1		
716-2A	4	0.8	<0.1		<1		
719-A	17	1.0	<0.1	<0.6	<1		
719-11A	1	<0.1			<1		
711-1A	1	<0.1			<1		
722-5A	2	<0.1			<1		
723-A	4	2.0	1.3		<1		
724-A	13	1.1	0.7	0.9	<1		
730-A	2	2.0	1.5		<1		
735-11A	2	1.2	1.0		<1		
737-A	1	1.5			<1		
740-A	1	<0.1			<1		
741-A	1	1.1			<1		
742-A	1	0.7			<1		
745-A	2	2.5	1.0		<1		
770-A	1	1.2			<1		
772-5A	3	<0.1			<1		
777-10A	2	0.3	<0.1		<1		
778-3A	2	0.5			<1		
780-A	1	0.5			<1		
784-A	6	1.5	0.3	1.1	<1		
786-5A	1	<0.1			<1		
786-6A	3	<0.1			<1		
789-A	11	1.5	0.7	1.0	<1		
Construction Tr (B)	1	2.0			<1		
704-B	1	0.2			<1		
704-3B	1	0.2			<1		
716-B	2	0.3	0.2		<1		
780-B	4	0.5	0.2		<1		
Barnwell Barricade	11	1.5	0.1	0.4	<1		
Barricade #6	4	0.3	0.1		<1		
Barricade #7	1	0.3			<1		
105-C	1	0			<1		
183-2C	53	2.0	0.3	1.4	<1		
183-4C	2	1.9	1.5		<1		
701-1C	19	2.3	0.5	1.4	<1		
704-C	46	2.0	0.4	1.2	<1		
705-C	3	0.9	0.4		<1		
706-C	19	1.8	0.5	1.0	<1		
717-C	7	1.5	0.4	0.9	<1		

[a] Results reported as received from the Bacteria Laboratory-Building 772 D.
A blank space indicates that the average is not calculated for <5 samples.

TABLE 6-4
DRINKING WATER ANALYSIS RESULTS
FOR RESIDUAL CHLORINE AND TOTAL COLIFORM, CONT'D.[a]

Location	No. of Samples	Residual Chlorine (mg/L) Maximum	Minimum	Average	Total Coliform (colonies/100mL) Maximum	Minimum	Average
Central Shops	3	0.5	0.2		<1		
Central Shops QA Building	6	1.0	0.3	0.6	<1		
420-D	21	2.4	<0.1	<1.3	<1		
483-D	363	3.0	0.3	2.0	28	<1	<1
484-D	1	2.3			<1		
701-D	1	0.7			<1		
704-D	66	2.5	<0.1	<1.3	14	<1	<1
707-D	1	1.0			<1		
717-D	30	2.5	<0.1	<1.4	<1		
ETF-5	2.0	0	<0.6	<1			
ETF-Trailer	2	2.0	1.9		<1		
211-F	1	1.6			<1		
221-F	3	2.0	1.1		<1		
221-1F	1	0.5			<1		
221-10F	1	0.7			<1		
221-15F	1	0.5			<1		
221-18F	2	1.1	0.7		<1		
221-E&E	2	0.9			<1		
235-F	12	1.2	0.0	0.9	<1		
241-17F	1	1.1			<1		
241-18F	6	1.3	0.7	1.1	<1		
241-62F	1	1.0			<1		
242-F	8	1.7	0.2	0.7	1	<1	<1
246-F	1	0.9			<1		
247-F	2	1.5	0.9		<1		
280-1F	11	1.6	1.1	1.3	<1		
284-F	1	1.4			<1		
284-8F	3	2.0	0.0		<1		
285-F	1	0.9			<1		
607-F	1	1.8			<1		
607-18F	3	1.6	0.9		<1		
607-19F	3	2.0	0.8		<1		
704-F	11	1.1	0.2	0.8	<1		
704-14F	1	0.5			<1		
706-F	3	1.7	0.5		<1		
707-F	1	1.6			<1		
709-F	7	1.2	0.2	0.8	<1		
717-F	2	2.0	1.0		<1		
723-F	1	0.7			<1		
772-F	2	0.8	0.5		<1		
405-7G	1	<0.1			<1		
617-G	1	0.1			<1		
618-G	10	0.6	0.2	0.4	<1		
624-G	2	0.7	0.4		2	<1	
642-G	1	1.0			<1		
643-G	2	1.0	0.7		<1		
661-G	3	1.0	0.3		<1		
661-1G	1	0.1			<1		
681-1G	11	0.5	<0.1	<0.4	<1		

[a] Results reported as received from the Bacteria Laboratory-Building 772 D.
A blank space indicates that the average is not calculated for <5 samples.

TABLE 6-4
DRINKING WATER ANALYSIS RESULTS
FOR RESIDUAL CHLORINE AND TOTAL COLIFORM, CONT'D.[a]

Location	No. of Samples	Residual Chlorine (mg/L) Maximum	Minimum	Average	Total Coliform (colonies/100mL) Maximum	Minimum	Average
681-9G	10	1.8	0.7	1.2	<1		
681-10G	1	1.5			<1		
690-G	1	0.8			<1		
701-3G	1	1.2			<1		
703-10G	1	0.2			<1		
704-7G	1	0.2			<1		
706-G	2	0.3	0.2		<1		
709-G	5	1.2	0.5	0.9	<1		
709-1G	1	<0.1			<1		
709-4G	2	1.0			<1		
710-G	2	0.6	0.5		<1		
724-4G	1	0.5			<1		
724-7G	8	1.7	0.9	1.1	<1		
726-1G	1	0.3			<		
735-7G	16	1.3	<0.1	<0.3	<1		
760-G	2	0.2	0.1		<1		
905-74G	1	0.5			<1		
905-86G	1	0.4			<1		
905-107G	1	0.4			<1		
905-108G	1	0.3			<1		
905-109G	1	0.2			<1		
905-115G	1	0.2			<1		
906-6G	1	0.5			<1		
Construction Tr	2	1.5	0.5		<1		
108-H (Center under construct. tr.)							
232-H	8	1.3	0.4	0.7	<1		
233-H	2	1.4	0.8		3	<1	
234-H	1	0.8			<1		
235-H	3	1.4	0.5		<1		
238-H	3	1.8	0.8		<1		
241-H	1	1.0			<1		
241-12H	7	2.0	0.0	1.2	<1		
241-13H	2	2.0	1.6		<1		
241-84H	3	2.0	0.4		<1		
241-96H	1	0.6			<1		
241-105H	5	2.5	0.2	1.2	<1		
244-H	3	1.2	0.6		<1		
280-1H	2	1.9	1.0		<1		
284-H	5	2.4	1.0	1.5	<1		
299-H	5	1.5	0.8	1.2	<1		
607-H	1	0.8			<1		
607-20H	1	1.4			<1		
701-H	9	2.3	0.6	1.4	<1		
701-1H	11	3.0	0.6	1.4	202	<1	<19
703-H	5	2.2	0.3	1.1	<1		
704-H	13	1.8	0.5	1.2	<1		
706-H	2	1.4	1.0		<1		
105-K	6	1.1	0.3	0.6	17	<1	<4
108-1K	9	1.0	<0.1	<0.6	<1		
183-2K	7	2.5	0.3	1.5	<1		
183-4K	1	2.0			<1		

[a] *Results reported as received from the Bacteria Laboratory-Building 772 D.*
A blank space indicates that the average is not calculated for <5 samples.

TABLE 6-4
DRINKING WATER ANALYSIS RESULTS
FOR RESIDUAL CHLORINE AND TOTAL COLIFORM, CONT'D.[a]

Location	No. of Samples	Residual Chlorine (mg/L) Maximum	Minimum	Average	Total Coliform (colonies/100mL) Maximum	Minimum	Average
186-K	1	0.5			<1		
701-1K	17	1.0	0.0	<0.7	<1		
704-K	54	2.3	<0.1	<0.8	<1		
717-K	5	1.4	<0.1	<0.7	<1		
105-L	1	1.0			<1		
108-1L	9	1.6	0.7	1.1	<1		
183-L	2	1.5	1.1		<1		
183-2L	33	2.0	0.4	1.3	<1		
701-L	2	1.2	0.9		<1		
701-1L	26	1.8	0.5	1.2	3	<1	<1
704-1L	29	1.7	<0.1	<0.1	<1		
704-1L	2	1.3	1.0		<1		
313-M	1	1.5			<1		
320-M	3	1.1	0.7		<1		
703-M	1	0.7			<1		
704-M	14	1.1	0.2	0.5	<1		
730-M	1	<0.1			<1		
781-M	1	1.3			<1		
New Hill	2	1.0	0.8		<1		
105-P	1	1.0			<1		
108-1P	8	1.0	<0.1	<0.7	<1		
183-2P	5	1.8	1.0	1.4	<1		
184-P	1	0.6			<1		
701-P	3	1.4	1.0		<1		
701-1P	28	1.5	0.4	0.9	<1		
704-P	54	1.5	<0.1	<0.9	<1		
704-1P	3	1.5	1.3		<1		
Pistol Range	13	1.0	<0.1	<0.3	<1		
RR Yard	5	0.6	0.2	0.3	<1		
RD2 Barricade	7	0.3	0.1	0.2	<1		
RD6 Barricade	6	0.3	0.1	0.2	<1		
RTF	7	1.4	0.6	1.1	<1		
235-S	1	0.8			<1		
241-2S	1	1.5			<1		
980-S	4	<3.5	1.8		43	<1	
S Area	5	>3.5	0.8	>2.6	<1		
579-T	1	0.5			<1		
676-3T	2	0.4	<0.1		<1		
676-8T	4	0.4	0.0		<1		
677-T	1	0.2			<1		
679-T	7	0.7	0.1	0.4	<1		
704-T	2	0.5			<1		
776-8T	1	1.0			<1		
904-T	7	0.8	<0.1	<0.1	<1		
679-TNX	7	1.5	0.3	0.7	<1		
711-TNX	2	0.4			<1		
TNX	9	1.0	0.2	0.5	<1		
TAB-1	3	1.2	1.0		<1		
780-U	1	0.3			<1		
789-U	12	1.5	0.2	0.5	<1		
Well 3	7	1.2	0.7	1.0	<1		
Williston	11	0.5	0.2	0.4	<1		
WTF-H	1	0.8					

[a] Results reported as received from the Bacteria Laboratory-Building 772 D.
A blank space indicates that the average is not calculated for <5 samples.

TABLE 6-5
DRINKING WATER ANALYSIS RESULTS FOR CHEMICALS, METALS, AND ORGANICS

Constituents (units)[a]	100 P	100 K	100 C	100 L	200 F	200 H
pH (pH units) (lab)	7.27	7.20	6.87	6.82	6.95	6.57
Conductivity (µmhos/cm)	65	68	47	66	99	66
Color (PCU)	17	14	11	19	9	12
Turbidity (NTU)	0.90	1.33	0.75	2.4	0.50	0.99
TDS (mg/L)	45	47	43	51	68	44
Chloride (mg/L)	4.70	6.50	4.13	5.62	3.70	4.39
Fluoride (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate (mgN/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfate (mg/L)	7.90	8.24	8.18	7.24	8.84	9.45
Silica (mg/L)	12.9	11.7	10.8	12.3	10.3	10.7
Total alkalinity (mg/L)	11.1	10.4	3.13	11.5	30.8	9.53
Total arsenic (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total barium (mg/L)	0.0225	0.0368	0.0069	0.0372	<0.005	0.0072
Total cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total calcium (mg/L)	5.76	4.44	4.18	6.02	0.745	0.804
Total chromium (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total copper (mg/L)	<0.01	<0.01	<0.01	<0.016	<0.019	<0.01
Total sodium (mg/L)	4.99	6.00	3.33	4.84	19.2	10.3
Total iron (mg/L)	0.803	0.987	0.412	1.12	0.434	0.867
Total lead (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total magnesium (mg/L)	0.439	0.582	0.316	0.542	0.306	0.306
Total manganese (mg/L)	0.0103	0.0280	0.0075	0.0224	0.0083	0.0160
Total mercury (ug/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total potassium (mg/L)	0.75	1.6	0.33	0.92	0.45	0.67
Total selenium (mg/L)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Total silver (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total zinc (mg/L)	<0.1	0.012	0.021	<0.01	0.012	0.029

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associaties.

TABLE 6-5
DRINKING WATER ANALYSIS RESULTS FOR CHEMICALS, METALS, AND ORGANICS, CONT'D.

Constituents (units)[a]	S Area	3/700	400 D	B (TC-1)	Central Shops	ATTA
pH (pH units) (lab)	6.75	6.83	7.02	7.17	6.59	7.12
Conductivity (µmhos/cm)	122	69	184	51	92	90
Color (PCU)	18	18	<5	<5	<5	11
Turbidity (NTU)	0.45	5.00	1.70	0.75	0.88	1.07
TDS (mg/L)	88	52	97	48	61	53
Chloride (mg/L)	6.12	3.36	19.8	2.76	4.60	3.53
Fluoride (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate (mgN/L)	<0.01	0.06	0.27	<0.01	<0.01	0.29
Sulfate (mg/L)	9.0	1.58	25.6	1.55	8.13	2.2
Silica (mg/L)	13.5	9.03	8.27	9.40	13.2	6.33
Total alkalinity (mg/L)	53.2	28.4	28.7	22.3	26.3	33.8
Total arsenic (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total barium (mg/L)	0.0094	<0.005	0.0164	<0.005	0.0128	0.0218
Total cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total calcium (mg/L)	3.47	0.411	4.38	7.97	10.5	17.1
Total chromium (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total copper (mg/L)	<0.01	<0.01	0.077	0.010	<0.01	2.06
Total sodium (mg/L)	25.9	13.8	28.2	2.51	6.28	1.98
Total iron (mg/L)	0.814	0.108	0.045	0.051	0.612	0.466
Total lead (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	0.0612
Total magnesium (mg/L)	0.383	0.183	1.36	0.403	0.434	0.361
Total manganese (mg/L)	0.0149	0.0055	0.194	<0.005	0.0093	0.0112
Total mercury (µg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total potassium (mg/L)	0.56	<0.4	1.6	<0.4	0.45	0.654
Total selenium (mg/L)	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Total silver (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00080
Total zinc (mg/L)	0.012	0.040	0.013	0.011	0.010	1.02
Total aluminum		<0.05				
Total vanadium		<0.02				
Total antimony		<0.01				
Total molybdenum		<0.04				
Total nickel		<0.05				
Total beryllium (mg/L)		<0.005				
Total thallium (mg/L)		<0.004				

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.

TABLE 6-5
DRINKING WATER ANALYSIS RESULTS FOR CHEMICALS, METALS, AND ORGANICS, CONT'D.

Constituents (units)[a]	Forestry	Pistol Range	RR Yard	TNX
pH (pH units) (lab)	6.05	5.95	6.54	6.10
Conductivity (µmhos/cm)	20	28	152	99
Color (PCU)	7	20	22	22
Turbidity (NTU)	1.41	3.7	9.6	3.4
TDS (mg/L)	22	23	90	65
Chloride (mg/L)	3.23	2.69	10.4	3.72
Fluoride (mg/L)	<0.1	<0.1	<0.1	<0.1
Nitrate (mgN/L)	0.55	0.33	<0.1	<0.1
Sulfate ($mgSO_4/L$)	0.645	0.645	2.38	10.4
Silica ($mgSiO_2/L$)	6.31	6.30	16.4	12.0
Total alkalinity ($mgCaCO_3/L$)	<1.0	6.2	59.3	30.7
Total arsenic (mg/L)	<0.003	<0.003	<0.003	<0.003
Total barium (mg/L)	<0.005	0.0060	0.0611	0.0760
Total cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01
Total calcium (mg/L)	0.368	0.315	21.6	6.08
Total chromium (mg/L)	<0.02	<0.02	<0.02	<0.02
Total copper (mg/L)	0.029	0.136	0.451	<0.01
Total sodium (mg/L)	2.21	2.37	7.19	10.7
Total iron (mg/L)	0.253	0.575	1.01	2.56
Total lead (mg/L)	<0.003	0.0374	<0.003	<0.003
Total magnesium (mg/L)	0.290	0.277	0.650	1.07
Total manganese (mg/L)	0.0137	0.0389	0.0099	0.0329
Total mercury (µg/L)	<0.0001	<0.0001	<0.0001	<0.0001
Total potassium (mg/L)	<0.4	<0.4	1.4	3.5
Total selenium (mg/L)	<0.006	<0.006	<0.006	<0.006
Total silver (mg/L)	<0.0005	<0.0005	0.084	<0.0005
Total zinc (mg/L)	0.022	4.26	0.108	0.014

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.

TABLE 6-5
DRINKING WATER ANALYSIS RESULTS FOR CHEMICALS, METALS, AND ORGANICS, CONT'D.

Constituents (µg/L)[a]	100 P	100 K	100 C	100 L	200 F	200 H	S Area	3/700
Benzene	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethylene	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroethylene	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl chloride	<2	<2	<2	<2	<2	<2	<2	<2
Carbon tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2
p-Dichlorobenzene	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane	<2	<2	<2	<2	<2	<2	<2	<2

Constituents (µg/L)	400 D	B (TC-1)	Central Shops	Forestry	Pistol Range	RR Yard	TNX	ATTA
Benzene	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethylene	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroethylene	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl chloride	<2	<2	<2	<2	<2	<2	<2	<2
Carbon tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2
p-Dichlorobenzene	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane	<2	<2	<2	<2	<2	<2	<2	<2

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.

TABLE 6-6
A-ADMINISTRATION AREA WELL
CHLOROCARBON MONITORING RESULTS

Location	Lab	1,1,1-Trichloroethane (µg/L) Results[a]	Max	Min	Avg	Trichloroethylene (µg/L) Results[a]	Max	Min	Avg	Tetrachloroethylene (µg/L) Results[a]	Max	Min	Avg
Well 31A[b]	c	0/10	<1		<1	10/10	4.79	2.02	2.91	9/10	2.31	<1	<1.76
(3/700 Area Domestic Water Well)	d	0/10	<5	<2	<3	7/10	6.20	<2	<4.04	6/10	<5	<2	<3.51
Well 68A	c	0/12	<1		<1	1/12	1.19	<1	<1.02	0/12	<1		<1
(EOC Backup Domestic Water Well)	d	0/12	<5	<2	<3	4/12	<5	1.55	<2.74	0/12	<5	<2	<3
Well 82A	c	0/9	<1		<1	0/9	<1		<1	0/9	<1		<1
(3/700 Area Domestic Water Well)	d	0/9	<5	<2	<3	0/9	<5	<2	<3	3/9	<5	<2	<2.70
735 A	c	0/12	<1		<1	0/12	<1		<1	0/12	<1		<1
(3/700 Area Drinking Water)	d	0/12	<5	<2	<3	0/12	<5	<2	<3	0/12	<5	<2	<3
784 A	c	0/5	<1		<1	0/5	<1		<1	0/5	<1		<1
(3/700 Area Drinking Water)	d	0/5	<5	<2	<3	0/5	<5	<2	<3	0/5	<5	<2	<3
Well 112G	c	0/3	<1			0/3	<1			0/3	<1		
(3/700 Area Domestic Water Well)	d	0/3	<2			0/3	<2			0/3	<2		
Well 113G	c	0/4	<1			0/4	<1			0/4	<1		
(3/700 Area Domestic Water Well)	d	0/4	<5	<2		0/4	<5	<2		0/4	<5	<2	
Well 20A	c	0/9	<10	<1	<5	9/9	178	14.5	100.2	2/9	<10	<1	<5.68
(3/700 Area Process Water Well)	d	0/9	<5	<2	<2	9/9	134	12.9	91.2	7/9	<5	<2	<2.56
Well 53A	c	0/11	<5	<1	<5	11/11	127	10.4	48.9	8/11	9.67	<1	<4.92
(3/700 Area Process Water Well)	d	0/11	<5	<2	<3	11/11	80.2	20.6	49.6	8/11	7.02	3.63	<5.38

[a] Detected/total results. Less than detectable results set to value for calculation of average.

[b] Well 31-A was taken out of the domestic water system in November 1988.

[c] SRS laboratory results.

[d] Results reported by subcontracted offsite laboratory, ECS/Normandeau Associates, Inc.

TABLE 6-7
SRS DRINKING WATER
CHLOROCARBON MONITORING RESULTS

Sample Location	Maximum Concentration (µg/L)					
	1,1,1-Trichloroethane		Trichloroethylene		Tetrachloroethylene	
	1/13/88	8/08/88	1/13/88	8/08/88	1/13/88	8/08/88
100 C	<1	4.41	<1	<2	<1	<2
100 K	<1	<2	<1	<2	<1	<2
100 P	<1	<2	<1	<2	<1	<2
100 L	<1	<2	<1	<2	<1	<2
221 F	<1	<2	<1	<2	<1	<2
200 F	-	<2	<1	<2	<1	<2
200 H	<1	<2	<1	<2	<1	<2
400 D	<5	<2	<5	<2	<5	<2
Classification Yard	<5	<2	<5	<2	<5	<2
River Pump Station (1G)	<1	<2	<1	<2	<1	<2
River Pump Station (3G)	4.61	<2	<1	<2	<1	<2
Central Shops	<1	<2	<1	<2	<1	<2
Par Pond Lab	<1	<2	<1	<2	<1	<2
Forestry	<5	<2	<5	<2	<5	<2
Jackson Barricade	<1	<2	<1	<2	<1	<2
Talatha Barricade	<5	<2	<5	<2	<5	<2
Williston Barricade	<5	<2	<5	<2	<5	<2
Barnwell Barricade	-	<2	-	<2	-	<2
Allendale Barricade	<5	<2	<5	<2	<5	<2
Patrol Gate 6	<1	<2	<1	<2	<1	<2
Patrol Gate 7	<5	<2	<5	<2	<5	<2
Patrol Gate 8	<5	<2	<5	<2	<5	<2
Wackenhut Training Facility	<5	<2	<5	<2	<5	<2
A-Area Cafeteria	<5	<2	<5	<2	<5	<2
Emergency Operating Center	<5	<2	<5	<2	<5	<2
Firing Range	<5	2.56	<5	<2	<5	<2
TC-1	<1	<2	<1	<2	<1	<2
TNX	<5	<2	<5	<2	<5	<2
704 S (DWPF)	<1	<2	<1	<2	<1	<2

- No reported result.

TABLE 6-8
ADDITIONAL SRS DRINKING WATER MONITORING RESULTS FOR 3/700 AREA

Constituents [a]	Results (µg/L)
Alachor	<0.5
Atrazine	<5
Chlordane	<0.25
Dibromomethane	<2
1,2-Dichloropropane	<2
Endrin	<0.05
2,4-D	<0.2
Lindane	<0.05
Pentachlorophenol	<20
Naphthalene	<10
2-Chloronaphthalene	<10
Acenaphthylene	<10
Fluorene	<10
Phenanthrene	<10
Anthracene	<10
Fluorathene	<10
Pyrene	<10
Benzo (a) anthracene	<10
Benzo (b) fluorathane	<10
Benzo (k) fluoranthene	<10
Benzo (a) pyrene	<10
Indeno (1,2,3-cd) pyrene	<50
Dibenzo (a,h) anthracene	<20
Benzo (g,h,i) perylene	<20
2,3,7,8-TCDD (Dioxin)	<2 (ng/L)
Total Trihalomethanes (TTHMs)	<2
2,4,5-TP (Silvex)	<0.05
Hexachlorocyclopentadiene	<10
Methoxychlor	<0.2
Dimethyl phthalate	<10
Diethyl phthalate	<10
Di-n-butyl phthalate	<10
Butylbenzyl phthalate	<10
Bis (2-ethylhexyl) phthalate	<20
Di-n-octyl phthalate	<10
Toxaphene	<0.5
1,1,2-Trichloroethane	<2.5
Xylene	<2
Chlorobenzene	<2
Trans-1,2-Dichloroethylene	<2
Tetrachloroethylene	<2
Cis-1,2-Dichloroethylene	<2
Trichlorobenzene	<10

[a] Results reported by subcontracted offsite laboratory ECS/Normandeau Associates.

Chapter 7

Wildlife Monitoring

TABLE 7-1
RADIOACTIVITY IN FISH AND SEAFOOD

Location	Species	No. of Samples	Gross Alpha in Flesh, pCi/g Maximum	Minimum	Arithmetic Mean ± 2 Std Dev
River					
River Above Plant	Bream	6	0.09 ± 0.30	-0.09 ± 0.18	-0.01 ± 0.17
(R-2, RM-160)	Catfish	7	0.30 ± 0.11	0.0 ± 0.21	0.04 ± 0.23
River Adjacent to	Bream	2	0.0 ± 0.25	-0.08 ± 0.15	-
Plant (R-8, RM-140)	Catfish	3	0.09 ± 0.30	-0.08 ± 0.17	-
	Sucker	1	-0.09 ± 0.18	-	-
River Below Plant	Bream	2	0.09 ± 0.30	0.0 ± 0.18	-
(R-10, RM-120)	Catfish	4	0.09 ± 0.30	0.0 ± 0.18	-
	Perch	2	0.0 ± 0.24	-0.08 ± 0.17	-
River Mouth	Bass	1	0.0 ± 0.23	-	-
(RM-0-8)	Crab	17	0.91 ± 0.61	-0.15 ± 0.21	0.13 ± 0.51
	Oyster	2	0.38 ± 0.46	0.23 ± 0.40	-
	Trout	2	0.0 ± 0.25	-0.09 ± 0.18	
Ponds					
Par Pond	Bass	7	0.17 ± 0.35	-0.09 ± 0.18	-0.01 ± 0.20
	Bream	3	0.0 ± 0.30	-0.09 ± 0.17	-
	Crappie	3	0.0 ± 0.18	-0.09 ± 0.18	-
	Sucker	3	0.0 ± 0.23	-0.18 ± 0.07	-
Pond B	Bass	9	0.30 ± 0.46	-0.09 ± 0.18	0.13 ± 0.26
	Bream	6	0.17 ± 0.34	-0.05 ± 0.53	0.07 ± 0.20
Streams					
Steel Creek	Bass	3	0.09 ± 0.29	0.0 ± 0.18	-
	Bowfin	1	0.0 ± 0.21	-	-
	Bream	3	0.23 ± 0.40	-0.08 ± 0.26	-
	Catfish	6	0.23 ± 0.34	-0.08 ± 0.15	0.03 ± 0.23
	Jackfish	1	0.0 ± 0.25	-	-
	Sucker	5	0.09 ± 0.30	-0.08 ± 0.17	-0.03 ± 0.15
Upper Three Runs	Bream	5	0.53 ± 0.50	0.0 ± 0.24	0.14 ± 0.44
	Catfish	7	0.85 ± 0.88	-0.08 ± 0.20	0.25 ± 0.62
	Sucker	3	1.0 ± 0.90	0.09 ± 0.30	-
Four Mile Creek	Bream	6	0.19 ± 0.47	-0.05 ± 0.09	0.32 ± 0.70
	Sucker	2	0.30 ± 0.37	0.09 ± 0.30	-
Beaver Dam Creek	Bream	2	0.0 ± 0.30	-0.09 ± 0.18	-
	Catfish	3	0.09 ± 0.30	0.0 ± 0.25	
Pen Branch	Bream	7	0.0 ± 0.23	-0.09 ± 0.18	-0.06 ± 0.08
	Garfish	1	0.0 ± 0.23	-	-
Lower Three Runs	Bass	10	0.46 ± 0.43	-0.08 ± 0.17	0.05 ± 0.31
	Bream	12	0.13 ± 0.10	-0.08 ± 0.26	0.03 ± 0.15
	Catfish	4	0.0 ± 0.30	0.0 ± 0.24	-
	Crappie	1	-0.08 ± 0.17	-	-
	Pike	1	0.19 ± 0.50	-	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 7-1
RADIOACTIVITY IN FISH AND SEAFOOD, CONT'D.

Location	Species	No. of Samples	Nonvolatile Beta in Flesh, pCi/g Maximum	Minimum	Arithmetic Mean ± 2 Std Dev
River					
River Above Plant (R-2, RM-160)	Bream	6	3.6 ± 1.2	1.7 ± 1.0	2.6 ± 1.4
	Catfish	7	3.0 ± 1.2	1.7 ± 1.1	2.3 ± 1.1
River Adjacent to Plant (R-8,RM-140)	Bream	2	2.0 ± 1.4	1.9 ± 1.0	-
	Catfish	3	4.0 ± 1.3	2.2 ± 1.1	-
	Sucker	1	3.1 ± 1.6	-	-
River Below Plant (R-10, RM-120)	Bream	2	4.7 ± 1.6	1.5 ± 1.4	-
	Catfish	4	2.9 ± 1.5	1.9 ± 1.4	-
	Perch	2	3.5 ± 1.3	3.1 ± 1.2	-
River Mouth (RM-0-8)	Bass	1	1.8 ± 1.1	-	-
	Crab	17	5.6 ± 1.3	0.92± 0.88	3.4 ± 2.6
	Oyster	2	1.4 ± 0.94	1.2 ± 0.92	-
	Trout	2	1.6 ± 1.4	1.6 ± 1.3	-
Ponds					
Par Pond	Bass	7	9.0 ± 2.0	4.7 ± 1.5	6.4 ± 3.3
	Bream	3	7.6 ± 1.3	4.8 ± 1.5	-
	Crappie	3	8.4 ± 1.9	5.5 ± 2.0	-
	Sucker	3	6.7 ± 1.5	0.0 ± 1.1	-
Pond B	Bass	9	162 ± 6.7	73 ± 4.7	113 ±61
	Bream	6	69 ± 8.8	42 ± 3.1	55 ±21
Streams					
Steel Creek	Bass	3	5.8 ± 1.8	4.6 ± 1.6	-
	Bream	3	7.3 ± 1.5	3.9 ± 1.2	-
	Bowfin	1	4.8 ± 1.3	-	-
	Catfish	6	5.6 ± 1.4	1.0 ± 0.94	3.3 ± 3.3
	Jackfish	1	5.0 ± 1.4	-	-
	Sucker	5	4.7 ± 1.6	3.2 ± 1.2	3.9 ± 1.4
Upper Three Runs	Bream	5	3.6 ± 1.5	2.0 ± 1.4	2.8 ± 1.4
	Catfish	7	6.2 ± 2.1	1.4 ± 1.4	3.1 ± 3.4
	Sucker	3	4.1 ± 1.8	2.2 ± 1.5	-
Four Mile Creek	Bream	6	73 ± 9.3	1.5 ± 1.4	30 ±63
	Sucker	2	53 ± 3.6	41 ± 3.5	-
Beaver Dam Creek	Bream	2	2.6 ± 1.5	1.6 ± 1.5	-
	Catfish	3	3.8 ± 1.6	1.4 ± 1.4	-
Pen Branch	Bream	7	3.0 ± 1.2	1.0 ± 0.94	1.9 ± 1.5
	Garfish	1	2.2 ± 1.1	-	-
Lower Three Runs	Bass	10	9.5 ± 1.7	3.2 ± 1.2	5.8 ± 4.4
	Bream	12	7.2 ± 2.3	2.4 ± 1.5	4.3 ± 2.9
	Catfish	4	6.5 ± 1.5	2.9 ± 1.1	-
	Crappie	1	5.5 ± 1.4	-	-
	Pike	1	3.2 ± 1.7	-	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 7-1
RADIOACTIVITY IN FISH AND SEAFOOD, CONT'D.

Location	Species	No. of Samples	Cesium-137 in Whole Fish, pCi/g		
			Maximum	Minimum	Arithmetic Mean ± 2 Std Dev
River					
Thurmond Lake[a]	Bass	5	0.20 ± 0.06	0.0 ± 0.09	0.09 ± 0.15
	Bream	6	0.08 ± 0.04	0.0 ± 0.16	0.05 ± 0.08
	Catfish	1	0.24 ± 0.06	-	-
	Perch	4	0.46 ± 0.24	0.0 ± 0.15	-
River Above Plant (R-2, RM-160)	Bream	14	1.2 ± 0.48	0.0 ± 0.10	0.32 ± 0.87
	Catfish	13	0.13 ± 0.03	0.0 ± 0.01	0.03 ± 0.13
	Crappie	1	0.19 ± 0.07	-	-
River Adjacent to Plant (R-8, RM-140)	Bass	5	1.2 ± 0.05	0.12 ± 0.07	0.49 ± 0.89
	Bream	25	1.3 ± 0.15	0.0 ± 0.03	0.43 ± 0.89
	Bowfin	2	0.40 ± 0.01	0.40 ± 0.01	-
	Catfish	16	0.37 ± 0.14	0.0 ± 0.03	0.12 ± 0.25
	Eel	1	3.4 ± 1.5	-	-
	Jackfish	1	0.93 ± 0.04	-	-
	Perch	1	0.29 ± 0.19	-	-
	Sucker	1	0.0 ± 0.02	-	-
River Below Plant (R-10, RM-120)	Bream	21	1.1 ± 0.19	0.0 ± 0.01	0.40 ± 0.61
	Catfish	18	1.5 ± 0.07	0.0 ± 0.08	0.44 ± 0.90
	Crappie	1	0.30 ± 0.09	-	-
	Eel	2	1.1 ± 0.23	0.98± 0.29	-
	Perch	3	1.4 ± 0.05	0.29± 0.14	-
River Mouth (RM-0-8)	Bass	3	0.10 ± 0.03	0.0 ± 0.02	-
	Catfish	9	0.47 ± 0.09	0.12± 0.04	0.28 ± 0.27
	Crab	20	0.10 ± 0.05	0.0 ± 0.02	0.02 ± 0.04
	Croaker	12	0.77 ± 0.15	0.0 ± 0.04	0.34 ± 0.45
	Dogfish	7	0.51 ± 0.25	0.07± 0.01	0.33 ± 0.34
	Flounder	2	0.11 ± 0.02	0.0 ± 0.02	-
	Oyster	2	0.0 ± 0.02	0.0 ± 0.02	-
	Redtail	1	0.68 ± 0.11	-	-
	Sheephead	1	0.05 ± 0.02	-	-
	Spot	6	0.26 ± 0.05	0.13± 0.04	0.17 ± 0.10
	Stingray	1	0.90 ± 0.04	-	-
	Whiting	1	0.20 ± 0.03	-	-
Ponds					
Par Pond	Bass	22	6.2 ± 0.74	0.0 ± 0.01	2.7 ± 2.8
	Bream	16	3.7 ± 0.54	0.51± 0.03	1.8 ± 1.9
	Catfish	5	5.0 ± 0.07	0.98± 0.02	2.1 ± 3.3
	Crappie	18	11 ± 0.28	0.0 ± 0.01	2.2 ± 5.7
	Sucker	6	3.5 ± 0.12	0.0 ± 0.01	1.8 ± 2.6
	Jackfish	1	3.5 ± 0.05	-	-
Pond B	Bass	16	145 ± 1.0	73 ± 1.4	100 ±43
	Bream	17	90 ± 0.63	0.36±0.01	47 ±52
	Catfish	2	86 ± 0.77	79 ±0.55	-
Jacks Lake	Bream	1	1.2 ± 0.08	-	-
Cannuck Lake	Sucker	3	1.3 ± 0.09	0.42±0.03	-

[a] Formerly Clarks Hill.
- Insufficient data; mean not calculated for <5 samples.

TABLE 7-1
RADIOACTIVITY IN FISH AND SEAFOOD, CONT'D.

Location	Species	No. of Samples	Cesium-137 in Whole Fish, pCi/g Maximum	Minimum	Arithmetic Mean ± 2 Std Dev
Streams					
Steel Creek	Bass	19	2.8 ± 0.09	0.21 ± 0.13	1.2 ± 1.3
	Bream	26	1.7 ± 0.10	0.28 ± 0.06	0.95± 0.79
	Catfish	17	2.6 ± 0.42	0.35 ± 0.02	1.0 ± 1.1
	Eel	1	1.0 ± 0.03	-	-
	Jackfish	11	1.7 ± 0.05	0.0 ± 0.02	0.76± 1.0
	Sucker	6	1.3 ± 0.07	0.15 ± 0.08	0.81± 0.83
Upper Three Runs	Bass	2	0.36± 0.12	0.26 ± 0.02	-
	Bream	26	2.6 ± 1.2	0.0 ± 0.06	0.43±1.2
	Catfish	16	1.1 ± 0.15	0.0 ± 0.07	0.35±0.47
	Crappie	2	0.20± 0.07	0.0 ± 0.05	-
	Eel	1	0.15± 0.02	-	-
	Sucker	9	0.30± 0.10	0.0 ± 0.01	0.09±0.22
Four Mile Creek	Bream	14	8.7 ± 0.34	0.0 ± 0.22	4.4 ± 5.5
	Catfish	3	0.13± 0.07	0.0 ± 0.08	-
	Sucker	3	14 ± 0.89	0.0 ± 0.05	-
Lower Three Runs at Patterson Mill	Bass	14	7.8 ± 0.20	2.2 ± 0.07	4.2 ± 2.9
	Bream	28	8.5 ± 0.16	0.37 ± 0.38	3.3 ± 4.0
	Catfish	16	5.0 ± 0.13	0.0 ± 0.01	2.8 ± 3.3
	Crappie	1	4.3 ± 0.13	-	-
	Eel	2	5.1 ± 0.08	1.4 ± 0.16	-
	Perch	1	3.5 ± 0.18	-	-
	Redfin Pike	1	5.3 ± 0.12	-	-
	Sucker	5	1.9 ± 0.04	0.0 ± 0.02	1.2 ± 1.5
Beaver Dam Creek	Bass	2	0.36± 0.13	0.26 ± 0.05	-
	Bream	15	1.8 ± 0.05	0.0 ± 0.02	0.31± 0.91
	Catfish	19	2.0 ± 0.05	0.0 ± 0.01	0.26± 0.91
	Crappie	3	1.5 ± 0.14	0.41 ± 0.17	-
Pen Branch	Bass	9	0.36± 0.07	0.14 ± 0.02	0.22± 0.14
	Bream	34	1.1 ± 0.05	0.0 ± 0.07	0.24± 0.59
	Catfish	4	0.38± 0.14	0.14 ± 0.05	-
	Eel	1	0.12± 0.04	-	-
	Gar	3	0.13± 0.02	0.08 ± 0.01	-
	Sucker	5	0.32± 0.05	0.0 ± 0.04	0.16± 0.32
	Perch	1	0.36± 0.07	-	-

-Insufficient data; mean not calculated for <5 samples.

TABLE 7-2
SUMMARY OF CESIUM-137 IN FISH

Location	Cesium-137 in Whole Fish, Average pCi/g[a]				
	1975	1979	1980	1981	1982
Steel Creek at Road A	28 (49)	5 (21)	12 (8)	17 (3)	6 (10)
Steel Creek near mouth	1.1 (63)	1.8 (10)	0.6 (22)	0.8 (26)	-
Four Mile Creek at Road 3	32 (31)	9 (7)	10 (5)	15 (8)	-
Four Mile Creek at SC 125	-	-	-	-	
Four Mile Creek at Cassel's Pond	1.4 (74)	1.1 (12)	0.5 (18)	0.6 (2)	0.4 (49)
Par Pond	15 (74)	1.0 (28)	3 (39)	2.6 (14)	3 (22)
Pond B	180 (70)	88 (16)	69 (47)	80 (22)	73 (14)
Lower Three Runs Creek at Patterson Mill	14 (10)	4.7 (22)	2 (6)	-	-
Savannah River above SRS	0.1 (87)	0.6 (16)	<0.4 (42)	0.2 (65)	0.04 (8)
Savannah River adjacent to SRS	0.2 (55)	0.4 (9)	<0.2 (62)	0.2 (62)	0.6 (32)
Savannah River below SRS	0.2 (90)	0.2 (4)	<0.2 (32)	0.3 (68)	0.6 (57)

Location	Cesium-137 in Whole Fish, Average pCi/g[a]					
	1983	1984	1985	1986	1987	1988
Steel Creek at Road A	9 (6)	7.6 (24)	5.5 (1)	5 (72)	1.5 (54)	0.94 (80)
Steel Creek near mouth	-	-	-	-	-	
Four Mile Creek at Road 3	-	-	-	-	-	
Four Mile Creek at SC 125	-	-	-	8.5 (13)	6.1 (17)	4.4 (20)
Four Mile Creek at Cassel's Pond	0.4 (25)	2.3 (16)	0.2 (9)	1.1 (16)	-	
Par Pond	9 (46)	3.3 (48)	8.9 (6)	9.9 (36)	2.8 (52)	2.1 (68)
Pond B	-	71 (39)	52.5 (7)	37 (21)	86 (24)	74 (35)
Lower Three Runs Creek at Patterson Mill	-	1.2 (9)	0.7 (3)	6.3 (52)	3.3 (9)	2.9 (68)
Beaver Dam Creek	-	-	-	-	0.53 (15)	0.29 (39)
Pen Branch	-	-	-	-	0.36 (14)	0.21 (57)
Upper Three Runs at Road A	-	-	-	-	0.33 (35)	0.29 (56)
Savannah River above SRS	0.14 (45)	0.11 (119)	0.01 (29)	0.12 (68)	0.17 (44)	0.18 (28)
Savannah River adjacent to SRS	0.18 (65)	0.12 (187)	0.12 (57)	0.37 (32)	0.40 (59)	0.35 (52)
Savannah River below SRS	0.08 (63)	0.06 (63)	0.01 (40)	0.38 (50)	0.19 (32)	0.42 (47)
Savannah River below SRS at Savannah (river mile 0-8)	-	-	-	-	0.26 (8)	0.23 (67)

[a] Value in parentheses is number of fish analyzed.
- No analyses.

TABLE 7-3
RADIOACTIVITY IN DEER AND HOGS

Species	No. of Animals	Cesium-137, pCi/g		
		Maximum	Minimum	Mean
Deer	855	60	1	10.2 ± 11.0
Hog	146	16	0	6.1 ± 7.4

Summary of Deer and Hog Results

Concentration	Number
0-10 pCi/g	589
11-25 pCi/g	400
26-60 pCi/g	12

TABLE 7-4
SUMMARY OF CESIUM-137 IN DEER

Year	No. of Deer		Average, pCi/g		Maximum, pCi/g	
	SRS[a]	SCCP[b]	SRS[a]	SCCP[b]	SRS[a]	SCCP[b]
1965	198		10		10	
1966	541		6		24	
1967	1,032		9		104[c]	
1968	669	34	11	23	74[d]	80
1969	889[e]	31	15	15	204[d]	72
1970	864	33	18	20	77[d]	57
1971	865	42	11	21	48	42
1972	808	72	8	11	38	32
1973	1,158	78	6	16	31	49
1974	1,551	89	5	9	52	23
1975	1,391	42	9	17	36	38
1976	1,357	35	11	16	41	36
1977	1,271	41	10	16	42	25
1978	1,287	36	5	11	65	21
1979	1,079	57	10	12	98	29
1980	961	51	10	9	98	32
1981	1,791	32	8	8	47	18
1982	2,063	28	14	15	73	33
1983	1,597	[f]	4	[f]	16	[f]
1984	1,038	5[g]	6	14	23	16
1985	1,022	30	7 ± 11[h]	6 ± 4	30	11
1986	944	23	7 ± 8	6 ± 1	29	15
1987	606	5	5 ± 5	9 ± 5	45	15
1988	855	5	10.2 ± 11.0	6.9 ± 6.2	60	11.8

[a] SRS values are field measurements.
[b] SCCP (South Carolina Coastal Plain) values are laboratory measurements.
[c] Killed along Four Mile Creek
[d] Killed near Steel Creek.
[e] Approximately 20% of deer monitored before 1969; each deer monitored since 1969.
[f] Program discontinued by the University of Georgia.
[g] Samples collected from SCCP deer and counted by SRS.
[h] The ± value represents the 2 standard deviation.

TABLE 7-5
COMPARISON OF FIELD AND LABORATORY CESIUM-137 MEASUREMENTS IN DEER AND HOGS
(pCi/g)

Collection Date	Tag Number	Compartment Number	Field Cs-137	Lab Cs-137
11/09/88	9854	9	2	8.8 ± 0.24
11/09/88	9628	9	5	7.9 ± 0.16
11/09/88	9239	9	5	3.3 ± 0.08
11/09/88	9238	9	10	10 ± 0.17
11/09/88	9235 H	9	13	9.8 ± 0.16
11/09/88	9119	9	24	19 ± 0.25
11/09/88	9245	10	6	9.3 ± 0.25
11/09/88	9244	10	6	2.8 ± 0.06
11/09/88	9247	10	6	6.5 ± 0.29
11/09/88	9413	10	4	2.3 ± 0.12
11/09/88	9626	9	4	3.1 ± 0.10
11/12/88	9249	40	6	22 ± 0.37
11/12/88	9415	41	9	30 ± 0.47
11/12/88	9417	41	8	6.9 ± 0.13
11/12/88	9130	41	7	5.8 ± 0.13
11/12/88	9869	46	6	3.2 ± 0.07
11/12/88	9250	46	7	4.6 ± 0.10
11/12/88	9423	46	5	2.8 ± 0.06
11/12/88	9421	46	9	5.4 ± 0.09
11/12/88	9649 H	49	4	1.7 ± 0.19
11/16/88	9433	44	6	5.3 ± 0.10
11/16/88	9431	44	10	8.6 ± 0.18
11/16/88	9432	44	6	2.2 ± 0.07
11/16/88	9880	44	4	2.3 ± 0.07
11/16/88	9254	44	8	6.2 ± 0.19
11/16/88	9255	44	8	10 ± 0.17
11/16/88	9264	44	4	0.89± 0.06
11/16/88	9437	45	6	4.8 ± 0.10
11/16/88	9436	45	7	7.2 ± 0.10
11/16/88	9603	48	5	4.2 ± 0.09
11/16/88	9299	45	5	4.0 ± 0.11
11/19/88	9377	36	6	2.9 ± 0.05
11/19/88	9376	36	8	7.2 ± 0.14
11/19/88	9201	37	4	3.1 ± 0.09
11/19/88	9275	37	7	6.4 ± 0.13
11/19/88	9610 H	36	14	20 ± 0.24
11/19/88	9899	30	9	11.4 ± 0.17
11/19/88	9142	30	5	4.3 ± 0.09
11/19/88	9381	30	12	11 ± 0.16
11/23/88	9450	42	10	8.8 ± 0.15
11/23/88	9384	42	6	6.8 ± 0.14
11/23/88	9673	42	5	4.8 ± 0.12
11/23/88	9154	42	8	5.9 ± 0.10
11/23/88	9453	42	17	23 ± 0.34
11/23/88	9457	8	60	64 ± 1.3
11/23/88	9208	8	9	9.2 ± 0.15
11/23/88	9157	27	16	8.3 ± 0.15
11/23/88	9460	8	36	35 ± 0.53

H - Hog

TABLE 7-5
COMPARISON OF FIELD AND LABORATORY CESIUM-137 MEASUREMENTS IN DEER AND HOGS, CONT'D.

(pCi/g)

Collection Date	Tag Number	Compartment Number	Field Cs-137	Lab Cs-137
12/10/88	9728	32	15	13 ± 0.16
12/10/88	9727	32	11	10 ± 0.16
12/10/88	9729	32	14	14 ± 0.15
12/10/88	9366	32	10	7.8 ± 0.13
12/10/88	9368	33	18	16 ± 0.24
12/10/88	9715	33	8	6.6 ± 0.12
12/10/88	8009	33	2	23 ± 0.60
12/10/88	8028	33	14	8.6 ± 0.11
12/10/88	8033	33	31	28 ± 0.36
12/14/88	9720	20	10	10 ± 0.63
12/14/88	8051	20	6	11 ± 0.48
12/14/88	8052	20	7	8.0 ± 0.48
12/14/88	8017	20	6	11 ± 0.57
12/14/88	9740	29	4	3.6 ± 0.20
12/14/88	9739	29	3	1.4 ± 0.11
12/14/88	9738	29	4	1.9 ± 0.10
12/14/88	8134	19	8	5.9 ± 0.31
12/17/88	9749	12	8	19 ± 1.1
12/17/88	9744	12	12	10 ± 0.95
12/17/88	8067	16	4	5.3 ± 0.43
12/17/88	8094	16	6	7.9 ± 0.57
12/17/88	8095	16	4	6.3 ± 0.48

TABLE 7-6
CESIUM-137 AND IODINE-131
MEASUREMENTS IN DEER AND HOGS
(pCi/g)

Collection Date	Tag Number	Compartment Number	Cs-137 in Flesh [a]	I-131 in Flesh	Cs-137 in Bone[b]
11/09/88	9854	9	8.767		
11/09/88	9628	9	7.908		
11/09/88	9239	9	3.316		
11/09/88	9238	9	10.50		
11/09/88	9235	9	9.842		
11/09/88	9119	9	19.23		
11/09/88	9245	10	9.278		
11/09/88	9244	10	2.754		
11/09/88	9247	10	6.466		
11/09/88	9413	10	2.342		
11/09/88	9626	9	3.069		
11/12/88	9249	40	21.82		
11/12/88	9415	41	29.69	<.4477	
11/12/88	9417	41	6.944		
11/12/88	9130	41	5.750		
11/12/88	9869	46	3.227		
11/12/88	9250	46	4.595		
11/12/88	9423	46	2.803		
11/12/88	9421	46	5.420		
11/12/88	9649	49	1.733		
11/16/88	9433	44	5.296		
11/16/88	9431	44	8.566		
11/16/88	9432	44	2.233		
11/16/88	9880	44	2.319		
11/16/88	9281	44	1.794		
11/16/88	9254	44	6.189		
11/16/88	9255	44	9.975		
11/16/88	9264	44	.885		
11/16/88	9941	44	2.655		
11/16/88	9437	45	4.756		
11/16/88	9436	45	7.203		
11/16/88	9293	45	9.116		
11/16/88	9298	45	7.121		
11/16/88	9603	48	4.221		
11/16/88	9299	45	4.004		
11/19/88	9377	36	2.869		
11/19/88	9376	36	7.176		
11/19/88	9201	37	3.063		
11/19/88	9275	37	6.405		
11/19/88	9610	36	20.12		
11/19/88	9984	30	21.51		
11/19/88	9899	30	11.38		
11/19/88	9142	30	4.317		
11/19/88	9381	30	11.00		
11/23/88	9450	42	8.797		
11/23/88	9384	42	6.805		
11/23/88	9673	42	4.799		
11/23/88	9154	42	5.856		
11/23/88	9453	42	22.73		

[a] These data are also presented in Table 7-5, which compares field Cs-137 measurements to laboratory results.
[b] Cesium-137 measurements in bone were not conducted in 1988.
Blank space indicates no analyis was performed.
H- Hog

TABLE 7-6
CESIUM-137 AND IODINE-131
MEASUREMENTS IN DEER AND HOGS, CONT'D.
(pCi/g)

Collection Date	Tag Number		Compartment Number	Cs-137 in Flesh [a]	I-131 in Flesh	Cs-137 in Bone[b]
11/23/88	9457		8	6.46		
11/23/88	9208		8	9.218		
11/23/88	9157		27	8.293		
11/23/88	9460		8	35.44		
11/30/88	9079		18	15.46		
12/03/88	9494		14	5.2		
12/10/88	9728		32	13.03		
12/10/88	9727		32	10.18		
12/10/88	9729		32	13.53		
12/10/88	9366		32	7.82		
12/10/88	9368		33	15.88		
12/10/88	9715		33	6.55		
12/10/88	8009		33	23.02		
12/10/88	8028		33	8.55		
12/10/88	8033		33	27.61		
12/14/88	9720		20	10.32	<.4353	
12/14/88	8051		20	11.49		
12/14/88	8052		20	7.97		
12/14/88	9736	H	20	1.73	<.2778	
12/14/88	8017		20	10.99		
12/14/88	9740		29	3.59		
12/14/88	9739		29	1.43		
12/14/88	9738		29	1.88		
12/14/88	8134		19	5.9		
12/14/88	8184		19	10.61		
12/14/88	8185		19	9.3		
12/17/88	9749		12	19.234	<.4419	
12/17/88	9744		12	18.106	<.3988	
12/17/88	8067		16	5.2853	<.3087	
12/17/88	8096		16	16.42	<.3207	
12/17/88	8094		16	7.8878	<.3516	
12/17/88	8095		16	6.3486	<.3210	

[a] These data are also presented in Table 7-5, which compares field Cs-137 measurements to laboratory results.
[b] Cesium-137 measurements in bone were not conducted in 1988.
Blank space indicates no analysis was performed.
H-Hog

TABLE 7-7
IODINE-129 AND CESIUM-137 IN DEER THYROIDS AND MUSCLE[a]
(wet weight, pCi/g)

Collection Date	Tag Number	Compartment Number	I-129 Thyroid	Cs-137 Thyroid	Cs-137 Muscle
11/09/88	9238	9	.668	9.344	b
11/09/88	9125	10	.117	3.293	b
11/12/88	9639	41	.962	6.797	b
11/12/88	9869	46	.649	1.230	b
11/16/88	9431	44	.131	6.270	b
11/16/88	9603	48	.254	4.340	b
11/19/88	9201	37	1.128	2.450	b
11/19/88	9899	30	20.800	8.549	b
11/23/88	9204	42	.640	8.640	b
11/23/88	9388	8	.330	1.345	b
11/26/88	9179	17	5.601	6.283	b
11/26/88	9468	25	3.257	6.857	b
11/30/88	9477	18	10.040	17.657	11.850
11/30/88	9483	7	1.733	7.494	7.210
12/03/88	9492	13	.823	5.883	b
12/03/88	9050	14	2.502	17.351	15.800
12/07/88	9497	5	1.217	11.768	b
12/07/88	9355	15	.759	12.171	b
12/10/88	9727	32	2.012	7.957	6.510
12/10/88	9715	33	1.532	4.725	4.652
12/14/88	8051	20	6.653	6.126	b
12/14/88	9738	29	1.677	.724	b
12/17/88	9749	12	2.823	12.561	16.251
12/17/88	8067	16	3.962	4.377	b
Average ± 2 Std Dev			2.930±4.390	7.258±4.436	10.379±4.543

[a] Analyses performed by the Dept. of Physiology and Biophysics at the University of Tennessee, Memphis.
[b] Muscle samples not analyzed.

TABLE 7-8
RADIOACTIVITY IN FURBEARERS

Species	No. of Samples	Location	Cesium-137 in Whole Animals Maximum, pCi/g
Grey Fox	1	Trapline 3	1.5 ± 0.03
	1	Trapline 7	2.7 ± 0.06
	1	Trapline 8	3.2 ± 0.07
	1	Trapline 9	2.2 ± 0.04
Opossum	1	Trapline 3	2.3 ± 0.05
	1	Trapline 4	3.7 ± 0.08
	1	Trapline 5	3.9 ± 0.09
	2	Trapline 6	5.3 ± 0.14
	1	Trapline 8	2.6 ± 0.06
	1	Trapline 9	4.0 ± 0.10
	2	Trapline 10	1.7 ± 0.06
	1	Creek Plantation	0.74 ± 0.04
Raccoon	1	Trapline 3	0.66 ± 0.02
	2	Trapline 4	2.5 ± 0.03
	2	Trapline 5	0.98 ± 0.05
	1	Trapline 6	1.1 ± 0.03
	2	Trapline 7	0.82 ± 0.02
	2	Trapline 8	0.86 ± 0.02
	1	Trapline 9	0.85 ± 0.02
	1	Trapline 10	0.63 ± 0.02
	3	Creek Plantation	1.3 ± 0.03
Rabbit	2	Trapline 4	1.1 ± 0.05
	1	Creek Plantation	0.25 ± 0.03

TABLE 7-9
RADIOACTIVITY IN DUCKS

Cesium-137, pCi/g (whole)

Species	Location	No. of Samples	Maximum	Minimum	Arithmetic Average	2 Std Dev
Coot	Par Pond	12	2.7 ± 0.05	0.38 ± 0.02	0.84	1.5
Bufflehead	Par Pond	1	43 ± 0.52	-	-	-
Ruddy	Par Pond	4	1.1 ± 0.03	0.50 ± 0.02	-	-
Scaup	Par Pond	1	3.4 ± 0.06	-	-	-
Coot	Pond B	7	216 ± 1.9	0.94 ± 0.03	54	164
Ringneck	Pond B	1	6.6 ± 0.11	-	-	-
Bufflehead	Pond B	2	21 ± 0.27	21 ± 0.21	-	-
Mallard	*Steel Creek*	1	2.7 ± 0.08	-	-	-

TABLE 7-10
RADIOACTIVITY IN DUCKS FOR THE FOURTH QUARTER 1987[a]

Cesium-137, pCi/g (whole)

Species	Location	No. of Samples	Maximum	Minimum	Arithmetic Average	2 Std Dev
Coot	Par Pond	5	2.10 ± 0.04	1.53 ± 0.05	1.82	0.47
Coot	Pond B	10	114.5 ± 2.30	3.90 ± 0.06	73.82	82

[a] Analytical results of radioactivity in ducks for fourth quarter 1987 were too late to be included in the 1987 *Environmental Report.*

- Insufficient data; mean not calculated for <5 samples.

TABLE 7-11
MERCURY IN FISH

Location	No. of Samples	in Flesh (ug/g) Maximum	Minimum	Arithmetic Mean	2 Std Dev
Onsite Locations					
Par Pond					
Bass	9	1.4	0.11	0.44	±0.88
Bream	8	0.22	<0.10	0.11	±0.09
Catfish	2	0.46	0.29	-	-
Weighted Average				0.28	
Pond B					
Bass	10	0.73	0.10	0.42	±0.42
Bream	4	0.10	<0.10	-	-
Weighted Average				0.42	
Lower Three Runs					
Bass	9	1.3	0.33	0.96	±0.74
Bream	14	0.58	<0.10	0.35	±0.33
Catfish	6	0.59	0.34	0.48	±0.21
Weighted Average				0.60	
Steel Creek					
Bass	7	1.2	0.30	0.64	±0.66
Bream	9	0.49	<0.10	0.28	±0.32
Catfish	7	0.67	0.30	0.16	±0.31
Weighted Average				0.36	
Pen Branch					
Bass	4	0.40	0.15	-	-
Bream	16	0.21	<0.10	0.13	±0.01
Weighted Average				0.13	
Beaver Dam Creek					
Bass	1	0.22	-	-	-
Bream	6	<0.10	<0.10	<0.10	-
Catfish	6	0.24	<0.10	0.12	±0.12
Weighted Average				<0.10	
Skin Face Pond					
Bream	1	0.21	-	-	-
Upper Three Runs					
Bream	13	0.20	<0.10	0.11	±0.08
Catfish	7	0.42	<0.10	0.27	±0.26
Weighted Average				0.19	

- Insufficient data; mean not calculated for <5 samples.

TABLE 7-11
MERCURY IN FISH, CONT'D.

Location	No. of Samples	in Flesh (µg/g) Maximum	Minimum	Arithmetic Mean	2 Std Dev
Offsite Locations					
Thurmond Lake					
Bass	2	0.38	<0.10	0.24	-
Bream	14	0.10	<0.10	<0.10	±0.01
Weighted Average				0.16	
Todd Pond					
Catfish	5	<0.10	<0.10	<0.10	-
Weighted Average				<0.10	
Savannah River					
River Mile 160 (Upriver of SRS)					
Bass	1	0.22	-	-	-
Bream	9	<0.10	<0.10	<0.10	±0.01
Catfish	14	0.10	<0.10	<0.10	±0.01
Weighted Average				*<0.10*	
River Mile 140 (Adjacent to SRS)					
Bass	1	<0.10	-	-	-
Bream	10	0.12	0.10	<0.10	±0.02
Catfish	8	0.15	<0.10	0.10	±0.05
Weighted Average				<0.10	
River Mile 120 (Downriver of SRS)					
Bream	6	0.32	<0.10	0.16	±0.19
Catfish	10	0.20	<0.10	0.11	±0.07
Weighted Average				0.14	
River Mile 0-8 (Mouth)					
Bass	1	0.22	-	-	-
Catfish	6	0.48	0.10	0.19	±0.29
Weighted Average				0.19	

- Insufficient data; mean not calculated for <5 samples.

Chapter 8

Monitoring of Rainwater, Soil, Vegetation, and Sediment

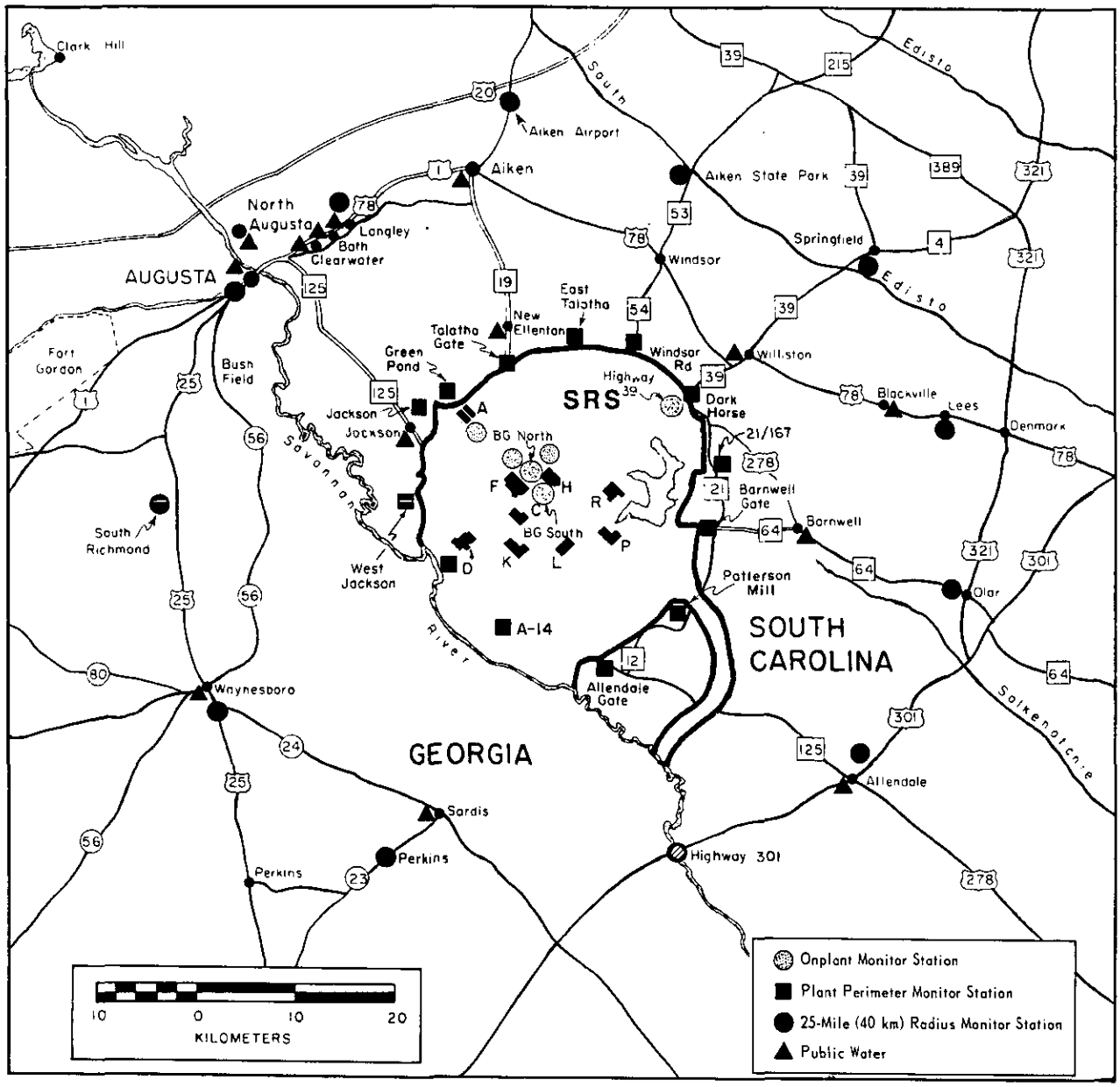


Figure 8-1. Air monitoring stations and public water sampling locations

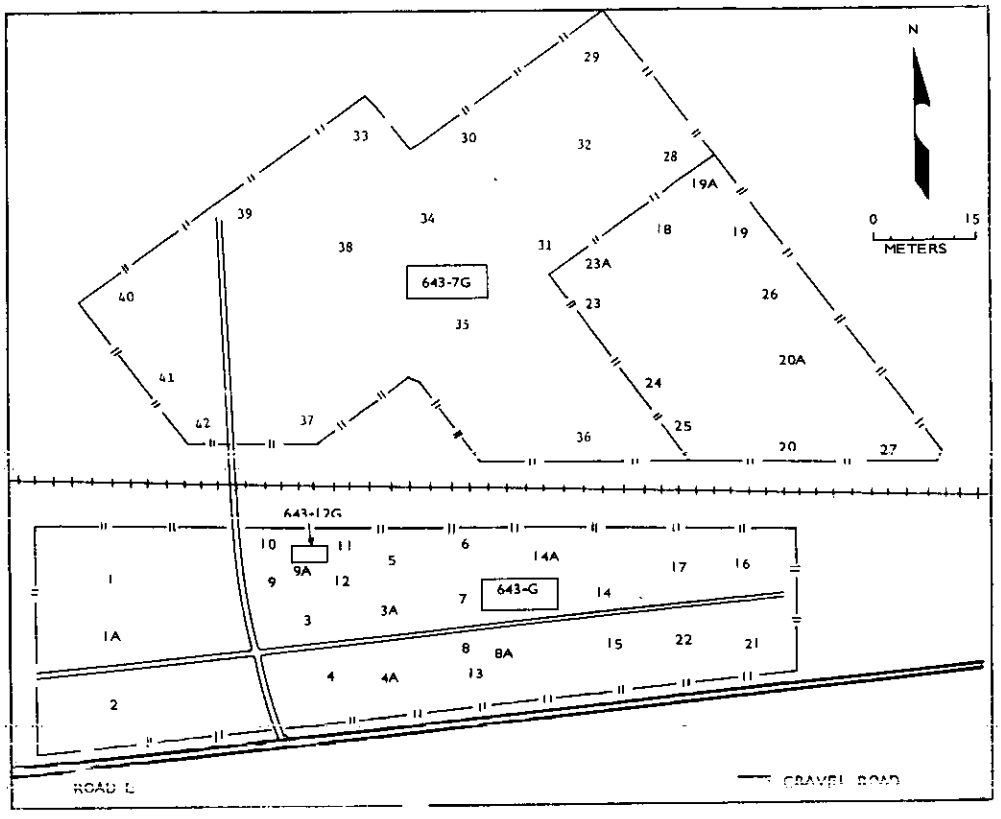


Figure 8-2. Vegetation sampling locations inside the Radioactive Waste Burial Grounds

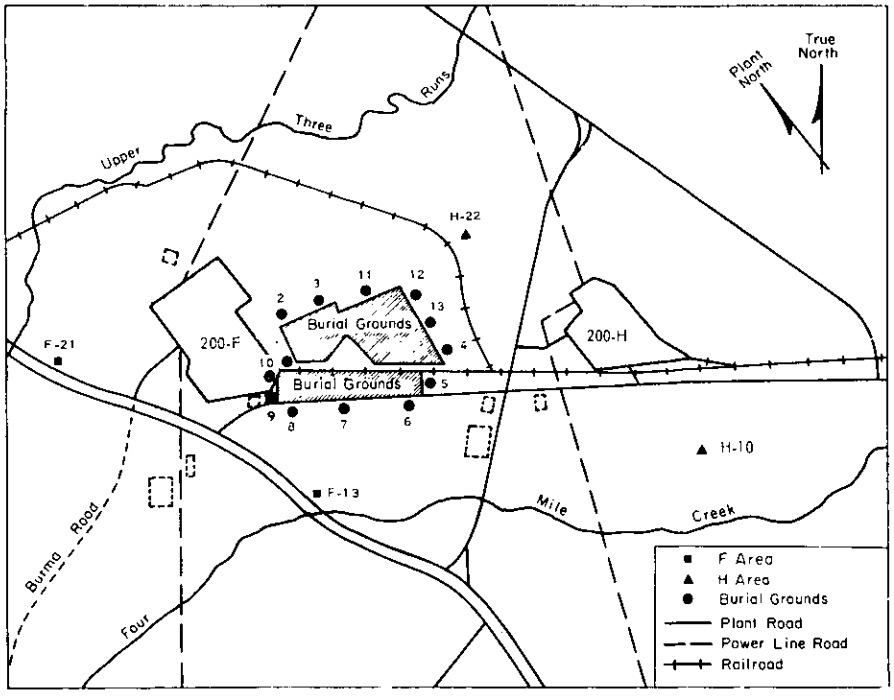


Figure 8-3. Vegetation sampling locations outside the Radioactive Waste Burial Grounds

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			H-3, pCi/mL				
PLANT PERIMETER							
DARKHORSE	26	6.7	±0.27	-0.46	±0.16	1.7	±3.5
100-MILE RADIUS							
COLUMBIA, SC	4	0.32	±0.01	-0.09	±0.16	0.12	-
GREENVILLE, SC	4	0.22	±0.29	-0.33	±0.20	0.04	-
MACON, GA	4	0.17	±0.16	0.04	±0.22	0.08	-
SAVANNAH, GA	4	0.31	±0.15	0	±0.22	0.16	-
			Alpha, pCi/m^2				
ONPLANT							
H AREA	12	11	±5.1	-0.01	±6.0	3.3	±7.9
PLANT PERIMETER							
BARNWELL GATE	12	9.0	±4.8	-0.95	±1.9	1.4	±5.5
DARKHORSE	12	11	±6.4	0	±2.1	3.8	±7.7
25-MILE RADIUS							
OLAR	12	5.6	±5.2	-0.01	±5.1	3.2	±3.7
100-MILE RADIUS							
COLUMBIA, SC	4	11	±11	0	±5.2	4.6	-
GREENVILLE, SC	4	35	±16	9.3	±9.8	22	-
MACON, GA	4	11	±9.1	-2.1	±0.78	4.1	-
SAVANNAH, GA	3	5.3	±7.9	1.9	±6.6	3.6	-
			Nonvolatile Beta, pCi/m^2				
ONPLANT							
H AREA	12	420	±36	-0.04	±13	100	±220
PLANT PERIMETER							
BARNWELL GATE	12	160	±24	-0.08	±23	61	±120
DARKHORSE	12	410	±32	-0.1	±27	98	±200
25-MILE RADIUS							
OLAR	12	300	±31	-0.21	±52	100	±170
100-MILE RADIUS							
COLUMBIA, SC	4	390	±53	32	±27	220	-
GREENVILLE, SC	4	610	±64	440	±55	520	-
MACON, GA	4	350	±49	-3.4	±11	220	-
SAVANNAH, GA	3	380	±51	8.0	±23	200	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Sr-89, 90, pCi/m^2				
ONPLANT							
H AREA	4	620	±710	-120	±400	110	-
PLANT PERIMETER							
BARNWELL GATE	4	420	±650	-110	±650	82	-
DARKHORSE	4	380	±600	-250	±590	68	-
25-MILE RADIUS							
OLAR	4	210	±410	39	±150	150	
100-MILE RADIUS							
COLUMBIA, SC	4	48	±220	-41	±91	4.7	-
GREENVILLE, SC	4	63	±260	-94	±130	30	-
MACON, GA	4	33	±130	-160	±260	41	-
SAVANNAH, GA	4	190	±180	-31	±170	72	-
			Be-7, nCi/m^2				
ONPLANT							
H AREA	11	2.3	±0.72	0	±0.81	0.44	±1.6
PLANT PERIMETER							
BARNWELL GATE	12	6.2	±0.99	0	±1.0	1.2	±3.7
DARKHORSE	11	9.2	±1.1	0	±1.1	2.1	±6.5
25-MILE RADIUS							
OLAR	12	1.9	±0.52	0	±0.96	0.66	±1.7
100-MILE RADIUS							
COLUMBIA, SC	4	7.3	±1.3	0	±0.86	3.2	-
GREENVILLE, SC	3	7.3	±1.1	2.1	±0.62	3.9	-
MACON, GA	4	4.3	±0.73	0	±0.11	1.1	-
SAVANNAH, GA	4	2.9	±0.65	0	±0.28	1.7	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Mn-54, nCi/m^2				
ONPLANT							
H AREA	11	0	±1.6	0	±0.03	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±0.92	0	±0.02	0	-
DARKHORSE	11	0	±0.16	0	±0.01	0	-
25-MILE RADIUS							
OLAR	12	0	±0.18	0	±0.03	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0	±0.09	0	±0.03	0	-
GREENVILLE, SC	3	0	±0.08	0	±0.08	0	-
MACON, GA	4	0	±0.11	0	±0.01	0	-
SAVANNAH, GA	4	0	±0.11	0	±0.03	0	-
			Zr-95, Nb-95, nCi/m^2				
ONPLANT							
H AREA	11	0	±0.55	0	±0.05	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±0.51	0	±0.04	0	-
DARKHORSE	11	0	±0.75	0	±0.01	0	-
25-MILE RADIUS							
OLAR	12	0	±0.66	0	±0.06	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0	±0.21	0	±0.08	0	-
GREENVILLE, SC	3	0	±0.26	0	±0.18	0	-
MACON, GA	4	0	±0.27	0	±0.02	0	-
SAVANNAH, GA	4	0	±0.24	0	±0.05	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Ru-103, 106, nCi/m^2				
ONPLANT							
H AREA	11	0	±1.5	0	±0.29	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±1.5	0	±0.02	0	-
DARKHORSE	11	0	±1.4	0	±0.02	0	-
25-MILE RADIUS							
OLAR	12	0	±1.3	0	±0.03	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0	±0.96	0	±0.21	0	-
GREENVILLE, SC	3	0	±0.92	0	±0.83	0	-
MACON, GA	4	0	±0.98	0	±0.07	0	-
SAVANNAH, GA	4	0	±0.90	0	±0.26	0	-
			Sb-125, nCi/m^2				
ONPLANT							
H AREA	11	0	±0.44	0	±0.07	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±0.36	0	±0.05	0	-
DARKHORSE	11	0	±0.40	0	±0.02	0	-
25-MILE RADIUS							
OLAR	12	0	±0.42	0	±0.08	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0	±0.28	0	±0.07	0	-
GREENVILLE, SC	3	0	±0.29	0	±0.26	0	-
MACON, GA	4	0	±0.30	0	±0.02	0	-
SAVANNAH, GA	4	0	±0.29	0	±0.07	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			I-131, nCi/m^2				
ONPLANT							
H AREA	11	0	±89	0	±0.09	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±140	0	±0.05	0	-
DARKHORSE	11	0	±230	0	±0.09	0	-
25-MILE RADIUS							
OLAR	12	0	±92	0	±0.10	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0	±16	0	±1.6	0	-
GREENVILLE, SC	3	0	±5.3	0	±0.91	0	-
MACON, GA	4	0	±10	0	±0.45	0	-
SAVANNAH, GA	4	0	±5.5	0	±0.07	0	
			Cs-137, nCi/m^2				
ONPLANT							
H AREA	11	0	±0.14	0	±0.03	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±0.14	0	±0.02	0	-
DARKHORSE	11	0	±0.18	0	±0.01	0	-
25-MILE RADIUS							
OLAR	12	0	±0.15	0	±0.03	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0.26	±0.06	0	±0.02	0.07	-
GREENVILLE, SC	3	0.21	±0.05	0	±0.11	0.07	-
MACON, GA	4	0	±0.12	0	±0.01	0	-
SAVANNAH, GA	4	0	±0.11	0	±0.03	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-1
RADIOACTIVITY DEPOSITED IN RAINWATER, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Ce-144, nCi/m^2				
ONPLANT							
H AREA	11	0	±0.88	0	±0.14	0	-
PLANT PERIMETER							
BARNWELL GATE	12	0	±0.81	0	±0.10	0	-
DARKHORSE	11	0	±0.92	0	±0.03	0	-
25-MILE RADIUS							
OLAR	12	0	±0.86	0	±0.13	0	
100-MILE RADIUS							
COLUMBIA, SC	4	0	±0.80	0	±0.13	0	-
GREENVILLE, SC	3	0	±0.87	0	±0.71	0	-
MACON, GA	4	0	±0.85	0	±0.05	0	-
SAVANNAH, GA	4	0	±0.84	0	±0.13	0	-
			Pu-238, pCi/m^2				
ONPLANT							
H AREA	4	1.46	±0.989	-0.043	±0.089	0	-
PLANT PERIMETER							
BARNWELL GATE	4	0.325	±0.211	-0.096	±0.057	0	-
DARKHORSE	4	0.021	±0.162	-0.044	±0.145	0	-
25-MILE RADIUS							
OLAR	4	0.412	±0.344	-0.078	±0.083	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0.048	±0.126	-0.015	±0.001	0	-
GREENVILLE, SC	4	0.052	±0.047	0.011	±0.024	0	-
MACON, GA	4	0.010	±0.045	0.000	±0.022	0	-
SAVANNAH, GA	4	0.055	±0.061	0.003	±0.054	0	-
			Pu-239, pCi/m^2				
ONPLANT							
H AREA	4	1.228	±1.125	0.088	±0.107	0	-
PLANT PERIMETER							
BARNWELL GATE	4	1.442	±0.527	0.050	±0.050	0	-
DARKHORSE	4	1.472	±0.448	0.000	±0.052	0	-
25-MILE RADIUS							
OLAR	4	1.687	±0.584	0.029	±0.041	0	-
100-MILE RADIUS							
COLUMBIA, SC	4	0.438	±0.209	0.007	±0.029	0	-
GREENVILLE, SC	4	0.173	±0.068	0.043	±0.034	0	-
MACON, GA	4	0.128	±0.071	0.021	±0.022	0	-
SAVANNAH, GA	4	0.447	±0.125	0.012	±0.041	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-2
RADIOACTIVITY CONCENTRATION IN SOIL

Location	pCi/g (dry weight), (8 - cm depth) Sr-90[b]	Cs-137[b]	Pu-238[b]	Pu-239[b]
F AREA[a]				
2,000 ft. East	0.01 ± 0.02	1.1 ± 0.10	0.286±0.015	0.198±0.013
2,000 ft. West	0.01 ± 0.03	1.1 ± 0.10	0.065±0.004	0.231±0.008
2,000 ft. North	0.06 ± 0.03	0.98± 0.09	0.053±0.003	0.173±0.006
2,000 ft. South	0.02 ± 0.06	0.14± 0.04	0.005±0.002	0.005±0.001
H AREA[a]				
2,000 ft. East	0.0 ±0.02	0.78±0.08	0.02 ±0.003	0.081±0.004
2,000 ft. West	0.01 ±0.02	0.18±0.04	0.021±0.002	0.003±0.001
2,000 ft. North	0.0 ±0.02	0.52±0.06	0.019±0.002	0.034±0.003
2,000 ft. South	0.02 ±0.06	0.95±0.36	0.027±0.003	0.080±0.005
PLANT PERIMETER				
Northeast Quadrant	0.01 ±0.03	0.41±0.06	0.005±0.001	0.013±0.002
Northwest Quadrant	0.02 ±0.03	0.81±0.08	0.003±0.001	0.018±0.003
Southeast Quadrant	0.03 ±0.03	0.69±0.08	0.002±0.001	0.018±0.002
Southwest Quadrant	0.02 ±0.03	0.59±0.06	0.007±0.002	0.017±0.003
100-MILE RADIUS				
Clinton, SC	0.05 ±0.04	0.56±0.08	0.005±0.001	0.012±0.002
Savannah, GA	0.01 ±0.03	0.0 ±0.11	0.003±0.001	0.002±0.005

[a] F-and H-Area samples were collected 2,000 ft. from the 200-ft stack.

[b] The ± value represents the counting uncertainty at the 95% confidence level.

TABLE 8-3
RADIOACTIVITY DEPOSITED IN SOIL

Location	Deposition, mCi/km^2 (8 - cm depth)			
F AREA[a]	Sr-90[b]	Cs-137[b]	Pu-238[b]	Pu-239[b]
2,000 ft. East	1.2 ±2.4	132 ± 12	34 ± 1.8	24 ± 1.6
2,000 ft. West	1.2 ±3.6	132 ± 12	7.6 ± 0.48	28 ± 0.96
2,000 ft. North	7.2 ±3.6	118 ± 11	6.4 ± 0.36	21 ± 0.72
2,000 ft. South	2.4 ±7.2	17 ± 5.0	0.60 ± 0.24	0.60± 0.12
H AREA[a]				
2,000 ft. East	0.0 ± 2.4	94 ± 9.6	3.0 ± 0.36	9.7 ± 0.48
2,000 ft. West	1.2 ± 2.4	22 ± 4.3	2.5 ± 0.24	0.36± 0.12
2,000 ft. North	0.0 ± 2.4	62 ± 7.2	2.3 ± 0.24	4.1 ± 0.36
2,000 ft. South	2.4 ± 7.2	114 ± 43	3.2 ± 0.36	9.6 ± 0.60
PLANT PERIMETER				
Northeast quadrant	1.2 ± 3.6	49 ± 7.2	0.60±0.12	1.6 ± 0.24
Northwest quadrant	2.4 ± 3.6	97 ± 9.6	0.36±0.12	2.2 ± 0.36
Southeast quadrant	3.6 ± 3.6	83 ± 9.6	0.24±0.12	2.2 ± 0.24
Southwest quadrant	2.4 ± 3.6	71 ± 7.2	0.84±0.24	2.0 ± 0.36
100-MILE RADIUS				
Clinton, SC	6.0 ± 4.8	67 ± 9.6	0.60±0.12	1.4 ± 0.24
Savannah, GA	1.2 ± 3.6	0.0 ± 13	0.36±0.12	0.24± 0.60

[a] F- and H- Area samples were collected 2,000 ft. from the 200-ft stack.

[b] The ± value represents the counting uncertainty at the 95% confidence level.

TABLE 8-4
SUMMARY OF AVERAGE DEPOSITION IN SOIL

	Deposition, mCi/km^2 (8 - cm depth)							
	F Area		H Area		Plant Perimeter		100-Mile Radius	
	Max	Avg	Max	Avg	Max	Avg	Max	Avg
Sr-90								
1973[a]	-	-	-	-	208	79	127	120
1976	12	7	32	21	9	6	31	25
1977	30	17	55	25	15	8	19	14
1978	24	11	11	4	15	8	21	11
1979	13	5	16	6	13	7	13	9
1980	16	10	18	11	15	8	12	9
1981	-	-	-	-	-	-	-	-
1982	-	-	-	-	1	-	11	-
1983	23	8	18	8	7	6	11	7
1984	12	8	9	6	10	7	6	5
1985	14	12	28	13	19	9	5	4
1986	8.3	4	12	4.9	6.8	3.6	17	12
1987	36	11	73	22	3.6	-1.3	2.4	-0.6
1988	7.2	3	2.4	0.90	3.6	2.4	6.0	3.6
Cs-137								
1973[a]	-	-	-	-	99	78	114	105
1974	-	-	-	-	135	73	59[b]	59
1975	100	69	113	85	99	88	90	72
1976	107	70	137	103	76	63	91	74
1977	90	60	150	95	65	52	55	54
1978	114	91	91	46	91	57	61	57
1979	75	47	82	58	68	54	60	52
1980	45	35	60	45	52	32	32	22
1981	63	50	92	55	53	31	43	42
1982	-	-	-	-	62	-	37	-
1983	103	61	106	75	64	50	48	48
1984	57	36	89	53	48	36	5	5
1985	59	30	98	63	46	31	30	28
1986	81	45	113	84	45	38	34	32
1987	120	76	240	132	112	90	65	53
1988	132	100	114	73	97	75	67	33
Pu-238								
1973[a]	-	-	-	-	0.21	0.08	0.21	0.12
1974	-	-	-	-	0.37	0.11	0.13[b]	0.13
1975	1.1	0.71	6.9	2.6	0.08	0.07	0.03	0.02
1976	1.1	0.61	4.3	2.2	0.10	0.07	0.07	0.06
1977	1.4	0.77	6.3	2.8	0.10	0.07	0.04	0.04
1978	2.9	1.52	4.7	2.3	0.14	0.12	0.08	0.06
1979	1.2	0.77	3.7	1.6	0.15	0.10	0.08	0.08
1980	2.6	1.35	2.7	2.1	0.38	0.22	0.08	0.08
1981	1.2	0.54	1.3	1.4	0.15	0.15	0.08	0.08
1982	-	-	-	-	0.4	0.30	0.02	0.02
1983	7.1	2.6	2.9	2.0	0.3	0.2	0.03	0.03
1984	3.5	1.8	10.6	3.8	0.6	0.4	0.23	0.15
1985	0.7	0.5	5.0	2.0	0.03	0.03	0.08	0.08
1986	0.9	0.74	5.9	2.0	0.10	0.05	0.08	0.05
1987	8.8	4.1	6.1	3.6	2.5	0.96	0.0	0.0
1988	34	12	3.2	2.8	0.84	0.51	0.60	0.48

[a] In 1973, 15-cm cores were taken. No Sr-90 analyses in 1974 and 1975.

[b] The 1974 deposition in 25-mile-radius soil: Pu-238, 0.4; Pu-239, 2.0; and Cs-137, 83.

- Analysis not performed or samples not collected.

TABLE 8-4
SUMMARY OF AVERAGE DEPOSITION IN SOIL, CONT'D.

	Deposition, mCi/km^2 (8 - cm depth)							
	F Area		H Area		Plant Perimeter		100-Mile Radius	
	Max	Avg	Max	Avg	Max	Avg	Max	Avg
Pu-239								
1973[a]	-	-	-	-	2.4	1.8	1.7	1.7
1974	-	-	-	-	2.1	1.2	1.3[b]	1.3
1975	19.2	9.9	10.6	8.8	1.4	1.1	0.8	0.7
1976	10.2	5.5	10.0	7.5	1.5	1.3	1.5	1.1
1977	13.2	6.3	11.9	8.3	1.9	1.2	1.6	1.2
1978	28.0	10.9	12.1	9.5	2.4	1.9	1.3	1.1
1979	11.9	4.7	5.8	3.5	1.4	1.2	0.3	0.2
1980	10.6	6.3	6.6	4.6	2.2	1.2	0.4	0.1
1981	4.1	2.3	6.5	3.3	1.3	1.1	0.8	0.7
1982	-	-	-	-	1.2	1.2	0.1	0.1
1983	14.0	8.2	12.0	6.0	2.0	1.3	0.8	0.8
1984	26.9	13.1	10.6	3.8	0.8	0.6	0.4	0.3
1985	11.0	6.0	7	5	1.0	0.9	0.8	0.8
1986	14.0	5.5	9.0	5.1	1.1	0.9	0.6	0.5
1987	11.0	4.8	8.6	7.1	2.5	1.9	2.4	1.8
1988	28	18	9.7	5.9	2.2	2.0	1.4	0.82

[a] In 1973, 15-cm cores were taken. No Sr-90 analyses in 1974 and 1975.

[b] The 1974 deposition in 25-mile-radius soil: Pu-238, 0.4; Pu-239, 2.0; and Cs-137, 83.

- Analysis not performed or samples not collected.

TABLE 8-5
RADIOACTIVITY IN VEGETATION

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Gross Alpha, pCi/g				
200-F VEGETATION							
F 13 1 MI S OF 200 F	4	1.8	±0.86	0.13	±0.19	0.62	-
F 21 1 MI E OF 200 F	4	0.22	±0.23	-0.06	±0.22	0.10	-
200-H VEGETATION							
H 10 1 MI S OF 200 H	4	0.65	±0.94	0	±0.12	0.31	-
H 22 1 MI N OF 200 H	4	0.53	±0.33	0.34	±0.27	0.47	-
PLANT PERIMETER							
ALLENDALE GATE	3	1.3	±1.1	0	±0.12	0.47	-
A/14	4	0.63	±0.55	0	±0.0	0.22	-
BARNWELL GATE	4	0.21	±0.22	0.09	±0.12	0.14	-
D AREA	4	0.74	±0.63	0.04	±0.09	0.33	-
DARKHORSE	4	0.78	±0.71	0	±0.0	0.22	-
EAST TALATHA	4	0.35	±0.47	0.04	±0.14	0.19	-
GREENPOND	4	3.1	±2.1	-0.04	±0.08	0.80	-
HIGHWAY 21/167	4	0.56	±0.56	-0.04	±0.08	0.23	-
HIGHWAY 39	4	1.1	±0.70	0	±0.0	0.40	-
JACKSON	4	0.67	±0.66	0	±0.12	0.22	-
PATTERSON MILL		0.51	±0.42	0.08	±0.17	0.23	-
TALATHA GATE	4	0.97	±0.71	0.04	±0.08	0.36	-
WEST JACKSON	4	0.68	±0.69	0.09	±0.12	0.29	-
WINDSOR ROAD	4	0.20	±0.57	0.08	±0.17	0.12	-
25-MILE-RADIUS VEGETATION							
ALLENDALE	4	0.80	±0.62	0.08	±0.17	0.42	-
AUGUSTA[a]	0						
HIGHWAY 301[a]	0						
LANGLEY	4	3.9	±1.4	0.17	±0.20	1.2	-
PERKINS[a]	0						
SOUTH RICHMOND[a]	0						
SPRINGFIELD	4	0.17	±0.20	-0.04	±0.08	0.08	-
WAYNESBORO	4	1.3	±0.86	0.12	±0.19	0.49	-
100-MILE RADIUS VEGETATION							
COLUMBIA, SC	4	0.12	±0.21	-0.61	±0.45	0.08	-
GREENVILLE, SC	4	0.56	±0.76	-0.08	±0.23	0.13	-
MACON, GA	3	0.73	±0.98	0	±0.17	0.33	-
SAVANNAH, GA	4	1.0	±0.77	0.04	±0.14	0.36	-

[a] Sampling discontinued at this location.
- Insufficient data; mean not calculated for <5 samples.

TABLE 8-5
RADIOACTIVITY IN VEGETATION, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Nonvolatile Beta, pCi/g				
200-F VEGETATION							
F 13 1 MI S OF 200 F	4	16	±1.5	6.2	±0.96	11	-
F 21 1 MI E OF 200 F	4	20	±1.7	4.8	±0.83	11	-
200-H VEGETATION							
H 10 1 MI S OF 200 H	4	14	±1.4	6.4	±0.97	9.3	-
H 22 1 MI N OF 200 H	4	21	±1.7	4.6	±0.86	12	-
PLANT PERIMETER VEGETATION							
ALLENDALE GATE	3	23	±3.9	5.8	±0.91	12	-
A/14	4	20	±1.7	5.1	±0.86	14	-
BARNWELL GATE	4	18	±1.7	6.2	±0.93	13	-
D AREA	4	14	±2.3	6.2	±0.93	9	-
DARKHORSE	4	18	±1.6	4.2	±0.80	12	-
EAST TALATHA	4	22	±2.9	5.0	±0.86	12	-
GREENPOND	4	32	±4.0	2.4	±0.67	13	-
HIGHWAY 21/167	4	15	±2.3	9.6	±1.1	13	-
HIGHWAY 39	4	24	±1.7	3.7	±0.77	14	-
JACKSON	4	14	±1.5	3.4	±0.75	11	-
PATTERSON MILL	4	9.5	±1.7	7.9	±1.0	8.6	
TALATHA GATE	4	15	±1.8	7.2	±0.99	10	-
WEST JACKSON	4	17	±2.5	7.8	±1.0	14	-
WINDSOR ROAD	4	15	±3.0	4.8	±0.85	10	-
25-MILE-RADIUS VEGETATION							
ALLENDALE	4	29	±3.6	12	±1.2	18	-
AUGUSTA[a]	0						
HIGHWAY 301[a]	0						
LANGLEY	4	21	±3.1	9.2	±1.1	15	-
PERKINS[a]	0						
SOUTH RICHMOND[a]	0						
SPRINGFIELD	4	16	±2.4	10	±1.2	14	-
WAYNESBORO	4	26	±3.3	4.7	±0.84	15	-
100-MILE-RADIUS VEGETATION							
COLUMBIA, SC	4	38	±2.9	11	±1.2	21	-
GREENVILLE, SC	4	24	±3.2	10	±1.6	16	-
MACON, GA	3	35	±3.4	5.6	±0.97	16	-
SAVANNAH, GA	4	16	±1.4	5.3	±0.87	13	-

[a] Sampling discontinued at this location.
- Insufficient data; mean not calculated for <5 samples.

TABLE 8-5
RADIOACTIVITY IN VEGETATION, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			H-3, pCi/mL				
200-F VEGETATION							
F 13 1 MI S OF 200 F	3	53	±0.41	33	±0.34	42	-
F 21 1 MI E OF 200 F	3	26	±0.31	9.4	±0.37	15	-
200-H VEGETATION							
H 10 1 MI S OF 200 H	3	160	±0.67	14	±0.41	71	-
H 22 1 MI N OF 200 H	3	56	±0.42	10	±0.24	39	-
PLANT PERIMETER VEGETATION							
ALLENDALE GATE	4	5.4	±0.93	0.46	±0.16	1.9	-
A/14	3	3.2	±0.19	1.1	±0.16	2.0	-
BARNWELL GATE	2	1.3	±0.28	0.68	±0.17	0.98	-
D AREA	3	11	±0.27	2.3	±0.29	5.5	-
DARKHORSE	4	10	±0.48	0.92	±0.27	4.9	-
EAST TALATHA	4	11	±0.26	1.7	±0.28	4.8	-
GREENPOND	3	32	±0.34	1.3	±0.27	12	-
HIGHWAY 21/167	3	1.9	±0.28	0.76	±0.17	1.5	-
HIGHWAY 39	4	27	±0.86	0.98	±0.16	9.6	-
JACKSON	3	10	±0.24	0.62	±0.27	4.9	-
PATTERSON MILL	4	6.9	±1.5	1.0	±0.27	2.7	-
TALATHA GATE	4	13	±0.41	2.1	±0.29	6.9	-
WEST JACKSON	4	4	±0.20	0.21	±0.26	2.6	-
WINDSOR ROAD	4	12	±0.40	1.2	±0.27	4.5	-
25-MILE-RADIUS VEGETATION							
ALLENDALE	4	11	±0.43	-0.01	±0.16	4	-
AUGUSTA[a]							
HIGHWAY 301[a]							
LANGLEY	4	6.6	±0.20	0.44	±0.26	2.9	-
PERKINS[a]							
SOUTH RICHMOND[a]							
SPRINGFIELD	4	11	±0.40	-0.07	±0.16	4.2	-
WAYNESBORO	4	3.7	±0.30	0	±0.17	1.6	-
100-MILE-RADIUS VEGETATION							
COLUMBIA, SC	3	1.2	±0.17	0.15	±0.01	0.58	-
GREENVILLE, SC	4	4.6	±0.10	0.14	±0.17	1.4	-
MACON, GA	2	0.52	±0.27	-0.04	±0.16	0.24	-
SAVANNAH, GA	4	0.11	±0.26	-0.16	±0.22	0.01	-

[a] Sampling discontinued at this location.
- Insufficient data; mean not calculated for <5 samples.

TABLE 8-5
RADIOACTIVITY IN VEGETATION, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Sr-89, 90, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	3	0.94	±0.28	0.11	±0.10	0.44	-
PLANT PERIMETER	3	0.58	±0.15	0.32	±0.12	0.45	-
25-MILE RADIUS	2	0.96	±0.16	0.05	±0.09	0.51	-
			Be-7, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	8.7	±1.9	0	±4.5	4.2	-
PLANT PERIMETER	4	5.6	±1.6	0	±5.4	3.8	
25-MILE RADIUS	3	11	±3.9	4.2	±1.4	7.2	-
100-MILE RADIUS	4	18	±4.1	0	±5.1	8.3	-
			K-40, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	15	±2.5	4.8	±1.5	9.8	-
PLANT PERIMETER	4	42	±13	8.3	±1.7	17	-
25-MILE RADIUS	3	26	±3.4	6.6	±2.5	17	-
100-MILE RADIUS	4	39	±5.9	15	±2.5	26	-
			Mn-54, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	0	±0.25	0	±0.06	0	-
PLANT PERIMETER	4	0	±0.33	0	±0.15	0	-
25-MILE RADIUS	3	0	±0.40	0	±0.26	0	-
100-MILE RADIUS	4	0	±0.47	0	±0.17	0	-
			Zr-95, Nb-95, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	0	±0.73	0	±0.07	0	-
PLANT PERIMETER	4	0	±0.99	0	±0.29	0	-
25-MILE RADIUS	3	0	±2.2	0	±0.53	0	-
100-MILE RADIUS	4	0	±2.4	0	±0.53	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-5
RADIOACTIVITY IN VEGETATION, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Ru-103,106, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	0	±2.2	0	±0.64	0	-
PLANT PERIMETER	4	0	±2.9	0	±1.5	0	-
25-MILE RADIUS	3	0	±6.0	0	±2.2	0	-
100-MILE RADIUS	4	0	±6.3	0	±1.3	0	-
			I-131, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	0	±36	0	±0.34	0	-
PLANT PERIMETER	4	0	±81	0	±0.50	0	-
25-MILE RADIUS	3	0	±140	0	±7.9	0	-
100-MILE RADIUS	4	0	±43	0	±4.7	0	-
			Cs-134, 137, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	1.6	±0.30	0.33	±0.10	0.71	-
PLANT PERIMETER	4	0.63	±0.14	0	±0.33	0.29	-
25-MILE RADIUS	3	1.1	±0.24	0	±0.27	0.36	-
100-MILE RADIUS	4	0.21	±0.07	0	±0.25	0.05	-
			Ce-141, 144, pCi/g				
COMPOSITE SAMPLES							
200 F & 200 H	4	0	±1.8	0	±0.42	0	-
PLANT PERIMETER	4	0	±2.4	0	±1.1	0	-
25-MILE RADIUS	3	0	±7.0	0	±1.8	0	-
100-MILE RADIUS	4	0	±6.9	0	±1.1	0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-6
RADIOACTIVITY IN SEEPAGE AND RETENTION BASIN VEGETATION

Location	pCi/g (dry weight) Gross Alpha	CT ERR 2σ or LLD	Nonvolatile Beta	CT ERR 2σ or LLD	Sr-89,90	CT ERR 2σ or LLD
700-A Seepage Basin Composite (4 Locations)	0.17	±0.21	19	±1.6	5.2	±1.2
300-M Seepage Basin Composite (4 Locations)	0.04	±0.15	20	±1.7	1.4	±0.37
100-C Seepage Basin Composite (8 Locations)	0.04	±0.15	23	±1.8	5.0	±0.62
100-K Seepage Basin Composite (4 Locations)	0.09	±0.17	17	±1.6	2.7	±0.48
100-K Retention Basin Composite (4 Locations)	0.17	±0.21	11	±1.3	1.0	±0.33
100-L Seepage Basin Composite (4 Locations)	0.04	±0.15	8.8	±1.2	0.61	±0.29
100-L Chemical Basin Composite (4 Locations)	0.04	±0.15	17	±1.6	4.6	±0.60
100-P Seepage Basin Composite (4 Locations)	0.21	±0.19	12	±1.7	3.2	±0.51
100-R Seepage Basin Composite (8 Locations)	0.04	±0.15	16	±1.5	1.9	±0.41
200-F Seepage Basin Composite (8 Locations)	0.17	±0.21	21	±1.7	0.72	±0.12
200-F Retention Basin[a] Composite (6 Locations)						
200-H Seepage Basin Composite (8 Locations)	0.08	±0.17	14	±1.3	17	±1.1
200-H Retention Basin Composite (8 Locations)	0.13	±0.19	41	±2.3	9.9	±0.85

[a] No vegetation in the area.

TABLE 8-7
RADIOACTIVITY IN VEGETATION INSIDE THE RADIOACTIVE WASTE BURIAL GROUND FENCES

Sample Location	Alpha (pCi/g)		Nonvolatile Beta (pCi/g)	
	1987	1988	1987	1988
1	0.08 ± 0.16	0.04 ± 0.15	13 ± 1.3	112 ± 3.8
1A	0.08 ± 0.16	0.17 ± 0.21	15 ± 1.3	19 ± 1.6
2	0.35 ± 0.26	0.17 ± 0.21	21 ± 1.6	26 ± 1.9
3	0.20 ± 0.21	0.26 ± 0.24	13 ± 1.3	28 ± 2.0
3A	0.31 ± 0.25	0.21 ± 0.02	25 ± 1.7	18 ± 1.6
4	0.12 ± 0.17	0.09 ± 0.17	12 ± 1.2	15 ± 1.5
4A	0.04 ± 0.14	0.13 ± 0.19	9 ± 1.1	13 ± 1.4
5	0.04 ± 0.14	0.21 ± 0.22	23 ± 1.6	53 ± 1.3
6	0.04 ± 0.14	0.21 ± 0.22	13 ± 1.3	10 ± 1.3
7	1.01 ± 0.30	0.04 ± 0.15	46 ± 1.6	16 ± 1.5
8	0.12 ± 0.17	0.17 ± 0.21	19 ± 1.5	12 ± 1.4
8A	0.08 ± 0.15	0.21 ± 0.22	54 ± 2.5	55 ± 2.7
9	-0.08 ± 0.15	0.04 ± 0.09	21 ± 1.6	41 ± 2.3
9A	7.62 ± 1.10	0.13 ± 0.19	6006 ± 25	328 ± 6.5
10	-0.12 ± 0.13	0.13 ± 0.15	34 ± 2.0	99 ± 3.6
11	0.35 ± 0.30	0.26 ± 0.21	83 ± 3.0	77 ± 3.2
12	0.27 ± 0.28	0.17 ± 0.17	84 ± 3.1	25 ± 1.9
13	0.08 ± 0.15	0.26 ± 0.24	15 ± 1.4	49 ± 2.6
14	0.19 ± 0.20	0.26 ± 0.24	24 ± 1.7	60 ± 2.8
14A	0.19 ± 0.20	0.0 ± 0.12	26 ± 1.7	22 ± 1.8
15	0.12 ± 0.17	0.17 ± 0.21	18 ± 2.9	56 ± 2.7
16	0.0 ± 0.11	0.21 ± 0.22	40 ± 2.1	64 ± 2.9
17	0.04 ± 0.13	0.21 ± 0.22	13 ± 1.3	71 ± 3.1
18	0.31 ± 0.24	0.0 ± 0.09	73 ± 2.9	53 ± 2.7
19	0.15 ± 0.19	0.0 ± 0.12	20 ± 1.5	18 ± 1.6
19A	0.04 ± 0.14	0.43 ± 0.29	8 ± 1.1	19 ± 1.6
20	0.04 ± 0.14	0.04 ± 0.15	12 ± 1.3	9.9 ± 1.2
20A[a]		0.01 ± 0.17		23 ± 1.8
21	0.25 ± 0.23	0.13 ± 0.19	5 ± 0.93	31 ± 2.0
22	0.0 ± 0.12	0.21 ± 0.22	21 ± 1.7	31 ± 2.1
23	0.04 ± 0.14	0.43 ± 0.29	20 ± 1.6	23 ± 1.8
23A	0.08 ± 0.17	0.04 ± 0.15	17 ± 1.5	69 ± 3.0
24	0.08 ± 0.17	2.6 ± 0.68	27 ± 1.9	4097 ± 23
25	0.17 ± 0.20	0.09 ± 0.17	15 ± 1.5	42 ± 2.4
26[a]		0.0 ± 0.09		14 ± 1.4
27	0.12 ± 0.18	0.21 ± 0.22	22 ± 1.7	70 ± 1.5
28[b]	0.12 ± 0.18		12 ± 1.3	
29	0.04 ± 0.14	0.17 ± 0.17	11 ± 1.3	14 ± 1.5
30[a]		0.04 ± 0.15		11 ± 1.3
31	-0.04 ± 0.08	0.0 ± 0.12	8 ± 1.1	16 ± 1.6
32	0.04 ± 0.13	0.13 ± 0.19	22 ± 1.6	13 ± 1.4
33[b]	0.0 ± 0.11		9 ± 1.1	
34[a]		0.0 ± 0.17		
35				21 ± 1.7
35[a]		0.04 ± 0.15		13 ± 1.4
36	0.15 ± 0.19	1.5 ± 0.19	27 ± 1.8	27 ± 1.9
37	0.19 ± 0.20	0.17 ± 0.21	10 ± 1.1	8.2 ± 1.2
38[a]		0.04 ± 0.15		33 ± 2.1
39[a]		0.13 ± 0.19		10 ± 1.3
40[a]		0.47 ± 0.31		7.6 ± 1.1
41[a]		0.09 ± 0.17		11 ± 1.3
42	0.19 ± 0.20	0.17 ± 0.21	21 ± 1.6	18 ± 1.6

[a] Samples not pulled in 1987 due to digging in the area, per EM Collections Group log book.

[b] No vegetation in area in 1988.

Blank space indicates no analysis performed.

TABLE 8-7
RADIOACTIVITY IN VEGETATION INSIDE THE RADIOACTIVE WASTE BURIAL GROUND FENCES, CONT'D.

Sample Location	K-40 (pCi/g)		Cs-137 (pCi/g)	
	1987	1988	1987	1988
1	15 ± 2	21 ± 2.5	<0.3	0.51± 0.10
1A	8 ± 2	23 ± 2.6	<0.3	0.0 ± 0.27
2	18 ± 2	24 ± 3.5	0.7 ± 0.1	0.40± 0.14
3	11 ± 2	23 ± 3.0	0.7 ± 0.1	0.61± 0.14
3A	10 ± 2	10 ± 0.16	0.5 ± 0.1	0.0 ± 0.19
4	12 ± 2	15 ± 2.4	0.4 ± 0.1	0.39± 0.11
4A	8 ± 1	9.0 ± 1.7	0.2 ± 0.1	0.0 ± 0.31
5	15 ± 2	22 ± 2.9	2.0 ± 0.2	0.51± 0.12
6	11 ± 2	32 ± 3.8	2.0 ± 0.2	2.9 ± 0.31
7	12 ± 2	13 ± 2.2	0.4 ± 0.1	0.39± 0.11
8	7 ± 2	13 ± 2.0	0.7 ± 0.2	0.23± 0.09
8A	20 ± 3	0.0 ± 9.4	<0.3	0.43± 1.9
9	9 ± 1	12 ± 1.9	0.6 ± 0.1	0.45± 0.10
9A	12 ± 2	20 ± 2.7	1.0 ± 0.02	4.5 ± 0.38
10	9 ± 2	22 ± 2.3	3.0 ± 0.2	1.9 ± 0.19
11	13 ± 2	21 ± 3.2	37 ± 0.7	0.0 ± 0.42
12	8 ± 2	17 ± 3.4	1.0 ± 0.2	0.37± 0.14
13	13 ± 2	0.0 ± 7.4	0.6 ± 0.1	0.51± 0.12
14	12 ± 2	18 ± 2.9	0.5 ± 0.1	0.82± 0.18
14A	16 ± 3	12 ± 1.8	<0.4	0.38± 0.08
15	17 ± 3	22 ± 4.1	0.3 ± 0.1	1.5 ± 0.28
16	42 ± 4	19 ± 2.8	4.0 ± 0.3	1.1 ± 0.17
17	15 ± 3	25 ± 4.2	<0.3	1.5 ± 0.26
18	11 ± 2	0.0 ± 6.9	9.0 ± 0.5	6.3 ± 0.49
19	23 ± 3	0.0 ± 5.0	0.5 ± 0.1	0.71± 0.13
19A	13 ± 2	0.0 ± 5.4	2.0 ± 0.2	0.42± 0.11
20	13 ± 2	0.0 ± 10	0.5 ± 0.1	1.2 ± 0.18
20A[a]		7.2 ± 1.6		0.13± 0.08
21	4 ± 2	0.0 ± 3.7	0.5 ± 0.1	0.93± 0.12
22	19 ± 2	0.0 ± 5.2	<0.2	0.0 ± 0.31
23	16 ± 2	0.0 ± 3.9	0.8 ± 0.1	0.66± 0.10
23A	13 ± 2	0.0 ± 5.9	0.5 ± 0.1	0.78± 0.12
24	15 ± 2	0.0 ± 10	0.7 ± 0.1	4.2 ± 0.43
25	13 ± 3	0.0 ± 12	0.3 ± 0.1	0.97± 0.15
26[a]		12 ± 2.2		0.0 ± 0.39
27	13 ± 3	0.0 ± 4.3	<0.4	1.7 ± 0.19
28[b]	8 ± 1		<0.2	
29	13 ± 2	0.0 ± 9.5	<0.3	0.0 ± 0.43
30[a]		0.0 ± 4.4		0.27± 0.08
31	11 ± 2	14 ± 2.1	<0.2	0.26± 0.08
32	19 ± 3	6.9 ± 1.2	0.4 ± 0.1	0.26± 0.07
33[b]	12 ± 2		<0.3	
34[a]		0.0 ± 7.0		0.0 ± 0.24
35[a]		18 ± 2.8		0.19± 0.09
36	32 ± 4	0.0 ± 7.1	<0.4	0.28± 0.09
37	4 ± 1	0.0 ± 4.5	<0.2	0.0 ± 0.29
38[a]		0.0 ± 8.1		0.39± 0.11
39[a]		0.0 ± 4.5		0.0 ± 0.21
40[a]		7.2 ± 8.1		0.36± 0.10
41[a]		21 ± 2.6		0.0 ± 0.25
42	20 ± 2	0.0 ± 1.4	0.3 ± 0.1	0.0 ± 0.25

[a] Samples not pulled in 1987 due to digging in the area, per EM Collections Group log book.

[b] No vegetation in area in 1988.

Blank space indicates no analysis performed.

TABLE 8-8
RADIOACTIVITY IN VEGETATION OUTSIDE THE RADIOACTIVE WASTE BURIAL GROUND

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Gross Alpha, pCi/g				
BURIAL GROUND 1	4	0.87	±1.4	0.26	±0.24	0.46	-
BURIAL GROUND 2	4	0.30	±0.23	0.09	±0.17	0.23	-
BURIAL GROUND 3	4	0.77	±1.1	-0.04	±0.13	0.37	-
BURIAL GROUND 4	4	1.1	±1.4	0.09	±0.12	0.50	-
BURIAL GROUND 5	4	1.3	±0.82	0.0	±0.15	0.65	-
BURIAL GROUND 6	4	0.36	±0.24	-0.78	±0.90	0.01	-
BURIAL GROUND 7	4	2.0	±1.8	0.13	±0.15	0.70	-
BURIAL GROUND 8	4	0.45	±0.27	-0.80	±0.66	0.01	-
BURIAL GROUND 9	4	0.36	±0.24	-0.46	±0.09	-0.01	-
BURIAL GROUND 10	4	0.90	±0.84	0.04	±0.15	0.39	-
BURIAL GROUND 11	4	1.0	±0.91	0.08	±0.17	0.44	-
BURIAL GROUND 12	4	2.1	±0.94	0.12	±0.14	0.62	-
BURIAL GROUND 13	4	2.9	±2.1	0.04	±0.09	0.82	-
			Nonvolatile Beta, pCi/g				
BURIAL GROUND 1	4	20	±1.7	8.0	±1.1	12	-
BURIAL GROUND 2	4	13	±2.2	10	±1.1	15	-
BURIAL GROUND 3	4	14	±1.4	5.4	±0.88	9.3	-
BURIAL GROUND 4	4	13	±1.3	5.7	±0.90	9.1	-
BURIAL GROUND 5	4	16	±1.5	6.8	±0.97	11	-
BURIAL GROUND 6	4	22	±1.8	8.2	±1.0	18	-
BURIAL GROUND 7	4	19	±1.6	6.2	±0.93	14	-
BURIAL GROUND 8	4	28	±2.3	13	±1.4	21	-
BURIAL GROUND 9	4	25	±1.8	10	±1.1	17	-
BURIAL GROUND 10	4	60	±2.6	6.5	±0.95	22	-
BURIAL GROUND 11	4	13	±1.4	7.5	±1.1	9.9	-
BURIAL GROUND 12	4	148	±4.5	3.9	±0.78	44	-
BURIAL GROUND 13	4	11	±1.3	3.7	±0.77	8.5	-
			Be-7, pCi/g				
BURIAL GROUND 1	4	6.3	±1.1	4.0	±1.2	5.0	-
BURIAL GROUND 2	4	13	±2.1	0.0	±1.4	4.8	-
BURIAL GROUND 3	4	5.3	±2.0	0.0	±6.1	3.1	-
BURIAL GROUND 4	4	6.6	±1.3	2.7	±0.84	4.7	-
BURIAL GROUND 5	4	10	±2.7	0.0	±5.3	3.6	-
BURIAL GROUND 6	4	11	±2.2	0.0	±4.7	5.8	-
BURIAL GROUND 7	4	22	±3.9	4.0	±0.84	10	-
BURIAL GROUND 8	4	12	±2.6	3.7	±1.2	6.8	-
BURIAL GROUND 9	4	15	±2.2	3.8	±0.72	8.4	-
BURIAL GROUND 10	4	13	±2.0	4.6	±1.2	8.2	-
BURIAL GROUND 11	4	13	±2.9	3.2	±0.64	7.7	-
BURIAL GROUND 12	4	18	±4.0	0.0	±6.5	9.5	-
BURIAL GROUND 13	4	23	±4.2	4.1	±0.82	9.3	-

- Insufficient data; mean not caculated for <5 samples.

TABLE 8-8
RADIOACTIVITY IN VEGETATION OUTSIDE THE RADIOACTIVE WASTE BURIAL GROUND, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	Arithmetic 2 Std Dev
			K-40, pCi/g				
BURIAL GROUND 1	4	18	±2.6	5.2	±1.3	9.5	-
BURIAL GROUND 2	4	16	±2.4	4.2	±1.7	8.5	-
BURIAL GROUND 3	4	8.0	±2.4	4.5	±3.0	6.3	-
BURIAL GROUND 4	4	12	±1.7	0.0	±3.7	7.6	-
BURIAL GROUND 5	4	22	±2.9	8.8	±1.2	13	-
BURIAL GROUND 6	4	20	±2.4	6.5	±1.3	11	-
BURIAL GROUND 7	4	12	±2.3	0.0	±1.7	6.6	-
BURIAL GROUND 8	4	33	±3.7	9.6	±2.7	19	-
BURIAL GROUND 9	4	15	±3.1	7.0	±2.3	9.6	-
BURIAL GROUND 10	4	13	±1.9	0.0	±3.4	6.2	-
BURIAL GROUND 11	4	10	±2.1	8.1	±2.4	9.0	-
BURIAL GROUND 12	4	8.4	±2.7	0.0	±2.4	5.2	-
BURIAL GROUND 13	4	18	±2.7	0.0	±1.4	8.5	-
			Mn-54, pCi/g				
BURIAL GROUND 1	4	0.0	±0.24	0.0	±0.17	0.0	-
BURIAL GROUND 2	4	0.0	±0.31	0.0	±0.08	0.0	-
BURIAL GROUND 3	4	0.0	±0.41	0.0	±0.12	0.0	-
BURIAL GROUND 4	4	0.0	±0.19	0.0	±0.14	0.0	-
BURIAL GROUND 5	4	0.0	±0.27	0.0	±0.09	0.0	-
BURIAL GROUND 6	4	0.0	±0.27	0.0	±0.14	0.0	-
BURIAL GROUND 7	4	0.0	±0.29	0.0	±0.09	0.0	-
BURIAL GROUND 8	4	0.0	±0.46	0.0	±0.08	0.0	-
BURIAL GROUND 9	4	0.0	±0.34	0.0	±0.13	0.0	-
BURIAL GROUND 10	4	0.0	±0.32	0.0	±0.17	0.0	-
BURIAL GROUND 11	4	0.0	±0.25	0.0	±0.10	0.0	-
BURIAL GROUND 12	4	0.0	±0.28	0.0	±0.11	0.0	-
BURIAL GROUND 13	4	0.0	±0.28	0.0	±0.13	0.0	-
			Zr-95, Nb-95 pCi/g				
BURIAL GROUND 1	4	0.0	±0.69	0.0	±0.23	0.0	-
BURIAL GROUND 2	4	0.0	±0.53	0.0	±0.24	0.0	-
BURIAL GROUND 3	4	0.0	±0.90	0.0	±0.22	0.0	-
BURIAL GROUND 4	4	0.0	±0.62	0.0	±0.35	0.0	-
BURIAL GROUND 5	4	0.0	±0.74	0.0	±0.16	0.0	-
BURIAL GROUND 6	4	0.0	±0.72	0.0	±0.29	0.0	-
BURIAL GROUND 7	4	0.0	±1.0	0.0	±0.23	0.0	-
BURIAL GROUND 8	4	0.0	±1.2	0.0	±0.20	0.0	-
BURIAL GROUND 9	4	0.0	±0.78	0.0	±0.25	0.0	-
BURIAL GROUND 10	4	0.0	±0.90	0.0	±0.35	0.0	-
BURIAL GROUND 11	4	0.0	±0.62	0.0	±0.21	0.0	-
BURIAL GROUND 12	4	0.0	±0.34	0.0	±0.23	0.0	-
BURIAL GROUND 13	4	0.0	±0.67	0.0	±0.29	0.0	-

- Insufficient data; mean not calculated for <5 samples.

TABLE 8-8
RADIOACTIVITY IN VEGETATION OUTSIDE THE RADIOACTIVE WASTE BURIAL GROUND, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
		Ru-103, 106, pCi/g					
BURIAL GROUND 1	4	0.0	±2.3	0.0	±1.2	0.0	-
BURIAL GROUND 2	4	0.0	±2.6	0.0	±0.69	0.0	-
BURIAL GROUND 3	4	0.0	±3.2	0.0	±1.1	0.0	-
BURIAL GROUND 4	4	0.0	±2.1	0.0	±1.3	0.0	-
BURIAL GROUND 5	4	0.0	±2.0	0.0	±0.82	0.0	-
BURIAL GROUND 6	4	0.0	±2.2	0.0	±1.3	0.0	-
BURIAL GROUND 7	4	0.0	±2.9	0.0	±0.95	0.0	-
BURIAL GROUND 8	4	0.0	±3.3	0.0	±0.74	0.0	-
BURIAL GROUND 9	4	0.0	±2.7	0.0	±1.2	0.0	-
BURIAL GROUND 10	4	0.0	±3.0	0.0	±1.5	0.0	-
BURIAL GROUND 11	4	0.0	±2.1	0.0	±0.76	0.0	-
BURIAL GROUND 12	4	0.0	±1.6	0.0	±1.1	0.0	-
BURIAL GROUND 13	4	0.0	±2.6	0.0	+0.99	0.0	-
		Cs-137, pCi/g					
BURIAL GROUND 1	4	1.2	±0.17	0.0	±0.15	0.30	-
BURIAL GROUND 2	4	0.97	±0.20	0.0	±0.10	0.33	-
BURIAL GROUND 3	4	0.69	±0.14	0.0	±0.14	0.23	-
BURIAL GROUND 4	4	2.1	±0.25	0.0	±0.30	0.84	-
BURIAL GROUND 5	4	0.63	±0.08	0.22	±0.10	0.44	-
BURIAL GROUND 6	4	1.2	±0.15	0.0	±0.30	0.58	-
BURIAL GROUND 7	4	2.4	±0.44	0.42	±0.12	1.1	-
BURIAL GROUND 8	4	0.68	±0.20	0.0	±0.45	0.39	-
BURIAL GROUND 9	4	1.9	±0.27	0.27	±0.07	0.82	-
BURIAL GROUND 10	4	1.0	±0.19	0.57	±0.17	0.81	-
BURIAL GROUND 11	4	1.2	±0.19	0.0	±0.12	0.65	-
BURIAL GROUND 12	4	13	±1.0	0.0	±0.23	4.1	-
BURIAL GROUND 13	4	2.6	±0.48	0.0	±0.30	0.84	-
		Ce-141, 144, pCi/g					
BURIAL GROUND 1	4	0.0	±2.3	0.0	±0.92	0.0	-
BURIAL GROUND 2	4	0.0	±2.5	0.0	±0.60	0.0	-
BURIAL GROUND 3	4	0.0	±3.0	0.0	±0.65	0.0	-
BURIAL GROUND 4	4	0.0	±1.9	0.0	±1.2	0.0	-
BURIAL GROUND 5	4	0.0	±2.2	0.0	±0.63	0.0	-
BURIAL GROUND 6	4	0.0	±2.2	0.0	±1.0	0.0	-
BURIAL GROUND 7	4	0.0	±2.9	0.0	±0.66	0.0	-
BURIAL GROUND 8	4	0.0	±2.6	0.0	±0.59	0.0	-
BURIAL GROUND 9	4	0.0	±2.4	0.0	±0.96	0.0	-
BURIAL GROUND 10	4	0.0	±2.6	0.0	±1.4	0.0	-
BURIAL GROUND 11	4	0.0	±2.2	0.0	±0.63	0.0	-
BURIAL GROUND 12	4	32[a]	±2.2	0.0	±0.76	8.0	-
BURIAL GROUND 13	4	0.0	±2.2	0.0	±0.78	0.0	-

[a] Rerun results were 35±2.6.
- Insufficient data; mean not calculated for <5 samples.

TABLE 8-8
RADIOACTIVITY IN VEGETATION OUTSIDE THE RADIOACTIVE WASTE BURIAL GROUND, CONT'D.

Location	No. of Samples	Maximum	CT ERR 2σ or LLD	Minimum	CT ERR 2σ or LLD	Arithmetic Mean	2 Std Dev
			Sb-125, pCi/g				
BURIAL GROUND 1	4	0.0	±0.72	0.0	±0.31	0.0	-
BURIAL GROUND 2	4	0.0	±0.90	0.0	±0.18	0.0	-
BURIAL GROUND 3	4	0.0	±1.1	0.0	±0.30	0.0	-
BURIAL GROUND 4	4	0.0	±0.67	0.0	±0.36	0.0	-
BURIAL GROUND 5	4	0.0	±0.72	0.0	±0.24	0.0	-
BURIAL GROUND 6	4	0.0	±0.66	0.0	±0.46	0.0	-
BURIAL GROUND 7	4	0.0	±0.91	0.0	±0.34	0.0	
BURIAL GROUND 8	4	0.0	±0.98	0.0	±0.24	0.0	-
BURIAL GROUND 9	4	0.0	±0.79	0.0	±0.33	0.0	-
BURIAL GROUND 10	4	0.0	±0.83	0.0	±0.46	0.0	-
BURIAL GROUND 11	4	0.0	±0.70	0.0	±0.25	0.0	-
BURIAL GROUND 12	4	0.0	±0.94	0.0	±0.35	0.0	-
BURIAL GROUND 13	4	0.0	±0.56	0.0	±0.31	0.0	-
			I-131, pCi/g				
BURIAL GROUND 1	4	0.0	±16	0.0	±0.96	0.0	-
BURIAL GROUND 2	4	0.0	±9.8	0.0	±1.5	0.0	-
BURIAL GROUND 3	4	0.0	±17	0.0	±0.66	0.0	-
BURIAL GROUND 4	4	0.0	±12	0.0	±1.0	0.0	-
BURIAL GROUND 5	4	0.0	±12	0.0	±0.77	0.0	-
BURIAL GROUND 6	4	0.0	±22	0.0	±1.1	0.0	-
BURIAL GROUND 7	4	0.0	±17	0.0	±0.76	0.0	-
BURIAL GROUND 8	4	0.0	±16	0.0	±0.33	0.0	-
BURIAL GROUND 9	4	0.0	±24	0.0	±1.1	0.0	-
BURIAL GROUND 10	4	0.0	±15	0.0	±1.4	0.0	-
BURIAL GROUND 11	4	0.0	±12	0.0	±0.86	0.0	-
BURIAL GROUND 12	4	0.0	±17	0.0	±0.71	0.0	-
BURIAL GROUND 13	4	0.0	±19	0.0	±1.1	0.0	-

- Insufficient data; mean not calculated for <5 sample.

TABLE 8-9
RADIOACTIVITY IN RIVER AND STREAM SEDIMENT

Cs-137 pCi/g (dry weight) (0-8 cm depth)

Location	River Mile	1975-1984 Arithmetic Mean ± 2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	0.48 ± 0.64	0.78±0.05	-	-
Above Little Hell Landing	136.5	0.61 ± 0.76	0.37±0.06	0.43±0.06	0.25 ± 0.05
Below Little Hell Landing	134.0	2.1 ± 6.8	0.36±0.06	0.42±0.06	0.07 ± 0.04
Above Lower Three Runs	129.5	0.61 ± 0.72	0.21±0.03	0.62±0.07	0.74 ± 0.10
Highway 301	118.7	1.2 ± 2.6	0.99±0.06	0.57±0.06	0.29 ± 0.13
Control Above Plant Demier's Landing	160.5	0.29 ± 0.42	0.10±0.02	0.18±0.05	-
SRS Streams					
Four Mile at Road A-7		33 ±52	3.5 ±0.20	7.6 ±0.28	18 ± 1.9
Four Mile A-7A(in Beaver Pond)		41 ±22	1.9 ±0.19	32 ±0.66	262 ±14
Four Mile Discharge at Swamp		7.2 ±16	0.22±0.03	0.82±0.08	18 ± 1.0
Pen Branch Dischargeat Swamp		3.6 ± 7		2.7 ±0.34	2.3 ± 0.23
Steel Creek at Road B		32 ±46	0.29±0.04	2.4 ±0.18	4.0 ± 0.28
Steel Creek Discharge at Swamp		18 ±46	7.8 ±0.15	5.7 ±0.30	3.7 ± 0.22
Steel Creek - Pen Branch Mouth		12 ±44	4.6 ±0.25	4.6 ±0.34	2.7 ± 0.25
Lower Three Runs Mouth Control		3.6 ± 9	0.43±0.05	0.81±0.12	4.5 ± 0.30
Upper Three Runs Mouth		0.7 ± 1.2	0.46±0.08	0.37±0.05	0.50 ± 0.10

K-40 pCi/g (dry weight) (0-8 cm depth)

Location	River Mile	1982-1984 Arithmetic Mean ±2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	20 ±11	12 ±0.73	17 ±1.5	18 ± 1.6
Above Little Hell Landing	136.5	19 ±14	11 ±0.95	12 ±0.93	19 ± 1.7
Below Little Hell Landing	134.0	22 ±15	13 ±1.1	14 ±1.1	11 ± 1.2
Above Lower Three Runs	129.5	22 ±28	14 ±0.76	12 ±1.1	21 ± 1.9
Highway 301	118.7	19 ±14	15 ±0.79	12 ±0.93	20 ± 3.7
Control Above Plant Demier's Landing	160.5	19 ±15	11 ±0.60	13 ±1.1	20 ± 1.7
SRS Streams					
Four Mile at Road A-7		5.0 ±10	1.8 ±0.59	-	0.65 ± 0.31
Four Mile A-7A (in Beaver Pond)		8.0 ±18	-	-	4.2 ± 1.8
Four Mile Discharge at Swamp		6.0 ± 4	-	-	0.95 ± 0.36
Pen Branch Discharge at Swamp		5.0 ±13		5.7 ±2.0	11 ± 1.6
Steel Creek at Road B		5.0 ± 4	3.0 ±0.52	1.4 ±0.64	2.7 ± 0.62
Steel Creek Discharge at Swamp		8.0 ± 2	2.0 ±0.33	4.0 ±1.0	12 ± 1.6
Steel Creek - Pen Branch Mouth		0.0 ± 6	13 ±1.6	4.7 ±1.6	11 ± 1.7
Lower Three Runs Mouth Control		18 ±31	7.8 ±0.75	16 ±1.7	18 ± 1.6
Upper Three Runs Mouth		24 ± 1	8.8 ± 1.1	10 ±0.91	13 ± 1.5

[a] The ± value is the 2σ counting error.

- Less than minimum detectable concentration.

NOTE: Data for 1985 can be found in the Environmental Report for 1987.

TABLE 8-9
RADIOACTIVITY IN RIVER AND STREAM SEDIMENT, CONT'D.

Location	River Mile	Co-60, pCi/g (dry weight) (0-8 cm depth) 1977-1984 Arithmetic Mean ±2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	0.18± 0.64	-	-	-
Above Little Hell Landing	136.5	0.13± 0.46	-	-	-
Below Little Hell Landing	134.0	0.2 ± 0.74	-	-	-
Above Lower Three Runs	129.5	0.18± 0.64	-	-	-
Highway 301	118.7	0.18± 0.64	-	-	-
Control Above Plant					
Demier's Landing	160.5	0.15± 0.56	-	-	-
SRS Streams					
Four Mile at Road A-7		0.9 ± 1.8	-	-	6.3 ± 0.38
Four Mile A-7A (in Beaver Pond)		0.95± 0.42	-	0.77 ± 0.14	6.3 ± 0.38
Four Mile Discharge at Swamp		2.0 ± 2.5	-	0.07 ± -0.03	0.38 ± 0.05
Pen Branch Discharge at Swamp		2.5 ± 6.6	-	1.8 ± 0.31	2.2 ± 0.16
Steel Creek at Road B		4.5 ±19	-	-	0.12 ± 0.03
Steel Creek Discharge at Swamp		2.2 ± 5	0.22 ± 0.03	1.1 ± 0.16	3.6 ± 0.21
Steel Creek - Pen Branch Mouth		0.18± 0.5	-	1.8 ± 0.28	2.2 ± 0.71
Lower Three Runs Mouth		0.11± 0.52	-	-	-
Control					
Upper Three Runs Mouth		0.55± 0.21	-	-	-

Location	River Mile	Sr-90, pCi/g (dry weight) (0-8 cm depth) 1976-1984 Arithmetic Mean ±2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	0.06± 0.14	0.03±0.04	0.02 ±0.04	0.25 ± 0.04
Above Little Hell Landing	136.5	0.07± 0.10	0.01±0.04	0.06 ±0.05	0.03 ± 0.02
Below Little Hell Landing	134.0	0.13± 0.12	0.02±0.04	0.0 ±0.05	0.02 ± 0.02
Above Lower Three Runs	129.5	0.08± 0.08	0.05±0.04	0.04 ±0.04	0.05 ± 0.02
Highway 301	118.7	0.09± 0.14	0.04±0.04	0.03 ±0.05	0.05 ± 0.02
Control Above Plant					
Demier's Landing	160.5	0.07± 0.08	0.02±0.04	0.03 ±0.04	0.01 ± 0.02
SRS Streams					
Four Mile at Road A-7		5.8 ±13	0.23±0.06	0.20 ± 0.15	0.42 ± 0.72
Four Mile A-7A (in Beaver Pond)		3.4 ± 3.8	0.01±0.04	0.98 ± 0.22	3.0 ± 0.14
Four Mile Discharge at Swamp		0.39± 0.42	0.15±0.05	0.32 ± 0.14	0.04 ± 0.02
Pen Branch Discharge at Swamp		0.14± 0.18	-0.01±0.04	-	0.05 ± 0.02
Steel Creek at Road B		0.2 ± 0.62	0.07±0.05	0.06 ± 0.14	0.04 ± 0.02
Steel Creek Discharge at Swamp		0.16± 0.28	0.01±0.04	0.02 ± 0.14	0.05 ± 0.02
Steel Creek - Pen Branch Mouth		0.15± 0.18	0.16±0.05	-0.01 ± 0.14	0.07 ± 0.02
Lower Three Runs Mouth		0.08± 0.18	-0.01±0.04	0.025± 0.14	0.02 ± 0.02
Control					
Upper Three Runs Mouth		0.22± 0.22	0.22±0.06	0.02 ± 0.04	0.05 ± 0.02

[a] The ± value is the 2σ counting error.

- No analysis performed.

- Less than minimum detectable concentration of 0.02 pCi/g for ^{60}Co

NOTE: Data for 1985 cam be found in the Environmental Report for 1987.

TABLE 8-9
RADIOACTIVITY IN RIVER AND STREAM SEDIMENT, CONT'D.

Pu-238, pCi/g (dry weight) (0-8 cm depth)

Location	River Mile	1975-1984 Arithmetic Mean ± 2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	0.001±0.004	0.0002±0.0008	<0.0009	0.0110± 0.0027
Above Little Hell Landing	136.5	0.002±0.002	0.0003±0.0008	<0.006	0.0197± 0.0051
Below Little Hell Landing	134.0	0.002±0.006	0.0006±0.0005	<0.006	0.011 ± 0.003
Above Lower Three Runs	129.5	0.002±0.002	0.0006±0.0006	<0.002	0.042 ± 0.007
Highway 301	118.7	0.002±0.002	0.0002±0.0005	<0.002	0.060 ± 0.008
Control Above Plant Demier's Landing	160.5	0.002±0.002	0.0002±0.0002	<0.002	0.024 ± 0.003
SRS Streams					
Four Mile at Road A-7		0.37 ±0.74	0.036 ±0.003	0.074 ±0.006	0.400 ± 0.012
Four Mile A-7A (in Beaver Pond)		0.2 ±0.0	0.022 ±0.003	0.66 ±0.01	2.49 ± 0.049
Four Mile Discharge at Swamp		0.078±0.17	0.002 ±0.001	0.003 ±0.0008	0.007 ± 0.001
Pen Branch Discharge at Swamp		0.011±0.14	0.0002±0.0009	0.024 ±0.002	0.0205± 0.0027
Steel Creek at Road B		0.032±0.039	0.0008±0.0006	0.043 ±0.004	0.009 ± 0.002
Steel Creek Discharge at Swamp		0.045±0.11	0.022 ±0.003	0.012 ±0.002	0.079 ± 0.004
Steel Creek - Pen Branch Mouth		0.002±0.002	0.0008±0.0005	0.05 ±0.01	0.035 ± 0.004
Lower Three Runs Mouth		0.007±0.030	0.0005±0.0009	0.02 ±0.0	0.264 ± 0.0039
Control Upper Three Runs Mouth		0.003±0.004	0.003 ±0.002	<0.003	0.034 ± 0.005

Pu-239, pCi/g (dry weight) (0-8 cm depth)

Location	River Mile	1975-1984 Arithmetic Mean ± 2 Std Dev	1986[a]	1987[a]	1988[a]
Savannah River					
Below Four Mile Creek	150.2	0.002±0.002	0.0008±0.001	0.002 ±0.001	0.0050 ± 0.0018
Above Little Hell Landing	136.5	0.006±0.008	0.0018±0.0014	0.027 ±0.007	0.0093 ± 0.0038
Below Little Hell Landing	134.0	0.011±0.034	0.0008±0.0005	0.026 ±0.007	0.005 ± 0.002
Above Lower Three Runs	129.5	0.003±0.004	0.002 ±0.0008	0.004 ±0.002	0.005 ± 0.003
Highway 301	118.7	0.003±0.004	0.002 ±0.007	0.006 ±0.002	0.002 ± 0.002
Control Above Plant Demier's Landing	160.5	0.003±0.004	0.0005±0.0003	0.016 ±0.003	0.004 ± 0.001
SRS Streams					
Four Mile at Road A-7		0.23 ±0.66	0.016 ±0.002	0.046 ±0.005	0.150 ± 0.007
Four Mile A-7A (in Beaver Pond)		0.19 ±0.084	0.011 ±0.002	0.23 ±0.01	0.755 ± 0.027
Four Mile Discharge at Swamp		0.046±0.09	0.001 ±0.0008	0.002 ±0.0007	0.007 ± 0.001
Pen Branch Discharge at Swamp		0.02 ±0.034	0.0004±0.0008	0.018 ±0.002	0.0235 ± 0.0012
Steel Creek at Road B		0.04 ±0.1	0.004±0.002	0.046 ±0.005	0.012 ± 0.007
Steel Creek Discharge at Swamp		0.031±0.04	0.015±0.002	0.010 ±0.001	0.176 ± 0.007
Steel Creek - Pen Branch Mouth		0.002±0.002	0.002±0.0006	0.04 ±0.009	0.036 ± 0.004
Lower Three Runs Mouth		0.01 ±0.029	0.0012±0.003	0.02 ±0.0	0.0136 ± 0.0025
Control Upper Three Runs Mouth		0.015±0.024	0.009 ±0.003	0.0116±0.004	0.052 ± 0.006

[a] The ± value is the 2σ counting error.

- No analysis performed.

NOTE: Data for 1985 can be found in the Environmental Report for 1987.

Chapter 9

Special Surveys and Nonroutine Occurrences

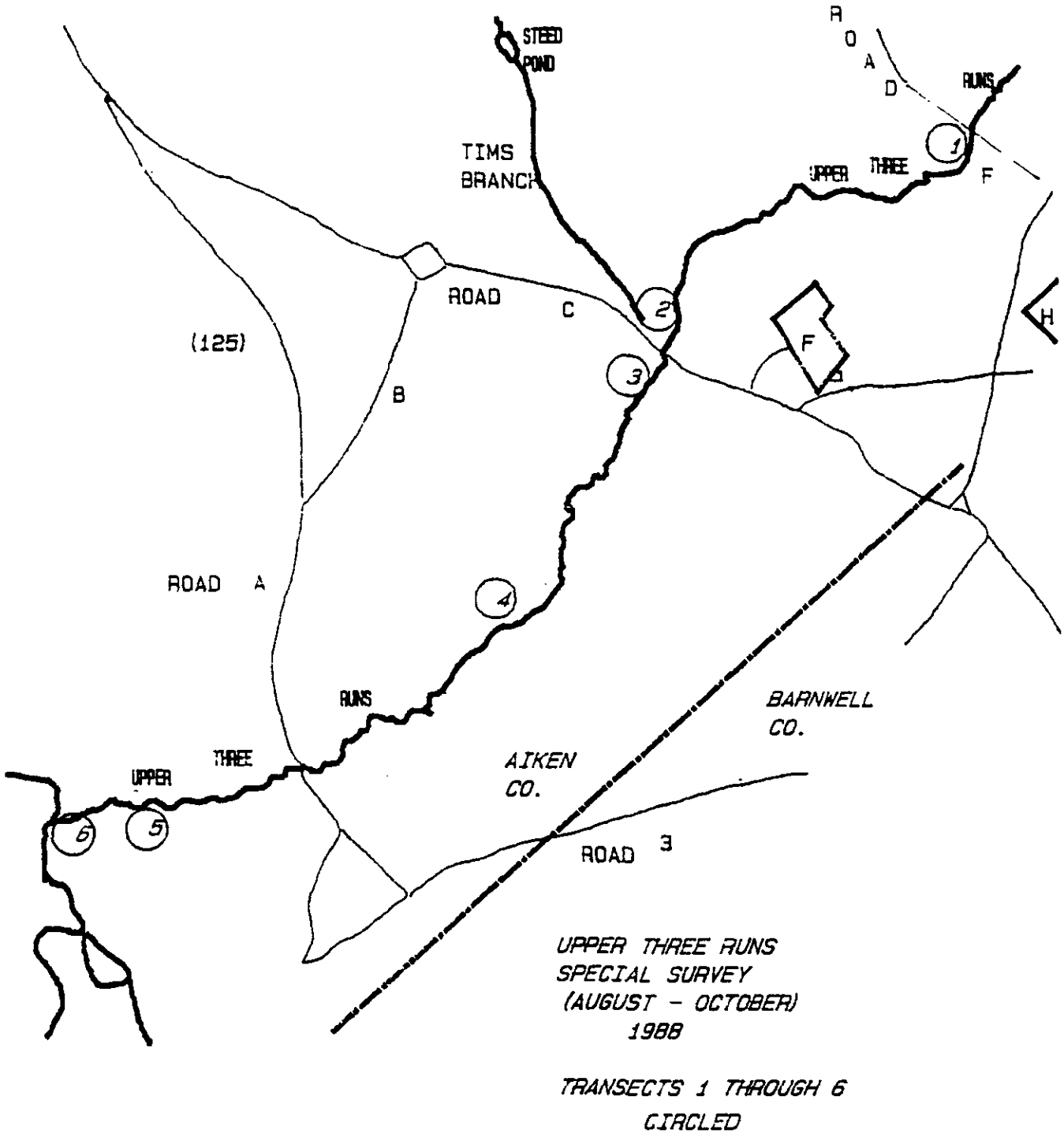


Figure 9-1. Monitoring locations on Upper Three Runs Creek

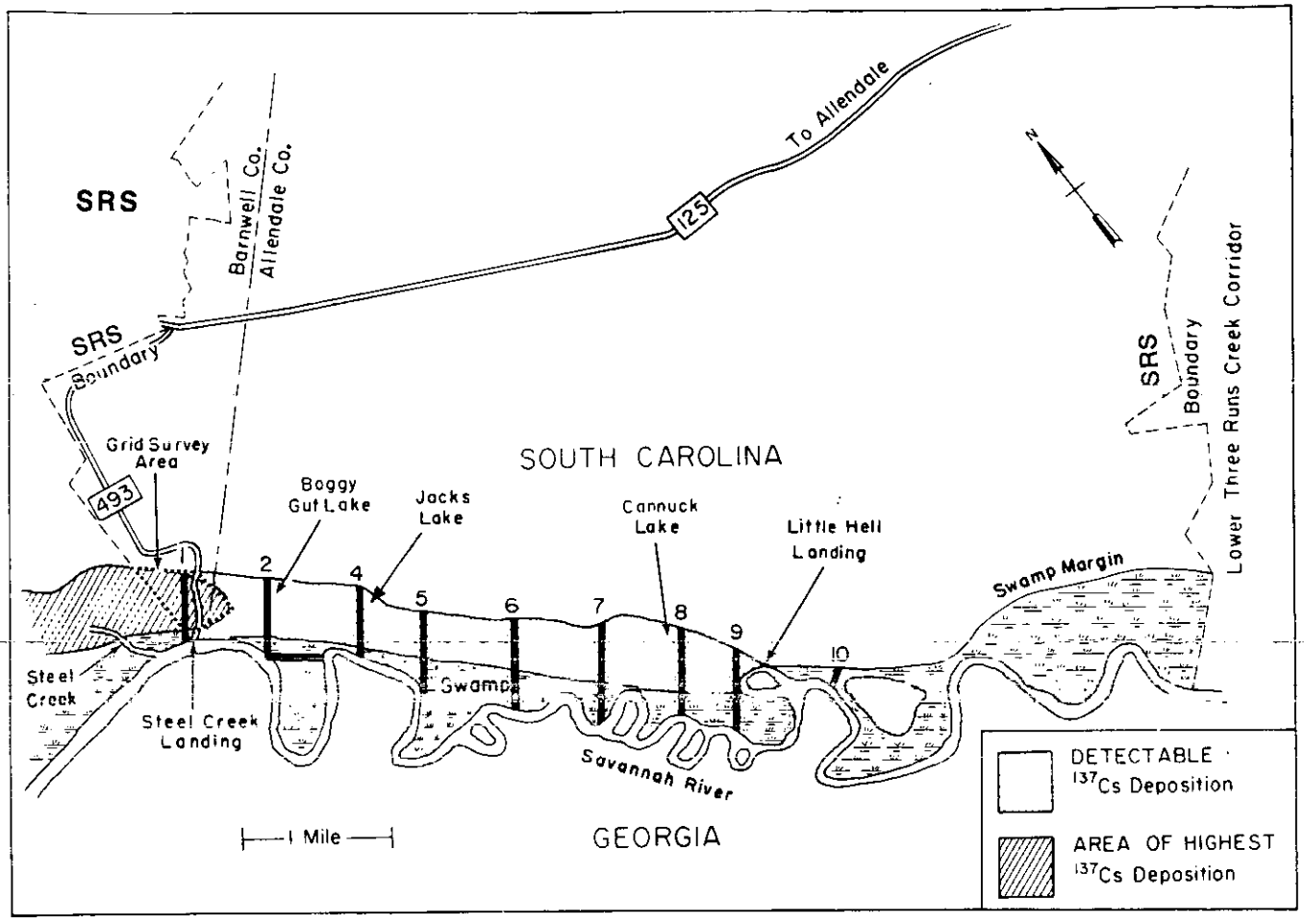


Figure 9-2. Monitoring trails in the Savannah River Swamp

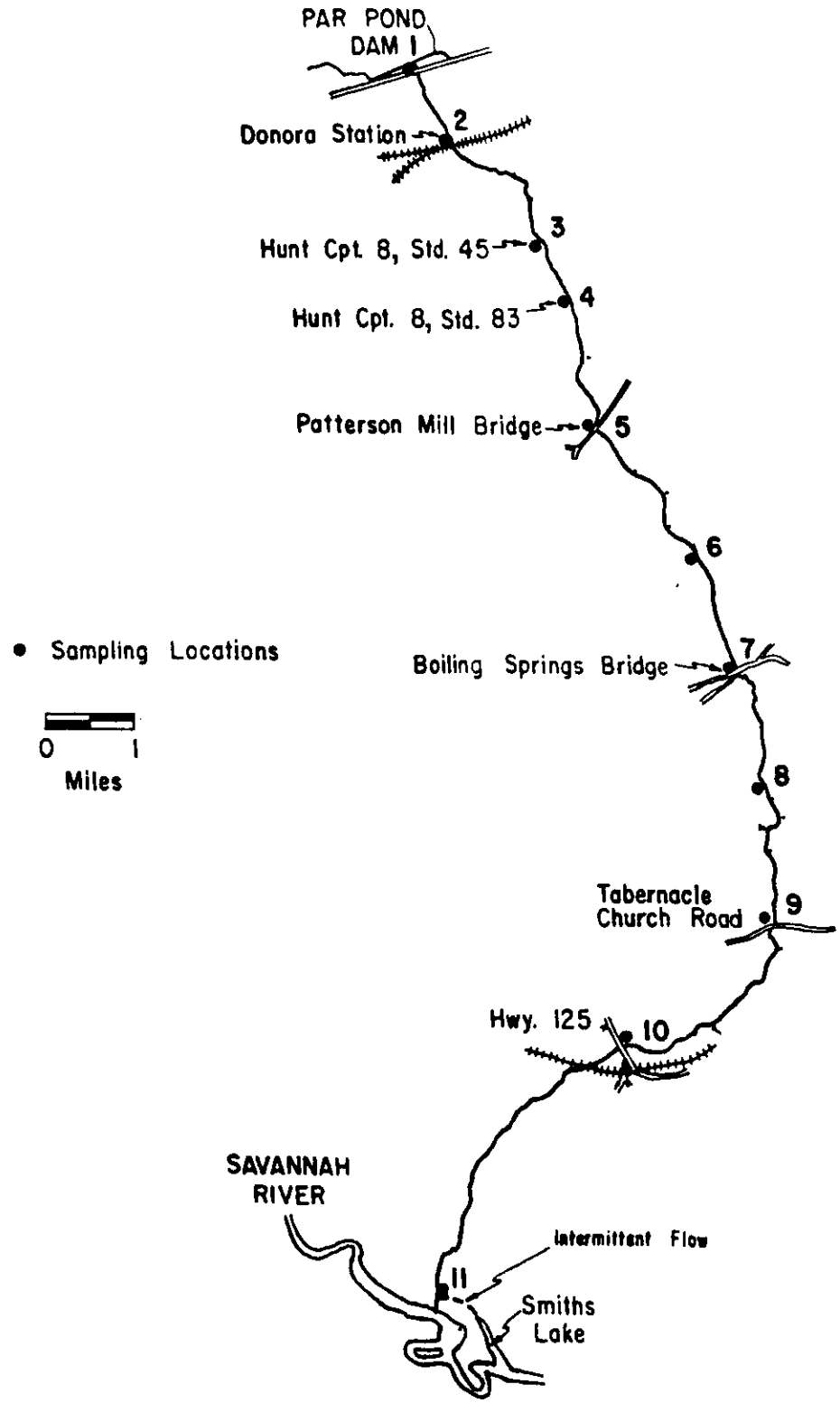


Figure 9-3. Lower Three Runs monitoring stations

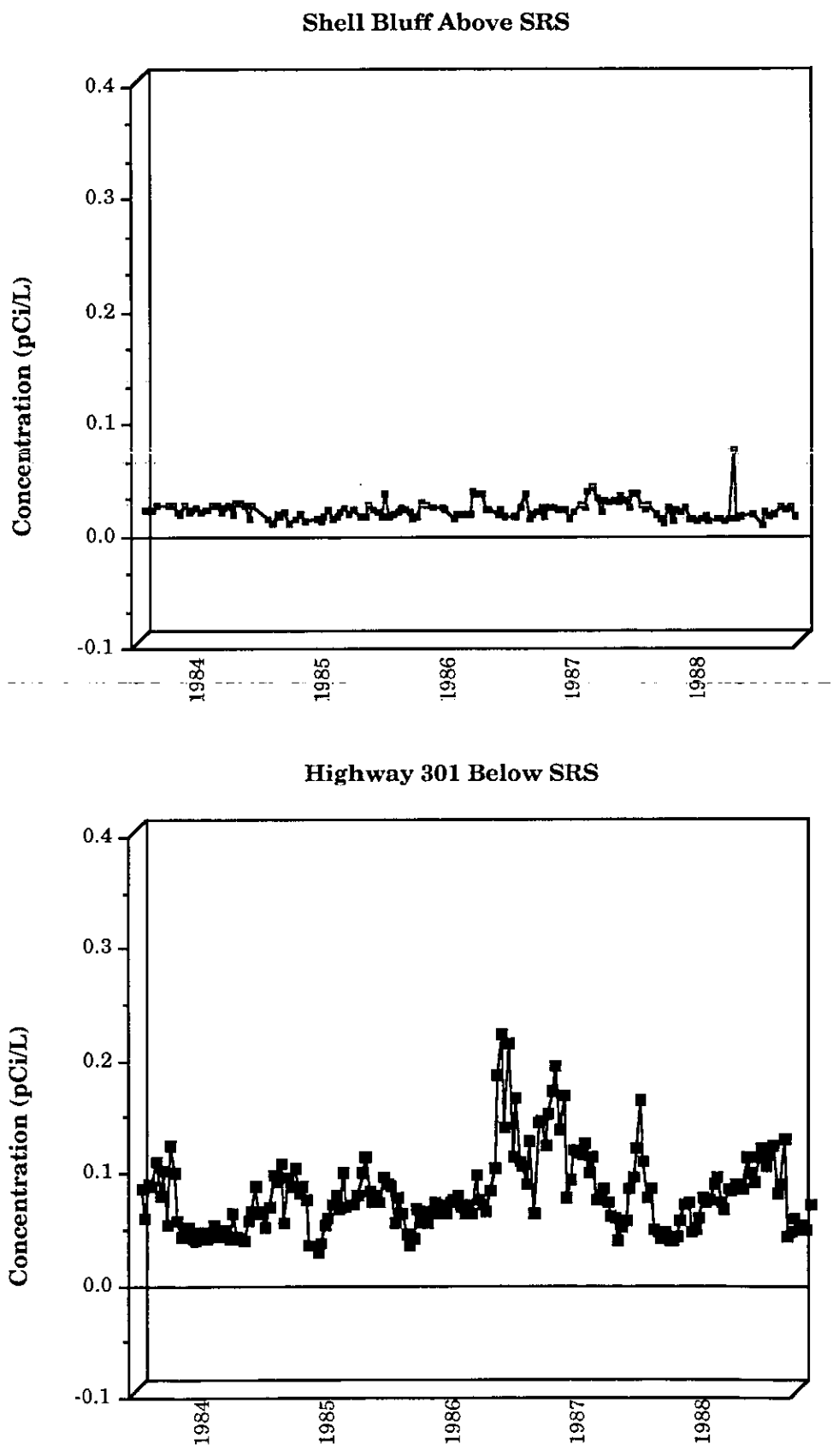


Figure 9-4. Cesium-137 in the Savannah River 1984-1988

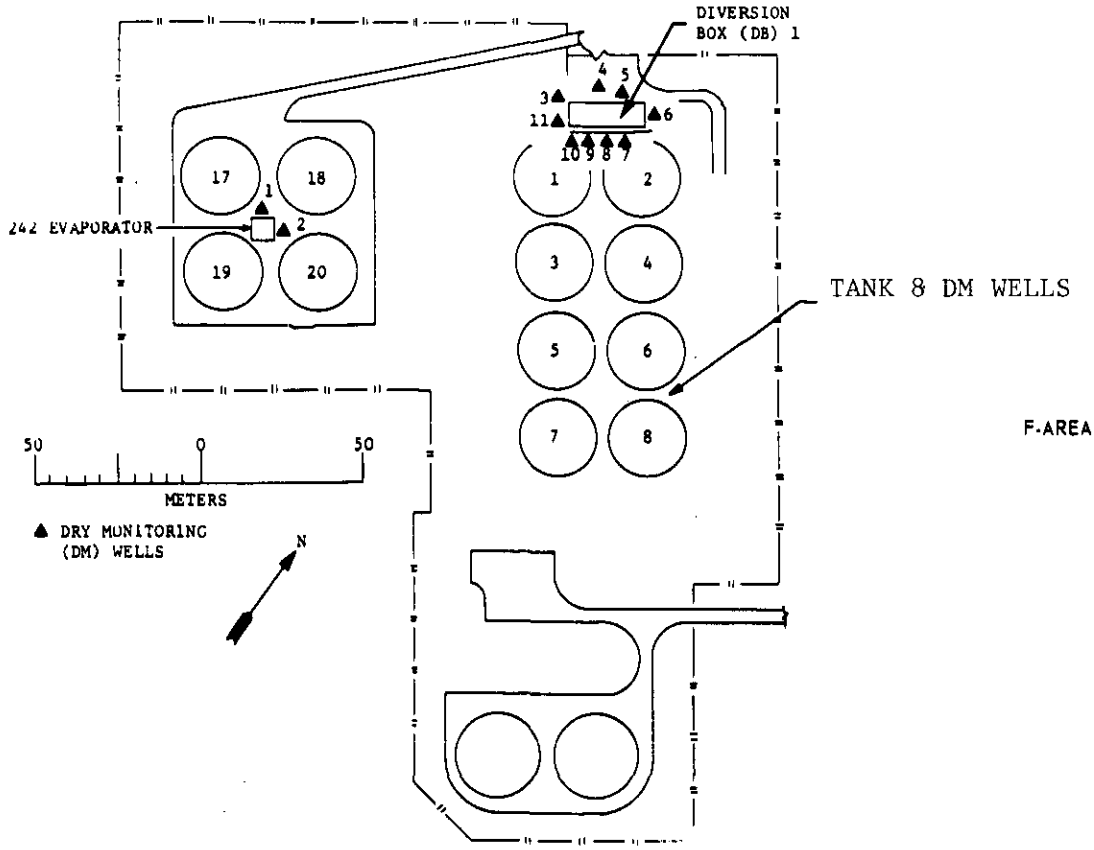


Figure 9-5. F-Area Tank Farm Dry Monitoring Wells

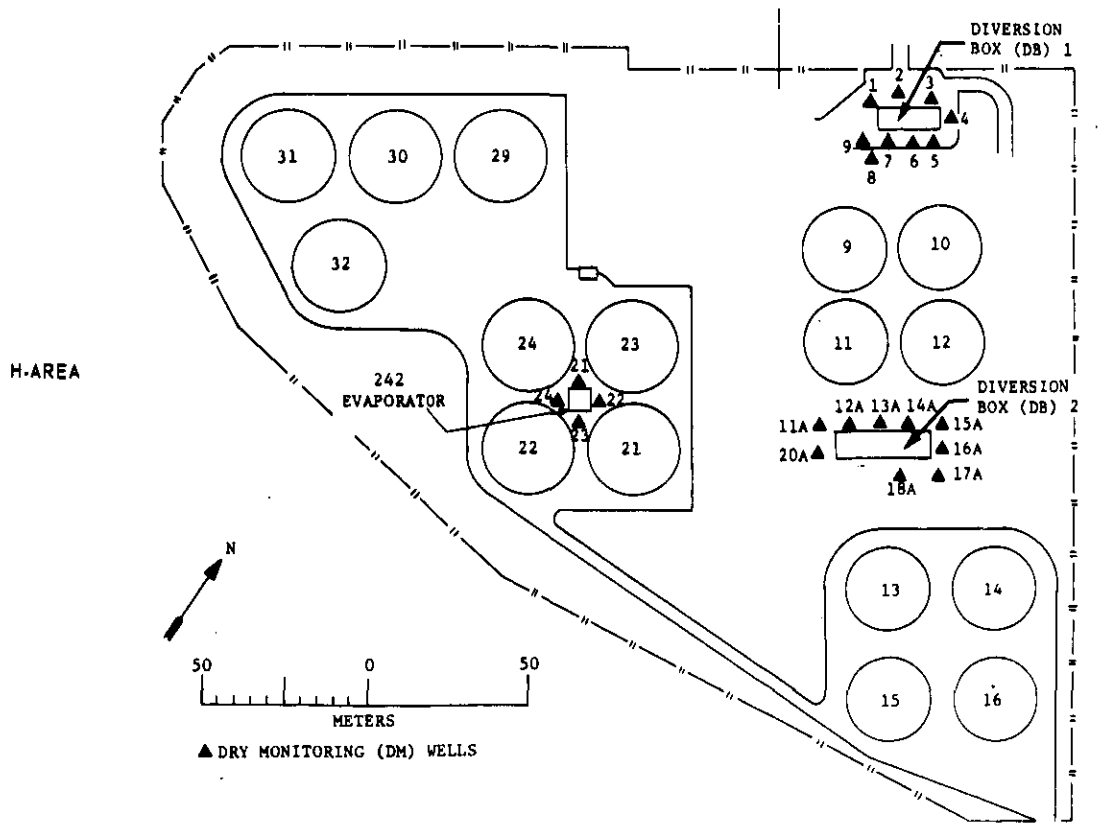


Figure 9-6. H-Area Tank Farm Dry Monitoring Wells

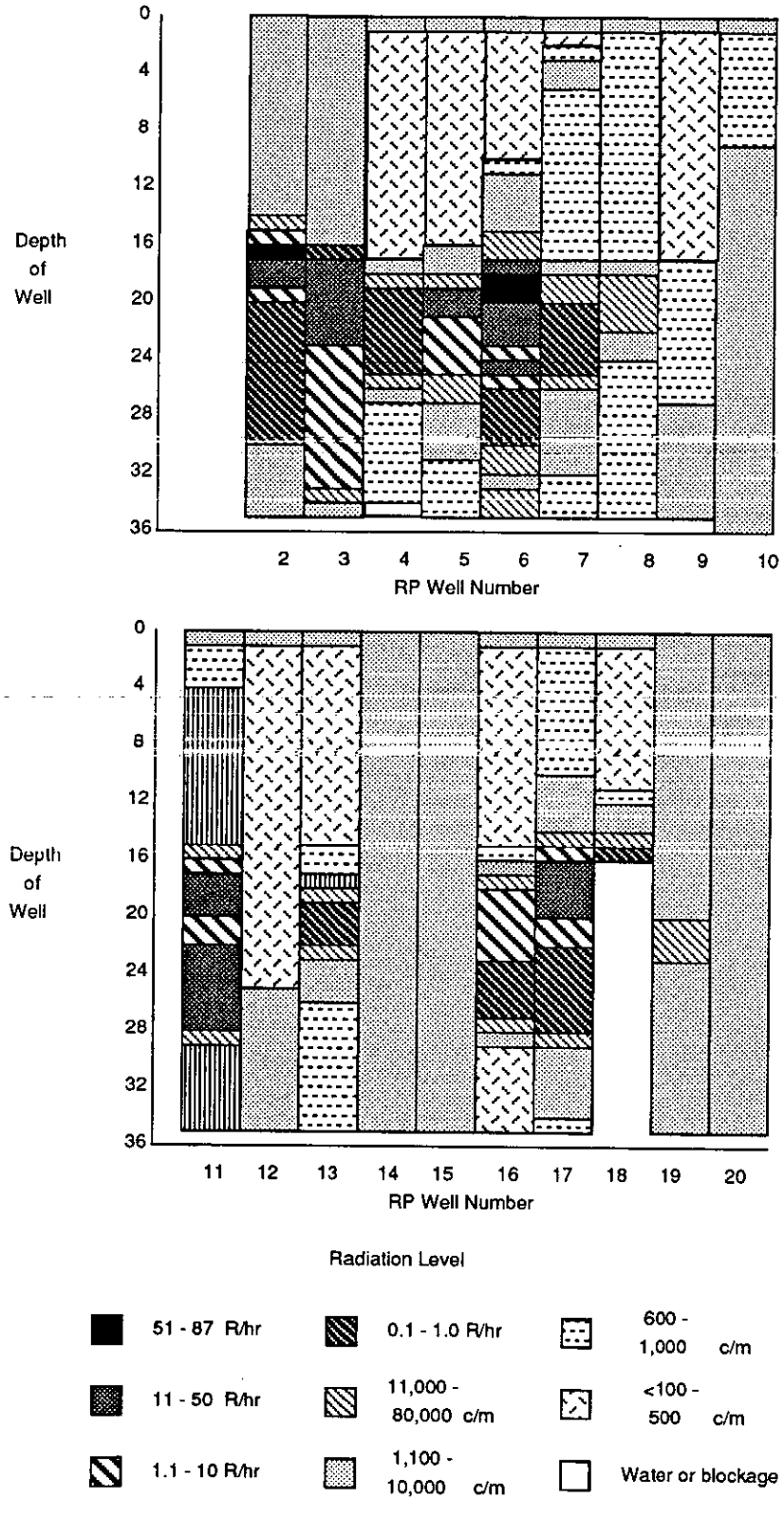


Figure 9-7. Radiation Levels in F-Area Tank Farm Dry Monitoring Wells

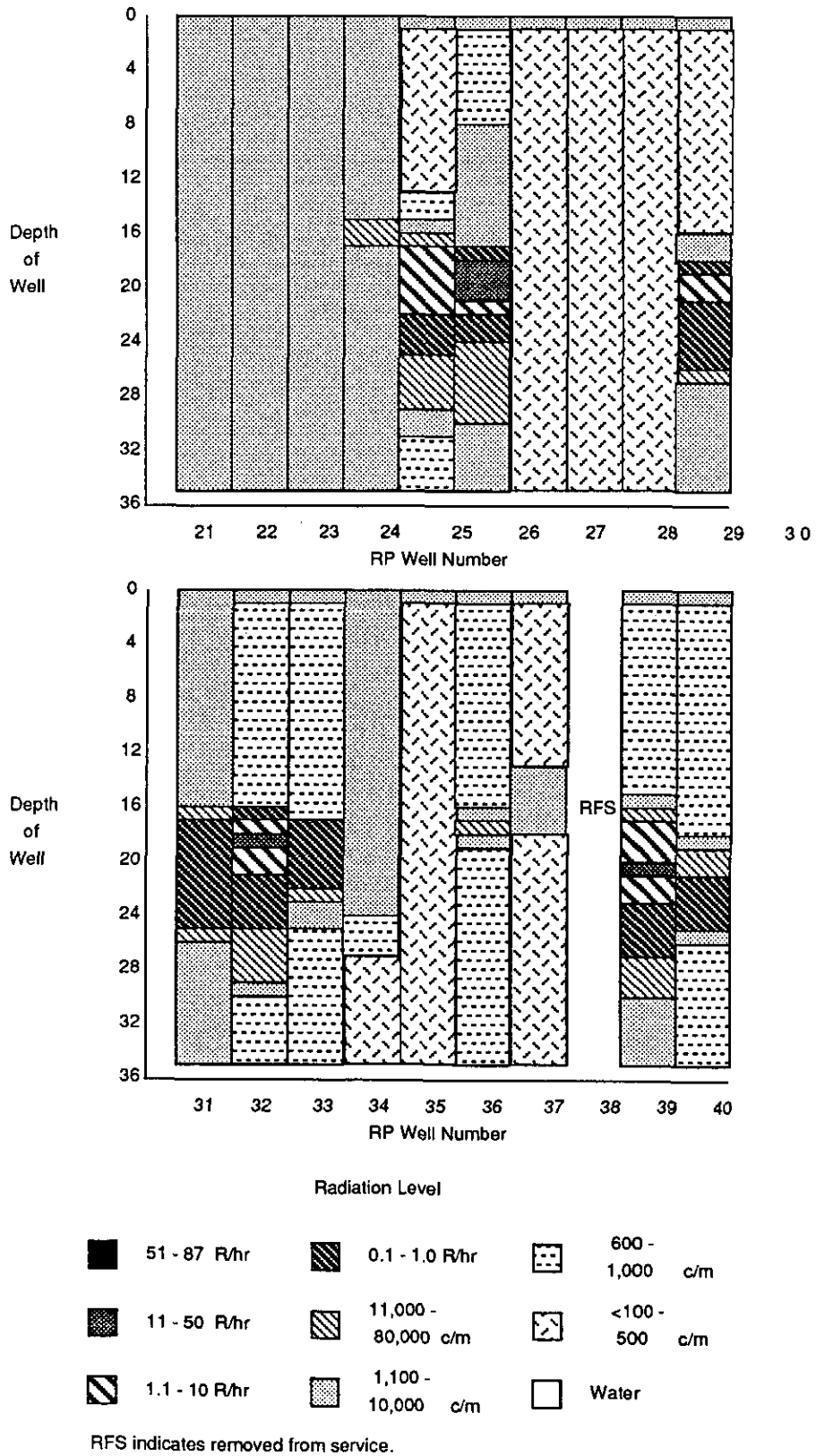
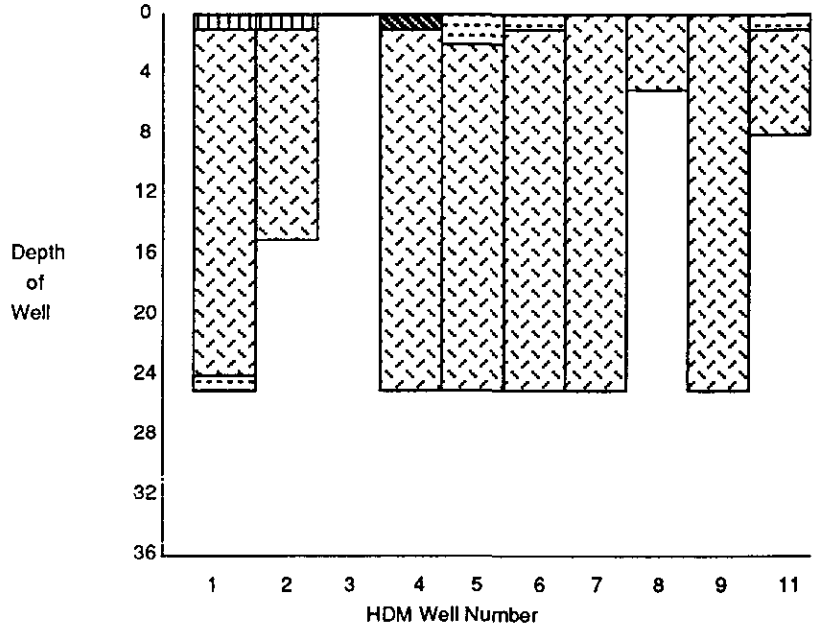


Figure 9-7. Radiation Levels in F-Area Tank Farm Dry Monitoring Wells, CONT'D.



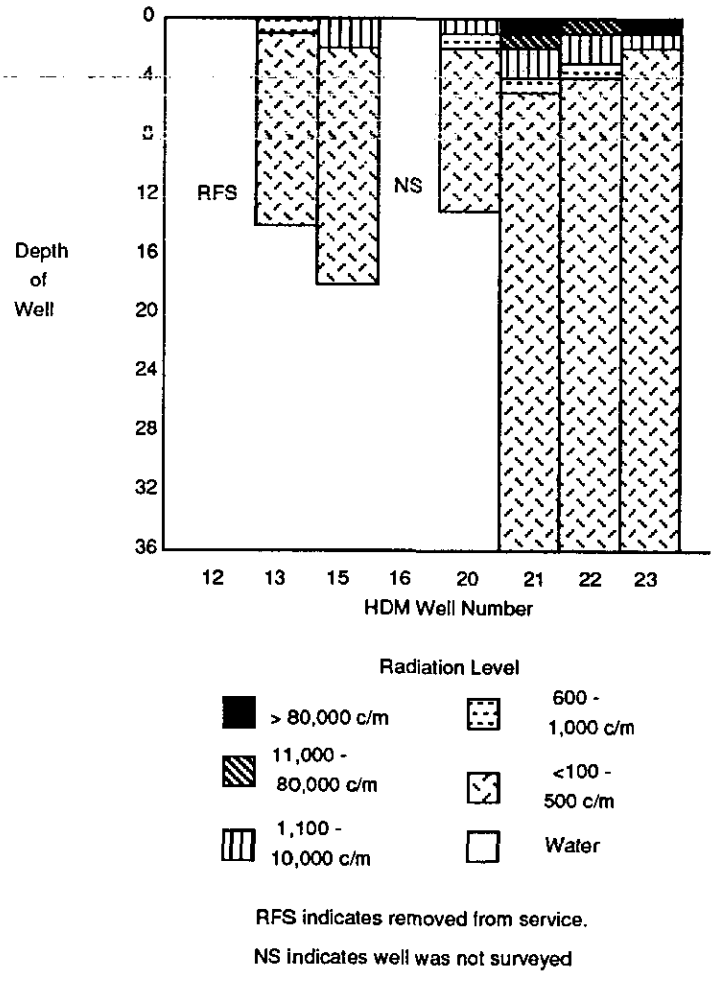


Figure 9-8. Radiation Levels in H-Area Tank Farm Dry Monitoring Wells

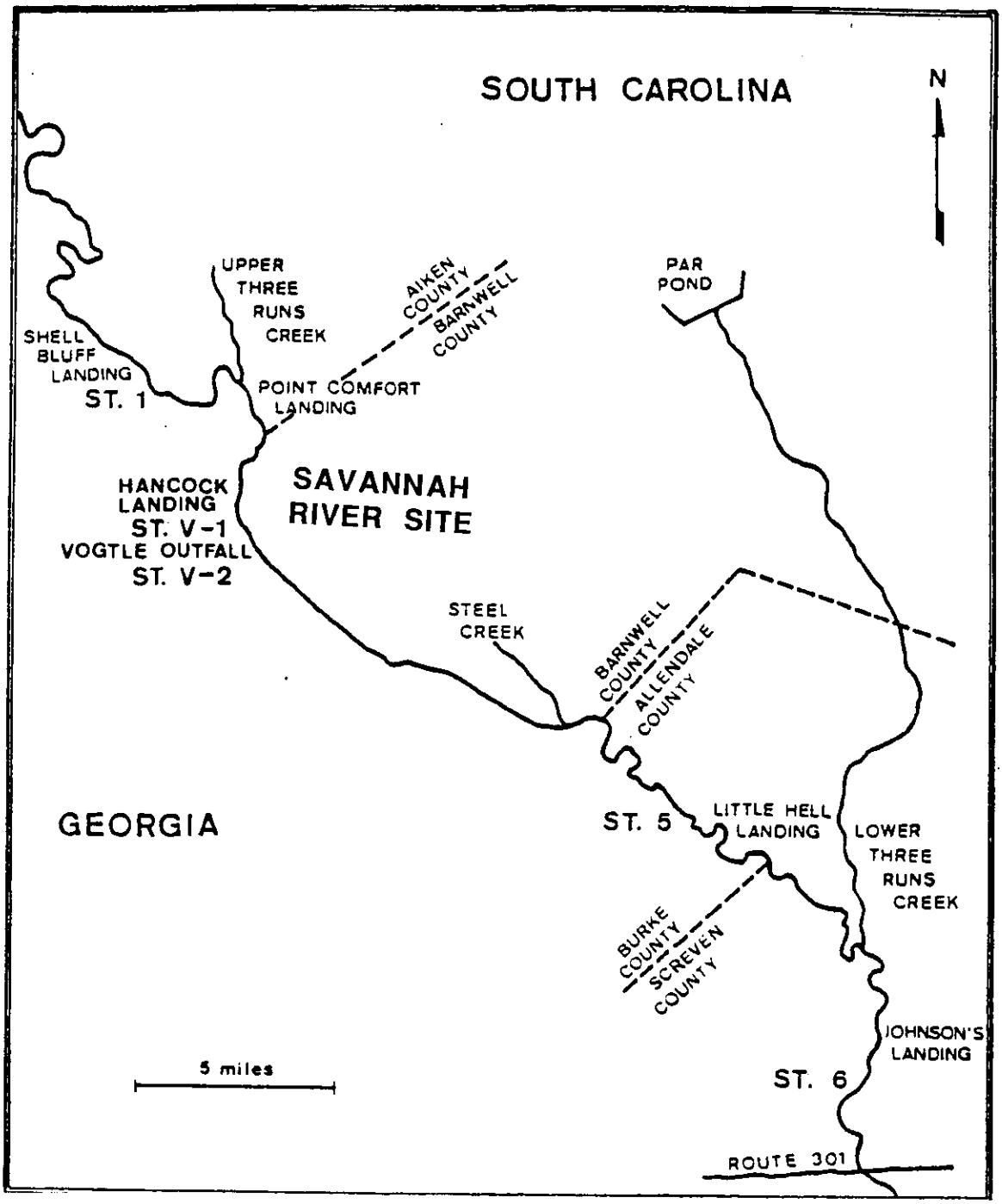


Figure 9-9. Academy of Natural Sciences of Philadelphia Sample Locations

TABLE 9-1
CHEMICAL CESIUM CONCENTRATION IN FOUR MILE CREEK FOLLOWING JULY 8, 1988 H-AREA RETENTION BASIN DISCHARGE

Stream Sample Four Mile Creek-2

Month	1988 Concentration pCi/L
January	6.40
February	6.07
March	9.43
April	11.60
May	4.98
June	10.53
July	120.57
August	46.47
September	21.90
October	13.73

The 1987 maximum concentration of chemical cesium at the Four Mile Creek-2 location was 23.24 pCi/L.

Stream Sample Four Mile Creek-6

Month	1988 Concentration pCi/L
January	2.54
February	2.69
March	6.16
April	5.24
May	4.66
June	1.83
July	2.18
August	7.07
September	8.88
October	4.66

The 1987 maximum concentration of chemical cesium at the Four Mile Creek-6 location was 5.68 pCi/L.

TABLE 9-2
UPPER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN SOIL

Location (Transect)	Collected Date	Pu-238 (pCi/g)	Pu-239 (pCi/g)	Cs-137 (pCi/g)
1-North Side Flood Plain	08/03/88	0.037 ± 0.002	0.233 ± 0.005	8.11 ± 0.66
1-South Side Flood Plain	08/04/88	0.037 ± 0.002	0.069 ± 0.003	1.34 ± 0.16
1-North Side Creek Bank	08/03/88	0.005 ± 0.001	0.003 ± 0.001	0.16 ± 0.08
1-South Side Creek Bank	08/04/88	0.012 ± 0.001	0.002 ± 0.006	0.00 ± 0.15
2-North Side Flood Plain	08/10/88	0.045 ± 0.004	0.129 ± 0.006	3.25 ± 0.42
2-South Side Flood Plain	08/11/88	0.010 ± 0.001	0.117 ± 0.001	0.79 ± 0.10
2-North Side Creek Bank	08/10/88	0.050 ± 0.008	0.143 ± 0.014	0.00 ± 0.15
2-South side Creek Bank	08/11/88	0.040 ± 0.005	0.003 ± 0.001	0.00 ± 0.13
3-North Side Flood Plain	08/18/88	0.009 ± 0.001	0.041 ± 0.002	0.93 ± 0.10
3-South Side Flood Plain	08/19/88	0.058 ± 0.002	0.130 ± 0.003	1.69 ± 0.20
3-North Side Creek Bank	08/18/88	0.008 ± 0.001	0.020 ± 0.001	0.20 ± 0.11
3-South Side Creek Bank	08/19/88	0.018 ± 0.001	0.007 ± 0.001	0.00 ± 0.16
4-North Side Flood Plain	09/07/88	-	-	0.53 ± 0.11
4-South Side Flood Plain	08/31/88	0.012 ± 0.001	0.026 ± 0.002	0.78 ± 0.10
4-North Side Creek Bank	09/07/88	-	-	1.35 ± 0.18
4-South Side Creek Bank	08/31/88	0.004 ± 0.001	0.009 ± 0.001	0.00 ± 0.30
5-North Side Flood Plain	08/24/88	0.009 ± 0.001	0.033 ± 0.002	0.24 ± 0.05
5-South Side Flood Plain	09/19/88	0.038 ± 0.002	0.019 ± 0.001	1.43 ± 0.16
5-North Side Creek Bank	08/24/88	0.006 ± 0.001	0.020 ± 0.001	0.00 ± 0.15
5-South Side Creek Bank	09/19/88	0.022 ± 0.001	0.013 ± 0.001	0.00 ± 0.20
6-North Side Flood Plain	09/21/88	0.024 ± 0.001	0.037 ± 0.002	1.73 ± 0.16
6-South Side Flood Plain	09/21/88	-	-	1.52 ± 0.14
6-North Side Creek Bank	09/21/88	-	-	0.71 ± 0.13
6-South Side Creek Bank	09/21/88	0.077 ± 0.001	0.109 ± 0.003	0.61 ± 0.13

Note: For transect locations, see Figure 9-1, Vol. II.
- indicates no analysis.

TABLE 9-3
UPPER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN VEGETATION

Location (Transect)	Collected Date	Tritium (pCi/mL)	Sr-89,90 (pCi/g)	Cs-137 (pCi/g)
1-North Side Flood Plain	08/03/88	43.40 ± 1.00	0.38 ± 0.29	1.25 ± 0.20
1-South Side Flood Plain	08/04/88	18.33 ± 0.50	0.15 ± 0.26	3.62 ± 0.37
1-North Side Creek Bank	08/03/88	56.32 ± 1.26	3.07 ± 0.63	12.60 ± 1.15
1-South Side Creek Bank	08/04/88	15.16 ± 0.44	0.24 ± 0.28	3.28 ± 0.60
2-North Side Flood Plain	08/10/88	14.86 ± 0.43	3.69 ± 0.66	15.49 ± 1.35
2-South Side Flood Plain	08/11/88	15.29 ± 0.32	0.14 ± 0.27	5.27 ± 0.55
2-North Side Creek Bank	08/10/88	11.75 ± 0.37	0.16 ± 0.22	1.17 ± 0.20
2-South Side Creek Bank	08/11/88	14.87 ± 0.43	0.30 ± 0.37	-
3-North Side Flood Plain	08/18/88	6.96 ± 0.30	1.38 ± 0.40	14.33 ± 1.02
3-South Side Flood Plain	08/19/88	8.99 ± 0.34	0.30 ± 0.56	0.71 ± 0.16
3-North Side Creek Bank	08/18/88	9.94 ± 0.35	0.52 ± 0.35	1.40 ± 0.32
3-South Side Creek Bank	08/19/88	4.81 ± 0.26	0.03 ± 0.39	1.65 ± 0.27
4-North Side Flood Plain	09/07/88	4.18 ± 0.25	0.10 ± 0.16	1.50 ± 0.25
4-South Side Flood Plain	08/31/88	14.13 ± 0.44	0.23 ± 0.18	-
4-North Side Creek Bank	09/07/88	2.12 ± 0.21	0.10 ± 0.16	7.38 ± 0.64
4-South Side Creek Bank	08/31/88	11.95 ± 0.39	0.04 ± 0.15	1.65 ± 0.20
5-North Side Flood Plain	08/24/88	2.83 ± 0.22	0.00 ± 0.37	0.61 ± 0.12
5-South Side Flood Plain	09/19/88	1.66 ± 0.16	0.36 ± 0.25	2.29 ± 0.37
5-North Side Creek Bank	08/24/88	2.62 ± 0.22	0.02 ± 0.15	1.63 ± 0.19
5-South Side Creek Bank	09/19/88	1.32 ± 0.19	0.19 ± 0.18	1.17 ± 0.25
6-North Side Flood Plain	09/21/88	2.90 ± 0.22	0.03 ± 0.20	0.40 ± 0.12
6-South Side Flood Plain	09/21/88	2.96 ± 0.22	0.36 ± 0.25	0.00 ± 0.60
6-North Side Creek Bank	09/21/88	1.72 ± 0.20	0.14 ± 0.18	0.62 ± 0.16\
6-South Side Creek Bank	09/21/88	1.67 ± 0.20	0.36 ± 0.25	1.25 ± 0.19

Note: For transect locations, see Figure 9-1, Vol. II.
- indicates no analysis.

TABLE 9-4
UPPER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN TIMBER

Location (Transect)	Collected Date	Tritium (pCi/mL)	Cs-137 (pCi/g)
1-North Side	08/04/88	6.74 ± 0.28	0.61 ± 0.13
1-South Side	08/03/88	10.95 ± 0.36	0.14 ± 0.09
2-North Side	08/10/88	5.72 ± 0.26	0.18 ± 0.08
2-South Side	08/11/88	6.71 ± 0.28	0.32 ± 0.10
3-North Side	08/19/88	6.34 ± 0.27	0.30 ± 0.10
3-South Side	08/19/88	12.12 ± 0.38	0.00 ± 0.26
4-North Side	09/07/88	5.79 ± 0.26	0.75 ± 0.15
4-South Side	08/31/88	6.89 ± 0.29	0.42 ± 0.12
5-South Side	09/19/88	3.20 ± 0.21	0.00 ± 0.34
6-North Side	09/21/88	3.41 ± 0.22	0.00 ± 0.38
6-South Side	09/21/88	5.03 ± 0.25	0.00 ± 0.37

TABLE 9-5
UPPER THREE RUNS SPECIAL SURVEY, TLD MEASUREMENTS

Location (Transect)	Exposure Period	Measurement (mR/day)
1	9/28/88-10/26/88	0.20 ± 0.04
2	9/28/88-10/26/88	0.22 ± 0.04
3	9/28/88-10/26/88	0.20 ± 0.04
4	9/28/88-10/26/88	0.19 ± 0.03
5	9/28/88-10/26/88	0.31 ± 0.06
6	9/28/88-10/26/88	0.25 ± 0.04

Note: For transect locations, see Figure 9-1, Vol. II.

TABLE 9-6
UPPER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN AQUATIC SPECIES

Type Sample	Location (Transect)	Collected Date	Cs-137 (pCi/g)
Fish	6	10/19/88	0.04 ± 0.01
	6	10/19/88	0.02 ± 0.01
	6	10/19/88	0.05 ± 0.02
	6	10/19/88	0.04 ± 0.01
Clams	2	09/30/88	0.00 ± 0.21
	4	10/20/88	0.00 ± 0.41
Snails	1	10/24/88	0.00 ± 0.13
	2	09/30/88	0.00 ± 0.04
	4	10/20/88	0.00 ± 0.11
	6	09/30/88	0.00 ± 0.04

Note: For transect locations, see Figure 9-1, Vol.II.

TABLE 9-7
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, STRONTIUM-90 AND CESIUM-137 IN SOIL[a]

River Mile	Trail Number	Distance From River (Meters)	Cs-137, pCi/g (dry weight) 1977 0-8 cm	1982 0-8 cm	1985 0-8 cm	1986 0-8 cm	1987 0-8 cm	1988 0-8 cm
141.5	1	0						
		178	18	13 ± 0.36	19 ± 0.5	24 ± 0.33	13 ± 0.8	14 ± 0.74
		358						
		550	100	110 ± 0.95	114 ± 0.9	135 ± 1.0	178 ± 9.7	92 ± 4.2
		656						
		805	1	0.57 ± 0.07	0.6 ± 0.1	0.96 ± 0.07	1.0 ± 0.1	0.67± 0.07
140.8	2	0						
		207	3	1.9 ± 0.17	1.9 ± 0.2			
		406						
		598						
		798						
		945	38	84 ± 0.79	42 ± 0.6			
		975	9	2.2 ± 0.16	1 ± 0.1			
139.5	3	0	1	1.4 ± 0.18	0.6 ± 0.1			
to		281	2	2.7 ± 0.21	0.9 ± 0.2			
140.8		627	1	0.2 ± 0.08	3 ± 0.2			
139	4	0						
		293	19	20 ± 0.43	11 ± 0.3			
		380						
		515						
		580	171	112 ± 1.0	24 ± 0.4			
		729	2	1.1 ± 0.14	3 ± 0.2			
138.5	5	0						
		534	27	31 ± 0.55	19 ± 0.4	25 ± 0.35	21 ± 0.22	24 ± 0.12
		573						
		640	99	158 ± 1.1	67 ± 0.9	106 ± 0.86	143 ± 7.2	179 ± 8.2
		773	1	1.1 ± 0.13	0.6 ± 0.1	0.78 ± 0.06	1.8 ± 0.2	0.93± 0.10
137	6	0						
		549	23	14 ± 0.39	11 ± 0.3			
		701						
		772	196	123 ± 1.2	60 ± 0.7			
		817	3	2.0 ± 0.14	1 ± 0.1			
136.3	7	0						
		579	6	2.9 ± 0.20	2 ± 0.2			
		793	173	52 ± 0.80				
		823	3	53 ± 0.72				
		944		15 ± 0.38	6 ± 0.2			
		975		2.0 ± 0.22	0.9 ± 0.2			
135.7	8	0						
		168	2	1.8 ± 0.17	1 ± 0.1			
		279						
		445						
		814	35	26 ± 0.52	1 ± 0.2			
		884						
		915	3	0.89 ± 0.17	0.7 ± 0.1			

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was done.

Blank space indicates no analysis.

TABLE 9-7
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, STRONTIUM-90 AND CESIUM-137 IN SOIL, CONT'D.[a]

Cs-137, pCi/g (dry weight)

River Mile	Trail Number	Distance From River (Meters)	1977 0-8 cm	1982 0-8 cm	1985 0-8 cm	1986 0-8 cm	1987 0-8 cm	1988 0-8 cm
135.5	9	0						
		512						
		621	92	69 ± 0.83	49 ± 0.6			
		671	105	56 ± 0.7	33 ± 0.5			
		762	2	2.0 ± 0.2	0.2 ± 0.1			
134.4	10	0	30	22 ± 0.55	0.3 ± 0.1	10 ± 0.20	22 ± 1.3	20 ± 0.97
		30	27	29 ± 0.51	25 ± 0.4	19 ± 0.26	26 ± 0.2	24 ± 0.12
		73	4	2.5 ± 0.19	6 ± 0.3	1.3 ± 0.08	2.2 ± 1.7	2.3 ± 0.19
Controls (100 miles from plant)			1	0.49 ± 0.04	0.37 ± 0.07		0.44 ± 0.30	
Savannah, GA								0.00 ± 0.11
Clinton, SC								0.56 ± 0.08

Sr-90, pCi/g (dry weight)

River Mile	Trail Number	Distance From River (Meters)	1977 0-8 cm	1985 0-8 cm	1986 0-8 cm	1987 0-8 cm	1988 0-8 cm
141.5	1	0		0.06 ± 0.01			
		178	0.7		0.19 ± 0.04	0.34 ± 0.05	0.06 ± 0.04
		550	0.6		0.24 ± 0.05	0.19 ± 0.05	0.08 ± 0.04
		805	0.1		0.04 ± 0.03	0.11 ± 0.05	0.01 ± 0.03
140.8	2	207		0.06 ± 0.01			
139.5 to 140.8	3	0		0.15 ± 0.04			
139	4	293		0.34 ± 0.05			
138.5	5	534		0.21 ± 0.05	0.07 ± 0.04	0.18 ± 0.04	0.03 ± 0.03
		640			0.09 ± 0.04	0.34 ± 0.05	0.04 ± 0.03
		773			0.05 ± 0.03	0.13 ± 0.03	-0.01 ± 0.03
137	6	549		0.44 ± 0.06			
136.3	7	579		0.17 ± 0.04			
135.7	8	168		0.47 ± 0.06			
135.5	9	621		0.36 ± 0.06			
134.4	10	0		0.15 ± 0.04	0.10 ± 0.04	0.14 ± 0.04	0.02 ± 0.03
		30			0.10 ± 0.04	0.17 ± 0.04	0.02 ± 0.03
		73			0.15 ± 0.04	0.30 ± 0.05	0.05 ± 0.03
Controls (100 miles from plant)			0.3	0.04 ± 0.06			
Savannnah, GA							0.01 ± 0.03
Clinton, SC							0.05 ± 0.04

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was done.

Blank space indicates no analysis.

TABLE 9-8
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, PLUTONIUM IN SOIL[a]

River Mile	Trail Number	Distance From River (Meters)	Pu-238 pCi/g (dry weight) 1977 0 - 8 cm	1985 0 - 8 cm	1986 0 - 8 cm	1987 0 - 8 cm	1988 0 - 8 cm
141.5	1	178					0.016±0.001
		550	0.024±0.004	0.047±0.006	0.040±0.0038	0.054±0.005	0.027±0.003
		805				0.004±0.001	0.004±0.001
140.8	2	945	0.017±0.003				
		975					
139.5 to 140.8	3	281					
		627	0.001±0.001				
139	4	580	0.031±0.008	0.012±0.003			
138.5	5	534				0.021±0.002	0.009±0.001
		640	0.022±0.006	0.041±0.004		0.034±0.003	0.029±0.003
		773				0.012±0.002	0.006±0.001
137	6	772			0.023±0.003		
		817					
136.3	7	793	0.032±0.005				
		945	0.003±0.001				
137.7	8	814	0.001±0.001				
135.5	9	671	0.026±0.006				
134.4	10	0				0.043±0.004	0.013±0.002
		30		0.010±0.001			0.019±0.002
		73	0.002±0.002	0.006±0.002	0.001±0.0011	0.015±0.005	0.010±0.001
Controls (100 miles from plant) Savannah, GA			<0.001	0.001±0.0			
Clifton, SC							0.003±0.001
							0.005±0.001

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was conducted in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was conducted.

Blank space indicates no sample or analysis.

TABLE 9-8
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, PLUTONIUM IN SOIL, CONT'D.[a]

River Mile	Trail Number	Distance From River (Meters)	Pu-239, pCi/g (dry weight) 1977 0-8 cm	1985 0-8 cm	1986 0-8 cm	1987 0-8 cm	1988 0-8 cm
141.5	1	178					0.017±0.002
		550	0.11 ±0.009	0.095±0.0057		0.101±0.008	0.048±0.003
		656					
		805				0.011±0.002	0.014±0.002
140.8	2	945	0.041±0.004				
		975					
139.5 to 140.8	3	281					
		627	0.002±0.001				
139	4	580	0.96 ±0.013	0.033±0.005			
138.5	5	534				0.042±0.004	0.028±0.002
		640	0.083±0.012	0.096±0.006		0.072±0.005	0.067±0.004
		773				0.029±0.004	0.014±0.002
137	6	772					
		817					
136.3	7	793	0.085±0.007				
		945	0.022±0.004				
135.7	8	814	0.006±0.003				
		884					
		915					
135.5	9	671	0.077±0.009				
134.4	10	0				0.024±0.003	0.018±0.002
		30		0.27 ±0.002			0.028±0.003
		73	0.038±0.007	0.36 ±0.005	0.022±0.004	0.022±0.006	0.020±0.002
Controls (100 miles from plant)			0.016±0.002	0.01 ±0.0			
Savannah, GA							0.002±0.001
Clinton, SC							0.012±0.002

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was conducted in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was conducted.

Blank space indicates no sample or analysis.

TABLE 9-9
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, ALPHA IN VEGETATION[a]

River Mile	Trail Number	Distance From River (Meters)	Alpha, pCi/g (dry weight) 1982	1985	1986	1987	1988
141.5	1	178	0.02 ± 0.01	0.43 ± 0.28	0.17 ± 0.25	0.04 ± 0.13	0.70± 0.40
		550		0.23 ± 0.22	0.09 ± 0.21	0.0 ± 0.15	0.29± 0.35
		805	0.03 ± 0.01	0.12 ± 0.17	0.74 ± 0.4	0.04 ± 0.13	0.46± 0.40
140.8	2	0					
		207	0.01 ± 0.01	0.04 ± 0.14			
		945	0.01 ± 0.02	0.04 ± 0.14			
		975	0.02 ± 0.03	0.00 ± 0.11			
139.5 to 140.8	3	0	0.01 ± 0.01	0.20 ± 0.21			
		281	0.01 ± 0.01	0.27 ± 0.23			
		627	0.0 ± 0.01	0.04 ± 0.14			
139	4	293	0.0 ± 0.01	0.58 ± 0.32			
		580	0.01 ± 0.01	1.6 ± 0.5			
		729	0.01 ± 0.01	0.23 ± 0.22			
138.5	5	534	0.0 ± 0.01	0.94 ± 0.4	0.61 ± 0.37	0.0 ± 0.13	0.12± 0.28
		640	0.0 ± 0.01	-0.04 ± 0.08	0.30 ± 0.29	0.0 ± 0.17	0.58± 0.43
		773	0.01 ± 0.01		-0.04 ± 0.15	0.63 ± 0.37	0.23± 0.33
137	6	549	0.01 ± 0.01	0.2 ± 0.21			
		772		0.04 ± 0.14			
		817	0.01 ± 0.01	0.04 ± 0.14			
136.3	7	579	0.01 ± 0.01	-0.04 ± 0.08			
		793	0.01 ± 0.01				
		823					
		945		0.00 ± 0.11			
		975		0.39 ± 0.27			
135.7	8	168		0.12 ± 0.17			
		814		0.00 ± 0.11			
		884	0.01 ± 0.01				
		915	0.0 ± 0.01	-0.04 ± 0.08			
135.5	9	621	0.01 ± 0.02	0.00 ± 0.11			
		671	0.0 ± 0.01	0.12 ± 0.17			
		769		0.04 ± 0.14			
134.4	10	0	0.01 ± 0.01	-0.04 ± 0.08	0.12 ± 0.17	0.09 ± 0.17	0.29± 0.35
		30		0.16 ± 0.19	0.12 ± 0.17	0.0 ± 0.12	0.23± 0.33
		73	0.01 ± 0.01	0.08 ± 0.16	0.12 ± 0.17	0.17 ± 0.21	0.58± 0.43
Plant perimeter and 100-mile radius vegetation (Control)			0.05 ± 0.20	0.12 ± 0.24			

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986,1987, and 1988, only cursory sampling was done.

Blank space indicates no analysis.

TABLE 9-10
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 AND POTASSIUM-40 IN VEGETATION[a]

River Mile	Trail Number	Distance From River (Meters)	Cs-137, pCi/g (dry weight) 1977	1982	1985	1986	1987	1988
141.5	1	0						
		178	2	13 ±0.8	4 ±0.9	<0.68	<0.34	5.6 ± 0.50
		358						
		550	132	58 ±16	32 ±2	36 ±1.6	<0.4	45 ± 2.3
		656						
		805	2	0.7 ±0.8	0.7 ±0.6	<0.91	0.55±0.23	0.0 ± 0.36
140.8	2	0	<1					
		207		0.7 ±0.4	0.0 ±0.7			
		406						
		598						
		798						
		945	10	10 ±0.9	16 ±1.5			
		975	<1	1.0 ±0.7	0.2 ±0.7			
139.5	3	0	3	0 ±0.5	0.1 ±0.6			
to		281	<1	0.03 ±0.61	0.6 ±0.9			
140.8		627	<1	0.01 ±0.63	0.0 ±1.1			
139	4	0						
		293	2	8.8 ±0.8	0.2 ±1			
		380						
		515						
		580	29	49 ±0.2	12 ±1			
		729	<1	0.7 ±0.5	0.0 ±1.2			
138.5	5	0						
		534	2	6 ±0.8	0.4 ±1	<0.89		2.4 ± 0.32
		573						
		640	12	12 ±1.0	3.4 ±0.9	64 ±2.6	<0.36	7.6 ± 0.68
		773	2	0.8 ±0.6	0.0 ±1.1	<0.66		0.84 ± 0.18
137	6	0						
		549	4	8.2 ±0.6	1.9 ±0.8			
		701						
		772	13	12 ±1.1	9.7 ±1.2			
		817	<1	0.6 ±0.7				
136.3	7	0						
		579	7	0.3 ±0.8	0.3 ±1.4			
		793	8	23 ±1.2	5.6 ±1.5			
		823	<1	0.07 ±0.6	0.0 ±1.6			
135.7	8	0						
		168		0.8 ±0.6	0.1 ±1.3			
		279						
		445						
		612	6					
		814	2	3.6 ±0.7	2.3 ±1			
		884						
		915	<1	0 ±0.7	0.3 ±1			

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was done.

Blank space indicates no analysis.

TABLE 9-10
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 AND POTASSIUM-40 IN VEGETATION, CONT'D.[a]

River Mile	Trail Number	Distance From River (Meters)	Cs-137, pCi/g (dry weight) 1977	1982	1985	1986	1987	1988
135.5	9	0	<1					
		512						
		621	<1	10 ±1.6	7.6 ±1.2			
		671	1	16 ±1.5	16 ±1.5			
		769		0.05 ±0.8	0.0 ±1			
134.4	10	0	9	0.9 ±0.6	0.7 ±0.7	1.4 ±0.33	0.87±0.23	0.55 ±0.15
		30	2	4.9 ±0.8	0.0 ±0.8	6.8 ±0.65	2.4 ±0.44	2.4 ±0.41
		73	<1	0.04 ±0.5	0.4 ±0.8	<0.79	0.41±0.22	0.0 ±0.44
Plant perimeter and 100-mile radius vegetation (Control)			<1	0.23 ±0.68	0.04 ±1.1			

River Mile	Trail Number	Distance From River (Meters)	K-40[b], pCi/g (dry weight) 1985	1986	1987	1988
141.5	1	178	21 ± 8	17 ±4.0	<2.5	15 ± 2.8
		550	11 ±10	15 ±4.4	<3.3	12 ± 2.7
		805	9 ± 6	12 ±4.5	9 ±2.7	7.4 ± 2.3
140.8	2	207	11 ± 8			
		945	10 ±10			
		975	15 ± 8			
139.5 to 140.8	3	0	21 ± 7			
		281	26 ±10			
		627	15 ±12			
139	4	293	11 ±10			
		580	30 ± 8			
		729	12 ±13			
138.5	5	534	18 ±10	17 ±4.6		24 ± 3.9
		640	14 ± 9	24 ±7.0	<2.3	16 ± 3.4
		773	12 ±11	<9.1		14 ± 2.8

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was done.

[b] K-40 was not shown prior to 1985.

Blank space indicates no analysis.

TABLE 9-10
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 AND POTASSIUM-40 IN VEGETATION, CONT'D.[a]

River Mile	Trail Number	Distance From River (Meters)	K-40[b] pCi/g (dry weight) 1985	1986	1987	1988
137	6	549	25 ± 8			
		772	9 ± 9			
136.3	7	579	19 ±14			
		793	13 ±13			
		823	10 ±16			
135.7	8	168	18 ±13			
		814	5 ± 9			
		915	0 ±10			
135.5	9	621	18 ±10			
		671	25 ±11			
		769	12 ±10			
134.4	10	0	12 ± 7	12 ±3.9	12 ±2.8	10 ± 2.4
		30		12 ±3.5	20 ±3.9	29 ± 0.35
		73	10 ± 9	18 ±4.4	11 ±3.1	13 ± 2.7
Plant perimeter and 100-mile radius vegetation (Control)			12 ± 8			

[a] Comprehensive sampling of all trails is normally done every five years. Comprehensive sampling was done in 1985 because L Lake was being constructed. In 1986, 1987, and 1988, only cursory sampling was done.

[b] K-40 was not shown prior to 1985.

Blank space indicates no analysis.

TABLE 9-11
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, TLD MEASUREMENTS

River Mile	Trail Number	Distance From River (Meters)	Panasonic Test TLDs Sept.1986 (mR/Day)	SRS[a] TLDs Sept.1986 (mR/Day)	Panasonic[b,c] TLDs April 1987 (mR/Day)	Panasonic[c] TLDs Sept.1987 (mR/Day)	Panasonic TLDs Sept.1988 (mR/Day)
141.5	1	0		0.43 ± 0.03		0.32 ± 0.05	0.31 ± 0.06
		178		0.52 ± 0.04		0.32 ± 0.05	0.33 ± 0.06
		358		0.62 ± 0.05		0.47 ± 0.07	0.47 ± 0.08
		550	0.80 ± 0.02	0.99 ± 0.07		0.81 ± 0.12	0.80 ± 0.14
		656		1.17 ± 0.08		0.94 ± 0.14	0.88 ± 0.16
		805		0.34 ± 0.03	0.16 ± 0.02	0.17 ± 0.03	0.17 ± 0.03
140.8	2	0		0.40 ± 0.03		0.24 ± 0.04	0.25 ± 0.04
		207		0.45 ± 0.04		0.27 ± 0.04	0.27 ± 0.05
		406		0.42 ± 0.03		0.28 ± 0.04	0.28 ± 0.05
		598		0.42 ± 0.03		0.28 ± 0.04	0.27 ± 0.05
		798		0.55 ± 0.04		0.33 ± 0.05	0.33 ± 0.06
		945	0.57 ± 0.03	0.81 ± 0.06		0.57 ± 0.08	0.53 ± 0.10
		975		0.41 ± 0.03	0.19 ± 0.03	0.20 ± 0.03	0.20 ± 0.04
139.5	3	0		0.41 ± 0.03		0.25 ± 0.04	0.24 ± 0.04
to		281		0.45 ± 0.04		0.27 ± 0.04	0.27 ± 0.05
140.8		627		0.36 ± 0.03	0.23 ± 0.03	0.23 ± 0.03	0.21 ± 0.04
139	4	0		0.31 ± 0.03		0.26 ± 0.04	0.25 ± 0.04
		293		0.37 ± 0.03		0.30 ± 0.05	0.29 ± 0.05
		380		0.53 ± 0.04		0.43 ± 0.06	0.40 ± 0.07
		515		0.53 ± 0.04		0.39 ± 0.06	0.36 ± 0.07
		580	0.74 ± 0.06	0.85 ± 0.06		0.68 ± 0.10	0.62 ± 0.11
		729		0.34 ± 0.03	0.21 ± 0.03	0.24 ± 0.04	0.24 ± 0.04
138.5	5	0		0.04 ± 0.03		0.25 ± 0.04	0.25 ± 0.05
		534		0.47 ± 0.04		0.35 ± 0.05	0.31 ± 0.06
		573		0.65 ± 0.05		0.46 ± 0.07	0.46 ± 0.08
		640	0.57 ± 0.03	0.65 ± 0.05		0.81 ± 0.12	0.76 ± 0.14
		773		0.43 ± 0.03	0.21 ± 0.03	0.24 ± 0.04	0.23 ± 0.04
137	6	0		0.40 ± 0.03		0.24 ± 0.04	0.23 ± 0.04
		549		0.35 ± 0.03		0.30 ± 0.04	0.33 ± 0.06
		701		0.68 ± 0.05		0.44 ± 0.07	0.42 ± 0.07
		772	0.71 ± 0.02	0.82 ± 0.06		0.59 ± 0.09	0.57 ± 0.10
		817		0.44 ± 0.04	0.22 ± 0.03	0.25 ± 0.04	0.24 ± 0.04

[a] Results biased by improper analysis techniques.

[b] Resurvey to check validity of Sept. 1986 results.

[c] Changed from SRS type TLD to Panasonic 801AQ TLD during 1987. The average of the five Panasonic TLDs at each location is reported.

TABLE 9-11
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, TLD MEASUREMENTS, CONT'D.

mR/Day

River Mile	Trail Number	Distance From River (Meters)	Panasonic Test TLDs Sept.1986	SRS[a] TLDs Sept.1986	Panasonic[b,c] TLDs April 1987	Panasonic[c] TLDs Sept.1987	Panasonic TLDs Sept. 1988
136.3	7	0		0.41 ± 0.03		0.23 ± 0.03	0.23 ± 0.04
		579		0.29 ± 0.03		0.26 ± 0.04	0.24 ± 0.05
		793		0.54 ± 0.04		0.32 ± 0.05	0.27 ± 0.05
		823[d]		0.58 ± 0.04		0.41 ± 0.06	0.36 ± 0.06
		945		0.52 ± 0.04		0.33 ± 0.05	0.31 ± 0.06
		976		0.40 ± 0.03	0.22 ± 0.03	0.25 ± 0.04	0.25 ± 0.04
135.7	8	0		0.40 ± 0.03		0.23 ± 0.04	0.23 ± 0.04
		168		0.39 ± 0.03		0.28 ± 0.05	0.27 ± 0.05
		279		0.43 ± 0.03		0.25 ± 0.04	-
		445		0.41 ± 0.03		0.27 ± 0.04	0.25 ± 0.04
		612		0.46 ± 0.04		0.26 ± 0.04	0.27 ± 0.05
		814		0.55 ± 0.04		0.33 ± 0.05	0.31 ± 0.06
		884	0.54 ± 0.03	0.66 ± 0.05		0.51 ± 0.08	0.51 ± 0.09
		915		0.41 ± 0.03	0.25 ± 0.04	0.24 ± 0.04	0.22 ± 0.04
135.5	9	0		0.38 ± 0.03		0.25 ± 0.04	0.24 ± 0.04
		512		0.53 ± 0.04		0.34 ± 0.05	0.33 ± 0.06
		621		0.62 ± 0.05		0.50 ± 0.07	0.46 ± 0.08
		671	0.53 ± 0.03	0.71 ± 0.05		0.52 ± 0.08	0.49 ± 0.09
		769		0.38 ± 0.03	0.22 ± 0.03	0.21 ± 0.03	0.21 ± 0.04
134.4	10	0		0.52 ± 0.04		0.33 ± 0.05	0.34 ± 0.06
		30		0.51 ± 0.04		0.35 ± 0.05	0.32 ± 0.06
		73		0.30 ± 0.03	0.19 ± 0.03	0.22 ± 0.03	0.21 ± 0.04
West Jackson (Control)							
Allendale Gate (Control)							

a Results biased by improper analysis techniques.

b Resurvey to check validity of Sept. 1986 results.

c Changed from SRS type TLD to Panasonic 801AQ TLD during 1987. The average of the five Panasonic TLDs at each location is reported.

- Five badges at location missing.

TABLE 9-12
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 IN AQUATIC SPECIES

Location, Species, and Collection Date	No.[a] of Fish	Cs-137 in Whole Fish, pCi/g (wet weight) Maximum	Average ± 2 Std Dev
Boggy Gut Lake (Trail 2)			
Composite			
1974	7	6.1	3.8
Bass			
1975	6	4.5	2.6
Bream			
1975	2	1.7	1.4
1977	3	0.2	0.1
1982	5	0.9 ± 1.1	0.4 ± 0.6
1985	7	0.1 ± 0.8	0.03 ± 0.05
Catfish			
1977	2	0.2	0.2
Dry in 1987			
Dry in 1988			
Jacks Lake (Trail 7)			
Composite			
1974	7	5.8	4.0
Bass			
1975	1	4.5	-
1982	1	0.5 ± 0.3	-
1986	3	1.8 ± 0.94	1.3
Bream			
1975	2	2.1	1.3
1977	1	<0.1	-
1982	5	0.7 ± 1.1	0.4 ± 0.3
1985	21	0.4 ± 0.3	0.07 ± 0.1
1986	8	1.8 ± 2.4	1.1 ± 2.1
1988	1	1.2 ± 0.08	- -
Carp			
1977	1	<0.1	-
Catfish			
1986	2	0.89 ± 0.47	0.88
Crappie			
1977	1	<0.6	-
1982	1	0.3 ± 0.4	-
Crayfish			
1986	1	0.94 ± 1.7	-
Jackfish			
1982	2	0.5 ± 0.1	0.4
1986	1	1.1 ± 0.36	-
1987	1	0.63 ± 0.06	-
Sucker			
1982	2	0.2 ± 0.2	0.2
1985	21	0.3 ± 0.4	0.1 ± 0.2
1986	2	0.81 ± 0.43	0.70
Turtle			
1982	1	0.2 ± 0.2	-
1986	1	0.7 ± 0.1	-

[a] No fish collected in 1976, 1978-1981, 1983, 1984.
- Insufficient data.

TABLE 9-12
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 IN AQUATIC SPECIES, CONT'D.

Location, Species, and Collection Date	No.[a] of Fish	Cs-137 in Whole Fish, pCi/g (wet weight) Maximum	Average ± 2 Std Dev
Cannuck Lake (Trail 8)			
Composite			
1974	14	6.1	3.8
Bass			
1986	1	0.43 ± 0.09	-
Bream			
1975	5	3.8	2.2
1982	8	0.6 ± 0.8	0.3 ± 0.3
1985	4	0.23 ± 0.38	0.2
1986	7	2.8 ± 1.2	1.6 ± 1.2
1987	8	1.2 ± 0.06	0.47 ± 0.72
Catfish			
1977	1	<0.1	-
1985	2	0.4 ± 0.2	0.4
1987	1	0.58 ± 0.02	-
Crappie			
1982	1	0.3 ± 0.1	-
Jackfish			
1982	1	0.1 ± 0.3	-
Shad			
1985	1	0.1 ± 0.7	-
Sucker			
1982	1	0.6 ± 0.4	-
1988	3	1.3 ± 0.09	-
Turtle			
1982	2	0.5 ± 0.2	0.4
1985	3	0.2 ± 0.5	0.1
River 2 (Control)			
All Species			
1974	89	1.8	1.1
1975	41	2.4	0.1
Bass			
1986	3	0.08 ± 0.29	0.03 ± 0.30
1987	1	0.0 ± 0.03	-
Bowfin			
1986	1	0.07 ± 0.04	-
Bream			
1977	8	<0.1	<0.1
1985	6	0.0 ± 0.8	-
1986	28	0.50 ± 1.4	0.13 ± 0.93
1987	26	1.1 ± 0.22	0.19 ± 0.66
1988	14	1.2 ± 0.48	0.32 ± 0.87

[a] No fish collected in 1976, 1978-1981, 1983, 1984.
- Insufficient data.

TABLE 9-12
SAVANNAH RIVER SWAMP, STEEL CREEK TO LITTLE HELL LANDING, CESIUM-137 IN AQUATIC SPECIES, CONT'D.

Location, Species, and Collection Date	No.[a] of Fish	Cs-137 in Whole Fish, pCi/g (wet weight) Maximum	Average ± 2 Std Dev
Catfish			
1976	6	<.01	<.01
1977	9	<.01	<.01
1982	7	0.2	<0.08
1985	7	0.0 ± 0.4	-
1986	25	0.47 ± 0.67	0.10 ± 0.59
1987	5	0.44 ± 0.88	0.09 ± 0.39
1988	13	0.13 ± 0.03	0.03 ± 0.13
Crappie			
1986	7	0.42 ± 1.5	0.11 ± 0.77
1987	12	0.39 ± 0.12	0.16 ± 0.25
1988	1	0.19 ± 0.07	-
Eel			
1986	1	0.0 ± 0.19	-
Jackfish			
1986	1	0.11 ± 0.40	-
Sucker			
1986	1	0.0 ± 0.31	-
Shad			
1986	1	0.06 ± 0.13	-

[a] No fish collected in 1976, 1978-1981, 1983, 1984.
- Insufficient data.

TABLE 9-13
LOWER THREE RUNS SPECIAL SURVEY, CESIUM-137 IN CREEK SEDIMENT AND SOIL

Station	Maximum pCi/g (dry)			
	Stream bed		Floodplain	
	1982	1988	1982	1988
1	261	1.2 ±0.38	1	6.5 ±0.10
2	1	1.0 ±0.15	12	16 ±0.95
3	2	0.74 ±0.18	NS	100 ±5.5
4	2	4.0 ±0.44	59	57 ±3.2
5	28	17 ±0.08	48	47 ±2.8
6	4	3.4 ±0.19	83	76 ±4.2
7	1	14 ±0.07	7	63 ±3.5
8	5	0.78 ±0.20	7	143 ±7.8
				137 ±1.2*
9	11	3.8 ±0.41	14	55 ±3.1
10	2	29 ±1.9	104	6.1±0.52
11	15	0.55 ±0.15	3	28 ±1.6
12	NS	NS	0.4	1.4±0.14
13	NS	NS	2	1.5±0.16

NS - No Sample
* *Rerun*

TABLE 9-14
LOWER THREE RUNS SPECIAL SURVEY, PLUTONIUM IN FLOODPLAIN SOIL COMPOSITES

Station	1982 ^{238}Pu (pCi/g)	1988 ^{238}Pu (pCi/g)	1982 ^{239}Pu (pCi/g)	1988 ^{239}Pu (pCi/g)
1	0.002±0.001	0.008±0.001	0.010±0.003	0.017±0.002
5	0.016±0.016	0.015±0.002	0.068±0.020	0.024±0.003
6	0.011±0.003	0.015±0.003	0.048±0.005	0.039±0.005

1988 PLUTONIUM-238,239 ANALYSIS OF LOWER THREE RUNS CREEK STREAMBED SOIL COMPOSITES*

Station	^{238}Pu (pCi/g)	^{239}Pu (pCi/g)
1	0.006±0.003	0.002±0.001
5	0.027±0.006	0.039±0.007
6	0.009±0.002	0.000±0.001

* Not conducted during previous surveys.

TABLE 9-15
LOWER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN FLOODPLAIN TIMBER

Station	^{137}Cs, pCi/g (wet weight)		H-3, pCi/mL	
	1982 Maximum	1988 Maximum	1982 Maximum	1988 Maximum
1	<1	0.74±0.13	7	9.8±0.40
2	27	3.3 ±0.29	3	5.1±0.35
3	43	13 ±0.90	3	3.2±0.35
4	50	8.7 ±0.59	2	2.0±0.30
5	7	29 ±0.37	4	2.8±0.33
6	20	11 ±0.16	3	1.5±0.29
7	19	42 ±0.51	2	2.4±0.34
8	5	4.0 ±0.35	1	2.3±0.30
9	9	5.4 ±0.53	6	1.3±0.33
10	7	0.01±0.01	0.7	1.2±0.31
11	0.1	0.00±0.26	0.7	1.2±0.31
12	0.1	0.00±0.19	NA	1.1±0.25
13	0.1	0.00±0.16	NA	1.1±0.31

NA -No Analysis.

TABLE 9-16
LOWER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN FLOODPLAIN TREE LEAF-STEM COMPOSITES

Station	^{137}Cs (pCi/g)	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Total Sr (pCi/g)	H-3 1988 (pCi/mL)	H-3 1982 (pCi/mL)
1	5.5 ±0.47	0.21±0.22	11 ±1.2	64±19	5.3 ±0.33	2
2	8.6 ±0.57	0.04±0.15	14 ±1.3	30±13	3.7 ±0.31	NA
3	43 ±2.4	0.29±0.25	20 ±1.6	146±28	1.4 ±0.28	59
4	52 ±3.0	0.22±0.27	37 ±2.1	22±9.0	0.90 ±0.28	2
5	34 ±2.0	0.17±0.21	29 ±1.9	285±13	0.90 ±0.28	36
6	7.5 ±0.54 7.0 ±0.50*	0.08±0.17	13 ±1.3	21±9.0	0.76 ±0.27	2
7	54 ±3.1	0.50±0.31	57 ±2.6	69±18	0.80 ±0.27	19
8	13 ±0.83	0.0 ±0.12	30 ±1.9	12±12	0.42 ±0.27	1
9	14 ±0.94	0.04±0.15	18 ±1.5	41±12	0.09 ±0.26	<0.2
10	0.91 ±0.16	0.04±0.15	10 ±1.2	38±14	-0.15 ±0.26	0.2
11	0.61 ±0.14	0.04±0.15	12 ±1.2	36±11	0.05 ±0.21	0.2
12	0.10 ±0.02	0.0 ±0.12	5.5±0.91	11±16	-0.06 ±0.26	2
13	0.0 ±0.18	0.21±0.22	7.3±1.0	50±17	-0.12 ±0.26	0.8

NA - No Analysis.
* Rerun.

TABLE 9-17
LOWER THREE RUNS SPECIAL SURVEY, RADIOACTIVITY IN CREEK BANK AQUATIC AND SEMI-AQUATIC VEGETATION

Station	^{137}Cs (pCi/g)	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Total Sr (pCi/g)	H-3 pCi/mL
1	5.8±0.83	0.04±0.14	14 ±1.3	0.60±0.23	6.9±0.37
2	6.7±0.72	0.08±0.16	2.2±0.66	0.34±0.22	5.8±0.36
3	61 ±3.6	0.04±0.15	60 ±2.8	0.24±0.12	1.5±0.29
4	83 ±4.8	0.21±0.22	23 ±1.6	0.52±0.16	3.7±0.32
5	48 ±1.4	0.45±0.29	43 ±2.2	1.1 ±0.29	6.1±0.36
6	61 ±3.5	0.39±0.29	32 ±2.0	0.15±0.11	1.9±0.30
7	42 ±2.5	0.04±0.15	12 ±1.3	0.38±0.13	2.3±0.30
8	36 ±2.2	0.25±0.23	19 ±1.5	0.78±0.18	3.7±0.32
9	39 ±2.3	0.30±0.26	20 ±1.7	0.97±0.18	1.6±0.29
10	5.5±0.49	0.32±0.26	13 ±1.3	0.34±0.22	4.0±0.34
11	10 ±0.76	0.26±0.24	13 ±1.4	0.57±0.45	1.8±0.32
12	0.0±0.28	0.05±0.15	7.6±1.1	0.41±0.43	1.1±0.31
13	0.0±0.86	0.34±0.27	12 ±1.3	0.65±0.46	1.4±0.31

TABLE 9-18
LOWER THREE RUNS SPECIAL SURVEY, GAMMA RADIATION MEASUREMENTS

Station Number	mR/hr Average 1988 (L)*	mR/hr Average 1982 (FS)	mR/hr Range 1988 (L)	Distance (meters) East	Distance (meters) West
1	7	16	5-22	0-90	0-110
2	7	25	5-18	0-100	0-130
3	21	45	5-60	0-240	0-120
4	18	38	5-50	0-250	0-90
5	13	27	4-40	0-160	0-200
6	22	28	5-70	0-180	0-70
7	17	31	5-40	0-210	0-180
8	20	25	5-40	0-100	0-240
9	9	14	5-20	0-140	0-90
10	8	15	2-30	0-110	0-110
11	10	19	7-16	0-200	0-120
12	8	18	7-23	0-320	-- --
13	7	18	7-10	0-300	-- --

* Average Background Reading - 6, µR/hr.

** Readings taken from stream bank to high ground at 10 meter intervals.

(FS) - Readings taken with FS-11 gamma scintillometer.

- Stations not established in 1973.

(L)- Readings taken with Ludlum Model-3.

TABLE 9-19
LOWER THREE RUNS SPECIAL SURVEY,
TLD RADIATION MEASUREMENTS

Station Number	Bank		Floodplain		High ground	
	(mR/Day)	(mR/Yr)	(mR/Day)	(mR/Yr)	(mR/Day)	(mR/Yr)
1	0.31	113	0.20	73	0.21	77
2	0.31	113	0.40	146	0.20	73
3	0.63	230	0.66	241	0.16	58
4	0.53	194	0.37	135	0.17	62
5	0.33	120	0.43	157	0.17	62
6	0.48	175	0.73	266	0.21	77
7	0.25	91	0.56	204	0.16	58
8	0.51	186	0.51	186	0.20	73
9	0.33	120	0.24	88	0.15	55
10	0.30	110	0.20	73	0.25	91
11	0.31	113	0.38	139	0.34	124
12	0.39	142	0.27	99	0.28	102
13	0.25	91	0.25	91	0.26	95

Note: TLDs exposed for approximately one month, 1-meter above ground.

TABLE 9-20
LOWER THREE RUNS SPECIAL SURVEY, CESIUM-137 IN CLAMS AND SNAILS

pCi/g (wet weight)

Station	Year	Clams	Snails
2	1971	2.1	NA
	1982	0.3	2.2
	1988	0.30±0.43	0.97±0.18
5	1971	2.0	2.0
	1982	0.6	0.6
	1988	0.63±0.09	0.99±0.15
9	1988	0.49±0.012	0.63±0.12
11	1971	1.2	NA
	1982	0.3	0.4
	1988	0.19±0.03	0.33±0.14

NA - No analysis.

TABLE 9-21
LOWER THREE RUNS SPECIAL SURVEY, CESIUM-137 IN FISH

pCi/g Whole Body (wet weight)

STATION	Average			Maximum		
	1971	1982	1988	1971	1982	1988
1	19	3.0	3.0±1.5	34	6.0	6.3±0.11
5	19	6.0	4.9±3.0	27	6.0	6.5±0.12
10	NS	NS	1.3±0.91	NS	NS	2.2±0.18
11	1.0	0.6	1.0±1.0	1.2	2.5	1.8±0.25

NS = Not Sampled.

TABLE 9-22
LOWER THREE RUNS SPECIAL SURVEY, CESIUM-137 IN TURTLES

pCi/g (wet weight)

STATION	1988		1982	
	^{137}Cs (Whole)		^{137}Cs (Whole)	
	No. of Specimens	Maximum	No. of Specimens	Maximum
5	1	1.9±0.12	5	5.0
10	1	1.5±0.6	1	0.6

TABLE 9-23
1986 R-AREA COMPREHENSIVE SURVEY, RADIOACTIVITY IN R-AREA SEEPAGE BASIN AND SEWER LINE VEGETATION

Sample Number	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Cs-137 (pCi/g)
1	0.5 ± 0.3	8 ± 1	0 ± 1
2	0.1 ± 0.2	5 ± 1	0 ± 1
3	0.3 ± 0.3	31 ± 2	0 ± 1
4	0.1 ± 0.2	3 ± 1	1 ± 0.3
5	0.1 ± 0.2	14 ± 1	0 ± 1
6	0.3 ± 0.3	71 ± 3	0 ± 1
7	0.2 ± 0.2	4 ± 1	0 ± 1
8	2 ± 0.5	13 ± 1	0 ± 1
9	0.4 ± 0.3	6 ± 1	0 ± 1
10	1.1 ± 0.4	12 ± 1	0 ± 1
11	0.0 ± 0.1	1 ± 1	1 ± 0.3
12	0.1 ± 0.2	15 ± 1	2 ± 0.4
13	0.9 ± 0.4	10 ± 1	1 ± 0.7
14	0.2 ± 0.2	18 ± 1	7 ± 0.9
15	0.2 ± 0.2	12 ± 1	0 ± 1
16	0.1 ± 0.2	8 ± 1	0 ± 1
17	2 ± 0.6	13 ± 1	1 ± 0.4
18	0.1 ± 0.2	5 ± 1	2 ± 0.5
19	0.1 ± 0.2	13 ± 1	1 ± 0.4
20	0.2 ± 0.2	9 ± 1	2 ± 0.4
21	0.2 ± 0.2	6 ± 1	0 ± 1
22	0.5 ± 0.3	9 ± 1	0 ± 2
23	0.1 ± 0.2	8 ± 1	0 ± 1
24	0.3 ± 0.3	10 ± 1	0 ± 1
25	0.1 ± 0.1	5 ± 1	1 ± 0.4
26	0.5 ± 0.3	9 ± 1	0 ± 1
27	0.1 ± 0.2	13 ± 1	0 ± 0.3
28	0.2 ± 0.2	6 ± 1	0 ± 2
29	0.8 ± 0.4	17 ± 2	0 ± 1
30	0.5 ± 0.3	15 ± 1	0 ± 1
31	1 ± 0.5	13 ± 1	0 ± 2
32	0.5 ± 0.3	17 ± 1	2 ± 0.5
33	0.4 ± 0.3	40 ± 2	0 ± 1
34	0.2 ± 0.2	6 ± 1	0 ± 1
35	0.1 ± 0.2	13 ± 1	0 ± 1
36	1.1 ± 0.4	16 ± 1	0 ± 1
37	0.4 ± 0.3	8 ± 1	0 ± 1
38	0.2 ± 0.2	12 ± 1	0 ± 1
39	0.1 ± 0.1	7 ± 1	0 ± 1
40	0.1 ± 0.2	7 ± 1	0 ± 1
41	0.2 ± 0.2	7 ± 1	0 ± 1
42	0.2 ± 0.2	7 ± 1	0 ± 1
43	0.1 ± 0.2	6 ± 1	0 ± 1
44	0.1 ± 0.2	9 ± 1	1 ± 0.5
45	0.1 ± 0.2	9 ± 1	0 ± 1
46	0.3 ± 0.3	12 ± 1	0 ± 1
47	0.3 ± 0.3	13 ± 1	0 ± 1
48	0.2 ± 0.2	10 ± 1	1 ± 0.3
49	0.3 ± 0.3	16 ± 2	0 ± 1
50	0.2 ± 0.2	7 ± 1	0 ± 1

Samples collected at 100-ft intervals on a grid staked on the 100-R seepage basin system.

TABLE 9-23
1986 R-AREA COMPREHENSIVE SURVEY, RADIOACTIVITY IN R-AREA SEEPAGE BASIN AND SEWER LINE VEGETATION, CONT'D.

Sample Number	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Cs-137 (pCi/g)
51	0.2 ± 0.2	77 ± 3	4 ± 0.6
52	0.5 ± 0.3	55 ± 3	2 ± 0.4
53	0.4 ± 0.3	120 ± 4	1 ± 0.3
54	0.4 ± 0.3	10 ± 1	0 ± 1
55	10 ± 1	2600 ±16	1400 ± 14
56	0.1 ± 0.2	11 ± 1	0 ± 1
57	0.1 ± 0.2	21 ± 2	0 ± 1
58	4 ± 0.8	840 ± 9	1100 ± 11
59	7 ± 1	2400 ±16	3 ± 0.6
60	0.1 ± 0.2	11 ± 1	0 ± 1
61	0.6 ± 0.3	130 ± 4	2 ± 0.4
62	0.1 ± 0.2	11 ± 1	2 ± 0.4
63	0.2 ± 0.2	26 ± 2	2 ± 0.4
64	0.4 ± 0.3	28 ± 2	0 ± 1
65	0.1 ± 0.2	25 ± 2	1 ± 0.4
66	0.2 ± 0.2	16 ± 2	4 ± 0.6
67	0.7 ± 0.4	28 ± 2	6 ± 0.7
68	0.4 ± 0.3	11 ± 1	0 ± 1
69	0.4 ± 0.3	9 ± 1	0 ± 1
70	0.3 ± 0.3	130 ± 4	1 ± 0.2
71	0.8 ± 0.4	43 ± 2	0 ± 1
72	0.9 ± 0.4	14 ± 1	0 ± 1
73	0.4 ± 0.3	15 ± 2	1 ± 0.4
74	0.2 ± 0.3	200 ± 5	0 ± 1
75	0.1 ± 0.2	11 ± 1	0 ± 1
76	0.8 ± 0.4	15 ± 1	0 ± 1
77	0.4 ± 0.3	13 ± 1	0 ± 1
78	0.1 ± 0.2	8 ± 1	0 ± 2
79	0.6 ± 0.4	1100 ± 1	29 ± 2
80	0.2 ± 0.2	9 ± 1	0 ± 1
81	0.1 ± 0.2	12 ± 1	0 ± 1
82	0.1 ± 0.2	12 ± 1	84 ± 3
83	0.4 ± 0.3	7 ± 1	0 ± 2
84	0.1 ± 0.2	9 ± 1	0 ± 1
85	0.2 ± 0.2	14 ± 1	0 ± 1
86	0.7 ± 0.4	11 ± 1	0 ± 1
87	1.7 ± 0.6	2100 ±16	0 ± 1
88	1.2 ± 0.5	17 ± 1	0 ± 1
89	0.3 ± 0.3	6 ± 1	0 ± 1
90	1.1 ± 0.4	17 ± 1	0 ± 1
91	0.2 ± 0.2	15 ± 1	0 ± 0.2
92	0.2 ± 0.2	10 ± 1	0 ± 1
93	0.1 ± 0.2	30 ± 2	0 ± 1
94	0.4 ± 0.3	37 ± 2	0 ± 1
95	-0.1 ± 0.1	5 ± 1	0 ± 1
96	1.3 ± 0.5	10 ± 1	0 ± 1
97	0.5 ± 0.3	23 ± 2	0 ±
98	0.1 ± 0.2	8 ± 1	0 ± 1
99	0.8 ± 0.4	12 ± 1	1 ± 0.4
100	0.1 ± 0.2	13 ± 1	0 ± 1

Samples collected at 100-ft intervals on a grid staked on the 100-R seepage basin system.

TABLE 9-23
1986 R-AREA COMPREHENSIVE SURVEY, RADIOACTIVITY IN R-AREA SEEPAGE BASIN AND SEWER LINE VEGETATION, CONT'D.

Sample Number	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Cs-137 (pCi/g)
101	0.1 ± 0.1	9 ± 1	0 ± 2
102	0.1 ± 0.2	10 ± 1	0 ± 2
103	0.2 ± 0.2	24 ± 2	1 ± 0.2
104	0.4 ± 0.3	13 ± 1	0 ± 2
105	0.1 ± 0.2	14 ± 1	0 ± 1
106	1.6 ± 0.5	17 ± 2	0 ± 1
107	0.3 ± 0.3	14 ± 1	0 ± 2
108	1.4 ± 0.5	150 ± 4	1 ± 0.2
109	0.3 ± 0.3	21 ± 2	0 ± 1
110	0.1 ± 0.2	4 ± 1	1 ± 0.1
111	0.1 ± 0.2	10 ± 1	1 ± 0.3
112	0.3 ± 0.3	11 ± 1	3 ± 0.5
113	0.1 ± 0.2	10 ± 1	0 ± 1
114	3 ± 0.7	1400 ±13	33 ± 3
115	0.3 ± 0.3	32 ± 2	0 ± 1
116	34 ± 5	6100 ±50	32000 ±280
117	0.7 ± 0.4	120 ± 4	18 ± 3
118	2 ± 0.6	320 ± 6	2100 ± 27
119	0.1 ± 0.2	8 ± 1	2 ± 1
120	0.4 ± 0.3	22 ± 2	0 ± 1
121	1.2 ± 0.5	15 ± 2	0 ± 1
122	0.4 ± 0.3	23 ± 2	5 ± 0.9
123	0.7 ± 0.4	11 ± 1	2 ± 0.4
124	0.0 ± 0.1	10 ± 1	3 ± 0.6
125	0.1 ± 0.2	12 ± 1	0 ± 1
126	0.1 ± 0.2	41 ± 2	7 ± 1
127	0.7 ± 0.4	250 ± 5	2 ± 0.6
128	0.5 ± 0.3	120 ± 4	0 ± 1
129	0.6 ± 0.3	71 ± 3	0 ± 1
130	0.1 ± 0.2	16 ± 1	0 ± 1
131	84 ± 7	17000 ±90	110 ± 7
132	0.7 ± 0.4	14 ± 1	2 ± 0.6
133	0.2 ± 0.2	16 ± 2	3 ± 0.7
134	0.9 ± 0.4	25 ± 2	3 ± 0.5
135	0.3 ± 0.3	49 ± 3	0 ± 2
136	0.1 ± 0.2	12 ± 1	0 ± 1
137	0.1 ± 0.2	18 ± 2	1 ± 0.3
138	0.3 ± 0.3	84 ± 3	0 ± 2
139	0.1 ± 0.2	10 ± 1	0 ± 1
140	0.1 ± 0.2	9 ± 1	0 ± 1
141	0.2 ± 0.2	10 ± 1	0 ± 1
142	1 ± 0.5	13 ± 1	0 ± 1
143	0.2 ± 0.2	7 ± 1	0 ± 1
144	0.4 ± 0.3	26 ± 2	0 ± 1
145	-0.1 ± 0.1	26 ± 2	0 ± 1
146	0.1 ± 0.2	16 ± 1	0 ± 1
147	0.2 ± 0.2	18 ± 1	0 ± 1
148	0.0 ± 0.1	10 ± 1	0 ± 1
149	0.1 ± 0.2	16 ± 1	0 ± 1
150	0.1 ± 0.2	6 ± 1	0 ± 1

Samples collected at 100-ft intervals on a grid staked on the 100-R seepage basin system.

TABLE 9-24
1986 R-AREA COMPREHENSIVE SURVEY, RADIOACTIVITY IN MILL CREEK SEDIMENT CORES

Location	Depth (in.)	Gross Alpha (pCi/g)	Nonvolatile Beta (pCi/g)	Sr-89,90 (pCi/g)	Cs-137 (pCi/g)
Mill Creek at R Area[a]	0-3	0.3 ± 0.3	3.0 ± 0.7	0.5 ± 0.1	<0.1
	3-6	0.1 ± 0.2	0.5 ± 0.5	0.3 ± 0.1	<0.1
	6-12	0.3 ± 0.2	2.0 ± 0.6	0.2 ± 0.1	<0.1
Mill Creek at Road E-2[b]	0.3	0.0 ± 0.1	1.0 ± 0.6	0.1 ± 0.1	<0.1
	3-6	0.1 ± 0.2	1.0 ± 0.5	0.3 ± 0.1	<0.1
	6-12	0.2 ± 0.2	0.5 ± 0.5	0.6 ± 0.1	<0.1

[a] Sampled in nearest running water to 100-R seepage basins.

[b] Sampled approximately 200 yards from juncture of Mill Creek with Tinker Creek.

All sediment samples collected July 24, 1986

TABLE 9-25
OLD R-AREA CANAL SURVEY, RADIOACTIVITY IN SOIL

Distance from Diversion Box	Core Depth (in.)	Co-60 (pCi/g)	Cs-137 (pCi/g)
250 meters	0-3"	-	1.2 ± 0.1
	3-6"	-	1.2 ± 0.1
	6-12"	-	1.8 ± 0.1
	12-18"	-	0.2 ± 0.1
	18-24"	-	-
	24-30"	-	0.3 ± 0.1
700 meters	0-3"	9.0 ± 0.7	400.0 ± 6.0
	3-6"	5.1 ± 0.4	224.0 ± 3.1
	6-12"	1.3 ± 0.2	54.7 ± 1.4
	12-18"	1.6 ± 0.2	60.4 ± 1.5
	18-24"	1.0 ± 0.2	31.7 ± 1.0
	24-30"	-	9.7 ± 0.5
900 meters	0-3"	8.9 ± 0.8	218.0 ± 4.4
	3-6"	5.0 ± 0.5	131.0 ± 2.9
	6-12"	1.1 ± 0.2	27.8 ± 1.1
	12-18"	-	1.5 ± 0.2
	18-24"	-	2.7 ± 0.4
	24-30"	4.6 ± 1.4	1.2 ± 0.2

- indicates the sample did not measure over the detection level

TABLE 9-26
OLD AND NEW R-AREA CANAL SURVEYS, TLD MEASUREMENTS

R-AREA OLD CANAL

Distance from Diversion Box (Meters)	Canal Bottom (mR/Day)	North Canal (mR/Day)	100 Meters North of Canal (mR/Day)
0	0.57±0.09	0.21±0.03	0.15±0.02
300	0.17±0.03	0.13±0.02	0.14±0.02
600	0.26±0.04	0.20±0.03	0.17±0.03
900	0.26±0.04	0.29±0.04	1.34±0.20
1200	0.36±0.05	0.17±0.03	0.20±0.03
1500	0.35±0.05	0.90±0.14	0.21±0.03
1800	0.35±0.05	0.21±0.03	0.17±0.03
2100	0.33±0.05	0.18±0.03	0.19±0.03
2400	0.19±0.03	0.18±0.03	0.17±0.03
2700	0.17±0.03	0.23±0.03	0.18±0.03

Exposure period: 3/10/87 - 3/24/87

R-AREA NEW CANAL

Distance from Pond A (Meters)	Edge of Canal (mR/Day)	In Canal (mR/Day)
0	0.20±0.03	0.27±0.04
300	0.35±0.05	0.53±0.08
600	0.19±0.03	0.34±0.05
900	0.24±0.04	0.64±0.10
1200	0.21±0.03	1.14±0.17
1500	0.20±0.03	0.23±0.03
1800	0.22±0.03	0.62±0.09
2100	0.21±0.03	0.20±0.03
2400	0.22±0.03	1.23±0.18
2700	0.21±0.03	1.10±0.16
Between Diversion Box and Pond A	0.18±0.03	0.21±0.03

Exposure period: 9/15/87 - 10/14/87

TABLE 9-27
NEW R-AREA CANAL SURVEY, RADIOACTIVITY IN SOIL

(pCi/g)

R-AREA NEW CANAL

Distance From Pond A	Depth	In Canal Sr-89,90	In Canal Cs-137	North Side Sr-89, 90	North Side Cs-137	South Side Sr-89, 90	South Side Cs-137
600 Meters	0-6"	0.29 ±0.04	65.12 ± 3.71	0.09 ± 0.03	0.79 ± 0.09	0.16 ±0.04	0.60 ±0.07
	6-12"	0.25 ±0.04	0.27 ± 0.06	0.07 ± 0.03	0.14 ± 0.03	0.28 ±0.04	0.28 ±0.05
1200 Meters	0-6"	0.53 ±0.06	231.70 ±12.65	0.10 ± 0.04	0.00 ± 0.16	0.18 ±0.04	0.00 ±0.20
	6-12"	0.13 ±0.04	2.80 ± 0.17	0.14 ± 0.04	0.00 ± 0.15	0.56 ±0.12	0.32 ±0.09
1800 Meters	0-6"	0.17 ±0.04	1.65 ± 0.16	0.18 ± 0.04	0.39 ± 0.08	0.12 ±0.04	0.24 ±0.06
	6-12"	0.06 ±0.03	0.35 ± 0.08	0.09 ± 0.04	0.21 ± 0.07	0.15 ±0.04	0.15 ±0.05

R-AREA POND A

Location	Depth	Sr-89, 90	Cs-137
Inlet	0-6"	0.35 ± 0.08	8.96 ± 0.56
	6-12"	0.07 ± 0.03	0.53 ± 0.07
North Side	0-6"	0.04 ± 0.03	6.58 ± 0.43
	6-12"	0.08 ± 0.03	0.62 ± 0.07
South Side	0-6"	0.07 ± 0.03	28.73 ± 1.63
	6-12"	0.06 ± 0.03	0.72 ± 0.09
Effluent	0-6"	0.14 ± 0.04	4.89 ± 0.32
	6-12"	0.17 ± 0.04	0.82 ± 0.18

TABLE 9-28
CESIUM-137 CONCENTRATIONS IN THE SAVANNAH RIVER[a]

	Maximum (pCi/L)	CT ERR 95% CL	Average (pCi/L)	Std Dev
Above SRS at Shell Bluff:				
1983	0.020	±0.003	0.016	±0.003
1984	0.029	±0.003	0.012	±0.005
1985	0.032	±0.003	0.015	±0.007
1986	0.035	±0.003	0.021	±0.007
1987	0.020	±0.002	0.010	±0.005
1988	0.068	±0.005	0.014	±0.032
Average (1983 - 1988)			0.015	±0.007
Below SRS at Highway 301:				
1983	0.116	±0.009	0.067	±0.021
1984	0.159	±0.010	0.064	±0.022
1985	0.223	±0.006	0.077	±0.045
1986	0.213	±0.004	0.114	±0.039
1987	0.122	±0.014	0.074	±0.050
1988	0.122	±0.014	0.065	±0.051
Average (1983 - 1988)			0.077	±0.038

[a] Concentrations determined using special low-level analysis techniques.

Chapter 10

Quality Assurance of Environmental Monitoring Programs

TABLE 10-1
SRS ENVIRONMENTAL MONITORING
BLIND SAMPLE RESULTS FOR THE SECOND QUARTER

GAMMA SPECTROMETRY

Nuclide and HPGe Detector Number	EM Lab pCi/L	Actual Value Blind Sample pCi/L	Ratio Found/Actual	% Error
Cs-134				
Detector 2	506	512	0.98	1.2
Detector 2	496	512	0.97	3.1
Detector 3	501	512	0.97	2.1
Detector 4	467	512	0.91	8.8
Average	493	512	0.96	3.7
Cs-137				
Detector 2	808	752	1.07	6.9
Detector 2	786	752	1.05	4.3
Detector 3	814	752	1.08	7.5
Detector 4	813	752	1.08	7.6
Average	805	752	1.07	6.6
Ru-106				
Detector 2	856	840	1.03	1.9
Detector 2	786	840	0.94	6.4
Detector 3	851	840	1.01	1.3
Detector 4	796	840	0.95	5.2
Average	822	840	0.98	3.7
Zn-65				
Detector 2	769	752	1.02	2.2
Detector 2	827	752	1.10	9.1
Detector 3	860	752	1.14	12.5
Detector 4	767	752	1.02	2.0
Average	806	752	1.07	6.5
Co-60				
Detector 2	516	552	0.94	6.5
Detector 2	572	552	1.04	3.5
Detector 3	577	552	1.05	4.3
Detector 4	500	552	0.91	9.4
Average	542	552	0.99	5.9

TABLE 10-2
SRS ENVIRONMENTAL MONITORING BLIND SAMPLE RESULTS FOR THE FOURTH QUARTER

GAMMA SPECTROMETRY

Nuclide and HPGe Detector Number	EM Lab pCi/L	Actual Value Blind Sample pCi/L	Ratio Found/Actual
Cr-51			
Detector 2	1,780 ± 391	2,005 ± 199	0.89
Detector 3	2,268 ± 453	2,005 ± 199	1.13
Detector 4	1,910 ± 318	2,005 ± 199	0.95
Co-60			
Detector 2	98.7 ± 5	100 ± 32	0.99
Detector 3	103 ± 5	100 ± 32	1.03
Detector 4	95 ± 5	100 ± 32	0.95
Zn-65			
Detector 2	705 ± 38	670 ± 66	1.05
Detector 3	690 ± 37	670 ± 66	1.03
Detector 4	657 ± 33	670 ± 66	0.98
Ru-106			
Detector 2	1,227 ± 69	1,295 ± 133	0.95
Detector 3	1,255 ± 78	1,295 ± 133	0.97
Detector 4	1,094 ± 63	1,295 ± 133	0.84
Cs-134			
Detector 2	127 ± 5	133 ± 32	0.95
Detector 3	125 ± 5	133 ± 32	0.93
Detector 4	110 ± 4	133 ± 32	0.83
Cs-137			
Detector 2	167 ± 10	166 ± 32	1.00
Detector 3	176 ± 11	166 ± 32	1.06
Detector 4	156 ± 9	166 ± 32	0.94

TABLE 10-3
SRS ENVIRONMENTAL MONITORING
BLIND SAMPLE RESULTS FOR TRITIUM

TRITIUM ANALYSES

Sample Number	H-3 pCi/mL	Actual H-3 Value pCi/mL	Ratio Found/Actual
Sample 9	5.87 ± 0.37	6.7	0.88
Sample 10	6.76 ± 1.24	6.7	1.01
Sample 15	1.44 ± 0.78	1.62	0.89
Sample 16	6.12 ± 0.99	6.74	0.91
Sample 18	4.87 ± 0.86	5.14	0.95
Sample 19	2.87 ± 0.79	3.43	0.84
Sample 20	0.80 ± 0.55	0.99	0.81
Sample 21	4.88 ± 0.60	5.23	0.93
Sample 24	3.91 ± 0.48	3.91	1.0
Sample 25	2.13 ± 0.48	2.37	0.90
Short Count Spike	1,330 ± 5.15	1,285.6	1.03
Long Count Spike	1,120 ± 4.73	1,045.9	1.07
Sample 29	1.61 ± 0.44	1.48	1.09
Sample 31	4.94 ± 0.52	5.19	0.95
Sample 33	3.40 ± 0.50	3.76[a]	0.90
Sample 34	2.89 ± 0.49	2.54[a]	1.13

[a] These blind samples are NIST traceable tritium standards having 1% uncertainty, diluted to this lower level of approximately double and triple the LLD level of 1.2 pCi/mL when counted for 20 minutes.

TABLE 10-4
SRS ENVIRONMENTAL MONITORING BLIND SAMPLE RESULTS FOR STRONTIUM-90 AND SULFUR-35

STRONTIUM ANALYSES

Sample Number	Sr-90 pCi/L	Actual Sr-90 Value pCi/L	Result
Sample 17	21.2 ± 6.58	24.5	0.84
Sample 17-B	787.73 ± 227.9	846	0.93

SULFUR-35 ANALYSES

Sample Number	S-35 pCi/mL	Actual S-35 pCi/mL	Result
Sample 27	0.84	1.00	0.84

TABLE 10-5
QAD INTERLABORATORY COMPARISON OF ANALYTICAL RESULTS[a]

Sample Date	Nuclide	SRS Value	QAD Value	QAD SRS Ratio	No. of Labs	Mean Value
		Water Samples, pCi/L				
01/22/88	Alpha	3.33 ± 1.53	4.0 ± 5.0	.83	155	3.87 ± 1.62
03/18/88	Alpha	4.7 ± .6	6.0 ± 5.0	.78	121	5.58 ± 1.73
04/24/88	Alpha	34 ± 4	46 ± 11	.74	116	45 ± 12
05/20/88	Alpha	19.3 ± 4.6	11 ± 5	1.75	129	9.4 ± 2.6
07/22/88	Alpha	12.33 ± 3	15 ± 5	.82	115	12.23 ± 2.87
09/23/88	Alpha	7.33 ± 2.5	8.0 ± 5.0	.92	137	7.58 ± 2.00
01/22/88	Beta	7.7 ± 0.6	8.0 ± 5.0	.96	146	8.3 ± 2.1
03/18/88	Beta	8.33 ± 2.08	13.0 ± 5.0	.64	122	12.9 ± 2.22
04/24/88	Beta	50 ± 2.5	57 ± 5	.88	114	57.8 ± 6.3
05/20/88	Beta	11 ± 2	11 ± 5	1.0	127	11.9 ± 2.2
07/22/88	Beta	5 ± 1.5	4 ± 5	1.25	113	5.73 ± 1.9
09/23/88	Beta	9.0 ± 1.9	10 ± 5	.90	135	10.45 ± 2.18
02/05/88	Co-60	65.7 ± 4.6	69.0 ± 5.0	.95	116	69.3 ± 5.11
04/24/88	Co-60	48 ± 3	50 ± 5	.96	92	51 ± 4
06/03/88	Co-60	17 ± 1.4	15 ± 5	1.13	117	15.95 ± 2.15
06/03/88	Cr-51	348 ± 26	302 ± 30	1.15	115	304 ± 31
02/05/88	Cs-134	60.7 ± 0.6	64.0 ± 5.0	.95	119	60.1 ± 5.0
04/24/88	Cs-134	6 ± 1.5	7 ± 5	.86	83	7.2 ± 1.6
06/03/88	Cs-134	21 ± 1.15	20 ± 5	1.05	117	19.3 ± 2.02
02/05/88	Cs-137	100.0 ± 2.0	94.0 ± 5.0	1.06	114	94.2 ± 6.3
04/24/88	Cs-137	7 ± 1.5	7 ± 5	1.0	86	8 ± 1.6
06/03/88	Cs-137	30.7 ± 1.15	25 ± 5	1.23	119	25.9 ± 3.05
02/12/88	H-3	3,813 ±164	3,327 ± 362	1.15	109	3,358 ±338
06/10/88	H-3	5,680 ±290	5,565 ± 557	1.02	115	5,394 ±505
10/14/88	H-3	2,300 ±150	2,316 ± 350	.99	110	2,317 ±238
08/12/88	Pu-239	10.9 ± .6	10.2 ± 1	1.07	40	9.78 ± .696
02/05/88	Ru-106	98.0 ± 2.65	105.0 ± 10.5	.93	113	99.6 ± 12.7
06/03/88	Ru-106	218 ± 10	195 ± 20	1.12	119	191 ± 16
01/08/88	Sr-89	30.0 ± 5.2	30.0 ± 5.0	1.0	66	27.76 ± 5.63
04/24/88	Sr-89	5 ± 7	5 ± 5	1.0	58	5.56 ± 1.86
05/06/88	Sr-89	16.3 ± 9.9	20 ± 5	.8	66	18.8 ± 5.8
01/08/88	Sr-90	13.7 ± 0.6	15.0 ± 1.5	.91	67	14.3 ± 1.56
04/24/88	Sr-90	3.7 ± 2.0	5 ± 1.5	.74	67	5.1 ± 1.04
05/06/88	Sr-90	10.3 ± 3.2	20 ± 1.5	.52	71	18.6 ± 3.5
02/19/88	U	2.7 ± .6	3.0 ± 6.0	.9	91	3.41 ± 1.22
08/19/88	U	6 ± 2	6 ± 6	1.0	96	6.1 ± 1.5
02/05/88	Zr-95	96.0 ± 5.3	94.0 ± 9.4	1.02	117	96.1 ± 7.31
06/03/88	Zn-65	117 ± 6	101 ± 10	1.16	119	103 ± 7.4

[a] Environmental Protection Agency Quality Assurance Division (QAD)

TABLE 10-5
QAD INTERLABORATORY COMPARISON OF ANALYTICAL RESULTS, CONT'D.[a]

Sample Date	Nuclide	SRS Value	QAD Value	QAD SRS Ratio	No. of Labs	Mean Value
		Food Samples, pCi/L				
01/29/88	Cs-137	62.7 ± 5.5	91.0 ± 5.0	.69	49	91.0 ± 6.5
07/29/88	Cs-137	44 ± 4	49 ± 5	.90	43	48.1 ± 2.8
07/29/88	I-131	100 ± 25	107 ± 11	.93	41	107.5 ± 7.8
07/29/88	Sr-89	50 ± 30	33 ± 5	1.67	18	25.8 ± 10.7
01/29/88	Sr-90	67.0 ± 37.8	55.0 ± 2.75	1.22	23	52.6 ± 5.7
07/29/88	Sr-90	30 ± 90	34 ± 2	.88	21	31.4 ± 5.9
		Air Samples, pCi/g				
03/25/88	Alpha	19 ± 2.6	20 ± 5	.95	110	22.6 ± 4.7
03/25/88	Beta	48 ± 4	50 ± 5	.96	113	53.3 ± 6.0
03/25/88	Sr-90	15 ± 1.2	17 ± 1.5	.88	58	17.09 ± 2.43
		Milk Samples, pCi/L				
06/24/88	Cs-137	54 ± 4	51 ± 5	1.06	77	51.9 ± 3.6
06/24/88	Sr-90	78 ± 11	60 ± 3	1.30	43	56.16 ± 10.1

[a] Environmental Protection Agency Quality Assurance Division (QAD)

TABLE 10-6
QAP INTERLABORATORY COMPARISON
OF ANALYTICAL RESULTS[a]

Nuclide / Sample	SRS Value	QAP Value	QAP SRS Ratio	No. of Labs	Mean Value of Labs	Labs Within .8-1.2
		March-June 1988				
Air:						
Am-241	3.73[b] ± 1.1200	3.020	1.23	14	2.890	75%
Be-7	5,886.000[b] ± 96.0000	4,730.000	1.24	36	4,520.000	86%
Co-57	187.0[b] ± 4.0000	162.000	1.15	37	156.000	84%
Co-60	311.0[b] ± 6.0000	282.000	1.10	35	277.000	78%
Cs-134	425.000 ± 5.0000	381.000	1.11	35	336.000	65%
Mn-54	1,036.000 ± 10.0000	363.000	2.85	37	369.000	84%
Pu-239	2.920 ± 0.1400	2.520	1.16	27	2.490	77%
Sr-90	1.680 ± 0.3800	4.910	0.34	18	5.040	70%
U-ug	5.700 ± 1.6800	7.320	0.78	11	7.310	81%
Soil:						
Cs-137	0.470 ± 0.0300	0.400	1.17	34	0.400	79%
Pu-239	0.031 ± 0.0020	0.057	0.54	25	0.055	48%
Vegetation:						
Cs-137	5.400 ± 0.1000	4.620	1.17	28	5.010	65%
Pu-239	0.032 ± 0.0020	0.045	0.71	20	0.059	18%
Water:						
Am-241	0.005 ± 0.0090	0.004	1.25	17	0.004	72%
Co-57	1.970 ± 0.0400	2.050	0.96	35	1.920	97%
Co-60	1.830 ± 0.0600	2.030	0.90	35	1.870	97%
Cs-134	3.070 ± 0.0800	3.560	0.86	35	3.000	77%
Cs-137	1.780 ± 0.0800	1.840	0.97	36	1.780	100%
H-3	20.800 ± 0.5000	20.700	1.00	34	20.400	85%
Mn-54	7.080 ± 0.1300	6.800	1.04	35	7.070	94%
Pu-239	0.850 ± 0.0600	0.024	35.42	23	0.019	46%
Sr-90	0.600 ± 0.0660	0.530	1.13	21	0.539	86%
U-ug	0.006 ± 0.0001	0.012	0.50	13	0.011	84%

[a] Quality Assessment Program (QAP) conducted by the DOE Environmental Measurements Laboratory (EML).

[b] The SRS value was reported twice, as shown, due to a mathematical error.

TABLE 10-6
QAP INTERLABORATORY COMPARISON OF ANALYTICAL RESULTS, CONT'D.[a]

Nuclide / Sample	SRS Value	QAP Value	QAP SRS Ratio	No. of Labs	Mean Value of Labs	Labs Within .8-1.2
		September-December 1988				
Air:						
Am-241	7.880 ± 1.9700	5.780	1.36	16	5.950	68%
Be-7	2,820.000 ± 84.6000	2,160.000	1.31	36	2,290.000	81%
Co-57	474.000 ± 7.1000	394.000	1.20	38	394.000	84%
Co-60	217.000 ± 5.6400	191.000	1.14	38	175.000	81%
Cs-134	354.000 ± 10.6200	245.000	1.44	36	257.000	86%
Mn-54	272.000 ± 10.3000	185.000	1.47	37	198.000	84%
Pu-239	1.220 ± 0.0850	1.090	1.12	25	1.210	76%
Sr-90	1.400 ± 0.7300	9.500	0.15	19	9.270	70%
U-ug	5.720 ± 0.0750	7.100	0.81	11	6.830	100%
Soil:						
Cs-137	1.090 ± 0.1200	0.910	1.20	32	0.970	66%
K-40	8.260 ± 1.2400	7.480	1.10	23	7.810	75%
Pu-239	0.414 ± 0.0070	0.380	1.09	25	0.392	92%
Sr-90	0.680 ± 0.2890	1.390	0.49	18	1.270	40%
Vegetation:						
Cs-137	2.100 ± 0.2270	1.520	1.38	28	1.600	71%
K-40	15.000 ± 2.2500	10.500	1.43	21	9.960	59%
Pu-239	0.018 ± 0.0010	0.021	0.86	16	0.022	73%
Sr-90	0.660 ± 0.1480	3.800	0.17	15	3.910	87%
Water:						
Am-241	0.019 ± 0.0140	0.016	1.19	14	0.017	73%
Co-57	3.840 ± 0.1920	3.360	1.14	37	3.740	91%
Cs-134	1.070 ± 0.1570	3.380	1.07	37	3.870	100%
Cs-137	2.100 ± 0.1260	1.950	1.08	37	2.130	77%
H-3	10.610 ± 0.2600	10.600	1.00	30	11.200	84%
Mn-54	1.610 ± 0.0690	1.520	1.06	36	1.610	97%
Pu-239	0.005 ± 0.0005	0.005	1.00	25	0.005	84%
Sr-90	0.968 ± 0.1100	0.930	1.04	19	0.831	80%
U-ug	0.008 ± 0.0001	0.012	0.67	12	0.013	69%

[a] Quality Assessment Program (QAP) conducted by the DOE Environmental Measurements Laboratory (EML)

TABLE 10-7
AMBIENT AIR MONITORING STATION
QA AUDIT RESULTS

QUARTER 1, JANUARY 20, 21, AND MARCH 29, 1988

Site	Analyzer	% Average Difference, (ppm)	Linear Regression Slope	Linear Regression Intercept	Correlation Coefficient
614-36G[a]	NO				
614-38G	NO	-1.3	1.003	0.003	0.9998
614-39G	NO	0.8	1.019	-0.001	0.9998
614-40G	NO	-5.4	0.953	-0.001	0.9999
614-41G	NO	-2.5	0.930	0.007	0.9999
614-36G[a]	NO_x				
614-38G	NO_x	-3.4	0.983	-0.002	0.9997
614-39G	NO_x	-1.0	1.006	-0.002	0.9999
614-40G	NO_x	-5.7	0.955	-0.002	0.9999
614-41G	NO_x	-0.3	0.990	0.000	0.9999
614-36G[a]	NO_2				
614-38G	NO_2	-0.8	0.995	-0.001	0.9999
614-39G	NO_2	-3.2	0.995	-0.003	0.9999
614-40G	NO_2	-6.6	0.969	-0.003	0.9994
614-41G	NO_2	1.6	0.982	0.002	0.9994
614-36G[a]	SO_2				
614-37G[b]	SO_2				
614-39G	SO_2	0.6	1.012	0.000	0.9999
614-40G	SO_2	6.1	1.049	0.002	0.9999
614-39G	O_3	1.0	1.040	-0.005	0.9999

Total Suspended Particulates

Sampler	Average % Flow Difference
614-38G	-9.7
614-39G (Routine)	-6.8
614-39G (Co-Location)	-6.8
614-40G	-13.4
614-41G	-1.2

[a] Station 614-36G was not placed into service until the fourth quarter 1988.
[b] Station 614-37G was taken out of service in 1988.

TABLE 10-7
AMBIENT AIR MONITORING STATION
QA AUDIT RESULTS, CONT'D.

QUARTER 4, JANUARY 3, 4, AND 5, 1989

Site	Analyzer	% Average Difference, (ppm)	Linear Regression Slope	Linear Regression Intercept	Correlation Coefficient
614-36G	NO_2	1.6	1.0379	-0.0004	0.9992
614-38G	NO_2	-0.2	1.0034	-0.0006	0.9990
614-39G[a]	NO_2	-	-	-	-
614-40G	NO_2	4.7	1.0734	-0.0009	0.9990
614-41G	NO_2	-3.5	1.0212	-0.0043	0.9990
614-36G	SO_2	-1.3	0.9636	0.0036	0.9999
614-37G	SO_2				
614-39G[a]	SO_2	-	-	-	-
614-40G	SO_2	-3.7	0.9723	-0.0007	0.9999
614-36G	O_3	-12.4	0.932	0.0046	0.9998
614-39G[a]	O_3	-	-	-	-

Total Suspended Particulates

Sampler	Average % Flow Difference
614-36G[a]	-4.5
614-38G	0.0
614-39G (Routine)	1.0
614-39G (Co-Location)	-0.2
614-40G	3.8
614-41G	1.0

[a] Due to a heating and air conditioning system malfunction, station 614-39G was not audited.

TABLE 10-7
AMBIENT AIR MONITORING STATION
QA AUDIT RESULTS, CONT'D.

QUARTER 3, OCTOBER 10, 11, AND 12, 1988

Site	Analyzer	% Average Difference, ppm	Linear Regression Slope	Linear Regression Intercept	Correlation Coefficient
614-36G[a]	NO_2				
614-38G	NO_2	4.3	1.0492	-0.0014	1.0000
614-39G	NO_2	1.9	0.9961	-0.0010	0.9999
614-40G	NO_2	-0.7	1.0300	-0.0027	0.9955
614-41G	NO_2	-2.3	0.9801	-0.0010	1.0003
614-36G[a]	SO_2				
614-37G[b]	SO_2				
614-39G	SO_2	2.3	0.9901	0.0045	0.9995
614-40G	SO_2	2.3	0.9929	0.0040	0.9996
614-39G	O_3	10.8	1.0976	0.0022	0.9999

PM-10 Particulates

Sampler	Average % Flow Difference
614-38G	2.6
614-39G (Routine)	2.0
614-39G (Co-Location)	1.8
614-40G	-0.7
614-41G	0.2

[a] Station 614-36G was not placed into service until the fourth quarter 1988.
[b] Station 614-37G was taken out of service in 1988.

TABLE 10-8
EPA INTERLABORATORY AUDIT RESULTS

Site	Analyzer	%Average Difference	Linear Regression Slope	Linear Regression Intercept
614-40G	SO_2	-1.3	0.974	0.0012
614-39G	SO_2	-3.1	0.962	0.0005

TABLE 10-9
NPDES DUPLICATE SAMPLE RESULTS

SECOND QUARTER

NPDES Site	Parameter Sampled	Unit	NPDES Site Result	Duplicate Sample Result	Difference
F-003	Biochemical Oxygen Demand	mg/L	1.6	1.9	0.3
A-003	Chromium	mg/L	<0.05	<0.05	0
M-005	1,1,1-Trichloroethane	mg/L	<2.00	<2.00	0
X-008	Total Iron	mg/L	1.62	1.54	0.08
X-008	Total Aluminum	mg/L	0.092	0.092	0
M-004	Uranium	mg/L	<0.02	<0.02	0
M-004	Nitrate	mg/L	77.0	78.3	1.3
SC-04	Phosphate	mg/L	0.064	0.065	0.001
M-005	Trichloroethylene	mg/L	<2.0	<2.0	0
M-005	Tetrachloroethylene	mg/L	<2.0	<2.0	0
K-011	Total Nonfilterable Residue	mg/L	3.0	3.0	0
K-006	Oil & Grease	mg/L	<1	<1	0
D-006	*Fecal Coliform*	#/100	130	180	50
H-012	Sulfate	mg/L	16.2	15.1	1.1

THIRD QUARTER

A-005	Biochemical Oxygen Demand	mg/L	1.5	1.4	0.1
A-011	Biochemical Oxygen Demand	mg/L	4.1	4.0	0.1
A-003	Chromium	mg/L	<0.02	<0.02	0
A-005	1,1,1-Trichloroethane	mg/L	<2.00	<2.00	0
X-008	Total Iron	mg/L	0.898	0.912	0.014
P-007	Total Aluminum	mg/L	0.079	0.060	0.019
M-004	Uranium	mg/L	0.028	0.024	0.004
M-004	Nitrate	mg/L	53.6	54.2	1.4
SC-004	Phosphate	mg/L	0.08	0.076	0.004
A-014	Trichloroethylene	mg/L	<2.0	<2.0	0
A-014	Tetrachloroethylene	mg/L	<2.0	<2.0	0
C-004	Total Nonfilterable Residue	mg/L	3.0	3.0	0
A-005	Oil & Grease	mg/L	<1.0	<1.0	0
D-006	Fecal Coliform	#/100	68	72	4

FOURTH QUARTER

A-005	Biochemical Oxygen Demand	mg/L	2.0	1.8	0.2
F-003	Biochemical Oxygen Demand	mg/L	1.3	1.0	0.3
A-003	Chromium	mg/L	<0.02	<0.02	0
A-005	1,1,1-Trichloroethane	mg/L	<2.0	<2.0	0
X-008	Total Iron	mg/L	0.395	0.408	0.013
P-007	Total Aluminum	mg/L	0.1	0.08	0.018
M-004	Uranium	mg/L	0.095	0.103	0.008
M-004	Nitrate	mg/L	46.8	47.6	0.80
SC-004	Phosphate	mg/L	0.032	0.036	0.004
H-016	Ammonioa	mg/L	0.063	0.057	0.006
K-001	Total Nonfilterable Residue	mg/L	4.0	5.0	1.0
K-001	Oil & Grease	mg/L	<1	<1	0
A-005	Fecal Coliform	#/100	2.0	2.0	0

TABLE 10-10
NPDES BLIND SAMPLE RESULTS

FIRST QUARTER

NPDES Site	Parameter Sampled	Unit	NPDES Site Result	Blind Sample Result	Difference
A-003	Biochemical Oxygen Demand	mg/L	2.7	2.4	0.3
A-003	Chromium	mg/L	<0.05	<0.05	0
A-005	1,1,1-Trichloroethane	mg/L	<1.00	<1.00	0
X-008	Total Iron	mg/L	1.07	0.969	0.101
X-008	Total Aluminum	mg/L	<1.0	<1.0	0
M-004	Uranium	mg/L	0.38	0.34	0.04
M-004	Nitrate	mg/L	268	267	1
M-004	Phosphate	mg/L	23.5	24.1	0.6
A-005	Trichloroethylene	mg/L	11.9	11.3	0.6
A-005	Tetrachloroethylene	mg/L	<1.0	<1.0	0
D-001	Total Nonfilterable Residue	mg/L	8	8	0
D-001	Oil & Grease	mg/L	<1	<1	0
D-006	Fecal Coliform	#/100	100	120	20
K-001	Sulfate	mg/L	3.1	<1	2.1
SC-004	Phosphate	mg/L	0.053	0.053	0

SECOND QUARTER

F-003	Biochemical Oxygen Demand	mg/L	1.6	1.9	0.3
A-003	Chromium	mg/L	<0.05	<0.05	0
M-005	1,1,1-Trichloroethane	mg/L	<2.00	<2.00	0
X-008	Total Iron	mg/L	1.62	1.54	0.08
X-008	Total Aluminum	mg/L	0.092	0.092	0
M-004	Uranium	mg/L	<0.02	<0.02	0
M-004	Nitrate	mg/L	77.0	78.3	1.3
SC-04	Phosphate	mg/L	0.064	0.065	0.001
M-005	Trichloroethylene	mg/L	<2.0	<2.0	0
M-005	Tetrachloroethylene	mg/L	<2.0	<2.0	0
K-011	Total Nonfilterable Residue	mg/L	3	3	0
K-006	Oil & Grease	mg/L	<1	<1	0
D-006	Fecal Coliform	#/100	130	180	50
H-012	Sulfate	mg/L	16.2	15.1	1.1

THIRD QUARTER

A-001	Biochemical Oxygen Demand	mg/L	<1	<1	0
A-003	Chromium	mg/L	<0.02	<0.02	0
DW-002	Oil & Grease	mg/L	3.4	3.3	0.1
X-008	Total Iron	mg/L	0.898	0.912	0.014
M-004	Nitrate	mg/L	157	109	48
SC-004	Phosphate	mg/L	0.11	0.11	0
M-004	Phosphate	mg/L	1.34	1.33	0.01
SC-004	Phosphate	mg/L	0.08	0.076	0.004
M-004	Uranium	mg/L	0.028	0.023	0.005
P-007	Total Nonfilterable Residue	mg/L	1	1	0
P-007	Iron	mg/L	0.358	0.306	0.052
D-006	Fecal Coliform	#/100	100	120	20

TABLE 10-11
NPDES INTERLABORATORY QUALITY ASSURANCE PROGRAM, TEST #1

Nonmetals Analysis

Parameter	Units	Theoretical Value	Result Range	ECS[a] Result	Carr[b] Result
pH	mg/L	9.1	8.9 - 9.3	9.03	8.85
Conductivity	µmohs/cm	1380	1280 - 1480	1332	1390
Alkalinity	mg/L	211	190 - 232	156[c]	226
Chlorine	mg/L	328	300 - 356	324	322
Fluoride	mg/L	7.1	6.6 - 7.6	7.33	7.37
Biochemical Oxygen Demand	mg/L	43	35 - 50	25.9[c]	NR
Cyanide	mg/L	0.12	0.091 - 0.131	0.12	0.09
Chemical Oxygen Deman	mg/L	77	60 - 94.0	66.4	60.0
Total Phosphorus	mg/L	4.4	3.6 - 5.2	4.16	4.2
Nitrate	mg/L	6.4	5.6 - 7.1	6.64	6.10
Ammonia	mg/L	4.7	4.0 - 5.4	4.72	4.30
Total Nonfilterable Residue	mg/L	24	20 - 28	21	NR
Sulfate	mg/L	78	65 - 85	75.1	NR

Metals Analysis

Parameter	Units	Theoretical Value	Result Range	ECS[a] Result	Carr[b] Result
Aluminum	µg/L	180	150 - 190	181	180
Arsenic	µg/L	40	35 - 45	38.2	30[c]
Barium	µg/L	42	38 - 46	38.1	40
Cadmium	µg/L	63	53 - 73	68	70
Chromium	µg/L	203	195 - 211	232[c]	180[c]
Copper	µg/L	72	61 - 83	79	80
Iron	µg/L	217	171 - 263	201	210
Lead	µg/L	212	186 - 238	220	114[c]
Mercury	µg/L	5.8	5.3 - 6.3	6.3	5.5
Magnesium	µg/L	0	0 - 0	<10	<5
Manganese	µg/L	127	104 - 150	147	150
Nickel	µg/L	115	91 - 139	127	120
Selenium	µg/L	38	22 - 54.0	45.7	60.0[c]
Silver	µg/L	64	48 - 80	51.6	220[c]
Zinc	µg/L	225	207 - 243	237	240

[a] Environmental & Chemical Sciences/Normandeau Associates, Inc., an independent subcontracted laboratory.

[b] James H. Carr & Associates, Inc., an independent subcontracted laboratory.

[c] Not within accepted result range.

NR - Analysis not requested
A - Acceptable
NA - Not acceptable

TABLE 10-11
NPDES INTERLABORATORY QUALITY ASSURANCE PROGRAM, TEST #1, CONT'D.

Organics

Parameter	Units	Theoretical Value	Result Range	ECS[a] Result	Carr[b] Result
Chloroform	µg/L	34	20 - 48	22.3	NR
Bromodichlor-methane	µg/L	17	10 - 24	11.5	NR
Chlorodibromo-methane	µg/L	5.4	3.5 - 7.2	4.81	NR
Bromoform	µg/L	4	2.6 - 5.4	3.26	NR
Total Organic Carbon	mg/L	32	25 - 39	28.5	20.5[c]
Oil & Grease	mg/L	36	28 - 43	28.4	NR

[a] Environmental & Chemical Sciences/Nornamdeau Associates, Inc., an independent subcontracted laboratory.

[b] James H. Carr & Associates, Inc., an independent subcontracted laboratory.

[c] Not within accepted result range.

NR - Analysis not requested
A - Acceptable
NA- Not acceptable

TABLE 10-12
INTERLABORATORY QUALITY ASSURANCE PROGRAM, TEST #2

Parameter	Units	Theoretical Value	Result Range	ECS[a] Result	Carr[b] Result
Nonmetals Analysis					
pH	pH	9.0	8.8 - 9.2	9.17	9.0
Conductivity	µmohs/cm	1,710.0	1,540 - 1,880	1,830	1,700
Alkalinity	mg/L	190.0	177 - 203	192	192
Chloride	mg/L	309.0	287 - 331	297	303
Fluoride	mg/L	9.7	8.4 - 11.0	9.29	9.8
Biochemical Oxygen Demand	mg/L	71.0	53 - 89	40.7	63
Cyanide	mg/L	0.10	0.080 - 0.120	0.098	0.092
Chemical Oxygen Demand	mg/L	118.0	99 - 137	85.5	102
Total Phosphorus	mg/L	4.5	4.1 4.9	4.46	4.40
Nitrate	mg/L	4.9	4.4 5.4	5.08	4.75
Ammonia	mg/L	6.6	5.7 - 7.5	5.50	6.4
Sulfate	mg/L	190.0	171 - 209	182	182
Oil & Grease	mg/L	43.0	34 - 52	36	37.6
Total Organic Carbon	mg/L	46.0	35 - 57	42.9	43
Phenol	mg/L	0.1651	0.115 - 0.215	0.178	0.510
Dissolved solids	mg/L	1,340.0	1,210 - 1,470	1,180	1,292
Total Kjeldahl nitrogen	mg/L	5.2	4.2 - 6.2	4.04	5.0
Metals Analysis					
Aluminum	µg/L	111	83 - 139	126	122
Arsenic	µg/L	105	79 - 131	111	89.3
Barium	µg/L	60	45 - 75	63.3	61.2
Beryllium	µg/L	56.1	42 - 70	52.3	59
Boron	µg/L	92.4	69 - 116	99	108
Cadmium	µg/L	181	136 - 226	198	183
Calcium	µg/L	0	0 0	<10	<5
Chromium	µg/L	300	225 - 375	344	301
Copper	µg/L	140	105 - 175	148	144
Iron	µg/L	166	124 - 208	174	159
Lead	µg/L	156	117 - 195	142	157
Mercury	µg/L	6.5	4.9 - 8.1	5.85	7.98
Magnesium	µg/L	0	0 0	<10	<5
Manganese	µg/L	263	197 - 329	286	248
Nickel	µg/L	142	106 - 178	146	139
Zinc	µg/L	340	255 - 425	343	345
Organics					
Gamma-BHC	µg/L	0.081	0.023 - 0.11	0.093	0.093
Endrin	µg/L	0.160	0.048 - 0.24	0.155	0.171
Methoxychlor	µg/L	0.510	0.33 - 0.69	0.500	0.317
2,4-D	µg/L	0.096	0.026 - 0.11	0.146	0.822
2,4,5-TP	µg/L	0.019	0.007 - 0.027	0.198	0.577

[a] Environmental & Chemical Science/Normandeau Associates, Inc., an independent subcontract laboratory.

[b] James H. Carr & Associates, Inc., an independent subcontract laboratory.

TABLE 10-12
INTERLABORATORY QUALITY ASSURANCE PROGRAM, TEST #2, CONT'D.

Parameter	Units	Theoretical Value	Result Range	ECS[a] Result	Carr[b] Result
Halomethanes					
Chloroform	µg/L	35.6	24 - 43	35.5	37
Bromodichlormethane	µg/L	8.2	4.1 - 11	7.76	8.3
Chlorodibromomethane	µg/L	6.1	4.2 - 8.2	5.69	4.9
Bromoform	µg/L	3.6	1.6 - 5.6	3.66	4.2
Volatiles					
Methylene chloride	µg/L	77.8	27 - 160	91.9	101
1,1-dichloroethane	µg/L	23.3	11 - 33	19.5	25.2
Carbon tetrachloride	µg/L	12.6	8.8 - 15	11.8	11.5
1,1,2,2 -tetrachloroethane	µg/L	132	60 - 179	120	78.3
Benzene	µg/L	58.3	22 - 76	57.6	65.4
Chlorobenzene	µg/L	15.5	5.7 - 21	15.5	14.9
Pesticides					
Aldrin	µg/L	0.865	0.38 - 1.1	1.06	0.87
Alpha-BHC	µg/L	1.29	0.47 - 1.7	1.35	2.23
Endrin	µg/L	0.075	0.023 - 0.11	0.086	0.662
Endrin Aldehyde	µg/L	0.31	0.11 - 0.45	0.325	0.59
PCBs					
Aroclor	µg/L	0.122	0.05 - 0.19	.373	0.336
Base/Neutral					
Acenaphthene	µg/L	44.8	15 - 65	36.6	45.1
Benzyl butyl phthalate	µg/L	93.7	14 - 142	98	20.2
Bis(2-ethylhexyl) phthalate	µg/L	79.3	22 - 125	66.1	85.8
1,4-dichlorobenzene	µg/L	9.65	4.1 - 12	8.0	9.4
2,4-dinitrotoluene	µg/L	143	56 - 199	101	154
hexachloroethane	µg/L	24.2	9.7 - 27	19	18.9
1,2,4-trichlorobenzene	µg/L	62.6	27 - 89	54.4	50.90
2-chloronaphthalene	µg/L	13	7.8 - 15	9.06	11.6
Toxaphene					
Toxaphene	µg/L	2.09	0.86 - 2.6	2.11	1.64

[a] Environmental & Chemical Sciences/Nornamdeau Associates, Inc., an independent *subcontract laboratory.*

[b] James H. Carr & Associates, Inc., an independent subcontract laboratory.

TABLE 10-13
ECS/NORMANDEAU PERFORMANCE IN EPA INTERLABORATORY COMPARISON FOR DMR QA STUDY #008

Analysis	Report Value	True Value[a]	Acceptance Limits	Warning Limits
Trace Metals (µg/L)				
Aluminum	127	115	45.3 - 225.	67.7 - 203.
Cadmium	193	180	158. - 208.	164. - 202.
Chromium	993[b]	832	673. - 967.	709. - 930.
Copper	317	291	263. - 319.	270. - 312.
Iron	1,510	1,410	1,250. - 1,570.	1,290. -1,330.
Lead	174	171	143. - 200.	150. - 193.
Manganese	228	211	186. - 233.	192. - 227.
Nickel	619	571	492. - 646.	511. - 627.
Zinc	731	650	552. - 734.	574. - 712.
Arsenic	385	391	293. - 479.	316. - 455.
Beryllium	71.0	70.4	59.9 - 80.9	62.6 - 78.2
Cobalt	73.0	75.3	63.7 - 89.5	66.9 - 86.2
Selenium	34.2	32.0	19.3 - 40.7	21.9 - 38.0
Vandaium	1430.	1,310.	1,100. - 1,510.	1,150. - 1450.
Miscellaneous Analyses (mg/L)				
pH, pH units	7.48	7.50	7.28 - 7.66	7.33 - 7.61
Total suspended solids	54.0	56.3	44.9 - 67.7	47.7 - 64.9
Oil and grease	12.3	14.0	6.52 - 18.7	8.04 - 17.2
Total cyanide	0.430	0.460	0.308 - 0.587	.343 - .552
Total phenolics	0.130	0.134	0.0538- 0.214	.0740- .194
Total residual chlorine	4.0	4.14	2.97 - 4.88	3.22 - 4.63
Nutrients (mg/L)				
Ammonia-Nitrogen	2.11	2.10	1.59 - 2.63	1.71 - 2.50
Nitrate-Nitrogen	5.26	5.50	4.50 - 6.48	4.74 - 6.24
Total phosphorus	9.44	9.50	7.45 - 11.0	7.87 - 10.6
Kjeldahl-Nitrogen	7.94	8.10	5.98 - 10.0	6.47 - 9.53
Orthophosphate	1.11	1.10	.919 - 1.27	.961 - 1.23
Demand (mg/L)				
5-day Biochemical Oxygen Demand	11.9	16.0	7.54 - 24.4	9.63 - 22.3
Chemical Oxygen DemandOD	23.6	25.0	13.7 - 34.4	16.3 - 31.8
Total Organic Carbons	9.6	9.82	7.74 - 11.5	8.24 - 11.0

[a] Based on theoretical calculations, or a reference value when necessary.

[b] Deviations in high end of calibration curve on the ICP where not detected; an additional QA check is now conducted with the regular standards.

TABLE 10-14
ECS/NORMANDEAU PERFORMANCE IN EPA INTERLABORATORY COMPARISON FOR WP-020 STUDY

Analysis	Report Value	True Value[a]	Acceptance Limits	Warning Limits
Trace Metals (µg/L)				
Aluminum	120	115	45.3 - 225	67.7 - 203
	697	626	499 - 744	530 - 713
Arsenic	389	391	293 - 479	316 - 455
	112	111	81.6 - 137	88.6 - 130
Beryllium	73.0	70.4	59.9 - 80.9	62.6 - 78.2
	642	591	515 - 661	534 - 643
Cadmium	205	180	158 - 208	164 - 202
	299	270	240 - 311	249 - 302
Cobalt	77.0	75.3	63.7 - 89.5	66.9 - 86.2
	415	382	330 - 433	343 - 420
Chromium	1010	832	673 - 967	709 - 930
	81.0	89.2	64.6 - 109	70.1 - 104
Copper	326	291	263 - 319	270 - 312
	108	100	86.7 - 112	89.8 - 108
Iron	1570	1410	1250 - 1570	1290 - 1530
	821	763	684 - 854	705 - 833
Mercury	2.08	2.24	1.43 - 3.05	1.63 - 2.84
	0.789	0.936	0.478 - 1.39	0.594 - 1.28
Manganese	224	211	186 - 233	192 - 227
	942	860	769 - 941	790 - 920
Nickel	640	571	492 - 646	511 - 627
	185	171	146 - 196	152 - 190
Lead	167	171	143 - 200	150 - 193
	869	914	781 - 1050	815 - 1020
Selenium	33.0	32.0	19.3 - 40.7	21.9 - 38.0
	80.5	82.1	56.6 - 97.6	61.7 - 92.5
Vanadium	1450	1310	1100 - 1510	1150 - 1450
	393	360	304 - 413	319 - 399
Zinc	755	650	552 - 734	574 - 712
	1450	1270	1090 - 1430	1140 - 1390
Antimony	87.9	82.8	58.5 - 112	65.6 - 105
	128	124	89.4 - 159	98.2 - 150
Silver	14.6	14.6	11.2 - 18.0	12.0 - 17.2
	4.64	5.48	4.06 - 6.96	4.42 - 6.59
Thallium	6.25	5.76	3.35 - 8.11	3.96 - 7.50
	55.3	54.4	38.6 - 73.3	43.3 - 68.6
Molybdenum	60.0	61.6	39.6 - 79.8	45.1 - 74.3
	24.0	26.4	16.0 - 35.6	18.5 - 33.1
Strontium	67.0	61.0	50.8 - 70.7	53.3 - 68.1
	16.0	15.3	10.9 - 20.3	12.1 - 19.1
Titanium	45.0	48.2	29.4 - 65.8	34.4 - 60.8
	295	278	209 - 355	229 - 335

[a] Based on theoretical calculations or a reference value when necessary.

TABLE 10-14
ECS/NORMANDEAU PERFORMANCE IN EPA INTERLABORATORY COMPARISON FOR WP-020 STUDY, CONT'D.

Analysis	Report Value	True Value[a]	Acceptance Limits	Warning Limits
Volatile Halocarbons (µg/L)				
Trichloroethene	9.12	10.0	5.39 - 14.4	6.51 - 13.2
	31.2	32.2	18.6 - 44.9	21.9 - 41.6
Carbontetrachloride	2.76	2.72	0.625 - 5.12	1.20 - 4.55
	40.1	40.9	22.0 - 62.8	27.1 - 57.7
Tetrachloroethene	2.82	2.48	0.908 - 4.44	1.36 - 3.99
	35.7	41.3	22.2 - 58.4	26.8 - 53.9
Bromodichloro-methane	5.73	5.63	3.12 - 8.94	3.86 - 8.19
	46.7	44.2	30.7 - 60.8	34.4 - 57.0
Dibromochloro-methane	6.68	6.77	3.48 - 9.42	4.22 - 8.68
	35.8	36.1	21.7 - 51.3	25.4 - 47.6
Bromoform	6.99	7.40	3.81 - 10.8	4.71 - 9.87
	52.5	61.7	36.3 - 92.2	43.5 - 85.1
Methylene Chloride	9.98	10.7	5.00 - 17.5	6.61 - 15.9
	45.3	56.8	26.8 - 88.6	34.6 - 80.9
Chlorobenzene	5.85	5.78	3.03 - 8.42	3.72 - 7.72
	50.1	57.8	36.1 - 80.7	41.7 - 75.1
Volatile Aromatics (µg/L)				
Benzene	7.97	6.59	3.98 - 9.70	4.69 - 8.98
	31.3	29.7	21.0 - 39.9	23.4 - 37.6
Ethylbenzene	7.76	6.52	3.64 - 9.43	4.40 - 8.68
	51.3	52.1	35.0 - 68.2	39.3 - 63.9
Toluene	3.82	3.27	1.46 - 5.25	1.95 - 4.76
	58.2	41.6	29.5 - 53.7	32.6 - 50.5
Miscellaneous Analyses (mg/L)				
Total Cyanide	0.434	0.460	0.308 - 0.587	0.343 - 0.552
	0.147	0.155	0.0845 - 0.207	0.0999 - 0.192
Nonfilterable residue	48.0	56.3	44.9 - 67.7	47.7 - 64.9
	30.0	34.8	24.7 - 45.0	27.2 - 42.5
Oil and Grease	13.0	14.0	6.5 - 18.7	8.0 - 17.2
	18.4	21.0	10.1 - 27.4	12.3 - 25.2
Total Phenolics	0.141	0.134	0.0538 - 0.214	0.0740 - 0.194
	0.927	0.895	0.422 - 1.37	0.541 - 1.25
Total Residual Chlorine	3.90	4.14	2.97 - 4.88	3.22 - 4.63
	0.37	0.399	0.189 - 0.615	0.250 - 0.554

[a] Based on theoretical calculations or a reference value when necessary.

TABLE 10-14
ECS/NORMANDEAU PERFORMANCE IN EPA INTERLABORATORY COMPARISON FOR WP-020 STUDY, CONT'D.

Analysis	Report Value	True Value[a]	Acceptance Limits	Warning Limits
Pesticides (µg/L)				
Aldrin	0.107	0.104	0.0329 - 0.153	0.0479 - 0.138
	0.650	0.609	0.226 - 0.798	0.297 - 0.726
Dieldrin	0.675	0.667	0.361 - 0.888	0.429 - 0.820
	0.138	0.145	0.0751 - 0.208	0.0917 - 0.191
DDD	0.738	0.776	0.362 - 1.08	0.453 - 0.989
	0.292	0.310	0.145 - 0.439	0.183 - 0.402
DDE	0.825	0.914	0.471 - 1.24	0.567 - 1.14
	0.273	0.304	0.141 - 0.432	0.177 - 0.395
DDT	0.182	0.161	0.0556 - 0.269	0.0823 - 0.242
	0.428	0.452	0.216 - 0.660	0.272 - 0.605
Heptachlor	0.688	0.760	0.278 - 1.040	0.375 - 0.940
	0.288	0.271	0.0986 - 0.376	0.134 - 0.341
Heptachlor Epoxide	0.625	0.594	0.344 - 0.775	0.399 - 0.720
	0.238	0.248	0.140 - 0.331	0.164 - 0.307
Chlordane	10.2	11.1	5.22 -14.6	6.41 -13.4
	3.51	3.71	1.01 - 4.86	2.28 - 4.49
Volatile Halocarbons (µg/L)				
1,2 Dichloroethane	2.88	2.28	0.261 - 4.72	0.836 - 4.15
	40.2	41.1	27.0 - 56.9	30.7 - 53.1
Chloroform	5.72	7.34	3.90 - 11.5	4.87 - 10.5
	36.1	48.9	27.8 - 69.8	33.0 - 64.6
1,1,1 Trichloroethane	2.34	2.04	0.827 - 4.05	1.24 - 3.63
	45.9	48.9	29.5 - 71.4	34.9 - 66.1
Nutrients (mg/L)				
Nitrate-Nitrogen	5.40	5.50	4.50 - 6.48	4.74 - 6.24
	0.94	0.950	0.750 - 1.16	0.799 - 1.11
Orthophosphate	1.10	1.10	0.919 - 1.27	0.961 - 1.23
	4.89	4.80	4.14 - 5.46	4.30 - 5.30
Kieldahl-Nitrogen	7.93	8.10	5.98 - 10.0	6.47 - 9.53
	13.9	14.5	11.0 - 17.6	11.8 - 16.80
Total Phosphorus	9.33	9.50	7.45 - 11.0	7.87 - 10.6
	4.42	4.40	3.52 - 5.11	3.71 - 4.92

[a] Based on theoretical calculations or a reference value when necessary.

TABLE 10-14
ECS/NORMANDEAU PERFORMANCE IN EPA INTERLABORATORY COMPARISON FOR WP-020 STUDY, CONT'D.

Analysis	Report Value	True Value[a]	Acceptance Limits	Warning Limits
Demands (mg/L)				
Chemical Oxygen Demand	29.7	25.0	13.7 - 34.4	16.3 - 31.8
	101	105	79.6 -120	84.7 -115
Total Organic Carbons	10.7	9.82	7.74 - 11.5	8.24 - 11.0
	42.0	41.1	32.6 - 49.1	34.8 - 46.9
5-Day Biochemical Oxygen Demand	14.1	16.0	7.54 - 24.4	9.63 - 22.3
	63.3	66.4	36.5 - 90.6	43.2 - 83.9
PCBs (µg/L)				
PCB-Aroclor 1016/1242	4.34	4.74	2.33 - 6.56	2.87 - 6.02
PCB-Aroclor 1254	1.85	1.77	0.984 - 2.32	1.15 - 2.16
Minerals				
pH-Units	7.47	7.50	7.28 - 7.66	7.33 - 7.61
	6.24	6.30	6.13 - 6.43	6.17 - 6.40
Spec. Cond.	331	332	288 - 370	298 - 360
(µmhos/cm at 25°C)	974	993	876 - 1100	903 - 1070

[a] Based on theoretical calculations or a reference value when necessary.

TABLE 10-15
QUALITY ASSURANCE DATA FOR METALS ANALYSIS ON SPLIT QUARTERLY COMPOSITES

Parameter	PB-3		FM-A7		River 3B	
	ECS[a]	Carr[b]	ECS[a]	Carr[b]	ECS[a]	Carr[b]
Aluminum	0.199	0.18	0.166[c]	0.21	0.207[c]	0.390
Chromium	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05
Sodium	11.6	10.9	8.85	8.76	15.7	14.4
Iron	0.534[c]	0.590	0.499	0.54	0.229[c]	0.84
Magnesium	1.20	1.22	0.660[c]	0.76	1.40	1.49
Zinc	<0.01	0.05	<0.01	<0.05	<0.01	<0.05
Manganese	0.0533	0.06	0.0335	<0.05	<0.005	0.09
Calcium	4.90	5.19	3.32[c]	4.16	4.53[c]	5.2
Copper	<0.01	<0.05	<0.01	<0.05	<0.01	<0.05
Cadium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	<0.0001	<0.001	<0.0001	<0.001	0.00039	<0.001
Nickel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead	<0.003	<0.005	<0.003	<0.005	<0.003	<0.005

Parameter	U3R-Road A		FM-6		River 10	
	ECS[a]	Carr[b]	ECS[a]	Carr[b]	ECS[a]	Carr[b]
Aluminum	<0.05[c]	0.14	<0.05	0.05	0.073[c]	0.230
Chromium	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05
Sodium	1.84[c]	2.21	9.73	9.14	17.0	16.1
Iron	0.09[c]	0.40	0.108[c]	0.180	0.455[c]	0.63
Magnesium	0.378[c]	0.43	0.660	0.680	1.63	1.59
Calcium	1.90[c]	2.64	3.59[c]	4.05	5.79	6.02
Zinc	<0.01[c]	0.13	<0.01	<0.05	<0.01	<0.05
Manganese	<0.005	0.05	0.0069	<0.05	0.0736	0.07
Copper	<0.01	<0.05	0.015	<0.05	<0.01	<0.05
Cadium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	<0.0001	<0.001	<0.0001	<0.001	<0.0001	<0.001
Nickel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead	<0.003	<0.005	<0.003	<0.005	<0.003	<0.005

[a] Environmental and Chemical Sciences/Normandeau Associates, Inc., an independent subcontracted laboratory.

[b] James H. Carr Associates, Inc., an independent subcontracted laboratory.

[c] A ≥10% difference in results reported.

TABLE 10-16
BLIND SAMPLE RESULTS
FOR FIELD MEASUREMENTS

Sample Identication	Result	Actual Value	% Difference
Conductivity (µmhos/cm):			
B8-1	65.4	67.0	2.44
B8-2	85.0	92.5	8.88
B9-0	410.0	408.5	0.37
B9-1	795.0	807.0	1.51
B11-12	1,020	989	3.33
pH :			
B7-1	7.0	7.38	
B8-2	7.15	7.00	
B9-0	6.20	5.90	
B9-1	6.65	6.85	
B11-12	5.20	5.00	
B11-13[a]	7.05	5.85	
Units:			
B7-1	0.38 units		
B8-2	0.15 units		
B9-0	0.30 units		
B9-1	0.20 units		
B11-12	0.2 units		
B11-13[a]	1.2 units		

[a] Results out of control; corrective action was completed.
[a] Results out of control; corrective action was completed.

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS

First Quarter

Well: ASB 8C	Primary Laboratory	Blind Replicate	Enwright	Weston
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.0	2.7	3.05	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	14	10	<100	<200
Nonvolatile Beta (pCi/L)	3.6	4.7	4.17	0.0
Calcium (mg/L)	1.53	1.61	1.46	<5.0
Carbon Tetrachloride (ug/)<50	<25	<1.0	<100	
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<50.0	<25.0	2.0	3.8
Chloride (mg/L)	6.2	6.1	5.2	5.2
Specific Conductance (umhos/cm)	42.0	43.0	44.0	38.9
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	6	6	<20	<25
Fluoride (mg/L)	<0.10	<0.10	<0.10	<0.10
Iron (ug/L)	56	10	<50	<100
Mercury (ug/L)	0.80	0.69	0.73	0.77
Potassium (mg/L)	<0.50	<0.50	0.236	<5.0
Magnesium (mg/L)	0.614	0.376	0.662	<5.0
Manganese (ug/L)	6	7	<20	<15.0
Sodium (mg/L)	3.96	3.93	3.80	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.93	1.68	1.60	1.80
Lead (ug/L)	<6	<6	<1	<5
pH (pH)	4.95	4.91	4.6	5.1
Phenols (ug/L)	<5	<5	3	<5
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	3.76	3.76	-	-
Sulfate (mg/L)	<5	<5	<5	<5.0
Tetrachloroethylene (ug/L)	101	92.4	200	180
Total Dissolved Solids (mg/L)	38	54	12	30
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	0.64
Total Radium (pCi/L)	0.8	0.9	<1.0	0.8
Total Organic Halogens (ug/L)	976	1102	1020	300
Total Phosphates (ug/L)	620	<20	<10	<50
Trichloroethylene (ug/L)	1254	1103	1300	1100
Tritium (pCi/mL)	24.9	25.0	18.8	34.0
1,1,1-Trichloroethylene (ug/L)	<50.0	<25.0	<1	<100
Well: CMP 8A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	<1.10	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	25	23	<100	<200
Nonvolatile Beta (pCi/L)	2.4	3.0	3.21	6.0
Calcium (mg/L)	16.0	16.5	16.3	18.3
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Specific Conductance (umhos/cm)	108	110	104	113
Chromium (ug/L)	<4	<4	<50	<10
Endrin (ug/L)	<1.0	<0.1	<0.1	<0.1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: CMP 8A	Primary Laboratory	Blind Replicate	Enwright	Weston
Fluoride (mg/L)	0.13	0.12	0.10	0.12
Iron (ug/L)	244	228	214	244
Manganese (ug/L)	24	25	<20	26.6
Sodium (mg/L)	2.23	2.13	1.73	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Lead (ug/L)	<6	<6	<1	<5
pH (pH)	6.37	6.49	6.3	6.7
Silvex (ug/L)	<0.09	<0.09	<0.10	<0.50
Sulfate (mg/L)	9	9	12	12.3
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (ug/L)	<5	-	86	<10.0
Total Phosphates (ug/L)	100	120	163	120
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1.0
1,1,1-Trichloroethylene (ug/L)	<1	<1	<1	<1
2,4-D (ug/L)	<0.3	<0.3	<0.5	<1.0
Zinc (ug/L)	39	18	28	34.0
Well: CMP 16B				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	<1.13	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	34	35	<100	<200
Nonvolatile Beta (pCi/L)	1.9	<2.0	<1.68	7.0
Calcium (mg/L)	39.8	35.7	36.3	40.6
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Specific Conductance (umhos/cm)	187	187	176	191
Chromium (ug/L)	<4	5	<50	<10
Endrin (ug/L)	<0.1	<0.1	<0.1	<0.1
Fluoride (mg/L)	<0.10	<0.10	<0.10	<0.10
Iron (ug/L)	11	15	<50	<100
Potassium (mg/L)	1.09	0.981	0.995	5.61
Lindane (ug/L)	<0.05	<0.05	<0.1	<0.05
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Manganese (ug/L)	3	3	<20	<15.0
Sodium (mg/L)	1.93	1.86	1.32	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Lead (ug/L)	<6	<6	<1	<5
pH (pH)	7.57	7.47	7.6	7.8
Silvex ((ug/L)	<0.09	<0.09	<0.10	<0.50
Sulfate (mg/L)	<5	-	<5	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (ug/L)	<5	<5	<10	11.0
Total Phosphates (ug/L)	50	20	50	<50
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: CMP 16B				
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1.0
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
2,4-D (ug/L)	<0.3	<0.3	<0.5	<1.0
Zinc (ug/L)	11	4	15	<20.0
Well: DCB 3A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	0.65	0.0
Barium (ug/L)	32	33	<100	<200
Beryllium (ug/L)	<5	<5	<10	<5.0
Nonvolatile Beta (pCi/L)	<2.0	<2.0	1.84	4.0
Calcium (mg/L)	2.25	2.69	2.49	63.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloride (mg/L)	5.1	5.3	4.0	4.6
Specific Conductance (umhos/cm)	59.0	58.0	56.1	60.2
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	93
Fluoride (mg/L)	<0.10	<0.10	<0.10	<0.10
Iron (ug/L)	81	77	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Magnesium (mg/L)	0.928	1.06	0.995	<5.0
Manganese (ug/L)	70	79	56	70.0
Sodium (mg/L)	5.30	5.80	5.41	<5.0
Nickel (mg/L)	<4	<4	<50	63.1
Nitrate (as N) (mg/L)	0.59	0.43	0.60	0.24
Lead (ug/L)	<6	<6	4	<5
pH (pH)	5.11	5.13	4.9	5.0
Selenium (ug/L)	<2	<2	<10	0
Sulfate (mg/L)	12	<10	12	13.8
Tetrachloroethylene (ug/L)	<1.0	<1.0	2.0	1.4
Total Organic Carbon (mg/L)	3.1	6.1	<5.0	1.20
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (ug/L)	8	<5	113	23.0
Total Phosphates (ug/L)	<20	<20	15	<50
Trichloroethylene (ug/L)	3.45	3.70	4	5
Tritium (pCi/mL)	6.1	5.5	6.29	3.9
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Zinc (ug/L)	10	9	10	154

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: DCB 5A	Primary Laboratory	Blind Replicate	Enwright	Weston
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	2.23	3.0
Barium (ug/L)	46	47	<100	<200
Beryllium (ug/L)	7	7	<10	7.6
Nonvolatile Beta (pCi/L)	<2.0	5.0	3.94	17.0
Calcium (mg/L)	64.3	45.5	57.5	62.6
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloride (mg/L)	1.9	2.0	2.9	2.8
Specific Conductance (umhos/cm)	536	530	495	578.6
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	10.0	17.0	<20.0	70.9
Fluoride (mg/L)	0.54	0.54	0.50	0.52
Iron (ug/L)	39	44	<50	<100
Mercury (ug/L)	0.33	0.41	<0.50	<0.20
Magnesium (mg/L)	24.4	24.2	23.5	25.5
Manganese (ug/L)	934	948	1040	1020
Lead (ug/L)	<6	<6	7	<5.0
pH (pH)	4.79	4.75	4.8	4.8
Selenium (ug/L)	<2	<2	<10	0
Sulfate (mg/L)	-	-	250	267
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1
Total Organic Carbon (mg/L)	1.0	2.1	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.8
Total Organic Halogens (ug/L)	21	23	119	28.0
Total Phosphates (ug/L)	50	<20	99	64
Trichloroethylene (ug/L)	32.6	28.9	35	30
Tritium (pCi/mL)	5.6	5.7	5.67	7.2
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Zinc (ug/L)	101	529	117	141
Well: FSB 76A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	<0.70	0.0
Barium (ug/L)	24	26	<100	<200
Nonvolatile Beta (pCi/L)	4.4	5.0	2.92	0.0
Calcium (mg/L)	22.3	21.8	19.8	19.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.0	2.0	2.6	<2.5
Specific Conductance (umhos/cm)	126	126	120	120
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (mg/L)	0.11	0.10	0.20	0.14
Iron (ug/L)	7	23	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	3.12	2.96	3.15	<5.0
Magnesium (mg/L)	0.455	0.513	0.610	<5.0
Manganese (ug/L)	6	5	<20	<15.0
Sodium (mg/L)	2.47	2.66	2.52	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.27	0.28	<0.10	<0.10
Lead (ug/L)	<6	<6	<1	<5

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: FSB 76A				
pH (pH)	6.72	6.71	6.7	6.8
Phenols (ug/L)	<5	<5	7	<5
Sulfate (mg/L)	8	10	8	<10
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (ug/L)	<5	<5	<10	95.9
Total Phosphates (ug/L)	310	280	323	310
Tritium (pCi/mL)	1.5	1.2	<1.0	0.0
Zinc (ug/L)	10	6	<10	<20.0
Well: FSB 87A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	<0.65	0.0
Barium (ug/L)	21	20	<100	<200
Nonvolatile Beta (pCi/L)	<2.0	2.0	<1.57	0.0
Calcium (mg/L)	19.6	20.9	15.7	16.7
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.0	2.0	2.5	<2.5
Specific Conductance (umhos/cm)	101	100	100	100
Magnesium (mg/L)	0.531	0.528	0.610	<5.0
Manganese (ug/L)	6	6	<20	<15.0
Sodium (mg/L)	2.70	2.48	1.67	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.51	0.47	0.30	0.20
Lead (ug/L)	<6	<6	<1	7.7
pH (pH)	6.50	6.58	6.3	6.7
Phenols (ug/L)	<5	<5	<2	<5
Sulfate (mg/L)	<5	<5	5	5.4
Total Organic Carbon (mg/L)	<1.0	<1.0	7.5	<0.50
Total Radium (pCi/L)	<1.0	0.5	<1.0	0.0
Total Organic Halogens (ug/L)	<5	<5	<10	26.7
Total Phosphates (ug/L)	200	320	321	300
Tritium (pCi/mL)	20.3	20.1	13.4	27.0
Zinc (ug/L)	7	6	<10	<20.0
Well: HCB 3				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.6	1.4	1.17	2.0
Barium (ug/L)	24	24	<100	<200
Nonvolatile Beta (pCi/L)	2.5	2.3	<1.61	6.0
Calcium (mg/L)	0.849	0.527	0.406	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	3.4	3.5	3.7	3.4
Specific Conductance (umhos/cm)	31.0	33.0	33.0	33.5
Copper (ug/L)	5	4	<20	51
Fluoride (mg/L)	<0.10	<0.10	<0.10	<0.10
Iron (ug/L)	31	26	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Magnesium (mg/L)	0.500	0.488	0.520	<5.0
Manganese (ug/L)	7	7	<20	<15.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: HCB_3	Primary Laboratory	Blind Replicate	Enwright	Weston
Sodium (mg/L)	3.11	2.98	2.69	<5.0
Lead (ug/L)	13	12	12	11.4
pH (pH)	4.62	4.62	4.3	4.6
Sulfate (mg/L)	<5	-	<5	<5.0
Total Organic Carbon (mg/L)	1.20	<1.0	6.17	<0.50
Total Radium (pCi/L)	0.6	<1.0	<1.0	0.6
Total Organic Halogens (ug/L)	<5	<5	28	11.0
Tritium (pCi/mL)	29.3	29.9	27.6	30.0
Zinc (ug/L)	8	9	<10	27.0
Silver (ug/L)	<2	<2	<10	<10
Well: HSB 65B				
Aluminum (ug/L)	320	303	<400	223
Gross Alpha (pCi/L)	<3.0	<3.0	<0.79	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	24	19	<100	<200
Nonvolatile Beta (pCi/L)	<2.0	<2.0	<1.57	0.0
Calcium (mg/L)	37.4	36.8	36.5	41.9
Cadmium (ug/L)	<2	<2	<10	<5
Specific Conductance (umhos/cm)	189	190	190	198
Chromium (ug/L)	9	8	<50	<10
Iron (ug/L)	10	5	<50	<100
Sodium (mg/L)	2.00	1.84	1.71	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.22	0.22	0.10	<0.10
Lead (ug/L)	<6	<6	<1	<5.0
pH (pH)	7.31	7.59	7.6	7.1
Phenols (ug/L)	<5	<5	6	<5
Sulfate (mg/L)	<5	<5	<5	<5.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.2
Total Organic Halogens (ug/L)	<5	<5	154	30.0
Tritium (pCi/mL)	0.8	0.9	<1.0	0.0
Zinc (ug/L)	34	8	<10	<20.0
Well: HSB 83A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	306	304	<400	228
Gross Alpha (pCi/L)	1.61	1.4	<0.79	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	35	34	<100	<200
Nonvolatile Beta (pCi/L)	<2.0	<2.0	1.91	0.0
Calcium (mg/L)	35.2	34.5	35.2	39.0
Cadmium (ug/L)	<2	<2	<10	<5
Specific Conductance (umhos/cm)	182	188	180	195
Chromium (ug/L)	5	6	<50	<10
Iron (ug/L)	22	20	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	1.01	1.02	1.14	<5.0
Manganese (ug/L)	5	4	<20	<15.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: HSB 83A	Primary Laboratory	Blind Replicate	Enwright	Weston
Sodium (mg/L)	2.04	1.96	1.77	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.20	0.22	<0.10	<0.10
Lead (ug/L)	<6	<6	<1	<5.0
pH (pH)	6.99	6.79	6.9	7.0
Phenols (ug/L)	<5	<5	<2	<5
Sulfate (mg/L)	6	6	<5	<5
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.4
Total Organic Halogens (ug/L)	<5	<5	124	17.0
Tritium (pCi/mL)	1.0	0.9	<1.0	0.0
Zinc (ug/L)	7	6	<10	<20.0
Well: LFW 16				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	3.2	1.8	4.67	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	6	6	<100	<200
Nonvolatile Beta (pCi/L)	5.3	5.0	6.12	0.0
Calcium (mg/L)	0.633	0.736	0.641	<5.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	-
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1.0	-
Chloride (mg/L)	2.2	1.8	2.4	2.6
Specific Conductance (umhos/cm)	23.0	23.0	22.0	21.5
Lindane (ug/L)	<0.05	<0.05	<0.1	<0.05
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Magnesium (mg/L)	0.763	0.782	0.830	<5.0
Manganese (ug/L)	<2	<2	<20	<15.0
Sodium (mg/L)	1.05	1.08	0.96	<5.0
Nitrate (as N) (mg/L)	0.93	0.75	0.80	0.59
Lead (ug/L)	7	8	9	9.3
pH (pH)	4.87	4.90	4.7	5.0
Phenols (ug/L)	<5	<5	<2	<5
Silvex (ug/L)	<0.09	<0.09	<0.10	<0.50
Sulfate (mg/L)	-	<5	<5	<5.0
Tetrachloroethylene (ug/L)	2.32	2.61	2.00	-
Total Organic Carbon (mg/L)	<1.0	<1.0	14.2	<0.50
Total Radium (pCi/L)	1.4	0.9	<1.0	1.0
Total Organic Halogens (ug/L)	21	5	43	300
Trichloroethylene (ug/L)	<1.0	<1.0	<1	-
Tritium (pCi/mL)	5.2	4.9	3.12	2.0
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1.0
1,1,1-Trichloroethylene (ug/L)	13.2	15.2	10	-
2,4-D (ug/L)	<0.3	<0.3	<0.5	<1.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: LFW 20	Primary Laboratory	Blind Replicate	Enwright	Weston
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.7	3.5	1.86	2.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	5	5	<100	<200
Nonvolatile Beta (pCi/L)	3.6	5.3	3.34	9.0
Calcium (mg/L)	0.317	0.305	0.227	<5.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloride (mg/L)	1.1	3.4	2.1	<2.5
Specific Conductance (umhos/cm)	14.0	12.0	14.3	12.4
Endrin (ug/L)	<0.1	<0.1	<0.1	<0.1
Iron (ug/L)	34	136	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Lindane (ug/L)	<0.50	<0.50	<0.10	<0.05
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Magnesium (mg/L)	0.303	0.309	0.310	<0.0002
Manganese (ug/L)	<2	3	<20	<15.0
Sodium (mg/L)	1.09	1.22	9.65	<5.0
Nitrate (as N) (ug/L)	0.46	0.38	0.60	0.22
Lead (ug/L)	<6	8	4	5.3
pH (pH)	5.77	5.18	4.7	5.1
Phenols (ug/L)	<5	<5	<2	<5
Silvex (ug/L)	<0.09	<0.09	<0.10	<0.50
Sulfate (mg/L)	<5	<5	<5	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	1.0	<1.0	1.5
Total Organic Halogens (ug/L)	<5	<5	56	20.0
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Tritium (pCi/mL)	5.2	3.9	3.61	5.1
Toxaphene (ug/L)	<1.0	<1.0	<0.5	1.0
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Well: LFW 32				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.8	3.5	2.33	2.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	7	6	<100	<200
Nonvolatile Beta (pCi/L)	6.3	5.4	4.57	14.0
Calcium (mg/L)	0.679	0.617	0.474	<5.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloride (mg/L)	1.9	<1.0	2.4	<2.5
Specific Conductance (umhos/cm)	19.0	18.0	20.9	18.3
Endrin (ug/L)	<0.1	<0.1	<0.1	<0.1
Iron (ug/L)	34	<4	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Lindane (ug/L)	<0.05	<0.05	<0.10	<0.05
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: LFW 32				
Magnesium (mg/L)	0.455	0.441	0.484	<5.0
Manganese (ug/L)	7	7	<20	<15.0
Sodium (mg/L)	1.39	1.39	1.27	<5.00
Nitrate (as N) (mg/L)	0.56	0.55	0.50	0.41
Lead (ug/L)	<6	<6	i	<5.0
pH (pH)	5.59	5.42	4.9	5.6
Phenols (ug/L)	<5	<5	6	<5
Silvex (ug/L)	<0.09	<0.09	<0.10	<0.50
Sulfate (mg/L)	<5	<5	<5	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	1.4	1.8	<1.0	1.1
Total Organic Halogens (ug/L)	<5	<5	20	<10.0
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Tritium (pCi/mL)	2.7	2.6	2.54	3.0
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1.0
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
2,4-D (ug/L)	<0.3	<0.3	<0.5	<1.0
Well: MSB 2A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	335	326	<400	598
Gross Alpha (pCi/L)	9.8	9.4	15.6	10.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	10	9	<100	<200
Nonvolatile Beta (pCi/L)	5.8	8.3	11.0	8.00
Bromodichloromethane (ug/L)	<37.5	<25.0	<1	<5
Calcium (mg/L)	1.27	1.54	1.28	<5.0
Trichlorofluoromethane (ug/L)	<37.5	<25.0	<1	-
Carbon Tetrachloride (ug/L)	<10	<10	<1.0	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<75	<50	<1	<5
Chloroform (ug/L)	<10.0	<10.0	<1.0	<5.0
Bromomethane (ug/L)	<75	<50	<2	<10
Chloromethane (ug/L)	<75	<50	<2	<10
Chloride (mg/L)	2.6	2.6	2.9	2.8
Copper (ug/L)	165	174	182	194
Cyanide (ug/L)	<5	<5	<20	<10
Chloroethene (ug/L)	<75	<50	<2	<10
Chloroethane (ug/L)	<75	<50	<2	<10
Benzene (ug/L)	<37.5	<25.0	<1	<5
Dibromochloromethane (ug/L)	<37.5	<25.0	<1	<5
Endrin (ug/L)	<0.1	<0.1	<0.1	<0.1
Ethylbenzene (ug/L)	<37.5	<25.0	<1	<5
Fluoride (mg/L)	<0.10	<0.10	0.10	<0.10
Iron (ug/L)	18	10	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.30	<0.20

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: MSB 2A				
Lindane (ug/L)	<0.05	<0.05	<0.1	<0.05
Toluene (ug/L)	<37.5	<25	<1	<5
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Magnesium (mg/L)	0.286	0.288	0.345	<5.0
Manganese (ug/L)	9	8	<20	-
Sodium (mg/L)	2.17	2.19	2.31	<5.0
Nickel (ug/L)	4	<4	<50	<40.0
Nitrate (as N) (mg/L)	14.5	14.0	1.90	2.40
Lead (ug/L)	24	33	18	34.1
pH (pH)	4.47	4.27	4.0	4.4
Phenols (ug/L)	<5	<5	4	<5
Selenium (ug/L)	<2	<2	<10	<5
Silvex (ug/L)	<0.09	<0.09	<0.10	<0.50
Tin (ug/L)	<120	<120	<1000	<100
Sulfate (mg/L)	<5	<5	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<75	<50	<1	19
Tetrachloroethylene (ug/L)	622	531	700	670
Total Dissolved Solids (mg/L)	96	96	24	25
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	1.10
Total Radium (pCi/L)	4.5	5.7	<1.0	3.6
Total Organic Halogens (ug/L)	807	733	952	350
Total Phosphates (ug/L)	40	30	10	<50
Trichloroethylene (ug/L)	263	371	370	310
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1.0
trans-1,2-Dichloroethene (ug/L)	<37.5	<25.0	<1	8
Uranium (mg/L)	<1.0	<1.0	<0.5	<1.0
1,1-Dichloroethylene (ug/L)	<37.5	<25.0	6	<5
1,1-Dichloroethane (ug/L)	<37.5	<25.0	1	<5
1,1,1-Trichloroethylene (ug/L)	<10.0	<10.0	12	16
1,1,2-Trichloroethylene (ug/L)	<37.5	<25.0	<1	<5
1,2-Dichloroethane (ug/L)	<7.5	<5.0	<1	<5
1,2-Dichloropropane (ug/L)	<75	<50	<1	<5
cis-1,3-Dichloropropene (ug/L)	<37.5	<25.0	<1	<5
trans-1,3-Dichloropropene (ug/L)	<37.5	<25.0	<1	<5
2-Chloroethylvinyl Ether (ug/L)	<75	<50	<1	<10
2,4-D (ug/L)	<0.3	<0.3	<0.5	<1.0
Zinc (ug/L)	33	35	20	28.0
Well: MSB 5A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	39	38	<400	203
Gross Alpha (pCi/L)	4.1	5.5	4.93	3.0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	8	8	<100	<200
Nonvolatile Beta (pCi/L)	42.7	42.5	35.0	49.0
Bromodichloromethane (ug/L)	<5.0	<5.0	<1	-
Calcium (mg/L)	2.35	2.41	2.94	<5.0
Trichlorofluoromethane (ug/L)	<5.0	<5.0	<1	-

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

Well: MSB 5A	Primary Laboratory	Blind Replicate	Enwright	Weston
Carbon Tetrachloride (ug/L)	<10	<1.0	-	-
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	-
Chloroform (ug/L)	<10.0	<1.0	<1.0	-
Bromomethane (ug/L)	<10	<10	<2	-
Chloromethane (ug/L)	<10	<10	<2	-
Chloride (mg/L)	3.4	3.4	3.7	3.7
Chlorobenzene (ug/L)	<5.0	<5.0	<1	-
Specific Conductance (umhos/cm)	161	162	160	177
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	8.0	8.0	<20.0	25.7
Cyanide (ug/L)	<5	<5	<20	<10
Chloroethene (ug/L)	<10	<10	<2	-
Chloroethane (ug/L)	<10	<10	<2	-
Benzene (ug/L)	<5.0	<5.0	<1	-
Dibromochloromethane (ug/L)	<5.0	<5.0	<1	-
Endrin (ug/L)	<0.1	<0.1	<0.1	-
Ethylbenzene (ug/L)	<5.0	<5.0	<1	-
Fluoride (mg/L)	<0.10	<0.10	<0.10	<0.10
Iron (ug/L)	28	26	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.2
Lindane (ug/L)	<0.05	<0.05	<0.1	-
Toluene (ug/L)	<5	<5	<1	-
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	-
Magnesium (mg/L)	0.423	0.473	0.484	<5
Manganese (ug/L)	14	15	<20	-
Sodium (mg/L)	24.9	25.1	27.0	30.3
Nickel (ug/L)	8	4	<50	<40
Nitrate (as N) (mg/L)	8.14	9.06	18.0	23.1
Lead (ug/L)	13	11	8	6.7
pH (pH)	5.28	5.33	5.2	5.4
Phenols (ug/L)	<5	<5	<2	<5
Selenium (ug/L)	<2	<2	<10	<5
Silvex (ug/L)	<0.09	<0.09	<0.10	-
Tin (ug/L)	<120	<120	<1000	<100
Sulfate (mg/L)	<5	<5	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)		<10	<10	<1
Tetrachloroethylene (ug/L)	69.4	31.1	66.0	-
Total Dissolved Solids (mg/L)	182	196	120	124
Total Organic Carbon (mg/L)	<1.0	1.5	<5.0	0.95
Total Radium (pCi/L)	2.4	1.5	<1.0	2.0
Total Organic Halogens (ug/L)	48	45	149	58.0
Total Phosphates (ug/L)	20	30	10	<50
Trichloroethylene (ug/L)	14.3	20.2	17	-
Toxaphene (ug/L)	<1.0	<1.0	<0.5	-
trans-1,2-Dichloroethene (ug/L)		<5.0	<5.0	<1
Uranium (mg/L)	<1.0	<1.0	<0.5	<1.0
1,1,2-Trichloroethane (ug/L)	<5.0	<5.0	<1	-
1,2-Dichloroethane (ug/L)	<1.0	<1.0	<1	-
1,2-Dichloropropane (ug/L)	<10	<10	<1	-
cis-1,3-Dichloropropene (ug/L)	<5.0	<5.0	<1	-
trans-1,3-Dichloropropene (ug/L)		<5.0	<5.0	<1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: MSB 5A				
2-Chloroethylvinyl Ether	<10	<10	<1	-
2,4-D (ug/L)	<0.3	<0.3	<0.5	-
Zinc (ug/L)	20	19	<10	<20.0
Well: MSB 29C				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	33	53	<400	<200
Gross Alpha (pCi/L)	2.0	2.4	2.24	0.0
Barium (ug/L)	7	7	<100	<200
Nonvolatile Beta (pCi/L)	3.7	5.8	3.27	0.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloride (mg/L)	1.8	2.1	1.4	<2.5
Specific Conductance (umhos/cm)	26.0	26.0	34.0	25.1
Copper (ug/L)	<4	<4	<20	<25
Sodium (mg/L)	2.16	2.08	1.94	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.46	1.47	1.60	1.50
Lead (ug/L)	<6	<6	<1	<5
pH (pH)	4.76	4.66	4.3	5.0
Phenols (ug/L)	<5.0	<5.0	<2.0	<5.0
Tin (ug/L)	<120	<120	<1000	<500
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids (mg/L)	22	8	<10	22
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	1.2	1.2	<1.0	0.8
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Well: MSB 39B				
Aluminum (ug/L)	128	152	<400	214
Gross Alpha (pCi/L)	8.6	5.1	3.70	4.0
Barium (ug/L)	38	37	<100	<200
Nonvolatile Beta (pCi/L)	9.5	11.6	7.71	11.0
Calcium (mg/L)	4.43	7.33	4.86	5.81
Cyanide (ug/L)	<5	<5	<20	<10
Sodium (mg/L)	15.9	15.1	14.8	17.2
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	17.6	17.7	17.0	19.0
Lead (ug/L)	<6	<6	<1	<5
Phenols (ug/L)	<5	<5	12	<5
Sulfate (mg/L)	<5	<5	<5	<5.0
Total Dissolved Solids (mg/L)	110	98	110	94
Total Radium (pCi/L)	2.3	2.1	<1.0	3.0
Zinc (ug/L)	5	52	22	21.2

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: PCB 4A				
Beryllium (ug/L)	<5	<5	<10	<5
Nonvolatile Beta (pCi/L)	2.4	2.9	3.38	0.0
Calcium (mg/L)	1.35	1.27	1.13	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Specific Conductance (umhos/cm)	75.0	76.0	67.1	71.0
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	82.0	81.0	75.0	72.8
Fluoride (mg/L)	0.12	0.13	0.20	0.13
Iron (ug/L)	185	146	154	201
Magnesium (mg/L)	0.002	0.738	0.730	<5.0
Manganese (ug/L)	70	70	65	67.8
Sodium (mg/L)	6.58	6.93	6.95	7.39
Nickel (ug/L)	18	19	<50	<40.0
Lead (ug/L)	52	59	43	39.4
pH (pH)	4.48	4.49	4.3	4.4
Phenols (ug/L)	<5	<5	<2	<5
Selenium (ug/L)	<2	<2	<10	<5
Sulfate (mg/L)	13	9	17	16.4
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	0.54
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.5
Total Organic Halogens (ug/L)	<5	<5	28	20.4
Tritium (pCi/mL)	24.6	24.1	18.8	13.0
Zinc (ug/L)	34	35	29	<20.0
Well: SRW 2A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.4	<3.0	1.23	0.0
Arsenic (ug/L)	<2	<2	<10	<10
Nonvolatile Beta (pCi/L)	<2.0	<2.0	<1.61	10.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Chloroform (ug/L)	<1.0	<1.0	<1.0	<1.0
Iron (ug/L)	6	8	<50	<100
Manganese (ug/L)	7	6	<20	<15.0
Sodium (mg/L)	1.53	1.64	1.31	<5.0
Nitrate (as N) (mg/L)	0.47	0.44	0.40	0.28
Lead (ug/L)	<6	7	<1	5.3
pH (pH)	5.13	5.16	4.9	5.2
Sulfate (mg/L)	<5	<5	<5	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (ug/L)	<5	<5	<10	14.0
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
Zinc (ug/L)	25	31	21	39.6

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

First Quarter

	Primary Laboratory	Blind Replicate	Enwright	Weston
Well: SRW 13A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	<0.91	0.00
Arsenic (ug/L)	3	<2	<10	<10
Nonvolatile Beta (pCi/L)	<2.0	<2.0	<1.61	5.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1.0	<1.0
Sodium (mg/L)	1.66	1.69	1.28	<5.0
Nitrate (as N) (mg/L)	1.02	1.03	1.10	0.92
Lead (ug/L)	<6	<6	4	10.0
pH (pH)	5.09	5.06	4.70	5.1
Sulfate (mg/L)	<5	<5	<5	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5.0	<0.50
Total Radium (pCi/L)	<1.0	<1.0	<1.0	0.0
Total Organic Halogens (mg/L)	<5	<5	105	16.0
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1
1,1,1-Trichloroethylene (ug/L)	<1.0	<1.0	<1.0	<1
Zinc (ug/L)	6	13	<10	<20.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: ACB 1A				
Copper (ug/L)	<4	<4	<20	<25
Iron (ug/L)	66	38	<50	<100
pH (pH)	5.49	5.52	5.5	5.9
Sulfate (mg/L)	13.9	13.8	12	14.2
Zinc (ug/L)	17	18	<10	<20
Well: AMB 2				
Chloroform (ug/L)	<1.0*	<10*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	<1.0*	12.4*	11	13.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<10*	<1	<1.0
Well: BGO 7D				
Silver (ug/L)	2	<2	<10	<10
Gross Alpha (pCi/L)	4.90	2.00	1.48	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	12	11	<100	<200
Nonvolatile Beta (pCi/L)	4.00	1.90	3.88	0
Calcium (mg/L)	1.22	1.13	1.05	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.8	2.9	3	2.9
Specific Conductance (umhos/cm)	33.5	31.2	33	32.2
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (mg/L)	<0.10	<0.10	<0.1	<0.1
Iron (ug/L)	28	19	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	<0.50	<0.50	0.277	<5
Magnesium (mg/L)	0.627	0.483	0.638	<5
Manganese (ug/L)	23	21	<20	19.2
Sodium (mg/L)	2.57	2.34	2.42	<5.0
Nitrate as Nitrogen (mg/L)	1.17	1.04	1.94	1.40
Lead (ug/L)	<6	<6	<1	5.4
pH (pH)	5.07	4.76	4.9	5.2
Phenols (ug/L)	<5	<5	<2	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	4.15	4.21	9.4	8.60
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
Total Dissolved Solids (mg/L)	42	38	20	49
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	0.77
Total Radium (pCi/L)	1.10	0.90	0.84	1.0
Total Organic Halogens (ug/L)	67	68	108	86.2
Total Phosphates (ug/L)	20	110	20.0	<50
Tritium (pCi/mL)	36.9	37.5	26.7	47.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: BGO 11D				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	3.80	3.20	1.64	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	7	7	<100	<200
Nonvolatile Beta (pCi/L)	3.10	3.20	3.08	0
Calcium (mg/L)	1.02	1.03	0.955	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.9	2.9	3	2.7
Specific Conductance (umhos/cm)	29.5	29.5	33	30.8
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (mg/L)	<0.10	<0.10	<0.1	<0.1
Iron (ug/L)	15	12	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	<0.50	<0.50	0.149	<5
Magnesium (mg/L)	0.450	0.446	0.491	<5
Manganese (ug/L)	341	21	<20	<15.0
Sodium (mg/L)	2.89	2.76	2.43	<500
Nitrate as Nitrogen (mg/L)	1.32	1.13	1.97	1.60
Lead (ug/L)	<6	<6	<1	<5.0
pH (pH)	4.95	5.06	4.5	5.1
Phenols (ug/L)	<5	<5	<2	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	3.62	3.63	7.7	7.50
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
Total Dissolved Solids (mg/L)	32	30	12	43
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	1.10	1.10	1.30	1.3
Total Organic Halogens (ug/L)	<5	8	<10	36.6
Total Phosphates (ug/L)	30	20	<10	<50
Tritium (pCi/mL)	7.00	6.70	3.59	8.7
Well: FSB 88C				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	0.02	0.97	<0.50	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	23	<4	<100	<200
Nonvolatile Beta (pCi/L)	1.74	<2.0	2.04	0
Calcium (mg/L)	4.40	0.751	3.57	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	3.2	3.2	3	3.2
Specific Conductance (umhos/cm)	47.4	43.6	50	47.4
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (mg/L)	<0.10	<0.10	<0.1	<0.1
Iron (ug/L)	29	42	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	0.695	1.01	0.455	<5
Magnesium (mg/L)	0.010	0.426	0.490	<5
Manganese (ug/L)	27	14	<20	23.5
Sodium (mg/L)	3.03	14.3	3.05	<5.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: FSB 88C				
Nitrate as Nitrogen (mg/L)	1.37	1.22	1.83	1.80
Lead (ug/L)	<6	<6	<1	<5.0
pH (pH)	5.57	5.43	5.2	5.7
Phenols (ug/L)	<5	<5	4	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	3.88	3.86	9.2	8.00
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
Total Dissolved Solids (mg/L)	42	38	12	61
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	0.66
Total Radium (pCi/L)	<1.0	<1.0	0.12	0.4
Total Organic Halogens (ug/L)	11	11	21	8.4
Total Phosphates (ug/L)	30	30	40.0	<50
Tritium (pCi/mL)	15.2	14.7	8.32	18.0
Well: FSB101A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.17	<3.0	0.64	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	63	59	<100	<200
Nonvolatile Beta (pCi/L)	2.00	1.33	2.55	0
Calcium (mg/L)	34.6	33.5	29.5	29.9
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.5	2.4	2	2.9
Specific Conductance (umhos/cm)	165	163	171	177
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (mg/L)	0.10	<0.10	<0.1	<0.1
Iron (ug/L)	<4	5	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Potassium (mg/L)	1.81	1.92	1.76	<5
Magnesium (mg/L)	0.023	0.024	0.838	<5
Manganese (ug/L)	6	6	<20	<15.0
Sodium (mg/L)	3.12	3.16	2.68	<5.0
Nitrate as Nitrogen (mg/L)	1.14	1.16	1.96	1.60
Lead (ug/L)	<6	<6	<1	5.1
pH (pH)	8.07	8.70	8.5	8.5
Phenols (ug/L)	<5	<5	<2	12.1
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	7.77	7.86	17.0	16.4
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
Total Dissolved Solids (mg/L)	120	120	100	134
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	0.41	0.43	<0.50	0.5
Total Organic Halogens (ug/L)	<5	<5	32	32.8
Total Phosphates (ug/L)	110	110	98.0	97
Tritium (pCi/mL)	<0.70	<0.70	<1.0	1.4

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 8A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	42	40	<400	<200
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	15	15	<100	<200
Bromodichloromethane (ug/L)	<5	<5	<1	<25
Trichlorofluoromethane (ug/L)	<5	<5	4	-
Carbon Tetrachloride (ug/L)	<5	<5	<1	<25
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	<25
Chloroform (ug/L)	<5	<5	<1	<25
Bromomethane (ug/L)	<10	<10	<2	<50
Chloromethane (ug/L)	<10	<10	<2	<50
Chloride (mg/L)	4.1	4.2	4	4.0
Chlorobenzene (ug/L)	<5	<5	<1	<25
Specific Conductance (umhos/cm)	258	258	266	274
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	<50
Chloroethane (ug/L)	<10	<10	<2	<50
Benzene (ug/L)	<5	<5	<1	<25
Dibromochloromethane (ug/L)	<5	<5	<1	<25
Ethylbenzene (ug/L)	<5	<5	<1	<25
Mercury (ug/L)	0.21	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<25
Sodium (mg/L)	45.4	44.7	39.4	39.0
Nickel (ug/L)	<4	<4	<50	<40
Nitrate as Nitrogen (mg/L)	28.4	28.9	32.2	33.1
Lead (ug/L)	9	<6	4	9.7
pH (pH)	4.81	4.74	4.6	4.9
Phenols (ug/L)	<5	<5	<2	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Tin (mg/L)	<0.120	<0.120	<1	<0.1
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<25
Tetrachloroethylene (ug/L)	204	143	22	140
Total Dissolved Solids (mg/L)	206	34	170	222
Total Phosphates (ug/L)	30	30	<10	<50
Trichloroethylene (ug/L)	46.0	47.0	11	44
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	<25
Uranium (mg/L)	<1	<1	<0.005	<0.5
1,1-Dichloroethylene (ug/L)	<5	<5	1	<25
1,1-Dichloroethane (ug/L)	<5	<5	<1	<25
1,1,1-Trichloroethane (ug/L)	<5	<5	1	<25
1,1,2-Trichloroethane (ug/L)	<5	<5	<1	<25
1,2-Dichloroethane (ug/L)	<1	<1	<1	<25
1,2-Dichloropropane (ug/L)	<10	<10	<1	<25
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<25
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	<25
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<50
Zinc (ug/L)	13	17	10	<20

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 9A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	38	<20	<400	<200
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	9	8	<100	<200
Bromodichloromethane (ug/L)	<5	<5	<1	<5
Trichlorofluoromethane (ug/L)	<5	<5	<1	-
Carbon Tetrachloride (ug/L)	<5	<5	<1	<5
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	<5
Chloroform (ug/L)	<5	<5	<1	<5
Bromomethane (ug/L)	<10	<10	<2	<10
Chloromethane (ug/L)	<10	<10	<2	<10
Chloride (mg/L)	1.9	1.9	1	<2.5
Chlorobenzene (ug/L)	<5	<5	<1	<5
Specific Conductance (umhos/cm)	40.9	39.8	44	41.9
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	<10
Chloroethane (ug/L)	<10	<10	<2	<10
Benzene (ug/L)	<5	<5	<1	<5
Dibromochloromethane (ug/L)	<5	<5	<1	<5
Ethylbenzene (ug/L)	<5	<5	<1	<5
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<5
Sodium (mg/L)	1.74	1.59	1.53	<5.0
Nickel (ug/L)	<4	<4	<50	<40
Nitrate as Nitrogen (mg/L)	0.34	0.36	1.08	0.27
Lead (ug/L)	42	42	5	7.3
pH (pH)	6.51	6.40	6.0	6.5
Phenols (ug/L)	<5	<5	2	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<5
Tetrachloroethylene (ug/L)	2320	1610	2300	1100
Total Phosphates (ug/L)	50	40	11.6	<50
Trichloroethylene (ug/L)	2240	1940	4000	1600
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	13
Uranium (mg/L)	<1	<1	<0.005	<0.5
1,1-Dichloroethylene (ug/L)	<5	<5	1	<5
1,1-Dichloroethane (ug/L)	<5	<5	<1	<5
1,1,1-Trichloroethane (ug/L)	<5	<5	<1	<5
1,1,2-Trichloroethane (ug/L)	<5	<5	<1	<5
1,2-Dichloroethane (ug/L)	17	<1	<1	<5
1,2-Dichloropropane (ug/L)	<10	<10	5	<5
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<5
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	<5
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<10
Zinc (ug/L)	5360	5270	5690	5530

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 11D				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	56	57	<400	<200
Arsenic (ug/L)	<2	4	<10	<10
Barium (ug/L)	8	8	<100	<200
Bromodichloromethane (ug/L)	<5	<5	<1	<500
Trichlorofluoromethane (ug/L)	<5	<5	<1	-
Carbon Tetrachloride (ug/L)	<5	<5	4	<500
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	<500
Chloroform (ug/L)	<5	<5	1	<500
Bromomethane (ug/L)	<10	<10	<2	<1000
Chloromethane (ug/L)	<10	<10	<2	<1000
Chloride (mg/L)	2.4	2.4	2	2.7
Chlorobenzene (ug/L)	<5	<5	<1	<500
Specific Conductance (umhos/cm)	24.6	24.4	28	25.1
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	<1000
Chloroethane (ug/L)	<10	<10	<2	<1000
Benzene (ug/L)	<5	<5	<1	<500
Dibromochloromethane (ug/L)	<5	<5	<1	<500
Ethylbenzene (ug/L)	<5	<5	<1	<500
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<500
Sodium (mg/L)	1.95	1.98	1.85	<5.0
Nickel (ug/L)	<4	<4	<50	<40
Nitrate as Nitrogen (mg/L)	0.89	0.96	1.40	1.20
Lead (ug/L)	<6	<6	4	9.2
pH (pH)	5.42	5.00	4.6	5.7
Phenols (ug/L)	<5	<5	3	551
Selenium (ug/L)	<2	2	<10	<5
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<500
Tetrachloroethylene (ug/L)	1900	2660	2200	2800
Total Phosphates (ug/L)	30	90	<10.0	<50
Trichloroethylene (mg/L)	50.7	65.9	46.0	71.0
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	<500
Uranium (mg/L)	<1	<1	<0.005	<0.5
1,1-Dichloroethylene (ug/L)	<5	<5	1	<500
1,1-Dichloroethane (ug/L)	<5	<5	<1	<500
1,1,1-Trichloroethane (ug/L)	<5	<5	3	<500
1,1,2-Trichloroethane (ug/L)	<5	<5	13	<500
1,2-Dichloroethane (ug/L)	6	8	<1	<500
1,2-Dichloropropane (ug/L)	<10	<10	4	<500
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<500
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	<500
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<1000
Zinc (ug/L)	63	50	33	48.8

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 12A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	22	22	<400	<200
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	<4	<4	<100	<200
Bromodichloromethane (ug/L)	<5	<5	<1	<25
Trichlorofluoromethane (ug/L)	<5	<5	<1	-
Carbon Tetrachloride (ug/L)	<5	<5	<1	<25
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	-	<25
Chloroform (ug/L)	<5	<5	<1	<25
Bromomethane (ug/L)	<10	<10	<2	<50
Chloromethane (ug/L)	<10	<10	<2	<50
Chloride (mg/L)	2.0	1.8	2	<2.5
Chlorobenzene (ug/L)	<5	<5	<1	<25
Specific Conductance (umhos/cm)	16.5	16.7	22	16.9
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	8	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	<50
Chloroethane (ug/L)	<10	<10	<2	<50
Benzene (ug/L)	<5	<5	<1	<25
Dibromochloromethane (ug/L)	<5	<5	<1	<25
Ethylbenzene (ug/L)	<5	<5	<1	<25
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<25
Sodium (mg/L)	1.54	1.49	1.43	<5.0
Nickel (ug/L)	<4	<4	<50	<40
Nitrate as Nitrogen (mg/L)	0.30	0.31	0.24	0.30
Lead (ug/L)	<6	<6	<1	6.2
pH (pH)	4.56	5.06	4.7	5.1
Phenols (ug/L)	<5	<5	<2	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<25
Tetrachloroethylene (ug/L)	<5	6	<1	<25
Total Phosphates (ug/L)	30	30	9.8	<50
Trichloroethylene (ug/L)	557	570	210	460
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	<25
Uranium (mg/L)	<1	<1	<0.005	<0.5
1,1-Dichloroethylene (ug/L)	<5	<5	<1	<25
1,1-Dichloroethane (ug/L)	<5	<5	<1	<25
1,1,1-Trichloroethane (ug/L)	<5	<5	<1	<25
1,1,2-Trichloroethane (ug/L)	<5	<5	<1	<25
1,2-Dichloroethane (ug/L)	2	<1	<1	<25
1,2-Dichloropropane (ug/L)	<10	<10	2	<25
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<25
trans-1,3-Dichloropropene (ug/L)	<5	<5	1	<25
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<50
Zinc (ug/L)	155	149	96	168

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 14B				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	41	48	<400	<200
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	51	50	<100	<200
Bromodichloromethane (ug/L)	<5	<5	<1	<50
Trichlorofluoromethane (ug/L)	<5	<5	29	-
Carbon Tetrachloride (ug/L)	<5	<5	<1	<50
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	<50
Chloroform (ug/L)	<5	<5	<1	<50
Bromomethane (ug/L)	<10	<10	<2	<100
Chloromethane (ug/L)	<10	<10	<2	<100
Chloride (mg/L)	3.9	3.8	3	3.7
Chlorobenzene (ug/L)	<5	<5	<1	<50
Specific Conductance (umhos/cm)	173	174	183	188
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	<100
Chloroethane (ug/L)	<10	<10	<2	<100
Benzene (ug/L)	<5	<5	<1	<50
Dibromochloromethane (ug/L)	<5	<5	<1	<50
Ethylbenzene (ug/L)	<5	<5	<1	<50
Mercury (ug/L)	0.23	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<50
Sodium (mg/L)	17.1	16.6	16.9	16.7
Nickel (ug/L)	<4	<4	<50	<40
Nitrate as Nitrogen (mg/L)	28.5	18.8	17.4	25.9
Lead (ug/L)	<6	<6	<1	6.7
pH (pH)	5.18	5.02	5.1	5.2
Phenols (ug/L)	<5	<5	4	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sulfate (mg/L)	<5.0	<5.0	<5	<5.0
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<50
Tetrachloroethylene (ug/L)	228	221	22	140
Total Phosphates (ug/L)	30	40	9.0	<50
Trichloroethylene (ug/L)	144	140	39	120
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	<50
Uranium (mg/L)	<1	<1	<0.005	<0.5
1,1-Dichloroethylene (ug/L)	13	13	7	<50
1,1-Dichloroethane (ug/L)	<5	<5	<1	<50
1,1,1-Trichloroethane (ug/L)	20	19	6	<50
1,1,2-Trichloroethane (ug/L)	<5	<5	<1	<50
1,2-Dichloroethane (ug/L)	<1	17	<1	<50
1,2-Dichloropropane (ug/L)	<10	<10	<1	<50
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<50
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	<50
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<100
Zinc (ug/L)	66	69	64	67.8

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: MSB 26				
Chloroform (ug/L)	<1.0*	<10*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	1.56*	6.20*	8	5.8
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	2	1.6
Well: MSB 32				
Chloroform (ug/L)	<1.0*	<10*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	<1	<1.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	1	<1.0
Well: MSB 41C				
Chloroform (ug/L)	<1.0*	<10*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	<1	<1.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	<1	<1.0
Well: MSB 49B				
Chloroform (ug/L)	<10*	<10*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	1	<1
Trichloroethylene (ug/L)	93.8*	70.1*	88	78.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	<1	<1.0
Well: SRW 12A				
Chloroform (ug/L)	<1.0*	<1.0*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	2	<1.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	<1	<1.0
Well: SRW 13A				
Chloroform (ug/L)	<1.0*	<1.0*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<1	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	3	<1.0
1,1,1-Trichloroethane (ug/L)	<1.0*	<1.0*	<1	<1.0
Well: SRW 14B				
Chloroform (ug/L)	<1.0*	<1.0*	<1	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0	<1	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	<1	<1.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Second Quarter

	Primary Laboratory	Replicate	Blind Enwright	Weston
Well: ZBG 1				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	0.64	<3.0	<0.76	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	11	33	<100	<200
Nonvolatile Beta (pCi/L)	1.46	<2.0	<1.68	0
Bromodichloromethane (ug/L)	<5	<5	<1	<5
Trichlorofluoromethane (ug/L)	<5	<5	<1	-
Carbon Tetrachloride (ug/L)	<5	<5	<1	<5
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	<5
Chloroform (ug/L)	<5	<5	<1	<5
Bromomethane (ug/L)	<10	<10	<2	<10
Chloromethane (ug/L)	<10	<10	<2	<10
Chlorobenzene (ug/L)	<5	<5	<1	<5
Chromium (ug/L)	<4	<4	<50	<10
Chloroethene (ug/L)	<10	<10	<2	<10
Chloroethane (ug/L)	<10	<10	<2	<10
Benzene (ug/L)	<5	<5	<1	<5
Dibromochloromethane (ug/L)	<5	<5	<1	<5
Ethylbenzene (ug/L)	<5	<5	<1	<5
Mercury (ug/L)	<0.20	<0.20	<0.20	<0.20
Toluene (ug/L)	<5	<5	<1	<5
Nitrite as Nitrogen (mg/L)	<0.05	<0.05	-	1.4
Nitrate as Nitrogen (mg/L)	1.23	1.12	1.94	-
Lead (ug/L)	<6	<6	<1	10.0
Antimony (ug/L)	<3	<3	<200	<60
Selenium (ug/L)	<2	<2	<10	<5
1,1,2,2-Tetrachloroethane (ug/L)	<10	<10	<1	<5
Tetrachloroethylene (ug/L)	<5	<5	<1	<5
Total Radium (pCi/L)	<1.00	<1.00	<0.50	<0.5
Trichloroethylene (ug/L)	<5.00	<5.00	<1	<5.0
Tritium (pCi/mL)	13.7	13.6	8.04	19.0
trans-1,2-Dichloroethene (ug/L)	<5	<5	-	<5
1,1-Dichloroethylene (ug/L)	<5	<5	<1	<5
1,1-Dichloroethane (ug/L)	<5	<5	<1	<5
1,1,1-Trichloroethane (ug/L)	<5	<5	<1	<5.0
1,1,2-Trichloroethane (ug/L)	<5	<5	<1	<5
1,2-Dichloroethane (ug/L)	<1	<1	<1	<5
1,2-Dichloropropane (ug/L)	<10	<10	<1	<5
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	<5
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	<5
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	<10

* Analysis performed by the M-Area Laboratory, SRP.

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: ABP 1A	Primary Laboratory	Blind Replicate	Enwright	Weston
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1	<1
Chloroform (ug/L)	<1.0	<1.0	<1	<1
Manganese (ug/L)	13	28	<20	<15.0
Lead (ug/L)	<6	<6	<10	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	3	<1
Total Organic Halogens (ug/L)	<5	<5	39	26
Trichloroethylene (ug/L)	1.00	1.00	2	<1.0
1,1,1-Trichloroethane (ug/L)	<1	<1	<1	<1.0
Well: ACB 2A				
Gross Alpha (pCi/L)	<3.00	<3.00	<0.58	0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1	<1
Chloroform (ug/L)	<1.0	<1.0	<1	<1
Mercury (ug/L)	<0.20	0.21	<0.5	<0.2
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1	<1
Total Radium (pCi/L)	<1.0	<1.0	<0.5	0.2
Total Organic Halogens (ug/L)	6	<5	45	<10
Trichloroethylene (ug/L)	<1.0	<1.	<1	<1.0
1,1,1 Trichloroethane (ug/L)	<1	<1	<1	<1.0
Well: BGO 4D				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.05	1.20	<0.59	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	6	6	<100	<200
Nonvolatile Beta (pCi/L)	1.58	1.60	3.47	0
Calcium (mg/L)	3.57	7.78	6.84	7.34
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.3	2.2	3	<2.5
Specific Conductance (umhos/cm)	55.8	57.0	57	61.6
Chromium (ug/L)	4	<4	<50	<10
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.1
Fluoride (ug/L)	150	130	100	<100
Iron (ug/L)	15	58	<50	<100
Mercury (ug/L)	<0.20	0.23	<0.5	<0.2
Potassium (mg/L)	<0.50	<0.50	0.442	<5.0
Lindane (ug/L)	<0.05	<0.05	<0.1	<0.05
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Magnesium (ug/L)	194	200	230	<5000
Manganese (ug/L)	15	11	<20	16.7
Sodium (mg/L)	2.27	1.99	2.31	<5.0
Silica (mg/L)	3.19	3.19	7.1	-
Nitrate (as N) (mg/L)	1.06	1.30	1.3	1.10
Lead (ug/L)	<6	<6	<10	<5.0
pH (pH)	6.15	6.07	6.4	6.1
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silvex (ug/L)	<0.09	<0.09	<100	<0.5
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Total Dissolved Solids (mg/L)	37	44	50	42
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	0.58
Total Radium (pCi/L)	0.47	<1.00	<0.5	0.6
Total Organic Halogens (ug/L)	28	<5	<10	84
Total Phosphates (ug/L)	<20	<20	<10	<20

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: BGO 4D	Primary Laboratory	Blind Replicate	Enwright	Weston
Tritium (pCi/mL)	42.5	40.4	43.9	88.0
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1
Turbidity (NTU)	22.8	0.19	0.16	0.22
2,4-D (ug/L)	<0.30	<0.30	<0.5	<1
Well: CMP 14B				
Gross Alpha (pCi/L)	<3.00	<3.00	<0.52	0
Nonvolatile Beta (pCi/L)	<2.00	<2.00	4.69	0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<2	<1
Chloroform (ug/L)	<1.0	<1.0	<2	<1
Iron (ug/L)	68	84	<50	<100
Manganese (ug/L)	<2	<2	<20	19.5
Lead (ug/L)	<6	<6	<10	6.7
pH (pH)	7.66	8.03	7.8	8.2
Tetrachloroethylene (ug/L)	<1.0	<1.0	10	<1
Total Radium (pCi/L)	<1.00	<1.00	<0.5	0.0
Total Organic Halogens (ug/L)	<5	<5	27	<10
Trichloroethylene (ug/L)	<1.0	<1.0	<2	<1.0
1,1,1-Trichloroethane (ug/L)	<1	<1	<2	<1.0
Well: DCB 4A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	6.79	<3.00	1.18	5
Arsenic (ug/L)	<2	<2	<10	<10
Beryllium (ug/L)	5	6	<10	5.1
Nonvolatile Beta (pCi/L)	5.71	<2.0	6.33	4
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<2	<1
Cadmium (ug/L)	3	3	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<2	<1
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	30	25	<20	<25
Fluoride (ug/L)	1140	1150	2600	1000
Iron (ug/L)	544	592	640	599
Mercury (ug/L)	<0.20	<0.20	0.5	<0.2
Manganese (ug/L)	924	978	860	947
Nickel (ug/L)	114	118	140	126
Lead (ug/L)	27	13	<10	<5.0
pH (pH)	4.16	4.16	4.2	4.4
Selenium (ug/L)	<2	<2	<10	<5
Sulfate (mg/L)	275	248	260	305
Tetrachloroethylene (ug/L)	<1.0	<1.0	<2	<1
Total Radium (pCi/L)	1.24	1.67	1.0	1.9
Total Organic Halogens (ug/L)	14	12	12	13
Trichloroethylene (ug/L)	6.00	6.00	<2	5.2
1,1,1-Trichloroethane (ug/L)	<1	<1	8	<1.0
Zinc (ug/L)	266	236	250	253
Well: FSB 79A				
Gross Alpha (pCi/L)	<3.00	<3.00	4.82	0
Barium (ug/L)	18	19	<100	<200
Nonvolatile Beta (pCi/L)	1.52	1.58	8.22	0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: FSB 79A	Primary Laboratory	Blind Replicate	Enwright	Weston
Cadmium (ug/L)	<2	<2	<10	<5
Specific Conductance (umhos/cm)	82.0	82.0	72	81.4
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	26	14	<20	29
Iron (ug/L)	48	71	<50	<100
Mercury (ug/L)	<0.20	0.23	<0.5	<0.2
Manganese (ug/L)	7	2	<20	<15.0
Sodium (mg/L)	1.68	1.72	1.95	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.19	0.20	3.3	0.22
Lead (ug/L)	<6	<6	<10	<5.0
pH (pH)	6.51	6.60	6.5	6.6
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	<1.00	<1.00	<0.5	0.3
Total Organic Halogens (ug/L)	<5	<5	<20	16
Total Phosphates (ug/L)	170	140	170	150
Tritium (pCi/mL)	9.04	9.73	11.7	12.0
Zinc (ug/L)	22	16	<10	24.4
Well: FSB 99A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.57	1.47	<0.46	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	35	35	<100	<200
Nonvolatile Beta (pCi/L)	4.77	5.38	5.11	9
Calcium (mg/L)	20.9	21.0	18.0	19.9
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1	<1
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1	<1
Chloride (mg/L)	5.0	2.1	3	<2.5
Specific Conductance (umhos/cm)	164	170	150	170
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	5	5	<20	<25
Fluoride (ug/L)	370	370	200	100
Iron (ug/L)	15	14	<50	<100
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Potassium (mg/L)	5.94	5.85	5.00	10.2
Magnesium (ug/L)	990	1020	1200	<5000
Manganese (ug/L)	4	6	<20	<15.0
Sodium (mg/L)	10.5	10.3	10.0	9.58
Nickel (ug/L)	<4	<4	360	<40.0
Nitrate (as N) (mg/L)	1.36	1.34	6.6	1.40
Lead (ug/L)	<6	<6	<10	<5.0
pH (pH)	8.76	8.77	7.9	8.7
Phenols (ug/L)	<5	<5	<5	<5
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	8.02	7.88	12.0	-
Sulfate (mg/L)	<5.0	<5.0	5	<5.0
Tetrachloroethylene (ugL)	<1.0	<1.0	<1	<1
Total Dissolved Solids (mg/L)	112	113	120	101
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	0.49	0.72	<0.5	0.5
Total Organic Halogens (ug/L)	<5	<5	<20	<10
Total Phosphates (ug/L)	220	200	210	200
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1.0
Tritium (pCi/mL)	39.7	35.6	33.9	49.0
1,1,1-Trichloroethane (ug/L)	<1	<1	<1	<1.0
Zinc (ug/L)	<2	<2	<10	<20.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: FSB111C	Primary Laboratory	Blind Replicate	Enwright	Weston
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.00	1.19	<0.44	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	7	6	<100	<200
Nonvolatile Beta (pCi/L)	1.59	<2.00	1.89	0
Calcium (mg/L)	4.98	4.81	4.90	5.87
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	3.5	3.4	5	3.2
Specific Conductance (umhos/cm)	48.1	77.9	56	53.9
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	29
Fluoride (ug/L)	150	140	100	<100
Iron (ug/L)	14	25	<50	<100
Mercury (ug/L)	0.39	0.26	<0.5	<0.2
Potassium (mg/L)	<0.50	<0.50	0.280	7.15
Magnesium (ug/L)	350	337	400	<5000
Manganese (ug/L)	14	13	<20	18.0
Sodium (mg/L)	2.72	2.54	3.65	<5.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.60	1.63	2.6	1.80
Lead (ug/L)	<6	<6	<10	<5.0
pH (pH)	5.17	5.51	6.6	6.0
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silica (mg/L)	4.63	4.63	6.0	-
Sulfate (mg/L)	<5.0	<5.0	4	<5.0
Total Dissolved Solids (mg/L)	36	44	46	27
Total Organic Carbon (mg/L)	<1.0	<1.0	9	0.61
Total Radium (pCi/L)	<1.00	<1.00	<0.5	0.3
Total Organic Halogens (ug/L)	<5	<5	<10	<10
Total Phosphates (ug/L)	130	140	150	150
Tritium (pCi/mL)	4.99	4.54	4.1	8.3
Zinc (ug/L)	8	<2	<10	<20.0
Well: HAP 2				
Silver (ug/L)	<2	<2	<10	<10
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	29	28	<100	<200
Calcium (mg/L)	1.49	1.54	1.85	<5.0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	<1.0	2.9	3	2.6
Specific Conductance (umhos/cm)	62.8	63.9	54	67.7
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	7	9	<50	<100
Lead (ug/L)	<6	7	<10	<5.0
Mercury (ug/L)	0.24	<0.20	<0.5	<0.2
Magnesium (ug/L)	906	896	1200	<5000
Manganese (ug/L)	32	31	30	31.4
Nitrate (as N) (mg/L)	0.86	0.87	1.2	0.79
pH (pH)	6.29	5.72	4.1	5.0
Phenols (ug/L)	<5	<5	5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	4.26	4.33	5.37	7.07
Sulfate (mg/L)	9.70	9.50	14	13.8
Total Dissolved Solids (mg/L)	134	43	42	76

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: HAP 2	Primary Laboratory	Blind Replicate	Enwright	Weston
Total Organic Carbon (mg/L)	1.6	2.9	<5	0.89
Total Radium (pCi/L)	<1.00	-	0.7	0.7
Total Organic Halogens (ug/L)	7	6	46	<10
Total Phosphates (ug/L)	<20	<20	10	<20
Potassium (mg/L)	0.963	0.946	1.05	<5.0
Silica (mg/L)	5.77	5.89	11.0	-
Tritium (pCi/mL)	5.19	5.08	3.6	8.9
Well: HSB 85C				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	30	38	<400	259
Gross Alpha (pCi/L)	1.44	2.35	<0.52	0
Arsenic (ug/L)	<2	<2	<10	<10
Nonvolatile Beta (pCi/L)	1.66	1.65	1.41	0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.1	3.1	3	<2.5
Specific Conductance (umhos/cm)	26.0	31.7	26	25.4
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	16	19	<20	52
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.1
Fluoride (ug/L)	100	<100	<100	<100
Iron (ug/L)	7	41	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Lindane (ug/L)	<0.05	<0.05	<0.1	<0.05
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Methoxychlor (ug/L)	<0.5	<0.5	<0.2	<0.5
Manganese (ug/L)	4	5	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.46	1.51	7.9	1.70
pH (pH)	5.49	4.17	5.3	5.1
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Silvex (ug/L)	<0.09	<0.09	<0.1	<0.5
Sodium (mg/L)	3.28	2.88	3.39	<5.0
Sulfate (mg/L)	<5.0	31.5	4	<5.0
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	<1.00	<1.00	<0.5	0.7
Total Organic Halogens (ug/L)	<5	<5	<10	<10
Total Phosphates (ug/L)	<20	<20	<10	<20
Toxaphene (ug/L)	<1.0	<1.0	<0.5	<1
2,4-D (ug/L)	<0.30	<0.30	<0.5	<1
Zinc (ug/L)	39	20	<10	24.0
Cobalt (ug/L)	<4	<4	<50	<50
Antimony (ug/L)	<3	<3	<200	<40
Tritium (pCi/mL)	1.52	1.71	1.5	2.4
Well: HSB122A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.00	<3.00	<0.48	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	31	29	<100	<200
Nonvolatile Beta (pCi/L)	4.02	0.87	1.24	4
Calcium (mg/L)	52.0	47.8	31.0	41.4
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.7	2.7	3	<2.5

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: HSB122A	Primary Laboratory	Blind Replicate	Enwright	Weston
Specific Conductance (umhos/cm)	228	236	210	236
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	8	7	<20	<25
Fluoride (ug/L)	160	<100	100	<100
Iron (ug/L)	83	24	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	0.39	<0.5	<0.2
Magnesium (ug/L)	740	700	810	<5000
Manganese (ug/L)	14	14	<20	17.6
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.11	<0.05	<0.2	<0.10
pH (pH)	6.79	6.53	7.4	7.5
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	2.48	2.33	2.99	<5.0
Sulfate (mg/L)	11.7	11.6	12	10.9
Total Dissolved Solids (mg/L)	159	169	174	156
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	<1.00	<1.00	<0.5	0.4
Total Organic Halogens (ug/L)	<5	<5	21	37
Total Phosphates (ug/L)	60	160	180	53
Zinc (ug/L)	11	2	<10	<20
Cobalt (ug/L)	<4	<4	<50	<50
Potassium (mg/L)	1.29	1.29	1.30	<5.0
Antimony (ug/L)	<3	<3	<200	<40
Silica (mg/L)	14.6	14.6	27.0	-
Tritium (ug/L)	<0.70	<0.70	<1.0	0.0
Well: HSB123A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.19	1.47	<0.62	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	42	43	<100	<200
Nonvolatile Beta (pCi/L)	6.24	5.23	6.33	0
Calcium (mg/L)	44.8	44.0	31.0	37.5
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.7	2.7	4	2.8
Specific Conductance (umhos/cm)	227	231	220	240
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	7	8	<20	<25
Fluoride (ug/L)	<100	150	100	<100
Iron (ug/L)	64	49	<50	170
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Magnesium (ug/L)	781	736	790	<5000
Manganese (ug/L)	<2	<2	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.09	<0.05	0.8	<0.10
pH (pH)	7.97	8.09	8.1	8.4
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	0.669	0.625	6.55	6.24
Sulfate (mg/L)	11.9	11.9	12	11.6
Total Dissolved Solids (mg/L)	175	167	180	163
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	<1.00	<1.00	0.9	0.4
Total Organic Halogens (ug/L)	<5	<5	40	<10
Total Phosphates (ug/L)	40	70	80	48

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE
ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: HSB123A	Primary Laboratory	Blind Replicate	Enwright	Weston
Zinc (ug/L)	27	18	<10	<20.0
Cobalt (ug/L)	<4	<4	<50	<50
Potassium (mg/L)	442	386	4.70	7.25
Antimony (ug/L)	<3	<3	<200	<40
Silica (mg/L)	15.1	15.0	32.0	-
Tritium (pCi/mL)	<0.70	<0.70	<1.0	0.0
Well: LFW 19				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	4.66	5.63	1.17	0
Arsenic (ug/L)	8	<2	<10	<10
Barium (ug/L)	<4	<4	<100	<200
Nonvolatile Beta (pCi/L)	4.70	12.5	4.19	9
Bromodichloromethane (ug/L)	<5	<5	<1	-
Trichlorofluoromethane (ug/L)	<5	<5	2	-
Carbon Tetrachloride (ug/L)	<5.0	<5.0	<1	<1
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	-
Chloroform (ug/L)	<5.0	<5.0	<1	<1
Methylene Chloride (ug/L)	<5	14	<1	-
Bromomethane (ug/L)	<10	<10	<2	-
Chloromethane (ug/L)	<10	<10	<2	-
Chloride (mg/L)	2.3	2.2	3	<2.5
Chlorobenzene (ug/L)	<5	<5	<1	-
Specific Conductance (umhos/cm)	14.4	14.0	17	16.9
Chromium (ug/L)	6	10	<50	<10
Copper (ug/L)	4	5	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	-
Chloroethane (ug/L)	<10	<10	<2	-
Benzene (ug/L)	<5	<5	<1	-
Dibromochloromethane (ug/L)	<5	<5	<1	-
Ethylbenzene (ug/L)	<5	<5	<1	-
Fluoride (ug/L)	120	130	<100	<100
Iron (ug/L)	352	76	<50	<100
Lead (ug/L)	<6	<6	<10	5.8
Mercury (ug/L)	0.28	<0.20	<0.5	<0.2
Toluene (ug/L)	<5	<5	<1	-
Magnesium (ug/L)	429	420	530	<5000
Manganese (ug/L)	3	<2	<20	<15.0
Nickel (ug/L)	<4	4	<50	<40.0
Nitrate (as N) (mg/L)	0.33	0.32	0.4	0.37
pH (pH)	6.91	5.94	4.9	5.1
Phenols (ug/L)	<5	<5	<5	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
1,1,2,2-TCE (ug/L)	<10	<10	<1	-
Tetrachloroethylene (ug/L)	<5.0	<5.0	<1	<1
Total Organic Carbon (mg/L)	<1.0	1.0	<5	<0.50
Total Radium (pCi/L)	1.12	1.22	1.3	1.3
Total Organic Halogens (ug/L)	38	<5	51	66

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: LFW 19	Primary Laboratory	Blind Replicate	Enwright	Weston
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<5.0	<5.0	<1	<1.0
trans-1,2-Dichloroethene (ug/L)	<5	<5	<1	-
1,1-Dichloroethylene (ug/L)	<5	<5	<1	-
1,1-Dichloroethane (ug/L)	<5	<5	<1	-
1,1,1-TCE (ug/L)	<5	<5	<1	<1
1,1,2-TCE (ug/L)	<5	<5	<1	-
1,2-Dichloroethane (ug/L)	<1	<1	<1	-
1,2-Dichloropropane (ug/L)	<10	<10	<1	-
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	-
Zinc (ug/L)	36	31	<10	35.6
Tritium (pCi/mL)	2.43	3.03	2.3	4.7
Well: LFW 23				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.79	2.01	<0.57	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	5	4	<100	<200
Nonvolatile Beta (pCi/L)	2.06	1.78	1.57	4
Bromodichloromethane (ug/L)	<5	<5	<1	-
Trichlorofluoromethane (ug/L)	<5	<5	2	-
Carbon Tetrachloride (ug/L)	<5	<5.0	<1	<1
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	-
Chloroform (ug/L)	<5.0	<5.0	<1	<1
Methylene Chloride (ug/L)	22	9	<1	-
Bromomethane (ug/L)	<10	<10	<2	-
Chloromethane (ug/L)	<10	<10	<2	-
Chloride (mg/L)	2.8	2.8	3	3.1
Chlorobenzene (ug/L)	<5	<5	<1	-
Specific Conductance (umhos/cm)	14.2	15.6	17	17.9
Chromium (ug/L)	6	5	<50	<10
Copper (ug/L)	10	9	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	-
Chloroethane (ug/L)	<10	<10	<2	-
Benzene (ug/L)	<5	<5	<1	-
Dibromochloromethane (ug/L)	<5	<5	<1	-
Ethylbenzene (ug/L)	<5	<5	<1	-
Fluoride (ug/L)	130	140	<100	<100
Iron (ug/L)	78	99	<50	151
Lead (ug/L)	12	13	<10	10.7
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Toluene (ug/L)	<5	<5	<1	-
Magnesium (ug/L)	336	330	490	<5000
Manganese (ug/L)	<2	<2	<20	<15.0
Nickel (ug/L)	7	8	<50	72.7
Nitrate (as N) (mg/L)	0.27	0.26	0.4	<0.10
pH (pH)	6.49	5.88	4.6	4.9
Phenols (ug/L)	<5	<5	<5	<5.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: LFW 23	Primary Laboratory	Blind Replicate	Enwright	Weston
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
1,1,2,2-TCE (ug/L)	<10	<10	<1	-
Tetrachloroethylene (ug/L)	<5.0	<5.0	<1	<1
Total Organic Carbon (mg/L)	1.1	1.3	<5	0.58
Total Radium (pCi/L)	<1.00	0.55	0.7	1.0
Total Organic Halogens (ug/L)	29	11	20	<10
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<5.0	<5.0	<1	<1.0
trans-1,2-Dichloroethene (ug/L)	<5	<5	<1	-
1,1-Dichloroethylene (ug/L)	<5	<5	<1	-
1,1-Dichloroethane (ug/L)	<5	<5	2	-
1,1,1-TCE (ug/L)	<5	<5	6	1.7
1,1,2-TCE (ug/L)	<5	<5	<1	-
1,2-Dichloroethane (ug/L)	<1	<1	<1	-
1,2-Dichloropropane (ug/L	<10	<10	<1	-
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	-
Zinc (ug/L)	38	36	<10	62.7
Tritium (pCi/mL)	1.86	2.56	1.9	4.6
Well: LFW 40				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.11	1.78	0.71	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	<4	<4	<100	<200
Nonvolatile Beta (pCi/L)	<2.00	<2.00	4.50	0
Bromodichloromethane (ug/L)	<5	<5	<1	-
Trichlorofluoromethane (ug/L)	<5	<5	<1	-
Carbon Tetrachloride (ug/L)	<5.0	<5.0	<1	<1
Cadmium (ug/L)	<2	<2	<10	<5
Bromoform (ug/L)	<10	<10	<1	-
Chloroform (ug/L)	<5.0	<5.0	<1	<1
Methylene Chloride (ug/L)	20	12	<1	-
Bromomethane (ug/L)	<10	<10	<2	-
Chloromethane (ug/L)	<10	<10	<2	-
Chloride (mg/L)	2.8	2.7	3	3.1
Chlorobenzene (ug/L)	<5	<5	<1	-
Specific Conductance (umhos/cm)	12.4	12.3	14	14.9
Chromium (ug/L)	<4	5	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Chloroethene (ug/L)	<10	<10	<2	-
Chloroethane (ug/L)	<10	<10	<2	-
Benzene (ug/L)	<5	<5	<1	-
Dibromochloromethane (ug/L)	<5	<5	<1	-
Ethylbenzene (ug/L)	<5	<5	<1	-
Fluoride (ug/L)	100	120	<100	<100
Iron (ug/L)	115	42	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	0.30	<0.5	<0.2
Toluene (ug/L)	<5	<5	<1	-
Magnesium (ug/L)	221	226	250	<5000
Manganese (ug/L)	<2	<2	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	<0.05	0.05	<0.2	<0.10
pH (pH)	6.30	6.02	4.7	5.1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: LFW 40	Primary Laboratory	Blind Replicate	Enwright	Weston
Phenols (ug/L)	<5	<5	<5	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
1,1,2,2-TCE (ug/L)	<10	<10	<1	-
Tetrachloroethylene (ug/L)	<5.0	<5.0	<1	<1
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	0.58
Total Radium (pCi/L)	<1.00	<1.00	0.6	0.5
Total Organic Halogens (ug/L)	39	8	43	25
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<5.0	<5.0	<1	<1.0
trans-1,2-Dichloroethene (ug/L)	<5	<5	<1	-
1,1-Dichloroethylene (ug/L)	<5	<5	<1	-
1,1-Dichloroethane (ug/L)	<5	<5	<1	-
1,1,1-TCE (ug/L)	<5	<5	<1	<1
1,1,2-TCE (ug/L)	<5	<5	<1	-
1,2-Dichloroethane (ug/L)	<1	<1	<1	-
1,2-Dichloropropane (ug/L)	<10	<10	<1	-
cis-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
trans-1,3-Dichloropropene (ug/L)	<5	<5	<1	-
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<1	-
Zinc (ug/L)	20	31	<10	<20.0
Tritium (pCi/mL)	3.19	4.74	4.5	6.2
Well: MSB 10A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	<400	<200
Gross Alpha (pCi/L)	1.29	<3.00	0.37	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	<4	25	<100	<200
Nonvolatile Beta (pCi/L)	<2.00	<2.00	<0.99	0
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.3	2.3	3	<2.5
Specific Conductance (umhos/cm)	16.8	16.8	20	19.8
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Iron (ug/L)	32	17	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	0.21	<0.20	<0.5	<0.2
Manganese (ug/L)	<2	<2	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	0.20	0.30	0.3	0.39
pH (pH)	6.08	5.94	4.9	5.4
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	1.14	1.06	1.20	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Total Radium (pCi/L)	0.69	<1.00	<0.5	0.3
Total Phosphates (ug/L)	<20	<20	30	28
Uranium (ug/L)	<1000	<1000	<1.0	<100
Zinc (ug/L)	103	77	60	136
Well: MSB 15A				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	<400	<200
Gross Alpha (pCi/L)	0.91	<3.00	0.57	0
Arsenic (ug/L)	<2	<2	<10	<10

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: MSB 15A	Primary Laboratory	Blind Replicate	Enwright	Weston
Barium (ug/L)	8	8	<100	<200
Nonvolatile Beta (pCi/L)	1.81	2.05	-	3
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	2.4	2.4	3	<2.5
Specific Conductance (umhos/cm)	40.7	38.7	40	44.6
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Iron (ug/L)	45	35	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Manganese (ug/L)	<2	<2	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.34	1.14	1.4	1.30
pH (pH)	5.90	5.91	5.7	6.1
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	1.46	1.55	1.80	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Total Radium (pCi/L)	<1.00	<1.00	-	0.3
Total Phosphates (ug/L)	<20	<20	30	21
Uranium (ug/L)	<1000	<1000	<1.0	<100
Zinc (ug/L)	48	46	10	29.9
Well: MSB 16A				
Chloroform (ug/L)	<1000*	<500*	<1	<1
Tetrachloroethylene (ug/L)	<1000*	187*	73	47
Trichloroethylene (ug/L)	4910*	801*	6600	6300
trans-1,2-Dichloroethene (ug/L)	<1000*	<500*	<1	-
1,1-Dichloroethylene (ug/L)	<1000*	<500*	<1	-
1,1,1-TCE (ug/L)	<1000*	<500*	<1	<1
Well: MSB 25A				
Chloroform (ug/L)	<500*	<2000*	<1	<1
Tetrachloroethylene (ug/L)	151*	<200*	100	100
Trichloroethylene (ug/L)	2180*	2360*	3600	2500
1,1,1-TCE (ug/L)	<500*	<2000*	<1	<1.0
Well: MSB 29B				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	25	22	<400	211
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	5	4	<100	<200
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<1	<1
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<1	<1
Chloride (mg/L)	2.2	2.2	3	<2.5
Specific Conductance (umhos/cm)	23.5	34.0	24	27.1
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Manganese (ug/L)	2	<2	<20	<15.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: MSB 29B	Primary Laboratory	Blind Replicate	Enwright	Weston
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.42	1.45	1.6	1.60
pH (pH)	4.78	4.93	4.2	4.6
Phenols (ug/L)	<5	<5	5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	2.09	2.14	1.89	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Tin (ug/L)	<120	<120	<1000	<100
Tetrachloroethylene (ug/L)	<1.0	<1.0	<1	<1
Total Dissolved Solids (mg/L)	10	29	14	31
Total Radium (pCi/L)	0.49	<1.00	<0.5	0.8
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<1.0	<1.0	<1	<1.0
Uranium (ug/L)	<1000	<1000	<1.0	<100
1,1,1-TCE (ug/L)	<1	<1	<1	<1.0
Zinc (ug/L)	19	12	<10	<20.0
Well: MSB 30A				
Chloroform (ug/L)	<1.0*	<1.0*	<2	<1
Tetrachloroethylene (ug/L)	<1.0*	<1.0*	<2	<1
Trichloroethylene (ug/L)	<1.0*	<1.0*	<2	<1.0
1,1,1-TCE (ug/L)	<1.0*	<1.0*	<2	<1.0
Well: MSB 34B				
Chloroform (ug/L)	<1000*	<2000*	<1	<1
Tetrachloroethylene (ug/L)	510*	3360*	520	280
Trichloroethylene (ug/L)	2500*	2430*	3800	2700
1,1,1-TCE (ug/L)	<1000*	<2000*	<1	<1.0
Well: MSB 43B				
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	<400	213
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	<4	<4	<100	<200
Carbon Tetrachloride (ug/L)	<1.0	<1.0	-	<1
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	-	<1
Chloride (mg/L)	1.6	1.7	2	<2.5
Specific Conductance (umhos/cm)	18.1	19.6	21	21.1
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	25
Cyanide (ug/L)	<5.0	<5.0	<20	<10
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	0.30	<0.20	<0.5	<0.2

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: MSB 43B	Primary Laboratory	Blind Replicate	Enwright	Weston
Manganese (ug/L)	5	4	<20	<15.0
Nickel (ug/L)	<4	<4	<50	<40.0
Nitrate (as N) (mg/L)	1.32	1.34	1.6	1.40
pH (pH)	5.92	5.56	4.6	5.1
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	1.88	1.79	1.56	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Tin (ug/L)	<120	<120	<1000	<100
Tetrachloroethylene (ug/L)	<1.0	<1.0	-	<1
Total Dissolved Solids (mg/L)	12	18	20	25
Total Radium (pCi/L)	0.64	0.69	0.9	1.3
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<1.0	<1.0	-	<1.0
Uranium (ug/L)	<1000	<1000	<1.0	<100
1,1,1-TCE (ug/L)	<1	<1	-	<1.0
Zinc (ug/L)	21	18	<10	114
Well: MSB 45A				
Chloroform (ug/L)	<100*	<100*	<1	<1
Tetrachloroethylene (ug/L)	140*	147*	230	82
Trichloroethylene (ug/L)	843*	812*	1200	910
1,1,1-TCE (ug/L)	<100*	<100*	<1	<1.0
Well: SLP 2				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	0.59	-	<0.30	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	9	8	<100	<200
Nonvolatile Beta (pCi/L)	1.40	-	1.50	0
Calcium (mg/L)	11.6	11.6	11.5	11.7
Cadmium (ug/L)	<2	<2	<10	<5
Chloride (mg/L)	<1.0	<1.0	1	<2.5
Specific Conductance (umhos/cm)	81.3	82.3	71	79.9
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	10	5	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	0.24	<0.5	<0.2
Magnesium (ug/L)	193	173	186	<5000
Manganese (ug/L)	4	4	<20	<15.0
Nitrate (as N) (mg/L)	0.71	0.72	0.8	0.70
pH (pH)	6.98	7.06	7.8	7.7
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	1.55	1.38	1.52	<5.0
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Total Dissolved Solids (mg/L)	51	43	70	64
Total Organic Carbon (mg/L)	<1.0	1.1	<5	0.99
Total Radium (pCi/L)	<1.00	-	<0.5	0.2
Total Organic Halogens (ug/L)	<5	15	21	28
Total Phosphates (ug/L)	<20	<20	10	<20
Potassium (mg/L)	0.532	0.590	0.440	<5.0
Silica (mg/L)	2.96	4.00	7.2	-
Tritium (pCi/mL)	8.64	8.09	7.0	17.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: YSB 2A	Primary Laboratory	Blind Replicate	Enwright	Weston
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.00	<3.00	<0.48	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	10	7	<100	<200
Nonvolatile Beta (pCi/L)	0.97	<2.00	<1.12	4
Calcium (mg/L)	2.03	1.98	2.02	<5.0
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<2	<1
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<2	<1
Chloride (mg/L)	4.5	4.5	5	<2.5
Specific Conductance (umhos/cm)	46.3	47.5	40	43.0
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (ug/L)	<100	<100	600	<100
Iron (ug/L)	113	132	70	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	<0.20	<0.20	<0.5	<0.2
Magnesium (ug/L)	413	362	466	<5000
Manganese (ug/L)	2	2	<20	<15.0
Nitrate (as N) (mg/L)	0.90	0.74	0.9	0.78
pH (pH)	6.53	5.67	5.2	5.8
Phenols (ug/L)	<5	<5	<5	7.2
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	3.79	3.78	4.29	6.77
Sulfate (mg/L)	<5.0	<5.0	<4	<5.0
Tetrachloroethylene (ug/L)	<1.0	<1.0	<2	<1
Total Organic Carbon (mg/L)	<1.0	<1.0	<5	<0.50
Total Radium (pCi/L)	0.45	<1.00	<0.5	0.4
Total Organic Halogens (ug/L)	13	<5	50	<10
Total Phosphates (ug/L)	<20	<20	<10	<20
Trichloroethylene (ug/L)	<1.0	<1.0	<2	<1.0
1,1,1-TCE (ug/L)	<1	<1	<2	<1.0
Potassium (mg/L)	1.08	0.874	0.877	<5.0
Silica (mg/L)	3.69	3.69	8.1	-
Tritium (pCi/mL)	2.81	3.06	2.6	5.3

Well: YSB 3A				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.00	<3.00	<0.59	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	<4	<4	<100	<200
Nonvolatile Beta (pCi/L)	<2.00	<2.00	<1.09	0
Calcium (mg/L)	4.06	4.60	4.53	5.16
Carbon Tetrachloride (ug/L)	<1.0	<1.0	<2	<1
Cadmium (ug/L)	<2	<2	<10	<5
Chloroform (ug/L)	<1.0	<1.0	<2	<1
Chloride (mg/L)	10.3	10.2	11	10.4
Specific Conductance (umhos/cm)	327	323	280	314
Chromium (ug/L)	<4	<4	<50	<10
Copper (ug/L)	<4	<4	<20	<25
Fluoride (ug/L)	<100	<100	1000	<100

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Third Quarter

Well: YSB 3A	Primary Laboratory	Blind Replicate	Enwright	Weston
Iron (ug/L)	51	91	<50	121
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	0.31	<0.20	<0.5	<0.2
Magnesium (ug/L)	196	200	243	<5000
Manganese (ug/L)	3	3	<20	<15.0
Nickel (ug/L)	7	10	<50	63.5
Nitrate (as N) (ug/L)	3.75	3.89	4.7	4.40
pH (pH)	6.63	6.60	6.2	6.5
Phenols (ug/L)	<5	<5	<5	13.9
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	75.2	53.6	63.8	58.8
Sulfate (mg/L)	<5.0	<5.0	14	14.1
Tetrachloroethylene (ug/L)	<1.0	<1.0	<2	<1
Total Organic Carbon (mg/L)	1.2	1.1	28	0.67
Total Radium (pCi/L)	0.47	<1.00	<0.5	0.0
Total Organic Halogens (ug/L)	<5	15	29	19
Total Phosphates (ug/L)	<20	<20	70	160
Trichloroethylene (ug/L)	<1.0	<1.0	<2	<1.0
1,1,1-TCE (ug/L)	<1	<1	<2	<1.0
Zinc (ug/L)	25	21	<10	<20.0
Beryllium (ug/L)	<5	<5	<10	<5.0
Potassium (mg/L)	0.618	0.700	0.498	<5.0
Silica (mg/L)	2.14	2.13	8.2	-
Tritium (pCi/mL)	0.72	0.77	1.1	2.1
Well: ZDT 1				
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	0.76	<3.00	<0.40	0
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	14	14	<100	<200
Nonvolatile Beta (pCi/L)	2.10	<2.00	3.00	5
Calcium (mg/L)	1.27	1.07	1.18	<5.0
Cadmium (ug/L)	2	<2	<10	<5
Chloride (mg/L)	<1.0	<1.0	3	<2.5
Specific Conductance (umhos/cm)	44.2	42.0	36	45.7
Chromium (ug/L)	<4	<4	<50	<10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	12	<4	<50	<100
Lead (ug/L)	<6	<6	<10	<5.0
Mercury (ug/L)	0.30	0.30	<0.5	<0.2
Magnesium (ug/L)	554	531	590	<5000
Manganese (ug/L)	24	23	30	24.4
Nitrate (as N) (mg/L)	0.82	0.79	1.0	0.86
pH (pH)	5.28	5.56	4.9	5.2
Phenols (ug/L)	<5	<5	<5	<5.0
Selenium (ug/L)	<2	<2	<10	<5
Sodium (mg/L)	3.47	3.24	3.72	5.16
Sulfate (mg/L)	<5.0	<5.0	5	<5.0
Total Dissolved Solids (mg/L)	28	36	46	48
Total Organic Carbon (mg/L)	1.8	3.4	<5	0.89
Total Radium (pCi/L)	0.35	0.45	0.7	0.7
Total Organic Halogens (ug/L)	55	7	42	13
Total Phosphates (ug/L)	<20	<20	10	<20
Potassium (mg/L)	1.46	1.42	1.67	<5.0
Silica (mg/L)	4.00	4.05	9.0	-
Tritium (pCi/mL)	19.1	19.2	16.1	35.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: AOB 1	Primary Laboratory	Blind Replicate	Weston	Enwright
Acenaphthene (ug/L)	<10	<10	<10	<10
Acenaphthylene (ug/L)	<10	<10	<10	<10
Anthracene (ug/L)	<10	<10	<10	<10
Benzo(a)anthracene (ug/L)	<10	<10	<10	<10
Benzo(a)pyrene (ug/L)	<20	<20	<10	<10
Butylbenzyl Phthalate (ug/L)	<10	<10	<10	<10
Benzidine (ug/L)	<40	<40	-	<50
Benzo(g,h,i)perylene (ug/L)	<20	<20	<10	<10
Benzo(k)fluoranthene (ug/L)	<20	<20	<10	<10
Bis(2-chloroethoxy) Methane(ug/L)	<20	<20	<10	<10
Bis(2-chloroisopropyl) Ether (ug/L)	<20	<20	<10	<10
Bis(2-chloroethyl) Ether (ug/L)	<10	10	-	<10
Bis(2-ethylhexyl) Phthalate (ug/L)	<10	<10	<10	<10
Chrysene (ug/L)	<20	<20	<10	<10
Hexachlorobenzene (ug/L)	<10	<10	<10	<10
Hexachlorocyclopentadiene (ug/L)	<10	<10	<10	<10
Hexachloroethane (ug/L)	<10	<10	<10	<10
Dibenz(a,h)anthracene (ug/L)	<20	<20	<10	<10
Diethyl Phthalate (ug/L)	<10	<10	<10	<10
Dimethyl Phthalate (ug/L)	<10	<10	<10	<10
Di-n-butyl Phthalate (ug/L)	<10	<10	<10	<10
Di-n-octyl Phthalate (ug/L)	<10	<10	<10	<10
Fluoranthene (ug/L)	<10	<10	<10	<10
Fluorene (ug/L)	<10	<10	<10	<10
Hexachlorobutadiene (ug/L)	<10	<10	<10	<10
Indeno(1,2,3-c,d)pyrene (ug/L)	<20	<20	<10	<10
Isophorone (ug/L)	<10	<10	<10	<10
Naphthalene (ug/L)	<10	<10	<10	<10
Nitrobenzene (ug/L)	<10	<10	<10	<10
N-Nitrosodimethylamine (ug/L)	<10	<10	-	<10
N-Nitrosodi-propylamine (ug/L)	<10	<10	<10	<10
N-Nitrosodiphenylamine (ug/L)	<10	<10	<10	<10
Pentachlorophenol (ug/L)	<10	<10	<50	<20
Phenanthrene (ug/L)	<10	<10	<10	<10
Phenols (ug/L)	<10	<10	<10	<10
Pyrene (ug/L)	<10	<10	<10	<10
1,2-Dichlorobenzene (ug/L)	<10	<10	<10	<10
1,2-Diphenyl hydrazine (ug/L)	<20	<20	-	<10
1,3-Dichlorobenzene (ug/L)	<10	<10	<10	<10
1,4-Dichlorobenzene (ug/L)	<10	<10	<10	<10
2-Chlorophenol (ug/L)	<10	<10	<10	<10
2-Chloronaphthalene (ug/L)	<10	<10	<10	<10
2-Nitrophenol (ug/L)	<20	<20	<10	<20
2,4-Dichlorophenol (ug/L)	<10	<10	<10	<10
2,4-Dimethyl phenol (ug/L)	<10	<10	<10	<10
2,4-Dinitrophenol (ug/L)	<50	<50	<50	<10
2,4-Dinitrotoluene (ug/L)	<20	<20	<10	<10
2,4,6-Trichlorophenol (ug/L)	<10	<10	<10	<10
2,6-Dinitrotoluene (ug/L)	<20	<20	<10	-
3,3-Dichlorobenzidene (ug/L)	<20	<20	<20	<50
4-Bromophenylphenyl ether (ug/L)	<10	<10	<10	<10
4-Chlorophenylphenyl ether (ug/L)	<10	<10	<10	<10
3-Methyl-4-chlorophenol (ug/L)	<10	<10	<10	<10
4-Nitrophenol (ug/L)	<50	<50	<50	-
2-Methyl-4,6-dinitrophenol (ug/L)	<20	<20	<50	<20

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE
ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: BGO 2D	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.62	3.06	0	2.60
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	23	23	<200	<100
Nonvolatile Beta (pCi/L)	2.91	1.98	3	2.10
Calcium (mg/L)	1.12	1.28	<5.0	1.40
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	3.7	3.8	<2.5	3
Specific Conductance (umhos/cm)	55.1	53.6	40.2	40
Chromium (ug/L)	<4	<4	<10	<50
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	<20	21	<100	50
Lead (ug/L)	<6	<6	<5.0	<10
Lindane (ug/L)	<0.05	<0.05	<0.05	<0.1
Mercury (ug/L)	<0.2	2.86	<0.2	<0.5
Methoxychlor (ug/L)	<0.5	<0.5	<0.50	<0.2
Magnesium (ug/L)	1020	1060	<5000	1000
Manganese (ug/L)	3	4	<15.0	<20
Nitrate (as N) (ug/L)	3000	3230	2800	3500
pH (pH)	4.76	4.76	4.70	4.5
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Silvex (ug/L)	<0.09	<0.09	<0.5	<0.10
Sodium (mg/L)	2.34	2.53	<5	2.40
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Dissolved Solids (mg/L)	64	62	28	46
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	1.21	0.84	0.9	2.58
Total Organic Halogens (ug/L)	86	88	<10	32
Total Phosphates (ug/L)	<20	20	<50	<10
Tritium (pCi/mL)	21.9	21.3	26.0	15.5
Toxaphene (ug/L)	<1.0	<1.0	<1	<0.5
2,4-D (ug/L)	<0.30	<0.30	<1	<0.5
Potassium (ug/L)	<500	<500	<5000	610
Silica (mg/L)	3.22	3.29	2.00	6.40
Turbidity (NTU)	0.300	0.809	0.95	<1.0

Well: BGO 7D	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.60	3.16	0	2.00
Arsenic (ug/L)	<2	<2	<5	<10
Barium (ug/L)	13	9	<200	<100
Nonvolatile Beta (pCi/L)	1.77	1.89	0	2.30
Bromodichloromethane (ug/L)	<5	<5	<5	<10
Calcium (mg/L)	1.24	0.777	<5.0	0.93
Trichlorofluoromethane (ug/L)	<5	<5	<5	<10
Carbon Tetrachloride (ug/L)	<5.0	<5.0	<5	<10
Cadmium (ug/L)	<2	<2	<5	<10
Bromoform (ug/L)	<10	<10	<5	<10
Chloroform (ug/L)	<5.0	<5.0	<5	<10
Methylene Chloride (ug/L)	<5.0	<5.0	<5	<10
Bromomethane (ug/L)	<10	<10	<10	<10

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: BGO 7D	Primary Laboratory	Blind Replicate	Weston	Enwright
Chloromethane (ug/L)	<10	<10	<10	<10
Chloride (mg/L)	3.80	3.10	2.8	4
Chlorobenzene (ug/L)	<5	<5	<5	<10
Specific Conductance (umhos/cm)	40.3	39.0	29.4	30
Chromium (ug/L)	<4	<4	<10	<50
Chloroethene (ug/L)	<10	<10	<10	<10
Chloroethane (ug/L)	<10	<10	<10	<10
Benzene (ug/L)	7	<5	<5	<10
Dibromochloromethane (ug/L)	<5	<5	<5	<10
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.1
Ethylbenzene (ug/L)	<5	<5	<5	<10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	<20	<20	<100	100
Lead (ug/L)	<6	<6	<5.0	<10
Lindane (ug/L)	<0.05	<0.05	<0.05	<0.1
Mercury (ug/L)	0.520	<0.20	<0.2	<0.50
Toluene (ug/L)	<5	<5	<5	<10
Methoxychlor (ug/L)	<0.5	<0.5	<0.5	<0.2
Magnesium (ug/L)	630	496	<5000	580
Manganese (ug/L)	21	17	18.8	<20
Nitrate (as N) (ug/L)	1590	1590	1400	2000
pH (pH)	4.64	4.63	5.0	4.9
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Silvex (ug/L)	<0.09	<0.09	<0.5	<0.1
Sodium (mg/L)	2.70	2.23	<5.0	<5.0
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
1,1,2,2-TCE (ug/L)	<10	<10	<5	<10
Tetrachloroethylene (ug/L)	24.0	17.0	12	21
Total Dissolved Solids (mg/L)	49	51	36	44
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	0.69	0.88	0.8	0.80
Total Organic Halogens (ug/L)	77	72	5	27
Total Phosphates (ug/L)	30	30	<20	10
Trichloroethylene (ug/L)	89.0	76.0	60.0	86.0
Toxaphene (ug/L)	<1.0	<1.0	<1	<0.5
t-1,2-Dichloroethene (ug/L)	<5	<5	<5	
1,1-Dichloroethylene (ug/L)	<5	<5	<5	<10
1,1-Dichloroethane (ug/L)	<5	<5	<5	<10
1,1,1-Trichloroethane (ug/L)	<5	<5	<5	<10
1,1,2-Trichloroethane (ug/L)	<5	<5	<5	<10
1,2-Dichloroethane (ug/L)	<1	<1	<5	<10
1,2-Dichloropropane (ug/L)	<10	<10	<5	<10
c-1,3-Dichloropropene (ug/L)	<5	<5	<5	<10
t-1,3-Dichloropropene (ug/L)	<5	<5	-	<10
2-Chloroethylvinyl Ether (ug/L)	<10	<10	<5	<10
2,4-D (ug/L)	0.75	<0.30	<1	<0.5
Potassium (ug/L)	<500	<500	<5000	<1000
Silica (mg/L)	3.86	3.78	2.59	8.7
Turbidity (NTU)	0.089	0.093	0.76	<1.0

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: FSB 76A	Primary Laboratory	Blind Replicate	Weston	Enwright
Cadmium (ug/L)	<2	<2	<5	<10
Specific Conductance (umhos/cm)	118	118	114	100
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	9	9	<25	<20
Iron (ug/L)	<20	<20	<100	<50
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	<0.20	<0.20	<0.2	<0.5
Manganese (ug/L)	5	5	<15.0	<20
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	<50.0	<50.0	<100	<200
pH (pH)	6.79	6.86	6.8	6.6
Sodium (mg/L)	2.07	2.32	<5.0	1.90
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Organic Halogens (ug/L)	<5	<5	<10	<5
Total Phosphates (ug/L)	430	430	290	300
Tritium (pCi/mL)	<0.70	<0.70	0	<0.62
Zinc (ug/L)	29	10	42.4	20
Well: FSB 89C				
Silver (ug/L)	<2	<2	<10	<0.01
Gross Alpha (pCi/L)	<3.0	1.07	0	0.70
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	13	15	<200	<100
Nonvolatile Beta (pCi/L)	2.73	2.50	4	1.40
Calcium (mg/L)	5.18	4.59	<5.0	5.10
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	5.90	3.20	2.7	3
Specific Conductance (umhos/cm)	66.8	67.6	54.9	57
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	4	11	<25	<20
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	<20	21	<100	<50
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	<0.20	<0.20	<0.2	<0.5
Magnesium (ug/L)	449	406	<5000	420
Manganese (ug/L)	16	31	18.8	20
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	1900	1870	1800	1800
pH (pH)	6.24	6.17	6.4	6.2
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	3.77	3.61	<5.0	3.90
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Dissolved Solids (mg/L)	72	90	50	56
Total Organic Carbon (ug/L)	<1000	<1000	660	<5000
Total Radium (pCi/L)	<1.0	<1.0	0.4	<0.53
Total Organic Halogens (ug/L)	9	8	<10	30
Total Phosphates (ug/L)	31	30	<50	<10
Tritium (pCi/L)	24.8	25.0	30.0	14.5
Potassium (ug/L)	2120	<500	<5000	2200
Silica (mg/L)	4.26	4.48	2.70	8.9
Zinc (ug/L)	12	24	43.2	40

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: FSB101A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.95	1.37	13	<0.89
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	36	42	<200	<100
Nonvolatile Beta (pCi/L)	2.84	1.55	0	1.70
Calcium (mg/L)	24.0	29.4	25.0	24.0
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2.70	2.80	2.6	3
Specific Conductance (umhos/cm)	167	167	168	150
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	17	13	<25	<20
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	<20	33	<100	100
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	0.200	<0.20	<0.2	<0.5
Magnesium (ug/L)	610	693	<5000	690
Manganese (ug/L)	3	3	<15.0	60
Nickel (ug/L)	<4	4	<40.0	<50
Nitrate (as N) (ug/L)	1910	1910	1600	1700
pH (pH)	7.55	7.51	7.2	7.5
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	2.26	2.66	<5.0	2.40
Sulfate (mg/L)	<5000	<5000	<5000	<5000
Total Dissolved Solids (mg/L)	186	146	110	97
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	<1.0	<1.0	0.0	0.71
Total Organic Halogens (ug/L)	<5	<5	29	30
Total Phosphates (ug/L)	170	150	96	100
Potassium (ug/L)	1140	1670	<5000	1100
Silica (mg/L)	8.1	8.18	4.91	15
Tritium (pCi/mL)	0.7	0.7	0.0	0.60
Zinc (ug/L)	8	13	<20.0	50

Well: HAP_1	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	0	1.37
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	39	46	<200	<100
Nonvolatile Beta (pCi/L)	1.58	3.85	4	5.41
Calcium (mg/L)	47.1	51.4	40.3	7.50
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	6.2	5.8	-	9
Specific Conductance (umhos/cm)	114	110	142	140
Chromium (ug/L)	<4	<4	<10	<50
Fluoride (ug/L)	<100	<100	<100	150
Iron (ug/L)	<20	<20	<100	290
Lead (ug/L)	<6	<6	<5.0	<100
Mercury (ug/L)	0.46	<0.20	<0.2	<0.5
Magnesium (ug/L)	1140	1230	<5000	1700
Manganese (ug/L)	5	5	<15.0	500

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: HAP_1	Primary Laboratory	Blind Replicate	Weston	Enwright
Nitrate (as N) (ug/L)	1330	1380	1500	1000
pH (pH)	5.68	5.62	6.0	6.4
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	9.83	8.71	9.83	130
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Dissolved Solids (mg/L)	94	98	72	74
Total Organic Carbon (ug/L)	1200	<1000	1300	8000
Total Radium (pCi/L)	<1.0	<1.0	0.8	<0.23
Total Organic Halogens (ug/L)	19	20	16	<10
Total Phosphates (ug/L)	<20	<20	<50	<10
Potassium (ug/L)	3140	2920	<5000	5100
Silica (mg/L)	8.27	8.21	2.76	7.7
Tritium (pCi/mL)	21.4	22.7	0.0	14.6

Well: HSB117A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	2.54	3.20	0	2.70
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	39	40	<200	<100
Nonvolatile Beta (pCi/L)	4.36	4.90	7	4.40
Calcium (mg/L)	19.6	20.5	21.2	21.0
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2.5	2.9	<2.5	3
Specific Conductance (umhos/cm)	164	160	161	140
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	11	12	<25	<20
Fluoride (ug/L)	160	120	110	140
Iron (ug/L)	25	21	<100	<50
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	<0.20	<0.20	<0.2	<0.5
Magnesium (ug/L)	902	937	<5000	960
Manganese (ug/L)	113	115	133	130
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	90	<50	<100	<200
pH (pH)	7.00	7.00	7.0	7.0
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	-
Sodium (mg/L)	2.26	2.3	<5.0	2.40
Sulfate (mg/L)	7.50	7.40	6.5	6
Total Dissolved Solids (mg/L)	168	170	114	110
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	<1.0	0.71	0.6	<1.02
Total Organic Halogens (ug/L)	<5	<5	<10	21
Total Phosphates (ug/L)	220	210	120	100
Cobalt (ug/L)	<4	<4	<50	<50
Potassium (ug/L)	4710	4580	<5000	4400
Antimony (ug/L)	<30	<30	<60	<200
Silica (mg/L)	12.7	12.7	8.18	26.0
Tritium (pCi/mL)	<0.70	<0.70	0.0	<0.57
Zinc	14	30	27.5	50

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: HSB118A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	3.05	2.90	0.0	2.00
Arsenic (ug/L)	<2	2	<10	<10
Barium (ug/L)	75	73	<200	<100
Nonvolatile Beta (pCi/L)	4.98	5.20	7	4.70
Calcium (mg/L)	25.3	25.1	24.6	23.0
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2.9	3.0	<2.5	3
Specific Conductance (umhos/cm)	178	176	162	160
Chromium (ug/L)	6	<4	<10	<50
Copper (ug/L)	12	12	<25	<20
Fluoride (ug/L)	100	150	140	170
Iron (ug/L)	60	32	<100	100
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	4.98	0.580	<0.2	<0.5
Magnesium (ug/L)	803	771	<5000	810
Manganese (ug/L)	71	67	80.4	100
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	100	60	<100	<200
pH (pH)	7.21	7.25	6.9	7.2
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	3.31	2.89	<5.0	3.00
Sulfate (mg/L)	8.40	8.60	7.6	7
Total Dissolved Solids (mg/L)	172	186	128	130
Total Organic Carbon (ug/)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	0.99	0.63	0.4	1.72
Total Organic Halogens (ug/L)	<5	<5	<10	14
Total Phosphates (ug/L)	280	270	170	200
Cobalt (ug/L)	<4	<4	<50	<50
Potassium (ug/L)	4380	4660	<5000	3800
Antimony (ug/L)	<30	<30	<60	<200
Silica (mg/L)	13.9	14.1	9.45	32.0
Tritium (pCi/mL)	<0.70	<0.70	0.0	<0.57
Zinc (ug/L)	18	17	58.1	40

Well: HSB130C	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	<3.0	0	<0.555
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	21	21	<200	<100
Nonvolatile Beta (pCi/L)	<2.0	<2.0	3	<1.02
Calcium (mg/L)	25.7	24.3	23.3	24.0
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2.7	2.5	<2.5	2
Specific Conductance (umhos/cm)	171	173	162	160
Chromium (ug/L)	<4	<4	<10	50
Copper (ug/L)	12	11	<25	<20
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	<20	<20	<100	150
Lead (ug/L)	<6	<6	<5.0	<10

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: HSB130C	Primary Laboratory	Blind Replicate	Weston	Enwright
Mercury (ug/L)	0.360	<0.2	<0.2	<0.5
Magnesium (ug/L)	606	608	<5000	660
Manganese (ug/L)	3	3	<15.0	50
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	350	360	240	300
pH (pH)	8.01	8.02	7.9	8.0
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	5.12	5.07	5.35	5.10
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Dissolved Solids (mg/L)	182	156	109	130
Total Organic Carbon (ug/L)	<1000	<1000	<500	<5000
Total Radium (pCi/L)	<1.0	<1.0	0.0	<0.49
Total Organic Halogens (ug/L)	<5	<5	<10	<10
Total Phosphates (ug/L)	110	100	53	50
Cobalt (ug/L)	<4	<4	<50	<50
Potassium (ug/L)	868	730	<5000	1400
Antimony (ug/L)	<30	<30	<60	<200
Silica (mg/L)	6.36	6.41	3.72	12.0
Tritium (pCi/mL)	<0.7	<0.7	0.0	<0.63
Zinc (ug/L)	13	6	<20	60

Well: LFW 36	Primary Laboratory	Blind Replicate	Weston	Enwright
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.1
Lindane (ug/L)	<0.05	<0.05	<0.051	<0.1
Methoxychlor (ug/L)	<0.5	<0.5	<0.51	<0.2
Silvex (ug/L)	<0.09	0.10	<0.53	<0.1
Toxaphene (ug/L)	<1.0	<1.0	<1	<0.5
2,4-D (ug/L)	<0.30	<0.30	<1.1	<0.5

Well: LFW 42	Primary Laboratory	Blind Replicate	Weston	Enwright
Endrin (ug/L)	<0.10	<0.10	<0.1	<0.1
Lindane (ug/L)	<0.05	<0.05	<0.051	<0.1
Methoxychlor (ug/L)	<0.5	<0.5	<0.51	<0.2
Silvex (ug/L)	<0.09	<0.09	<0.54	<0.1
Toxaphene (ug/L)	<1.0	<1.0	<1	<0.5
2,4-D (ug/L)	<0.30	<0.30	<1.1	<0.5

Well: MSB 19A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	<200	<400
Arsenic (ug/L)	<2	<2	<5	<10
Barium (ug/L)	<4	4	<200	<100
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	1.9	2.1	<2.5	1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: MSB 19A	Primary Laboratory	Blind Replicate	Weston	Enwright
Specific Conductance (umhos/cm)	27.6	27.8	20.1	22
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	4	<4	<25	<20
Cyanide (ug/L)	<5.0	<5.0	<10	<20
Lead (ug/L)	10	6	5.4	<10
Mercury (ug/L)	<0.20	<0.20	<0.2	<0.5
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	1340	1310	1200	1300
pH (pH)	5.21	5.23	5.2	5.2
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	1.64	1.84	<5.0	<5.0
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Phosphates (ug/L)	20	30	<20	<10
Uranium (mg/L)	<1	<1	<1.0	<1.0
Zinc (ug/L)	57	55	69.4	40

Well: MSB 21A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	332	<400
Arsenic (ug/L)	<2	<2	<5	<10
Barium (ug/L)	<4	<4	<200	<100
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2.5	2.2	<2.5	2
Specific Conductance (umhos/cm)	25.3	24.1	19.5	21
Chromium (ug/L)	<4	<4	10.2	<50
Copper (ug/L)	<4	<4	<25	<20
Cyanide (ug/L)	<5.0	<5.0	<10	<20
Lead (ug/L)	<6	<6	5.3	<10
Mercury (ug/L)	<0.20	<0.20	<0.2	<0.5
Nickel (ug/L)	<4	<4	<40.0	<5
Nitrate (as N) (ug/L)	1020	1030	920	1000
pH (pH)	5.46	5.49	5.4	5.4
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	1.75	1.75	<5.0	<5.0
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Phosphates (ug/L)	40	940	<20	<10
Uranium (mg/L)	<1	<1	<1.0	<1.0
Zinc (ug/L)	70	77	128	50

Well: MSB 36C	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Aluminum (ug/L)	<20	<20	<200	<400
Arsenic (ug/L)	<2	<2	<5	<10
Barium (ug/L)	5	5	<200	<100
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	2	3.6	<2.5	<1

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: MSB 36C	Primary Laboratory	Blind Replicate	Weston	Enwright
Specific Conductance (umhos/cm)	27.0	27.0	21.3	22
Chromium (ug/L)	<4	<4	<10	<50
Copper (ug/L)	<4	<4	<25	<20
Cyanide (ug/L)	<5.0	<5.0	<10	<20
Lead (ug/L)	6	<6	<5.0	<10
Mercury (ug/L)	0.260	<0.20	<0.2	<0.5
Nickel (ug/L)	<4	<4	<40.0	<50
Nitrate (as N) (ug/L)	1580	1590	1400	1600
pH (pH)	5.30	5.25	5.1	5.0
Phenols (ug/L)	<5	<5	<5.0	<0.005
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	2.30	1.96	<5.0	<5.0
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Phosphates (ug/L)	40	30	<20	<10
Uranium (mg/L)	<1	<1	<1.0	<1.0
Zinc (ug/L)	19	15	34.0	<10

Well: YSP 4A	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	<3.0	1.42	0	2.33
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	12	11	<200	<100
Nonvolatile Beta (pCi/L)	1.98	2.53	0	3.54
Bromodichloromethane (ug/L)	<5	<5	<5	<10
Trichlorofluoromethane (ug/L)	<5	<5	-	<10
Carbon Tetrachloride (ug/L)	<5.0	<5.0	<5	<10
Cadmium (ug/L)	<2	<2	<5	<10
Bromoform (ug/L)	<10	<10	<5	<10
Chloroform (ug/L)	<5.0	<5.0	<5	<10
Methylene Chloride (ug/L)	<5	<5	<5	<10
Bromomethane (ug/L)	<10	<10	<10	<10
Chloromethane (ug/L)	<10	<10	<10	<10
Chloride (mg/L)	6.4	6.4	-	7
Chlorobenzene (ug/L)	<5	<5	<5	<10
Specific Conductance (umhos/cm)	61.3	62.6	52.8	56
Chromium (ug/L)	<4	<4	<10	<50
Chloroethene (ug/L)	<10	<10	<10	<10
Chloroethane (ug/L)	<10	<10	<10	<10
Benzene (ug/L)	<5	<5	<5	<10
Dibromochloromethane (ug/L)	<5	<5	<5	<10
Ethylbenzene (ug/L)	<5	<5	<5	<10
Fluoride (ug/L)	<100	<100	<100	<100
Iron (ug/L)	96	246	130	70
Lead (ug/L)	<6	<6	<5.0	<100
Mercury (ug/L)	<0.20	0.400	<0.2	<0.5
Toluene (ug/L)	<5	<5	<5	<10
Manganese (ug/L)	9	11	<15.0	<20
Nitrate (as N) (ug/L)	1510	1620	2200	1600
pH (pH)	5.15	5.18	5.5	5.6
Phenols (ug/L)	<5	<5	<5.0	<50
Selenium (ug/L)	<2	<2	<5	<10

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE
ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: YSB 4A	Primary Laboratory	Blind Replicate	Weston	Enwright
Sodium (mg/L)	5.71	6.56	7.03	8.70
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
1,1,2,2-TCE (ug/L)	<10	<10	<5	<10
Tetrachloroethylene (ug/L)	<5.0	<5.0	<5	<10
Total Organic Carbon (ug/L)	<1000	<1000	510	<5000
Total Radium (pCi/L)	0.86	<1.0	0.9	1.4
Total Organic Halogens (ug/L)	<5	<5	<10	<10
Trichloroethylene (ug/L)	<5.0	<5.0	<5	<10
t-1,2-Dichloroethene (ug/L)	<5	<5	<5	<10
1,1-Dichloroethylene (ug/L)	<5	<5	<5	<10
1,1-Dichloroethane (ug/L)	<5	<5	<5	<10
1,1,1-Trichloroethane (ug/L)	<5	<5	<5.0	<10
1,1,2-Trichloroethane (ug/L)	<5	<5	<5	<10
1,2-Dichloroethane (ug/L)	<1	<1	<5	<10
1,2-Dichloropropane (ug/L)	<10	<10	<5	<10
c-1,3-Dichloropropene (ug/L)	<5	<5	<5	<10
t-1,3-Dichloropropene (ug/L)	<5	<5	-	<10
2-Chloroethylvinyl Ether (ug/L)	<10	<10	-	<10

Well: ZBG 2	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	0.99	0.94	0	<0.94
Arsenic (ug/L)	<2	<2	<10	<50
Barium (ug/L)	5	6	<200	<100
Nonvolatile Beta (pCi/L)	0.93	<2	0	<1.77
Bromodichloromethane (ug/L)	<5	<5	<5	<10
Trichlorofluoromethane (ug/L)	<5	<5	-	<10
Carbon Tetrachloride (ug/L)	<5	<5	<5	<10
Cadmium (ug/L)	<2	<2	<5	<10
Bromoform (ug/L)	<10	<10	<5	<10
Chloroform (ug/L)	<5.0	<5.0	<5	<10
Methylene Chloride (ug/L)	<5	<5	<5	<10
Bromomethane (ug/L)	<10	<10	<10	<10
Chloromethane (ug/L)	<10	<10	<10	-
Chlorobenzene (ug/L)	<5	<5	<5	<10
Chromium (ug/L)	<4	<4	36.0	<50
Chloroethene (ug/L)	<10	<10	<10	<10
Chloroethane (ug/L)	<10	<10	<10	<10
Benzene (ug/L)	<5	<5	<5	<10
Dibromochloromethane (ug/L)	<5	<5	<5	<10
Ethylbenzene (ug/L)	<5	<5	<5	<10
Lead (ug/L)	<6	<6	<5.0	<10
Mercury (ug/L)	0.270	0.520	<0.2	<0.5
Toluene (ug/L)	<5.0	<5.0	<5	<10
Nitrate (as N) (ug/L)	960	950	<50	1000
Nitrite (as N) (ug/L)	<50	<50	<50	-
Selenium (ug/L)	<2	<2	<5	<10
1,1,2,2-TCE (ug/L)	<10	<10	<5	<10
Tetrachloroethylene (ug/L)	<5.0	<5.0	<5	<10
Total Radium (pCi/L)	<1.0	0.56	0.5	<0.19
Trichloroethylene (ug/L)	<5.0	<5.0	<5.0	<10

TABLE 10-17
GROUNDWATER QUALITY ASSURANCE ANALYSIS RESULTS, CONT'D.

Fourth Quarter

Well: ZBG 2	Primary Laboratory	Blind Replicate	Weston	Enwright
Tritium (pCi/mL)	8.96	11.2	0.0	5.95
t-1,2-Dichloroethene (ug/L)	<5	<5	<5	<10
1,1-Dichloroethylene (ug/L)	<5	<5	<5	<10
1,1-Dichloroethane (ug/L)	<5	<5	<5	<10
1,1,1-Trichloroethane (ug/L)	<5	<5	<5.0	<10
1,1,2-Trichloroethane (ug/L)	<5	<5	<5	<10
1,2-Dichloroethane (ug/L)	<1	<1	<5	<10
1,2-Dichloropropane (ug/L)	<10	<10	<5	<10
c-1,3-Dichloropropene (ug/L)	<5	<5	<5	<10
t-1,3-Dichloropropene (ug/L)	<5	<5	-	<10
2-Chloroethylvinyl Ether (ug/L)	<10	<10	-	<10
Antimony (ug/L)	<3	<3	<60	<200

Well: ZDT 2	Primary Laboratory	Blind Replicate	Weston	Enwright
Silver (ug/L)	<2	<2	<10	<10
Gross Alpha (pCi/L)	1.18	0.85	0	0.65
Arsenic (ug/L)	<2	<2	<10	<10
Barium (ug/L)	12	13	<200	<100
Nonvolatile Beta (pCi/L)	1.15	1.76	0	1.62
Calcium (mg/L)	3.4	3.53	<5.0	3.40
Cadmium (ug/L)	<2	<2	<5	<10
Chloride (mg/L)	3.0	3.3	-	3
Specific Conductance (umhos/cm)	54.1	55.8	46.4	47
Chromium (ug/L)	<4	<4	<10	<50
Fluoride (ug/L)	<100	<100	<100	170
Iron (ug/L)	<20	<20	<100	270
Lead (ug/L)	6	10	7.6	<100
Mercury (ug/L)	0.460	<0.20	<0.2	<0.8
Magnesium (ug/L)	469	454	<5000	500
Manganese (ug/L)	23	24	33.1	40
Nitrate (as N) (ug/L)	2320	2330	880	1900
pH (pH)	5.11	5.11	5.5	5.6
Phenols (ug/L)	<5	<5	<5.0	<5
Selenium (ug/L)	<2	<2	<5	<10
Sodium (mg/L)	4.58	4.53	<5.0	5.70
Sulfate (mg/L)	<5.0	<5.0	<5.0	<5
Total Dissolved Solids (mg/L)	66	54	36	28
Total Organic Carbon (ug/L)	<1000	<1000	<500	8000
Total Radium (pCi/L)	<1.0	<1.0	0.4	0.33
Total Organic Halogens (ug/L)	5	<5	<10	<10
Total Phosphates (ug/L)	<20	<20	<50	<10
Potassium (ug/L)	532	<500	<5000	<50
Silica (mg/L)	7.19	7.26	2.32	6.20
Tritium (pCi/mL)	25.4	26.6	5.0	19.2

TABLE 10-18
ERA QUALITY CONTROL SAMPLES
QUALITY ASSESSMENT RESULTS[a]

Parameter Units	Theoretical Value	Result Result	EEI[b] Unprepared	EEI[b] Pre-prepared	WS[c] Result	EW[d] Result
Inorganics						
pH	8.8	8.6-9.0	8.87, 8.88	8.64, 8.69	9.1	9.0
Metals (µg/L)						
Arsenic	94.7	71-	118 87,	86 70,	74	89 9.0
Cadium	212	159-265	169, 178	173	199	190
Calcium(mg/L)	25.2	19-32	28.1	27.1 26		21.4 22
Chromium	239	180-298	238	200	237	230
Iron	597	448-747	532, 560	498	586	590
Lead	224	168-280	229, 245	202	239	230
Manganese	248	186-310	233, 246	212	236	230
Mercury	15	11-18	7.3,	6.4 11.8		11.5
Selenium	174	129-216	153, 143	163, 158	153	153
Organics (µg/L)						
Gamma-BHC	0.143	0.041-0.19	0.12, 0.12	0.14	0.13	<0.1
2,4-D	0.625	0.17-0.79	0.3, 0.3		<1.9	<0.5
Toxaphene	2.07	0.84-2.7	2.01, 1.93	1.0	<2.0	<0.5
Volatiles (µg/L)						
1,2-DCLE[e]	3.9	1.8-5.3	3.47, 3.23		<5	<10
1,4-DCLB[f]	3.1	1.3-4.1	3.36, 2.76			<10

[a] Environmental Resource Associates, source of standards.
[b] Envirodyne Engineers, Inc., an independent subcontracted laboratory.
[c] Roy F. Weston, Inc, Weston Analytical Laboratory, an independent subcontracted laboratory.
[d] Enwright Laboratories, an independent subcontracted laboratory.
[e] 1,2-dichloroethane
[f] 1,4-dichlorobenzene

Part III

Environmental Management and Research Programs

Chapter 14

Savannah River Ecology Laboratory

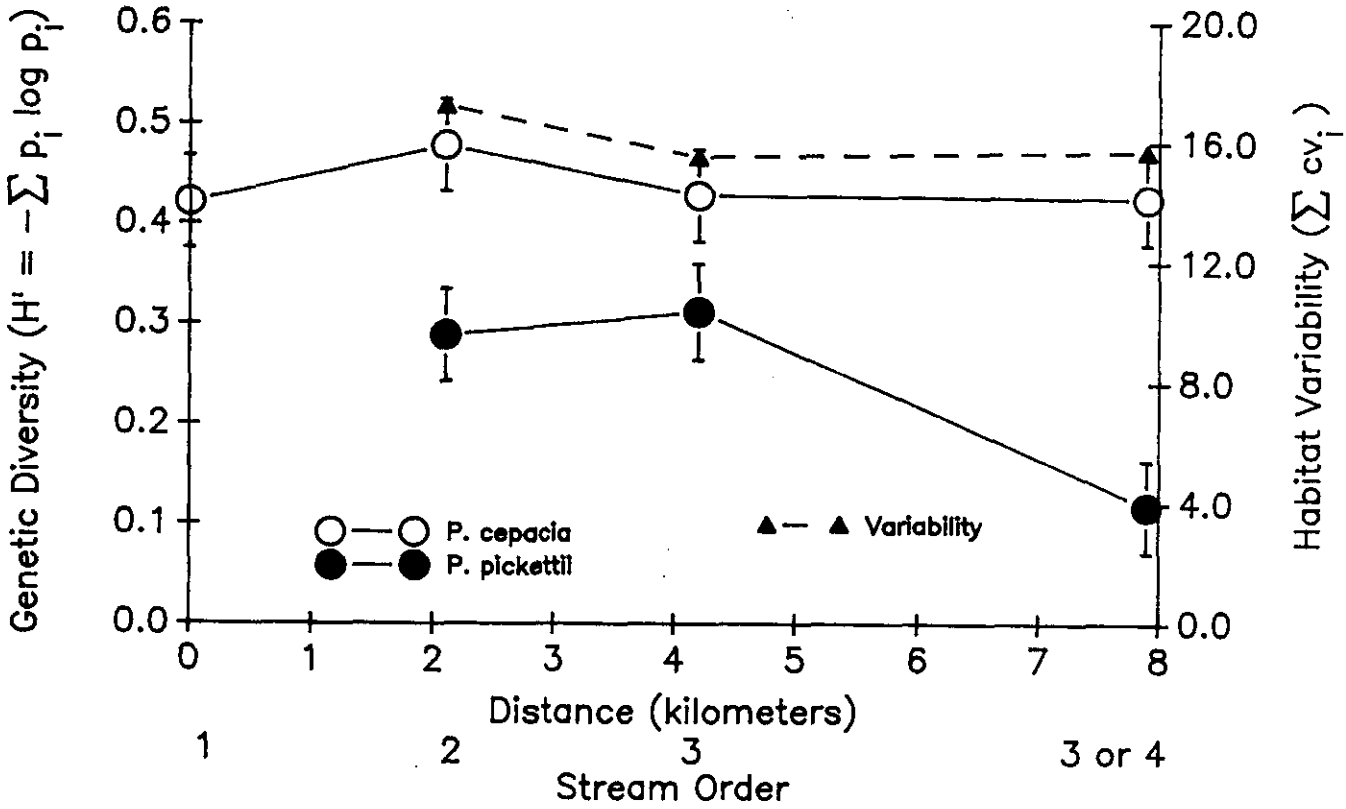


Figure 14-1. Genetic Diversity of Two Species of Bacteria isolated from Meyers Branch and habitat variability. Open circles - *Pseudomonas cepacta*, Closed circles - *Pseudomonas pickettii*, Closed triangle - habitat variability

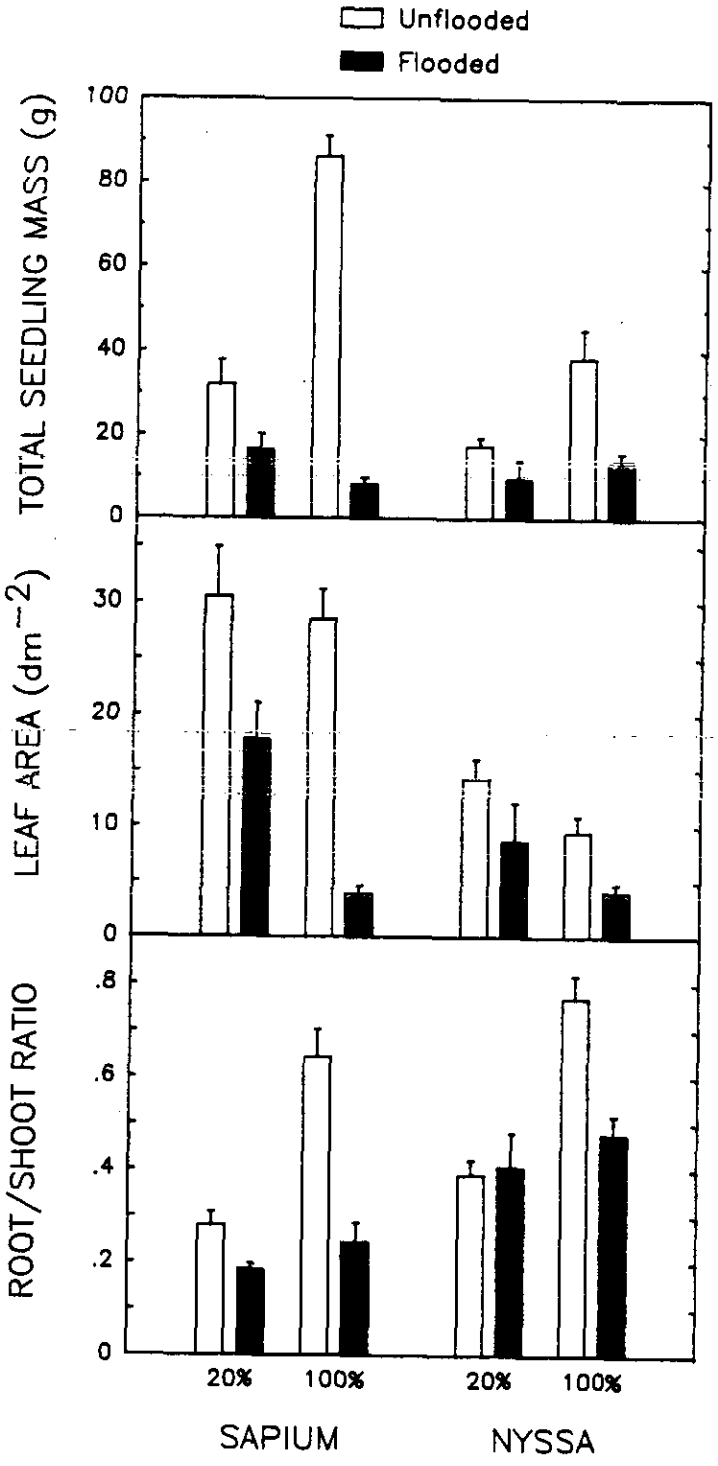


Figure 14-2. Size of Chinese tallow tree (Sapium) and water tupelo (Nyssa) seedlings subject to two flooding treatments within two light regimes (20% and 100% of full sunlight).

MEAN LOG TSS (MEANLTSS) BY FISCAL YEAR (PERIOD).
Rainfall one day before sampling.

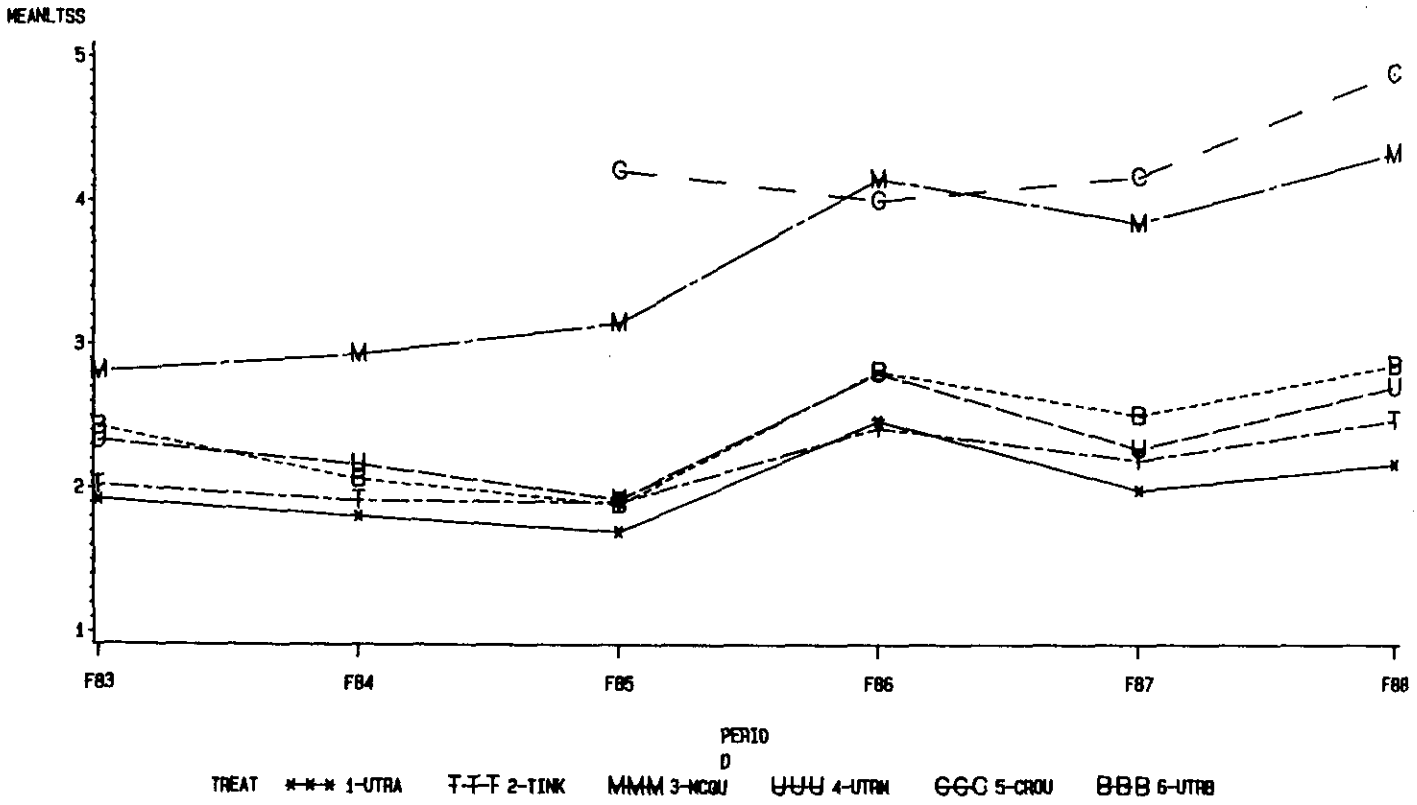


Figure 14-3. Summary of Total Suspended Solids (TSS) for 1983 through 1988. Data represents six stream sites during sample periods with rainfall.

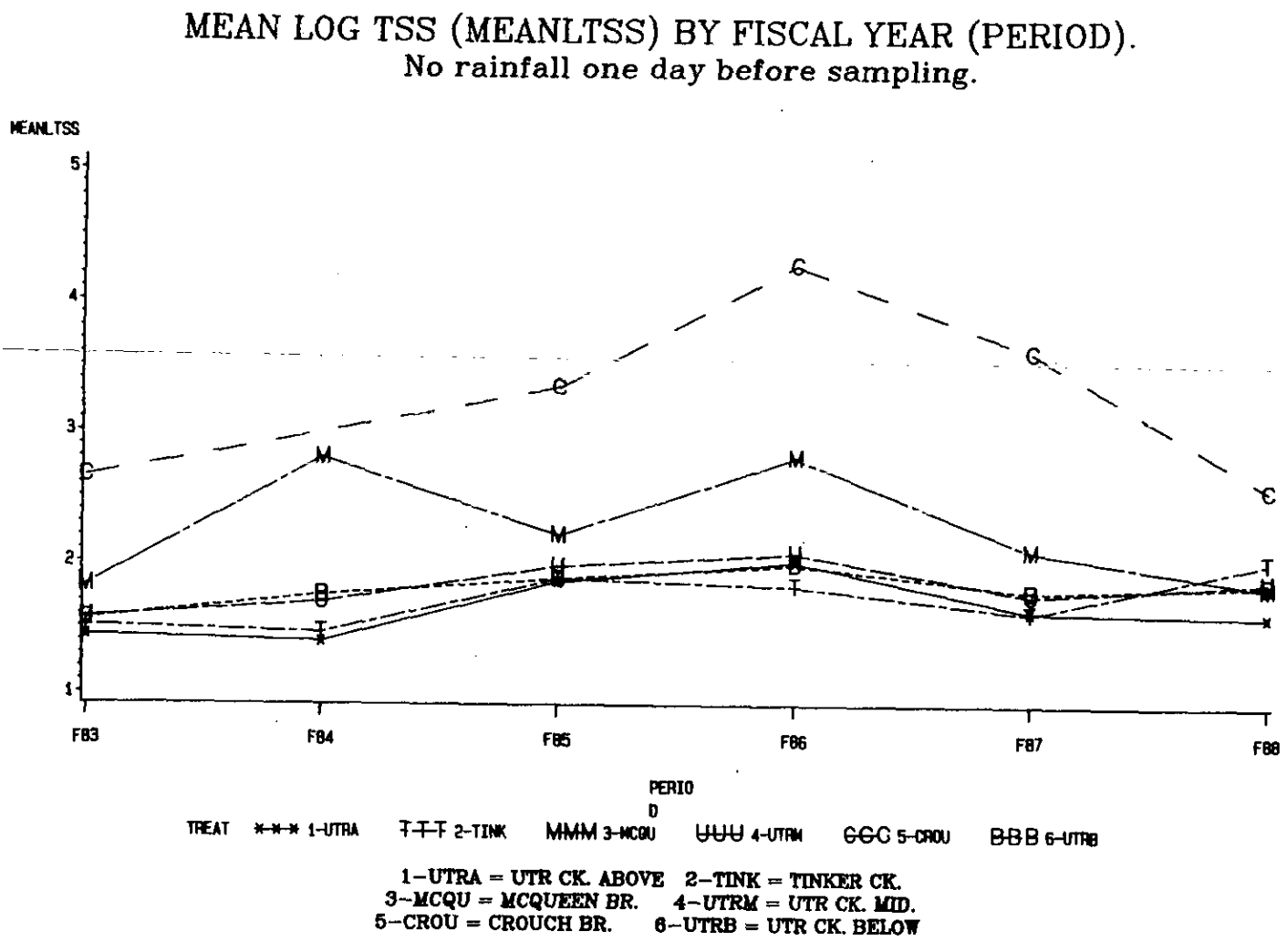


Figure 14-4. Summary of Total Suspended Solids (TSS) for 1983 through 1988. Data represents six stream sites during sample periods with no rainfall.

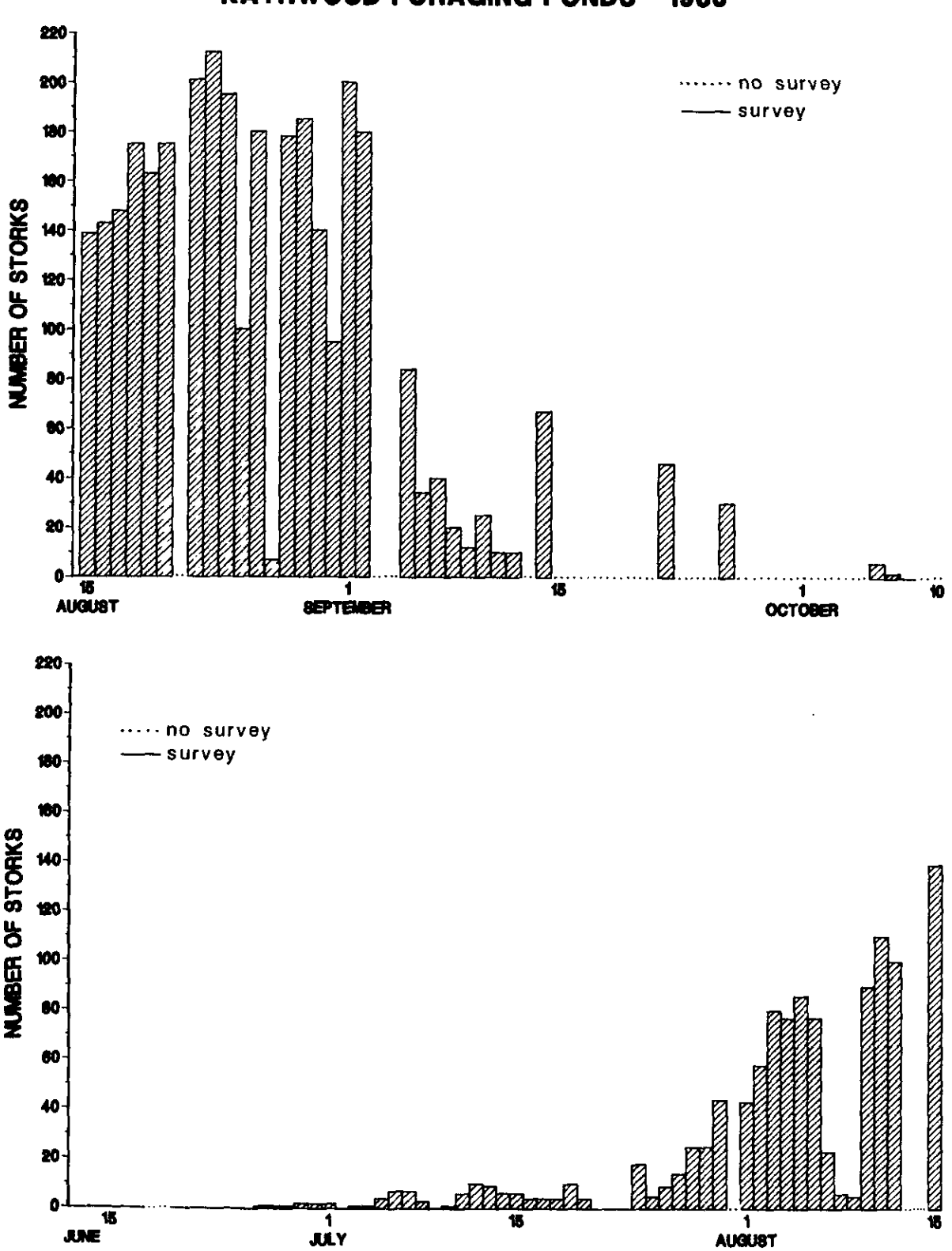


Figure 14-5. Maximum numbers of wood storks observed during ground censuses at the Kathwood Foraging Ponds during 1988.

TABLE 14-1
SEEDLING DENSITIES PER HECTARE AT THREE SITES ON SRS

Location		*Taxodium*	*Nyssa*	Total
Savannah River Swamp:				
Georgia Power	1988	4,940	16,080	21,020
	1986	20,563	24,063	44,625
Stave Swamp	1988	5,520	17,840	23,360
	1986	373	567	940
	1985	160	233	393
Upper Three Runs Creek:				
Box Landing	1988	1,230	9,370	10,600

TABLE 14-2
THE AVERAGE BIOMASS/PLANT AS EITHER ABOVEGROUND (LEAF/STEM) OR BELOWGROUND (ROOTS)TISSUE

Location of Plant Tissue	1986		1987		1988	
	CF[a]	PF[b]	CF[a]	PF[b]	CF[a]	PF[b]
Above	23	66	332	487	983	1,080
Below	12	35	143	211	-	-

[a] Continuous flooding.
[b] Periodic flooding.
- No analysis

☆ U.S. GOVERNMENT PRINTING OFFICE: 1989— 6 4 1 - 4 0 3 / 0