

4. GROUNDWATER

This section summarizes analytical results for routine groundwater monitoring at PORTS in 2004 at the following locations:

- X-749/X-120/Peter Kiewit (PK) Landfill
- Quadrant I Groundwater Investigative Area/X-749A Classified Materials Disposal Facility
- Quadrant II Groundwater Investigative Area
- X-701B Holding Pond
- X-633 Pumphouse/Cooling Towers Area
- X-616 Chromium Sludge Surface Impoundments
- X-740 Waste Oil Handling Facility
- X-611A Former Lime Sludge Lagoons
- X-735 Landfills
- X-734 Landfills
- X-533 Switchyard Area
- Surface water monitoring locations
- Exit pathway monitoring locations

Results for radiological parameters and volatile organic compounds (VOCs) are reported in this section. Only those VOCs that were detected in at least one sampling event are listed in this section. All results are included for radiological parameters, even if a specific constituent was not detected at a specific well or location during any sampling event in 2004. Results for chromium at the X-616 Chromium Sludge Surface Impoundments are also included in this section because chromium is a primary contaminant in this area. Results are provided for metals at the X-633 Pumphouse/Cooling Towers Area, X-611A Former Lime Sludge Lagoons, and X-533 Switchyard Area because these are the only analytical parameters for these areas.

Throughout 2004, the laboratory used to analyze groundwater samples reported concentrations of VOCs detected above the laboratory's detection limit but below laboratory's confident reporting limit (also called the practical quantitation limit). These detections are reported by the laboratory with an "estimated" qualifier (J) to indicate that there is uncertainty, or error, associated with the measurement. These results are considered detections because by definition, the analytes are present in the sample; however, these estimated detections are usually at least an order of magnitude below the preliminary remediation goal for the constituent.

Two VOCs, acetone and methylene chloride, were frequently detected in both environmental and blank samples (field and trip blanks) collected in 2004. Methylene chloride is a common laboratory contaminant that is not typically detected in the PORTS groundwater plumes. Detections of methylene chloride are often qualified by the laboratory with a "B", which indicates that the analyte was also detected in the laboratory blank associated with the environmental sample and may be present due to laboratory contamination. Additionally, acetone is a common laboratory or glassware contaminant.

Other VOCs, including trichloroethene, 2-butanone (methyl ethyl ketone), and toluene, were detected in trip and field blanks during 2004. These detections indicate that samples (both environmental samples and blank samples) may become contaminated with low concentrations of VOCs during other portions of the sampling process, although contamination can still occur in the laboratory (acetone, methyl ethyl ketone, and toluene were detected in laboratory blanks in 2004). Other sources of

contamination may include storage areas for sampling equipment (such as bottles and blank water), areas in which samples are collected or prepared, sample containers, and storage areas after samples are collected (such as refrigerators or sample shipping containers).

The primary purpose of the groundwater data, as stated in the *Quality Assurance Project Plan*, is to determine the nature and extent of contamination in groundwater and associated surface water at PORTS. Data collected in 2004 meet this purpose.

Complete groundwater monitoring results for sampling completed as required by the *Integrated Groundwater Monitoring Plan* are provided in the *2004 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant*.

The following tables are included in this section:

- Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill
- Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill
- Table 4.3. Volatile organic compounds detected at the Quadrant I Groundwater Investigative Area
- Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area
- Table 4.5. Volatile organic compounds detected at the Quadrant II Groundwater Investigative Area
- Table 4.6. Results for radionuclides at the Quadrant II Groundwater Investigative Area
- Table 4.7. Volatile organic compounds detected at the X-701B Holding Pond
- Table 4.8. Results for radionuclides at the X-701B Holding Pond
- Table 4.9. Results for chromium at the X-633 Pumphouse/Cooling Towers Area
- Table 4.10. Volatile organic compounds detected at the X-616 Chromium Sludge Surface Impoundments
- Table 4.11. Results for chromium at the X-616 Chromium Sludge Surface Impoundments
- Table 4.12. Results for radionuclides at the X-616 Chromium Sludge Surface Impoundments
- Table 4.13. Volatile organic compounds detected at the X-740 Waste Oil Handling Facility
- Table 4.14. Results for radionuclides at the X-740 Waste Oil Handling Facility
- Table 4.15. Results for beryllium and chromium at the X-611A Former Lime Sludge Lagoons
- Table 4.16. Results for radionuclides at the X-735 Landfills
- Table 4.17. Volatile organic compounds detected at the X-734 Landfills
- Table 4.18. Results for radionuclides at the X-734 Landfills

- Table 4.19. Results for cadmium, cobalt, and nickel at the X-533 Switchyard Area
- Table 4.20. Volatile organic compounds detected at surface water monitoring locations
- Table 4.21. Results for radionuclides at surface water monitoring locations
- Table 4.22. Results for radionuclides at exit pathway monitoring locations

A table for volatile organic compounds at the X-735 Landfills is not provided because routine monitoring at this landfill in 2004 did not detect any VOCs other than common sample contaminants acetone and methylene chloride.

The following laboratory data qualifiers are used in the tables in this section:

Data qualifier	Meaning
B	Inorganics (metals): the result was less than the practical quantitation limit but greater than or equal to the instrument detection limit. Organics (VOCs): the analyte was detected in the laboratory blank sample.
J	Organics (VOCs): the reported value is an estimated concentration greater than the method detection limit but less than the practical quantitation limit.
U	Undetected

Some results for radionuclides are reported in exponential notation. The number and sign (+ or -) to the right of the "E" indicate the number of places to the right or left of the decimal point. For example, 3.4E-04 is 0.00034 (the decimal point moves four places to the left); 2.1E+02 is 210 (the decimal point moves two places to the right). Data qualifiers, if any, are to the right of the result (for example, 5.66E-07 U, where U is the data qualifier that indicates the parameter was undetected).

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
MH GW-4	1,1-Dichloroethane	µg/L	0.63 J	0.54 J	0.46 J	0.64 J
	1,4-Dichlorobenzene	µg/L	2 U	0.2 J	2 U	2 U
	Acetone	µg/L	10 U	10 U	4.6 BJ	10 U
	Chlorobenzene	µg/L	0.44 J	0.56 J	0.49 J	0.58 J
	cis-1,2-Dichloroethene	µg/L	2.3	2.8	2.4	2.7
	Methylene chloride	µg/L	0.22 J	0.41 BJ	0.56 BJ	2 U
	Vinyl chloride	µg/L	1	0.86 J	0.75 J	1.1
MH GW-5	1,1-Dichloroethane	µg/L	0.67 J	0.88 J	0.64 J	0.56 J
	Chlorobenzene	µg/L	2 U	0.27 J	0.22 J	2 U
	cis-1,2-Dichloroethene	µg/L	3.1	4.6	3.4	1.9 J
	Methylene chloride	µg/L	0.39 J	0.47 BJ	2 U	2 U
	Vinyl chloride	µg/L	0.46 J	0.62 J	0.33 J	1 U
PK-09G	Acetone	µg/L	29 J	50 U	50 U	50 U
	Chloroform	µg/L	1.5 J	1.3 J	1.4 J	1.3 J
	cis-1,2-Dichloroethene	µg/L	2.2 J	1.9 J	2 J	2.1 J
	Trichloroethene	µg/L	140	110	140	140
PK-10G	Methylene chloride	µg/L	2 U	0.64 BJ	2 U	2 U
	Trichloroethene	µg/L	0.41 J	0.36 J	0.24 J	0.18 J
PK-11G	cis-1,2-Dichloroethene	µg/L	2 U	2 U	2 U	0.19 J
PK-15B	cis-1,2-Dichloroethene	µg/L	1.1 J		0.85 J	
	Vinyl chloride	µg/L	0.39 J		0.29 J	
PK-16G	1,1-Dichloroethane	µg/L	2 U	2 U	0.25 J	2 U
	cis-1,2-Dichloroethene	µg/L	2 U	2 U	3.6	2.4
	trans-1,2-Dichloroethene	µg/L	0.5 U	0.5 U	0.2 J	0.5 U
	Trichloroethene	µg/L	2 U	2 U	0.41 J	0.57 J
	Vinyl chloride	µg/L	1 U	1 U	1.7	0.8 J
PK-17B	1,1-Dichloroethane	µg/L	1.4 J	1.2 J	3 J	3.9 J
	Acetone	µg/L	10 U	3.1 J	20 U	20 U
	Chlorobenzene	µg/L	0.91 J	0.89 J	1.1 J	1 J
	cis-1,2-Dichloroethene	µg/L	17	18	47	57
	trans-1,2-Dichloroethene	µg/L	0.58	0.55	1.6	1.9
	Trichloroethene	µg/L	0.6 J	0.51 J	2.2 J	1.7 J
	Vinyl chloride	µg/L	12	7	20	30
PK-19B	1,1-Dichloroethane	µg/L	0.49 J	0.3 J	0.47 J	0.54 J
	Acetone	µg/L	3.6 J	10 U	10 U	10 U
	Chloroethane	µg/L	1.1 J	0.75 J	0.89 J	0.9 J
	cis-1,2-Dichloroethene	µg/L	2 U	2 U	2 U	0.36 J
	Vinyl chloride	µg/L	0.48 J	0.43 J	0.45 J	0.39 J

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
PK-20B	1,1-Dichloroethane	µg/L	2 U	2	4.2	1.3 J
	1,1-Dichloroethene	µg/L	2 U	2 U	0.72 J	2 U
	cis-1,2-Dichloroethene	µg/L	2 U	2 U	0.93 J	0.24 J
	Trichloroethene	µg/L	2 U	2 U	0.47 J	2 U
PK-21B	1,1-Dichloroethane	µg/L	180	160	180	180
	1,1-Dichloroethene	µg/L	2.7 J	2.3 J	3 J	20 U
	1,2-Dichloroethane	µg/L	10 U	6.7 U	1 J	20 U
	Benzene	µg/L	10 U	0.81 J	0.71 J	20 U
	cis-1,2-Dichloroethene	µg/L	15	13	15	15 J
	Trichloroethene	µg/L	10 U	0.59 J	0.81 J	20 U
	Vinyl chloride	µg/L	19	23	22	20
PK-PL6	1,1,1-Trichloroethane	µg/L	4	7.3	8.1	7.9
	1,1-Dichloroethane	µg/L	7.1	17	16	18
	1,1-Dichloroethene	µg/L	3.3	5.8	9.2	7.7
	Acetone	µg/L	4.3 J	10 U	10 U	10 U
	Chloroethane	µg/L	0.34 J	2 U	2 U	2 U
	cis-1,2-Dichloroethene	µg/L	2.1	3.7	4.1	3.2
	Methylene chloride	µg/L	0.68 BJ	0.42 BJ	2 U	2 U
	Trichloroethene	µg/L	2.3	4.7	5.2	4.4
	Vinyl chloride	µg/L	0.35 J	0.77 J	2	1.9
PK-PL6A	1,1,1-Trichloroethane	µg/L	9.8	14	12	2 U
	1,1-Dichloroethane	µg/L	22	30	23	2 U
	1,1-Dichloroethene	µg/L	9.3	12	14	2 U
	Chloroethane	µg/L	0.42 J	2 U	0.26 J	2 U
	cis-1,2-Dichloroethene	µg/L	3.4	4.7	4.6	2 U
	Methylene chloride	µg/L	2 U	0.46 BJ	0.57 BJ	2 U
	Trichloroethene	µg/L	5.5	9	7.5	2 U
	Vinyl chloride	µg/L	0.95 J	1.5	2.9	1 U
STSW-101G	1,1,1-Trichloroethane	µg/L		54		49
	1,1-Dichloroethane	µg/L		91		78
	1,1-Dichloroethene	µg/L		100		100
	1,2-Dichloroethane	µg/L		49		38
	Acetone	µg/L		33 U		28 J
	Chloroform	µg/L		6.1 J		5.3 J
	cis-1,2-Dichloroethene	µg/L		10		9.1 J
	Methylene chloride	µg/L		1.8 BJ		20 U
	Trichloroethene	µg/L		170		140
STSW-102G	1,1,1-Trichloroethane	µg/L		100		81

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
STSW-102G	1,1-Dichloroethane	µg/L		370		280
	1,1-Dichloroethene	µg/L		230		180
	1,2-Dichloroethane	µg/L		120		89
	Acetone	µg/L		200 U		160 J
	Chloroethane	µg/L		6.6 J		40 U
	Chloroform	µg/L		14 J		10 J
	cis-1,2-Dichloroethene	µg/L		120		92
	Methylene chloride	µg/L		12 BJ		40 U
	Trichloroethene	µg/L		830		640
WP-03	1,1-Dichloroethane	µg/L		0.43 J		
	1,1-Dichloroethene	µg/L		0.27 J		
	Trichloroethene	µg/L		0.64 J		
X120-05G	2-Butanone	µg/L		5 U		2 J
	Methylene chloride	µg/L		0.48 BJ		0.22 BJ
	Trichloroethene	µg/L		6.9		6.1
X120-08G	1,1,1-Trichloroethane	µg/L		8.5		6.8
	1,1,2-Trichloroethane	µg/L		0.42 J		0.31 J
	1,1-Dichloroethane	µg/L		5.4		4.1
	1,1-Dichloroethene	µg/L		18		18
	1,2-Dichloroethane	µg/L		0.65 J		0.5 J
	Chloroform	µg/L		0.72 J		0.56 J
	cis-1,2-Dichloroethene	µg/L		0.34 J		0.25 J
	Methylene chloride	µg/L		0.53 BJ		0.25 BJ
	Trichloroethene	µg/L		14		10
X120-11G	cis-1,2-Dichloroethene	µg/L		10 J		13 J
	Methylene chloride	µg/L		13 BJ		5.5 BJ
	Trichloroethene	µg/L		530		370
X749-04G	Acetone	µg/L	570 U	800 U	490 J	200 U
	Methylene chloride	µg/L	26 J	160 U	15 BJ	40 U
	Trichloroethene	µg/L	1900	1500	1500	640
X749-06G	1,1,1-Trichloroethane	µg/L		1600		1300
	1,1-Dichloroethane	µg/L		3000		2400
	1,1-Dichloroethene	µg/L		3500		2500
	Chloroform	µg/L		180 J		160 J
	cis-1,2-Dichloroethene	µg/L		540 J		420
	Methylene chloride	µg/L		250 BJ		400 U
	Tetrachloroethene	µg/L		230 J		170 J
	Trichloroethene	µg/L		7700		5600

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-07G	1,1,1-Trichloroethane	µg/L	280	230	200	140
	1,1-Dichloroethane	µg/L	230	310	210	160
	1,1-Dichloroethene	µg/L	430	320	300	200
	1,2-Dichloroethane	µg/L	60 J	110	79	57
	Acetone	µg/L	400 U	250 U	1000	200 U
	Carbon disulfide	µg/L	80 U	6 J	50 U	40 U
	Chloroform	µg/L	11 J	12 J	9.4 J	9 J
	cis-1,2-Dichloroethene	µg/L	69 J	57	41 J	25 J
	Methylene chloride	µg/L	19 J	50 U	50 U	40 U
	Trichloroethene	µg/L	990	780	650	420
	Vinyl chloride	µg/L	9.1 J	25 U	25 U	20 U
X749-08G	1,1,1-Trichloroethane	µg/L	100	94	61	91
	1,1-Dichloroethane	µg/L	75	80	30	51
	1,1-Dichloroethene	µg/L	190	170	76	150
	1,2-Dichloroethane	µg/L	15 J	15 J	7.9	9.8
	Chloroethane	µg/L	2.1 J	20 U	0.69 J	8 U
	Chloroform	µg/L	3.3 J	2.9 J	1.5 J	2.3 J
	cis-1,2-Dichloroethene	µg/L	72	75	29	52
	Methylene chloride	µg/L	4.9 J	3.1 BJ	6.7 U	8 U
	Trichloroethene	µg/L	300	250	120	190
	Vinyl chloride	µg/L	4.1 J	2.7 J	1.7 J	2.2 J
X749-09GA	1,1,1-Trichloroethane	µg/L	160	150	180	67
	1,1,2-Trichloroethane	µg/L	10 U	13 U	13 U	0.77 J
	1,1-Dichloroethane	µg/L	66	58	64	21
	1,1-Dichloroethene	µg/L	210	200	210	61
	1,2-Dichloroethane	µg/L	9 J	9.5 J	13	3 J
	Chloroethane	µg/L	1.9 J	13 U	1.7 J	0.69 J
	Chloroform	µg/L	3.5 J	3.3 J	4.1 J	1.3 J
	cis-1,2-Dichloroethene	µg/L	50	52	53	19
	Methylene chloride	µg/L	1.7 J	13 U	1.5 BJ	0.96 BJ
	trans-1,2-Dichloroethene	µg/L	2.5 U	3.3 U	3.3 U	0.47 J
	Trichloroethene	µg/L	160	160	190	63
	Vinyl chloride	µg/L	3.9 J	6.7 U	3.1 J	0.62 J
X749-10GA	1,1-Dichloroethane	µg/L	23	20	19	16
	1,1-Dichloroethene	µg/L	28	32	30	27
	Chloroethane	µg/L	1.3 J	1.4 J	1.1 J	1.6 J
	cis-1,2-Dichloroethene	µg/L	7.1	7.5	6.5	7
	Methylene chloride	µg/L	0.36 J	2 U	2 U	0.29 BJ

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-10GA	Trichloroethene	µg/L	0.92 J	0.93 J	1.1 J	0.95 J
	Vinyl chloride	µg/L	2.1	0.95 J	1	1.1
X749-13G	1,1,1-Trichloroethane	µg/L		54		99
	1,1,2-Trichloroethane	µg/L		0.55 J		8 U
	1,1-Dichloroethane	µg/L		12		17
	1,1-Dichloroethene	µg/L		81		130
	1,2-Dichloroethane	µg/L		1.4 J		8 U
	Acetone	µg/L		20 U		16 J
	Chloroethane	µg/L		0.42 J		8 U
	Chloroform	µg/L		2.7 J		3.9 J
	cis-1,2-Dichloroethene	µg/L		13		17
	Methylene chloride	µg/L		0.94 BJ		8 U
	Trichloroethene	µg/L		84		110
	Vinyl chloride	µg/L		0.66 J		4 U
	Methylene chloride	µg/L				0.61 BJ
X749-20G	1,1,1-Trichloroethane	µg/L	24	12	10	14
	1,1-Dichloroethane	µg/L	23	16	11	13
	1,1-Dichloroethene	µg/L	27	19	16	17
	1,2-Dichloroethane	µg/L	6.9 J	2.8 J	2.8 J	3.5 J
	Acetone	µg/L	100 U	14 J	79	20 U
	Chloroform	µg/L	2.6 J	1.5 J	1.3 J	1.5 J
	cis-1,2-Dichloroethene	µg/L	13 J	8.2	7.1 J	7.6
	Methylene chloride	µg/L	20 U	1.5 BJ	2 BJ	4 U
	Trichloroethene	µg/L	140	100	88	91
	Vinyl chloride	µg/L	10 U	0.64 J	5 U	2 U
X749-21G	1,1,1-Trichloroethane	µg/L	2 U	2 U	2 U	0.35 J
	Acetone	µg/L	10 U	10 U	4.7 J	10 U
	Methylene chloride	µg/L	0.34 J	0.46 BJ	0.34 BJ	0.63 BJ
	Trichloroethene	µg/L	2	2.5	1.9 J	4.4
X749-23G	Acetone	µg/L	10 U	3.3 J	3.1 J	10 U
	Methylene chloride	µg/L	2 U	0.47 BJ	0.34 BJ	2 U
X749-24G	Acetone	µg/L	10 U	10 U	8.2 BJ	3.2 J
	Methylene chloride	µg/L	0.33 J	0.49 BJ	0.53 BJ	2 U
X749-25G	1,1,1-Trichloroethane	µg/L	40	29	29	38
	1,1-Dichloroethane	µg/L	18	14	9.3	12
	1,1-Dichloroethene	µg/L	66	47	42	49
	1,2-Dichloroethane	µg/L	3.4 J	2.2	1.9 J	2.4 J
	Chloroethane	µg/L	0.69 J	0.36 J	0.38 J	5.3 U

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-25G	Chloroform	µg/L	1.1 J	0.9 J	0.82 J	1 J
	cis-1,2-Dichloroethene	µg/L	18	14	11	12
	Methylene chloride	µg/L	1.2 J	0.42 BJ	0.56 BJ	5.3 U
	Trichloroethene	µg/L	59	41	41	41
	Vinyl chloride	µg/L	0.63 J	0.38 J	0.32 J	2.7 U
X749-26G	1,1,1-Trichloroethane	µg/L				33
	1,1-Dichloroethane	µg/L				68
	1,1-Dichloroethene	µg/L				49
	1,2-Dichloroethane	µg/L				35
	Chloroform	µg/L				2.4 J
	cis-1,2-Dichloroethene	µg/L				6.2
	Methylene chloride	µg/L				1.3 BJ
	Trichloroethene	µg/L				77
X749-35G	1,1,1-Trichloroethane	µg/L	290	190	220	220
	1,1-Dichloroethane	µg/L	19 J	18 J	17 J	16 J
	1,1-Dichloroethene	µg/L	98	95	96	91
	Acetone	µg/L	100 U	100 U	57 J	100 U
	Chloroform	µg/L	1.8 J	20 U	20 U	20 U
	cis-1,2-Dichloroethene	µg/L	9 J	8.2 J	9.2 J	6.7 J
	Methylene chloride	µg/L	20 U	4.9 BJ	3.2 BJ	20 U
	Trichloroethene	µg/L	250	240	250	190
X749-36G	1,1,1-Trichloroethane	µg/L				31
	1,1,2-Trichloroethane	µg/L				0.89 J
	1,1-Dichloroethane	µg/L				16
	1,1-Dichloroethene	µg/L				60
	1,2-Dichloroethane	µg/L				1.8 J
	Chloroform	µg/L				1.9 J
	cis-1,2-Dichloroethene	µg/L				1.2 J
	Methylene chloride	µg/L				1.3 BJ
X749-37G	Trichloroethene	µg/L				31
	1,1,1-Trichloroethane	µg/L		91		120
	1,1,2-Trichloroethane	µg/L		4 J		3.2 J
	1,1-Dichloroethane	µg/L		68		73
	1,1-Dichloroethene	µg/L		180		220
	1,2-Dichloroethane	µg/L		5 J		5.6 J
	Chloroethane	µg/L		20 U		2.3 J
	Chloroform	µg/L		6.2 J		6.6 J
	cis-1,2-Dichloroethene	µg/L		8.2 J		16

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-37G	Methylene chloride	µg/L		5.8 BJ		3.1 BJ
	Tetrachloroethene	µg/L		3.8 J		3 J
	Trichloroethene	µg/L		180		180
X749-41G	Methylene chloride	µg/L		9.2 BJ		8.2 BJ
	Trichloroethene	µg/L		450		390
X749-42G	Acetone	µg/L		27 U		6.4 J
	cis-1,2-Dichloroethene	µg/L		5.3 U		0.65 J
	Methylene chloride	µg/L		1.4 BJ		1.1 BJ
	Trichloroethene	µg/L		77		93
X749-44G	1,1,1-Trichloroethane	µg/L		3.8		3.7
	1,1-Dichloroethane	µg/L		11		13
	1,1-Dichloroethene	µg/L		4.4		9.6
	1,2-Dichloroethane	µg/L		4.7		4.4
	1,2-Dimethylbenzene	µg/L		2 U		0.17 J
	Chloroform	µg/L		0.84 J		0.81 J
	cis-1,2-Dichloroethene	µg/L		1.6 J		1.8 J
	Ethylbenzene	µg/L		2 U		0.21 J
	M + P Xylene	µg/L		2 U		0.85 J
	Methylene chloride	µg/L		0.56 BJ		2 U
	Trichloroethene	µg/L		20		23
	1,1,1-Trichloroethane	µg/L		1.1 J		1.5 J
	1,1-Dichloroethane	µg/L		3.3		8.4
	1,1-Dichloroethene	µg/L		2.5		6.3
	1,2-Dichloroethane	µg/L		1 J		2.3
	2-Butanone	µg/L		31		6
X749-45G	Acetone	µg/L		10 U		14
	Carbon disulfide	µg/L		2 U		1.7 J
	Chloroethane	µg/L		2 U		0.64 J
	Chloroform	µg/L		0.31 J		0.21 J
	cis-1,2-Dichloroethene	µg/L		1.7 J		5.9
	Methylene chloride	µg/L		0.57 BJ		0.28 BJ
	Tetrachloroethene	µg/L		0.47 J		2 U
	Trichloroethene	µg/L		9.9		24
	1,1-Dichloroethane	µg/L				16
	1,1-Dichloroethene	µg/L				0.73 J
	1,2-Dichloroethane	µg/L				8.9
	Chloroethane	µg/L				2.6
	cis-1,2-Dichloroethene	µg/L				2.8
X749-50B						

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-50B	Methylene chloride	µg/L				0.5 BJ
	Trichloroethene	µg/L				0.43 J
	Vinyl chloride	µg/L				0.23 J
X749-51B	cis-1,2-Dichloroethene	µg/L		0.21 J		2 U
	Methylene chloride	µg/L		0.34 J		2 U
X749-54B	1,1-Dichloroethane	µg/L	0.78 J	0.9 J	0.67 J	0.78 J
	Acetone	µg/L	10 U	10 U	3.8 J	10 U
	Methylene chloride	µg/L	0.38 J	0.41 BJ	0.35 BJ	0.64 BJ
	Trichloroethene	µg/L	7	6.3	31	41
	Vinyl chloride	µg/L	0.3 J	0.29 J	0.2 J	1 U
X749-60B	Acetone	µg/L				3.8 J
	Benzene	µg/L				0.3 J
	Methylene chloride	µg/L				0.41 BJ
X749-63B	Methylene chloride	µg/L				0.35 BJ
X749-67G	1,1,1-Trichloroethane	µg/L		44		42
	1,1-Dichloroethane	µg/L		200		170
	1,1-Dichloroethene	µg/L		140		140
	1,2-Dichloroethane	µg/L		63		53
	Chloroethane	µg/L		18 J		14 J
	Chloroform	µg/L		8.6 J		7.8 J
	cis-1,2-Dichloroethene	µg/L		170		130
	Methylene chloride	µg/L		4.8 BJ		10 BJ
	Trichloroethene	µg/L		460		430
	2-Butanone	µg/L	5 U	5 U	5 U	2.8 BJ
X749-96G	Methylene chloride	µg/L	2 U	0.53 BJ	2 U	2 U
	1,1,1-Trichloroethane	µg/L	0.86 J	0.29 J	2 U	2 U
X749-97G	1,1-Dichloroethane	µg/L	3	0.97 J	1.9 J	0.9 J
	1,1-Dichloroethene	µg/L	1.6 J	0.57 J	0.73 J	0.41 J
	1,2-Dichloroethane	µg/L	0.65 J	2 U	0.45 J	2 U
	Carbon disulfide	µg/L	2 U	2 U	1.8 J	0.85 J
	Chloroform	µg/L	0.26 J	2 U	2 U	2 U
	cis-1,2-Dichloroethene	µg/L	0.88 J	0.29 J	0.55 J	0.3 J
	Methylene chloride	µg/L	2 U	0.48 BJ	0.57 BJ	2 U
	Trichloroethene	µg/L	8.8	3.1	4.9	2.4
	Acetone	µg/L	18	10 U	10 U	10 U
X749-98G	Methylene chloride	µg/L	2 U	0.52 BJ	0.3 BJ	0.31 BJ
X749-99M	Methylene chloride	µg/L	2 U	0.3 BJ	2 U	0.26 BJ
X749-100M	2-Butanone	µg/L	5 U	5 U	5 U	2.3 BJ

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-100M	Acetone	µg/L	10 U	10 U	6.8 BJ	10 U
	Methylene chloride	µg/L	2 U	0.44 BJ	0.56 BJ	0.25 BJ
X749-101M	2-Butanone	µg/L	5 U	5 U	5 U	5.6 B
	Methylene chloride	µg/L	2 U	0.49 BJ	0.3 BJ	0.25 BJ
X749-102G	1,1,1-Trichloroethane	µg/L	0.71 J	0.58 J	0.81 J	1.1 J
	1,1-Dichloroethane	µg/L	2.2	1.6 J	2.6	3.3
	1,1-Dichloroethene	µg/L	1.4 J	1.3 J	2.1	2.2
	1,2-Dichloroethane	µg/L	0.63 J	0.52 J	0.57 J	1.2 J
	Acetone	µg/L	10 U	10 U	10 U	3 J
	Chloroform	µg/L	0.24 J	2 U	0.2 J	0.28 J
	cis-1,2-Dichloroethene	µg/L	0.25 J	0.2 J	0.33 J	0.38 J
	Methylene chloride	µg/L	0.64 BJ	0.53 J	2 U	2 U
	Trichloroethene	µg/L	3.6	3	4.6	4.9
	2-Butanone	µg/L	5 U	5 U	5 U	4.4 J
	Acetone	µg/L	4.5 J	10 U	10 U	10 U
	Methylene chloride	µg/L	0.59 BJ	0.57 J	2 U	0.4 BJ
X749-103G	2-Butanone	µg/L	5 U	5 U	5 U	5.6
	Acetone	µg/L	17	10 U	10 U	10 U
	Methylene chloride	µg/L	0.6 BJ	0.44 BJ	0.53 BJ	0.35 BJ
X749-104G	2-Butanone	µg/L	5 U	5 U	5 U	5.6
	Acetone	µg/L	17	10 U	10 U	10 U
X749-105G	2-Butanone	µg/L	5 U	5 U	5 U	5.6
	Acetone	µg/L	17	10 U	10 U	10 U
X749-BG6G	1,1,1-Trichloroethane	µg/L	0.64 J	2 U	2 U	2
	1,1-Dichloroethane	µg/L	0.87 J	2 U	2 U	2.4
X749-BG9G	1,1-Dichloroethene	µg/L	0.75 J	2 U	2 U	3.2
	Acetone	µg/L	10 U	10 U	10 U	3.9 J
	cis-1,2-Dichloroethene	µg/L	0.16 J	2 U	2 U	0.43 J
	Methylene chloride	µg/L	2 U	0.5 BJ	0.29 BJ	2 U
	Trichloroethene	µg/L	2 U	2 U	2 U	0.27 J
	1,1,1-Trichloroethane	µg/L	7.4	2 U	1.3 J	0.58 J
	1,1-Dichloroethane	µg/L	2.2	2 U	0.38 J	2 U
X749-PZ02G	1,1-Dichloroethene	µg/L	8.7	2 U	1.2 J	0.34 J
	1,2-Dichloroethane	µg/L	0.31 J	2 U	2 U	2 U
	cis-1,2-Dichloroethene	µg/L	1.6 J	2 U	0.21 J	2 U
	Methylene chloride	µg/L	0.49 J	0.38 BJ	2 U	2 U
	Trichloroethene	µg/L	5.6	2 U	0.9 J	0.45 J
	1,1,1-Trichloroethane	µg/L		2 U		0.34 J
X749-PZ02G	1,1-Dichloroethane	µg/L		2 U		0.4 J
	1,1-Dichloroethene	µg/L		0.47 J		0.91 J

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-PZ02G	cis-1,2-Dichloroethene	µg/L		0.14 J		0.22 J
	Methylene chloride	µg/L		0.51 BJ		0.62 BJ
	Trichloroethene	µg/L		1.9 J		3
X749-PZ03G	Acetone	µg/L	2.9 J	10 U	10 U	3.3 J
	Methylene chloride	µg/L	2 U	0.53 BJ	2 U	2 U
X749-PZ04G	1,1,1-Trichloroethane	µg/L	47	30	27	24
	1,1,2-Trichloroethane	µg/L	25 U	20 U	0.34 J	20 U
	1,1-Dichloroethane	µg/L	190	100	100	94
	1,1-Dichloroethene	µg/L	100	60	58	47
	1,2-Dichloroethane	µg/L	45	34	28	30
	Acetone	µg/L	120 U	100 U	10 U	46 J
	Benzene	µg/L	25 U	20 U	0.23 J	20 U
	Chloroethane	µg/L	25 U	20 U	0.84 J	20 U
	Chloroform	µg/L	7.8 J	5.1 J	4.6	3.9 J
	cis-1,2-Dichloroethene	µg/L	56	37	35	27
	Methylene chloride	µg/L	5.3 J	5.1 BJ	2 U	20 U
	trans-1,2-Dichloroethene	µg/L	6.2 U	5 U	0.16 J	5 U
	Trichloroethene	µg/L	470	280	260	200
	Vinyl chloride	µg/L	12 U	10 U	0.43 J	10 U
X749-PZ05G	Acetone	µg/L	10 U	10 U	10 U	3.2 J
	Methylene chloride	µg/L	0.31 J	0.52 BJ	2 U	2 U
	Trichloroethene	µg/L	2 U	2.7	2 U	2 U
X749-PZ06G	1,1-Dichloroethane	µg/L				0.9 J
	1,1-Dichloroethene	µg/L				0.37 J
	Carbon disulfide	µg/L				0.96 J
	cis-1,2-Dichloroethene	µg/L				0.26 J
	Trichloroethene	µg/L				2.2
X749-PZ09G	1,1,1-Trichloroethane	µg/L	12	8.4	12	8.1
	1,1-Dichloroethane	µg/L	14	8.7	11	7.6
	1,1-Dichloroethene	µg/L	22	16	22	17
	2-Butanone	µg/L	17 U	10 U	13 U	4.9 J
	Acetone	µg/L	33 U	20 U	27 U	4.7 J
	Chloroethane	µg/L	0.86 J	4 U	0.74 J	0.76 J
	Chloroform	µg/L	0.77 J	0.62 J	0.85 J	0.63 J
	cis-1,2-Dichloroethene	µg/L	9.9	8	8.1	7
	Methylene chloride	µg/L	1.4 J	4 U	0.82 BJ	0.82 BJ
	Tetrachloroethene	µg/L	0.92 J	0.79 J	0.88 J	0.75 J
	Trichloroethene	µg/L	92	71	83	65

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-PZ09G	Vinyl chloride	µg/L	2.7 J	0.8 J	1.4 J	0.79 J
X749-PZ10G	1,1,1-Trichloroethane	µg/L	18 J	21 J	20 J	23 J
	1,1-Dichloroethene	µg/L	70	86	110	94
	Acetone	µg/L	200 U	200 U	330 U	120 J
	Chloroform	µg/L	16 J	18 J	18 J	22 J
	Methylene chloride	µg/L	40 U	40 U	67 U	7.5 BJ
	Trichloroethene	µg/L	650	710	750	830
X749-PZ11G	1,1,1-Trichloroethane	µg/L	100	110	160	100
	1,1-Dichloroethane	µg/L	55	70	68	40
	1,1-Dichloroethene	µg/L	61	64	85	55
	2-Butanone	µg/L	20 U	33 U	25 U	9.3 BJ
	Benzene	µg/L	0.83 J	13 U	1 J	0.95 J
	Chloroethane	µg/L	1.3 J	13 U	1.2 J	1.1 J
	Chloroform	µg/L	1.4 J	1.4 J	1.8 J	1.3 J
	cis-1,2-Dichloroethene	µg/L	13	18	21	17
	Methylene chloride	µg/L	1.4 J	2 BJ	1.1 BJ	1.5 BJ
	trans-1,2-Dichloroethene	µg/L	2 U	3.3 U	0.86 J	2 U
	Trichloroethene	µg/L	63	86	170	140
	Vinyl chloride	µg/L	6.5	3.2 J	6.1	3.7 J
X749-PZ13G	1,1,1-Trichloroethane	µg/L	240	180	330	210
	1,1-Dichloroethane	µg/L	110	100	110	75
	1,1-Dichloroethene	µg/L	300	270	370	280
	1,2-Dichloroethane	µg/L	13 J	12 J	18 J	8.7 J
	2-Butanone	µg/L	50 U	100 U	50 U	22 BJ
	Chloroethane	µg/L	2.9 J	40 U	3.4 J	3.1 J
	Chloroform	µg/L	3.4 J	40 U	4.9 J	3.6 J
	cis-1,2-Dichloroethene	µg/L	78	79	94	73
	Methylene chloride	µg/L	20 U	6.3 BJ	2.3 BJ	3 BJ
	trans-1,2-Dichloroethene	µg/L	5 U	10 U	5 U	1.2 J
	Trichloroethene	µg/L	280	240	360	280
	Vinyl chloride	µg/L	5.7 J	20 U	3.8 J	2.6 J
X749-PZ14G	1,1,1-Trichloroethane	µg/L	81	71	27	69
	1,1-Dichloroethane	µg/L	68	73	19	51
	1,1-Dichloroethene	µg/L	140	140	51	130
	1,2-Dichloroethane	µg/L	13	13 J	4 J	10 J
	Acetone	µg/L	67 U	100 U	44	100 U
	Chloroform	µg/L	2.3 J	2.7 J	0.76 J	2 J
	cis-1,2-Dichloroethene	µg/L	55	71	19	52

Table 4.1. Volatile organic compounds detected at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-PZ14G	Methylene chloride	µg/L	2.4 J	3.9 BJ	0.72 J	20 U
	Trichloroethene	µg/L	210	230	85	180
	Vinyl chloride	µg/L	5.8 J	2.5 J	3.3 U	10 U
X749-WPW	1,1,1-Trichloroethane	µg/L	380		260	
	1,1-Dichloroethane	µg/L	210		170	
	1,1-Dichloroethene	µg/L	440		410	
	1,2-Dichloroethane	µg/L	57 J		32 J	
	Acetone	µg/L	880 J		670 U	
	Chloroform	µg/L	42 J		22 J	
	cis-1,2-Dichloroethene	µg/L	140 J		120 J	
	Methylene chloride	µg/L	200 U		37 BJ	
	Trichloroethene	µg/L	2100		1500	
	Vinyl chloride	µg/L	33 J		26 J	

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
MH GW-4	Americium-241	pCi/L	0 U	8.2E-06 U	2.566E-05 U	0 U
	Neptunium-237	pCi/L	0.0146 U	7.7E-06 U	-0.01644 U	4.06E-05 U
	Plutonium-238	pCi/L	0.0218 U	0.00773 U	0.008221 U	0.06952 U
	Plutonium-239/240	pCi/L	0 U	7.7E-06 U	0.01643 U	-0.01732 U
	Technetium-99	pCi/L	2.54 U	1.56 U	2.19 U	-8.72 U
	Uranium	µg/L	53.35	35.96	48.77	41.74
	Uranium-233/234	pCi/L	48.34	36.26	47.35	36.81
	Uranium-235	pCi/L	3.166	2.045	2.831	2.235
	Uranium-236	pCi/L	0.4046	0.4473	0.495	0.4899
	Uranium-238	pCi/L	17.64	11.9	16.13	13.82
MH GW-5	Americium-241	pCi/L	-0.043 U	1.8E-05 U	0.0226 U	0.009816 U
	Neptunium-237	pCi/L	0.0076 U	0.00812 U	-0.03732 U	-0.01744 U
	Plutonium-238	pCi/L	0.0076 U	0.01617 U	0.01864 U	-0.04346 U
	Plutonium-239/240	pCi/L	0.0152 U	0.02426 U	9.311E-06 U	8.85E-06 U
	Technetium-99	pCi/L	0.661 U	6.07 U	-0.0226 U	-7.11 U
	Uranium	µg/L	33.76	33.41	32.78	27.39
	Uranium-233/234	pCi/L	33.55	31.31	32.76	27.12
	Uranium-235	pCi/L	1.789	2.186	1.778	1.583
	Uranium-236	pCi/L	0.252	0.2939	0.4153	0.4228
	Uranium-238	pCi/L	11.18	11.03	10.85	9.058
PK-09G	Americium-241	pCi/L	2E-05 U	0.02293 U	0.02116 U	3.61E-05 U
	Neptunium-237	pCi/L	0.0089 U	9.2E-06 U	0 U	0.008767 U
	Plutonium-238	pCi/L	0.0355 U	0.02766 U	0.01149 U	0.02623 U
	Plutonium-239/240	pCi/L	0.0089 U	0.02766 U	0.01149 U	-0.00872 U
	Technetium-99	pCi/L	-0.47 U	-1.56 U	0.479 U	-2.56 U
	Uranium	µg/L	0.1929	0.2881 U	0.05065 U	0.1381
	Uranium-233/234	pCi/L	0.0627 U	0.08413 U	0.111 U	0.02793 U
	Uranium-235	pCi/L	0.0258 U	0.02595 U	0 U	0 U
	Uranium-236	pCi/L	0 U	0.01164 U	-0.009427 U	0 U
	Uranium-238	pCi/L	0.0625	0.09443 U	0.01706 U	0.04639
PK-10G	Americium-241	pCi/L	-0.009 U	0.01087 U	0.02301 U	0.03414 U
	Neptunium-237	pCi/L	0 U	0 U	-0.07885 U	0 U
	Plutonium-238	pCi/L	0.0277 U	0.02084 U	0.008748 U	0.02581 U
	Plutonium-239/240	pCi/L	0 U	0.02083 U	0.0175 U	0 U
	Technetium-99	pCi/L	0.528 U	-2.08 U	4.56 U	-0.721 U
	Uranium	µg/L	0.1894	0.1765 U	0.1204 U	0.09175 U
	Uranium-233/234	pCi/L	0.1367	0.07921 U	0.1185	0.02062 U
	Uranium-235	pCi/L	0 U	0 U	0.01218 U	0 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
PK-10G	Uranium-236	pCi/L	0 U	0.01097 U	-0.01092 U	0 U
	Uranium-238	pCi/L	0.0637	0.05927 U	0.03942 U	0.03083 U
PK-11G	Americium-241	pCi/L	-0.008 U	0.02454 U	0.1031 U	0.01038 U
	Neptunium-237	pCi/L	0 U	-0.0128 U	-0.007764 U	9.67E-06 U
	Plutonium-238	pCi/L	0.0087 U	0.01283 U	0.007867 U	0.009662 U
	Plutonium-239/240	pCi/L	0.0087 U	-0.0128 U	0.007792 U	0.01931 U
	Technetium-99	pCi/L	77	-1.06 U	5.67 U	3.07 U
	Uranium	µg/L	0.0881 U	0.1787	0.03025 U	0.0904 U
	Uranium-233/234	pCi/L	0.1709	0.04712 U	0.04559 U	0.03042 U
	Uranium-235	pCi/L	0.0117 U	0.01452 U	0.01123 U	0 U
PK-14G	Uranium-236	pCi/L	0.0210 U	1.3E-05 U	0.01009 U	0.01121 U
	Uranium-238	pCi/L	0.0284 U	0.05874	0.009106 U	0.03032 U
	Americium-241	pCi/L	-0.017 U	0 U	0.02586 U	0.01045 U
	Neptunium-237	pCi/L	0.0269 U	0 U	0.03418 U	0.01678 U
	Plutonium-238	pCi/L	9E-06 U	0.00721 U	0.02556 U	0.03346 U
	Plutonium-239/240	pCi/L	0.0089 U	0.01442 U	0.01704 U	0 U
	Technetium-99	pCi/L	-1.48 U	-3.2 U	4.25 U	5.57 U
	Uranium	µg/L	0.3147	0.7877	0.3888	0.5501
	Uranium-233/234	pCi/L	0.1386	0.3398	0.2136	0.1316
	Uranium-235	pCi/L	0 U	0.01164 U	0.01147 U	0.01082 U
PK-15B	Uranium-236	pCi/L	0 U	-0.0104 U	-0.03083 U	0 U
	Uranium-238	pCi/L	0.1057	0.2637	0.1298	0.1839
	Americium-241	pCi/L	-0.033 U		0.03985 U	
	Neptunium-237	pCi/L	0.0077 U		0.02963 U	
	Plutonium-238	pCi/L	0.0153 U		0.02952 U	
	Plutonium-239/240	pCi/L	0.0229 U		0.009841 U	
	Technetium-99	pCi/L	-1.06 U		4.7 U	
	Uranium	µg/L	0.3177		0.1314	
	Uranium-233/234	pCi/L	0.2137		0.1385	
	Uranium-235	pCi/L	0 U		0.01067 U	
PK-16G	Uranium-236	pCi/L	0.0197 U		0 U	
	Uranium-238	pCi/L	0.1066		0.04318	
	Americium-241	pCi/L	0.0102 U	0 U	0.04556 U	-0.03436 U
	Neptunium-237	pCi/L	0.0088 U	0.00884 U	0.01761 U	-0.0074 U
	Plutonium-238	pCi/L	0.035 U	0.00882 U	-0.008773 U	1.48E-05 U
	Plutonium-239/240	pCi/L	0 U	0 U	0.01756 U	-0.00737 U
	Technetium-99	pCi/L	-0.389 U	1.52 U	-2.38 U	3.54 U
	Uranium	µg/L	3.646	2.974	2.825	2.903

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
PK-16G	Uranium-233/234	pCi/L	1.644	1.141	1.015	1.141
	Uranium-235	pCi/L	0.0803	0.05964	0.02319 U	0.06978
	Uranium-236	pCi/L	0 U	1.1E-05 U	-0.0208 U	0 U
	Uranium-238	pCi/L	1.218	0.994	0.9473	0.9691
PK-17B	Americium-241	pCi/L	0.0199 U	0 U	-0.009861 U	-0.04632 U
	Neptunium-237	pCi/L	0.0248 U	7.9E-06 U	-0.03719 U	0 U
	Plutonium-238	pCi/L	0.0082 U	0.01578 U	0.02784 U	0.008926 U
	Plutonium-239/240	pCi/L	0.0082 U	0.01578 U	-0.04636 U	0.02678 U
	Technetium-99	pCi/L	0.289 U	0.0644 U	-4.34 U	5.4 U
	Uranium	µg/L	1.602	2.539	0.2715	0.8742
	Uranium-233/234	pCi/L	0.7598	0.8516	0.05143 U	0.3771
	Uranium-235	pCi/L	0.0395 U	0.03798 U	-0.01267 U	0.02326 U
	Uranium-236	pCi/L	0.0089	-0.0227 U	1.138E-05 U	0 U
	Uranium-238	pCi/L	0.5348	0.8499	0.09235	0.2917
PK-18B	Americium-241	pCi/L	0.0275 U		0.06976 U	
	Neptunium-237	pCi/L	0.0064 U		-0.03401 U	
	Plutonium-238	pCi/L	0.0064 U		8.48E-06 U	
	Plutonium-239/240	pCi/L	0 U		-0.008479 U	
	Technetium-99	pCi/L	3.94 U		-2.46 U	
	Uranium	µg/L	0.071 U		-0.05861 U	
	Uranium-233/234	pCi/L	0.1325		0.02978 U	
	Uranium-235	pCi/L	-0.010 U		2.438E-05 U	
	Uranium-236	pCi/L	-0.009 U		1.095E-05 U	
	Uranium-238	pCi/L	0.0248 U		-0.0197 U	
PK-19B	Americium-241	pCi/L	2E-05 U	0.01921 U	0.01796 U	0.01821 U
	Neptunium-237	pCi/L	0.0080 U	-0.0083 U	0.04437 U	0.008922 U
	Plutonium-238	pCi/L	0.0160 U	0.01666 U	0.0002157 U	0.01778 U
	Plutonium-239/240	pCi/L	0.0080 U	0.00833 U	0.02211 U	8.88E-06 U
	Technetium-99	pCi/L	2.66 U	-1.19 U	-1.79 U	0.655 U
	Uranium	µg/L	0.2308	-0.0922 U	0.02223 U	-0.05032 U
	Uranium-233/234	pCi/L	0.2776	-0.0399 U	0.01695 U	-0.01791 U
	Uranium-235	pCi/L	0.0118 U	-0.0123 U	-0.01043 U	0.01107 U
	Uranium-236	pCi/L	0.0106 U	1.1E-05 U	-0.009369 U	0 U
	Uranium-238	pCi/L	0.0764	-0.0299 U	0.00845 U	-0.0179 U
PK-20B	Americium-241	pCi/L	0.0182 U	0.00930 U	0.000066 U	0.02033 U
	Neptunium-237	pCi/L	0 U	0 U	-0.03134 U	0.007766 U
	Plutonium-238	pCi/L	0.0245 U	0.02423 U	-0.007781 U	7.72E-06 U
	Plutonium-239/240	pCi/L	0.0327 U	-0.0081 U	-0.01563 U	0 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
PK-20B	Technetium-99	pCi/L	5.45 U	3.77 U	5.36 U	1.76 U
	Uranium	µg/L	1.567	2.097	2.625	2.674
	Uranium-233/234	pCi/L	0.6701	1.557	1.203	1.589
	Uranium-235	pCi/L	0.0118 U	0.07293 U	0.05705	0.06202
	Uranium-236	pCi/L	0.0106 U	0 U	0.01025 U	-0.02225 U
	Uranium-238	pCi/L	0.5255	0.698	0.877	0.8931
PK-21B	Americium-241	pCi/L	0.0164 U	0.00955 U	0.07536 U	-0.02017 U
	Neptunium-237	pCi/L	0.0072 U	9E-06 U	0.007838 U	-0.01666 U
	Plutonium-238	pCi/L	0.0216 U	0.01796 U	0.007792 U	-0.00831 U
	Plutonium-239/240	pCi/L	0.0144 U	0.00898 U	0.007792 U	0.008332 U
	Technetium-99	pCi/L	-0.169 U	-0.325 U	1.57 U	1.97 U
	Uranium	µg/L	0.1432	0.1496 U	0.2338	0.1915 U
PK-PL6	Uranium-233/234	pCi/L	0.1413	0.08069 U	0.01004 U	0.06448 U
	Uranium-235	pCi/L	0.0116 U	1.2E-05 U	-0.01229 U	0 U
	Uranium-236	pCi/L	0.0104 U	-0.0112 U	0 U	0 U
	Uranium-238	pCi/L	0.0470	0.05033 U	0.07965	0.06435 U
	Americium-241	pCi/L	0 U	-0.0324 U	0.05554 U	0.04333 U
	Neptunium-237	pCi/L	0.0169 U	0 U	-0.037 U	-0.06471 U
PK-PL6A	Plutonium-238	pCi/L	0.0169 U	0.03459 U	0.02217 U	-0.02138 U
	Plutonium-239/240	pCi/L	0 U	0.00865 U	1.476E-05 U	1.15E-05 U
	Technetium-99	pCi/L	-1.34 U	4.61 U	-2.33 U	-6.56 U
	Uranium	µg/L	18.28	14.33	11.84	12.3
	Uranium-233/234	pCi/L	17.09	12.18	10.21	11.2
	Uranium-235	pCi/L	0.9081	0.7451	0.3812	0.5985
PK-PL6A	Uranium-236	pCi/L	0.1611	0.07205	0.118	0.1601
	Uranium-238	pCi/L	6.059	4.748	3.945	4.08
	Americium-241	pCi/L	0.0335 U	0.01708 U	0.09606 U	-0.00966 U
	Neptunium-237	pCi/L	2E-05 U	0.02238 U	-0.04233 U	-0.05783 U
	Plutonium-238	pCi/L	0.0331 U	0.01487 U	0.02537 U	-0.02156 U
	Plutonium-239/240	pCi/L	0.0083 U	0.00744 U	0.03382 U	0.007235 U
PK-PL6A	Technetium-99	pCi/L	6.23 U	1.8 U	-1.93 U	-10.6 U
	Uranium	µg/L	2.826	2.39	1.622	1.959
	Uranium-233/234	pCi/L	1.465	1.418	0.9182	1.058
	Uranium-235	pCi/L	0.0387 U	0.06642	0.06663	0.04314 U
	Uranium-236	pCi/L	0.0260 U	9.9E-06 U	0 U	0.01937 U
	Uranium-238	pCi/L	0.946	0.7971	0.539	0.6544
STSW-101G	Americium-241	pCi/L		-0.027 U		0.03807 U
	Neptunium-237	pCi/L		0.00991 U		0 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
STSW-101G	Plutonium-238	pCi/L		0.02965 U		1.71E-05 U
	Plutonium-239/240	pCi/L		-0.0099 U		-0.00854 U
	Technetium-99	pCi/L		34.5		31.4
	Uranium	µg/L		0.637		0.08136 U
	Uranium-233/234	pCi/L		0.2329		0.01828 U
	Uranium-235	pCi/L		0.01642 U		0 U
	Uranium-236	pCi/L		0.00737 U		1.01E-05 U
	Uranium-238	pCi/L		0.2125		0.02734 U
STSW-102G	Americium-241	pCi/L		0.01982 U		0.02883 U
	Neptunium-237	pCi/L		0.00774 U		0.02492 U
	Plutonium-238	pCi/L		0.01543 U		0.008283 U
	Plutonium-239/240	pCi/L		-0.0077 U		-0.00828 U
	Technetium-99	pCi/L		149		139
	Uranium	µg/L		0.7183		0.3816
	Uranium-233/234	pCi/L		0.3325		0.1555
	Uranium-235	pCi/L		1.2E-05 U		0.02398 U
WP-01	Uranium-236	pCi/L		0.01116 U		0 U
	Uranium-238	pCi/L		0.2413		0.1261
	Americium-241	pCi/L		0.00903 U		
	Neptunium-237	pCi/L		-0.0214 U		
	Plutonium-238	pCi/L		0.02137 U		
	Plutonium-239/240	pCi/L		0.02137 U		
	Technetium-99	pCi/L		-2.36 U		
	Uranium	µg/L		1.602		
WP-02	Uranium-233/234	pCi/L		0.5945		
	Uranium-235	pCi/L		0.02367 U		
	Uranium-236	pCi/L		0.03186 U		
	Uranium-238	pCi/L		0.5359		
	Americium-241	pCi/L		1.1E-05 U		
	Neptunium-237	pCi/L		0 U		
	Plutonium-238	pCi/L		0.03538 U		
	Plutonium-239/240	pCi/L		0.02358 U		
	Technetium-99	pCi/L		-6.65 U		
	Uranium	µg/L		0.3387		
	Uranium-233/234	pCi/L		0.3458		
	Uranium-235	pCi/L		0.02752 U		
	Uranium-236	pCi/L		0 U		
	Uranium-238	pCi/L		0.1113		

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
WP-03	Americium-241	pCi/L		0.02805 U		
	Neptunium-237	pCi/L		0 U		
	Plutonium-238	pCi/L		0 U		
	Plutonium-239/240	pCi/L		0.02886 U		
	Technetium-99	pCi/L		-3.88 U		
	Uranium	µg/L		2.37		
	Uranium-233/234	pCi/L		0.8583		
	Uranium-235	pCi/L		0.03344 U		
	Uranium-236	pCi/L		0 U		
	Uranium-238	pCi/L		0.7935		
WP-04	Americium-241	pCi/L		0.00885 U		
	Neptunium-237	pCi/L		0.01003 U		
	Plutonium-238	pCi/L		0.00999 U		
	Plutonium-239/240	pCi/L		0.02996 U		
	Technetium-99	pCi/L		-4.77 U		
	Uranium	µg/L		0.373		
	Uranium-233/234	pCi/L		0.1255		
	Uranium-235	pCi/L		0 U		
	Uranium-236	pCi/L		0.01159 U		
	Uranium-238	pCi/L		0.1253		
X120-05G	Americium-241	pCi/L		9.8E-06 U		-0.02323 U
	Neptunium-237	pCi/L		0.00995 U		-0.00803 U
	Plutonium-238	pCi/L		0 U		0.03208 U
	Plutonium-239/240	pCi/L		0.00992 U		0 U
	Technetium-99	pCi/L		0.189 U		-1.58 U
	Uranium	µg/L		0.1747 U		0.1694 U
	Uranium-233/234	pCi/L		0.06862 U		0.01902 U
	Uranium-235	pCi/L		1.2E-05 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.05871 U		0.05693 U
X120-08G	Americium-241	pCi/L		0.01742 U		-0.00930 U
	Neptunium-237	pCi/L		0 U		9.5E-06 U
	Plutonium-238	pCi/L		0.03168 U		0.009481 U
	Plutonium-239/240	pCi/L		0.00792 U		9.47E-06 U
	Technetium-99	pCi/L		-1.81 U		4.68 U
	Uranium	µg/L		0.2472		0.08425 U
	Uranium-233/234	pCi/L		0.137		0.1094
	Uranium-235	pCi/L		0.01127 U		0.01125 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X120-08G	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.08206		0.0273 U
X120-11G	Americium-241	pCi/L		0.02021 U		-0.00940 U
	Neptunium-237	pCi/L		0 U		0.008073 U
	Plutonium-238	pCi/L		0.00797 U		0.00805 U
	Plutonium-239/240	pCi/L		0.01595 U		0.00805 U
	Technetium-99	pCi/L		0.82 U		4.13 U
	Uranium	µg/L		0.3395		0.1811
	Uranium-233/234	pCi/L		0.1152		0.09581
	Uranium-235	pCi/L		-0.0109 U		0 U
	Uranium-236	pCi/L		0.01963 U		0 U
	Uranium-238	pCi/L		0.115		0.06084
	Americium-241	pCi/L	0.0185 U	0.0169 U	-0.07729 U	0.02522 U
X749-04G	Neptunium-237	pCi/L	0 U	0.01595 U	0.007992 U	0 U
	Plutonium-238	pCi/L	0.0152 U	0.02387 U	0.02388 U	0.01683 U
	Plutonium-239/240	pCi/L	-0.008 U	0.01591 U	7.954E-06 U	0.008414 U
	Technetium-99	pCi/L	3.43 U	-0.551 U	0.0482 U	-3.76 U
	Uranium	µg/L	0.0607 U	0.1313	0.2848	0.08665 U
	Uranium-233/234	pCi/L	0.0307 U	0.03458 U	0.1247	0.0389 U
	Uranium-235	pCi/L	0 U	0.01066 U	0 U	0 U
	Uranium-236	pCi/L	0 U	0.00957 U	0 U	0 U
	Uranium-238	pCi/L	0.0204 U	0.04312	0.09569	0.02912 U
	Americium-241	pCi/L		0 U		0.01002 U
	Neptunium-237	pCi/L		0 U		-0.00833 U
X749-06G	Plutonium-238	pCi/L		0.01837 U		8.31E-06 U
	Plutonium-239/240	pCi/L		0.01837 U		0.008315 U
	Technetium-99	pCi/L		57.1		29.9
	Uranium	µg/L		0.3248		0.1375
	Uranium-233/234	pCi/L		0.01874 U		0.07407
	Uranium-235	pCi/L		-0.0229 U		0 U
	Uranium-236	pCi/L		-0.0103 U		0 U
	Uranium-238	pCi/L		0.1112		0.04619
	Americium-241	pCi/L	-0.027 U	0.01871 U	-0.1155 U	0 U
	Neptunium-237	pCi/L	9E-06 U	0.00772 U	-0.04782 U	0 U
	Plutonium-238	pCi/L	0.0174 U	0.0077 U	0.008031 U	0.02364 U
X749-07G	Plutonium-239/240	pCi/L	0.0087 U	7.7E-06 U	8.09E-06 U	0 U
	Technetium-99	pCi/L	106	156	206	173
	Uranium	µg/L	0.1292 U	0.5785	0.2649	0.3337

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-07G	Uranium-233/234	pCi/L	0.1523	0.1017	0.132	0.1225
	Uranium-235	pCi/L	0 U	-0.0096 U	0.01357 U	0 U
	Uranium-236	pCi/L	0 U	0.00867 U	-0.01217 U	0.0226 U
	Uranium-238	pCi/L	0.0434 U	0.1952	0.08785	0.112
X749-08G	Americium-241	pCi/L	-0.01 U	0.02429 U	0.07666 U	3.65E-05 U
	Neptunium-237	pCi/L	0 U	0.00861 U	-0.02514 U	-0.01897 U
	Plutonium-238	pCi/L	0.0317 U	0.01717 U	0.02525 U	0 U
	Plutonium-239/240	pCi/L	-0.008 U	0.01717 U	0.02514 U	9.46E-06 U
	Technetium-99	pCi/L	11.6	4.54 U	7.41 U	4.57 U
	Uranium	µg/L	0.1399	0.2816	0.3718	0.1637
	Uranium-233/234	pCi/L	0.1354	0.1517	0.1432	0.1543
	Uranium-235	pCi/L	0.0223 U	0 U	0.01178 U	0 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.0450	0.09461	0.1239	0.05499
X749-09GA	Americium-241	pCi/L	8E-06 U	0.00981 U	0.07677 U	0 U
	Neptunium-237	pCi/L	0.0084 U	0.00955 U	-0.01835 U	-0.00780 U
	Plutonium-238	pCi/L	0.0253 U	0.03807 U	-0.0183 U	0.04678 U
	Plutonium-239/240	pCi/L	3E-05 U	0.00952 U	0.01846 U	0.007796 U
	Technetium-99	pCi/L	10.2	8.33 U	9.79	4.66 U
	Uranium	µg/L	0.1567	0.3372	0.1469 U	0.02748 U
	Uranium-233/234	pCi/L	0.2881	0.1403	0.09067	0.02785 U
	Uranium-235	pCi/L	0.0209 U	0.03709 U	0 U	0 U
	Uranium-236	pCi/L	0.0094 U	0 U	0 U	-0.01026 U
	Uranium-238	pCi/L	0.0507	0.11	0.04936 U	0.009285 U
X749-10GA	Americium-241	pCi/L	0.0087 U	-0.0268 U	-0.05315 U	0 U
	Neptunium-237	pCi/L	-0.008 U	0.02316 U	-0.0176 U	-0.01517 U
	Plutonium-238	pCi/L	0.0158 U	0.0154 U	0.03522 U	-0.01513 U
	Plutonium-239/240	pCi/L	0.0158 U	0 U	-0.008787 U	-0.00756 U
	Technetium-99	pCi/L	-3.4 U	-2.86 U	-4.27 U	0.878 U
	Uranium	µg/L	0.1306 U	0.02303 U	0.06216 U	0.2046 U
	Uranium-233/234	pCi/L	0.1895	0.00775 U	0.08371	0.09842
	Uranium-235	pCi/L	0.0106 U	0 U	0 U	0 U
	Uranium-236	pCi/L	-0.01 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.043 U	0.00774 U	0.02088 U	0.06876 U
X749-13G	Americium-241	pCi/L		0.01726 U		0 U
	Neptunium-237	pCi/L		0.01839 U		-0.044 U
	Plutonium-238	pCi/L		0.02751 U		0 U
	Plutonium-239/240	pCi/L		0 U		0.008783 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-13G	Technetium-99	pCi/L		27.2		33.1
	Uranium	µg/L		0.897		0.6586
	Uranium-233/234	pCi/L		0.1899		0.1875
	Uranium-235	pCi/L		1.1E-05 U		0.0136 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.3014		0.2201
X749-14B	Americium-241	pCi/L				0.00949 U
	Neptunium-237	pCi/L				-0.02236 U
	Plutonium-238	pCi/L				0.01491 U
	Plutonium-239/240	pCi/L				1.49E-05 U
	Technetium-99	pCi/L				-4.51 U
	Uranium	µg/L				0.0274 U
	Uranium-233/234	pCi/L				0.02784 U
	Uranium-235	pCi/L				0 U
X749-20G	Uranium-236	pCi/L				-0.01026 U
	Uranium-238	pCi/L				0.009258 U
	Americium-241	pCi/L	0.0099 U	0.0094 U	0.01005 U	0.02464 U
	Neptunium-237	pCi/L	0.0079 U	-0.0161 U	-0.0161 U	3.75E-05 U
	Plutonium-238	pCi/L	0.0553 U	0.02411 U	0.01609 U	0.03744 U
	Plutonium-239/240	pCi/L	0.0079 U	-0.0080 U	0.008045 U	-0.01868 U
	Technetium-99	pCi/L	453	477	374	422
	Uranium	µg/L	0.1402	0.1715	0.3875	0.1596 U
	Uranium-233/234	pCi/L	0.1982	0.08106	0.1913	0.131
	Uranium-235	pCi/L	0 U	0.01 U	0 U	0.0373 U
X749-21G	Uranium-236	pCi/L	0 U	0.01796 U	0 U	0 U
	Uranium-238	pCi/L	0.0471	0.05663	0.1302	0.0503 U
	Americium-241	pCi/L	0.0215 U	0.03612 U	0.01624 U	0 U
	Neptunium-237	pCi/L	0.0099 U	0.00899 U	0.009202 U	-0.00822 U
	Plutonium-238	pCi/L	0.0296 U	0.03582 U	0.01835 U	-0.02467 U
	Plutonium-239/240	pCi/L	1E-05 U	0.01791 U	9.167E-06 U	-0.01645 U
	Technetium-99	pCi/L	-1.36 U	-0.161 U	-2.49 U	-1.64 U
	Uranium	µg/L	0.0617 U	0.09257 U	0.05324 U	0.1485
	Uranium-233/234	pCi/L	0.0104 U	0.01002 U	0.04482 U	0.1001
	Uranium-235	pCi/L	0 U	0.01236 U	0 U	0 U
X749-23G	Uranium-236	pCi/L	0.0115 U	0 U	0 U	-0.01108 U
	Uranium-238	pCi/L	0.0207 U	0.03 U	0.01789 U	0.04995
	Americium-241	pCi/L	0.0164 U	0.02677 U	-0.009899 U	0 U
	Neptunium-237	pCi/L	0.0232 U	-0.0171 U	0.0179 U	0.02805 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-23G	Plutonium-238	pCi/L	0.0232 U	0.03405 U	0.008932 U	0.009318 U
	Plutonium-239/240	pCi/L	-0.015 U	0.00851 U	0.008923 U	0.009327 U
	Technetium-99	pCi/L	-1.83 U	-5.05 U	2.57 U	-3.03 U
	Uranium	µg/L	0.2459	0.2258 U	0.1621	0.1868
	Uranium-233/234	pCi/L	0.1196	0.1308	0.1381	0.09437
	Uranium-235	pCi/L	0 U	0.01153 U	0.009467 U	0 U
	Uranium-236	pCi/L	0 U	0.0414 U	0 U	0 U
	Uranium-238	pCi/L	0.0826	0.07463 U	0.05361	0.06278
X749-24G	Americium-241	pCi/L	2E-05 U	-0.0091 U	0.1073 U	0.01168 U
	Neptunium-237	pCi/L	0.0079 U	0.01564 U	0.009885 U	-0.00969 U
	Plutonium-238	pCi/L	0.0157 U	0.06241 U	0.0392 U	0.01949 U
	Plutonium-239/240	pCi/L	8E-06 U	0.00781 U	-0.01955 U	9.73E-06 U
	Technetium-99	pCi/L	-0.535 U	-1.78 U	-3.08 U	-5.88 U
	Uranium	µg/L	0.0289 U	0.07389 U	0.02902 U	-0.03537 U
	Uranium-233/234	pCi/L	0.0097 U	0.09121	0.05862 U	0.03577 U
	Uranium-235	pCi/L	0 U	1.0E-05 U	0 U	0 U
X749-25G	Uranium-236	pCi/L	0 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.0097 U	0.02483 U	0.009749 U	-0.01189 U
	Americium-241	pCi/L	0.02 U	-0.018 U	8.622E-06 U	3.24E-05 U
	Neptunium-237	pCi/L	8E-06 U	7.6E-06 U	0.008983 U	-0.04485 U
	Plutonium-238	pCi/L	0.0163 U	0.03039 U	0.01792 U	0.02249 U
	Plutonium-239/240	pCi/L	0.0244 U	-0.0076 U	0.008967 U	-0.02242 U
	Technetium-99	pCi/L	4.63 U	7.66 U	2.87 U	3.02 U
	Uranium	µg/L	0.2922	0.6886	0.2657	0.4196
X749-26G	Uranium-233/234	pCi/L	0.1071	0.2597	0.08145	0.1522
	Uranium-235	pCi/L	0.0120 U	0 U	-0.01115 U	0 U
	Uranium-236	pCi/L	0 U	0 U	-0.01001 U	-0.01203 U
	Uranium-238	pCi/L	0.0971	0.2314	0.09032	0.1411
	Americium-241	pCi/L				1.21E-05 U
	Neptunium-237	pCi/L				-0.00881 U
	Plutonium-238	pCi/L				0.03521 U
	Plutonium-239/240	pCi/L				-0.00879 U
X749-26G	Technetium-99	pCi/L				19.2
	Uranium	µg/L				0.0268 U
	Uranium-233/234	pCi/L				0.07097 U
	Uranium-235	pCi/L				-0.01249 U
	Uranium-236	pCi/L				0 U
	Uranium-238	pCi/L				0.01012 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-35G	Americium-241	pCi/L	0.0091 U	0.00921 U	0.01785 U	-0.0948 U
	Neptunium-237	pCi/L	-0.008 U	0.00753 U	0.01578 U	-0.1538 U
	Plutonium-238	pCi/L	0.0228 U	0 U	0.01574 U	0.02883 U
	Plutonium-239/240	pCi/L	0 U	7.5E-06 U	0.00787 U	0.01922 U
	Technetium-99	pCi/L	0.275 U	-0.137 U	17.3	-0.909 U
	Uranium	µg/L	0.3826	0.2605	0.193 U	0.1596
	Uranium-233/234	pCi/L	0.3404	0.06139	0.045 U	0.02153 U
	Uranium-235	pCi/L	0 U	0 U	0.0222 U	0 U
	Uranium-236	pCi/L	1E-05 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.1285	0.08753	0.06286 U	0.05363
X749-36G	Americium-241	pCi/L				-0.01973 U
	Neptunium-237	pCi/L				-0.01693 U
	Plutonium-238	pCi/L				0.008465 U
	Plutonium-239/240	pCi/L				-0.00844 U
	Technetium-99	pCi/L				1.8 U
	Uranium	µg/L				0.003076 U
	Uranium-233/234	pCi/L				0.02739 U
	Uranium-235	pCi/L				0.01126 U
	Uranium-236	pCi/L				1.01E-05 U
	Uranium-238	pCi/L				2.73E-05 U
X749-37G	Americium-241	pCi/L		0.01027 U		0.01033 U
	Neptunium-237	pCi/L		0.0197 U		-0.01459 U
	Plutonium-238	pCi/L		0.01964 U		0.00729 U
	Plutonium-239/240	pCi/L		0.01964 U		0.02185 U
	Technetium-99	pCi/L		4.43 U		3.93 U
	Uranium	µg/L		0.2052		-0.05166 U
	Uranium-233/234	pCi/L		0.07902 U		0.02768 U
	Uranium-235	pCi/L		0 U		0.01137 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.06896		-0.01837 U
X749-41G	Americium-241	pCi/L		0.02982 U		0 U
	Neptunium-237	pCi/L		0.01189 U		7.8E-06 U
	Plutonium-238	pCi/L		0.02371 U		0.007791 U
	Plutonium-239/240	pCi/L		0.01187 U		0.007791 U
	Technetium-99	pCi/L		1.4 U		-7.48 U
	Uranium	µg/L		0.2439		0.1035 U
	Uranium-233/234	pCi/L		0.0417 U		0.06967
	Uranium-235	pCi/L		-0.0128 U		0 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-41G	Uranium-236	pCi/L		-0.0115 U		0 U
	Uranium-238	pCi/L		0.08317		0.03476 U
X749-42G	Americium-241	pCi/L		1.8E-05 U		0.0349 U
	Neptunium-237	pCi/L		0 U		-0.01713 U
	Plutonium-238	pCi/L		0.02735 U		0.03422 U
	Plutonium-239/240	pCi/L		0.00912 U		-0.00853 U
	Technetium-99	pCi/L		-3.61 U		-2.61 U
	Uranium	µg/L		0.204 U		0.05877 U
	Uranium-233/234	pCi/L		0.02034 U		0.0296 U
	Uranium-235	pCi/L		-0.0250 U		0 U
	Uranium-236	pCi/L		-0.0225 U		0.01092 U
	Uranium-238	pCi/L		0.07091 U		0.01969 U
X749-44G	Americium-241	pCi/L		0.00938 U		-0.01075 U
	Neptunium-237	pCi/L		0 U		-0.00967 U
	Plutonium-238	pCi/L		0.01905 U		0.009662 U
	Plutonium-239/240	pCi/L		0 U		-0.00964 U
	Technetium-99	pCi/L		9.52		15.2
	Uranium	µg/L		0.1687		0.1332 U
	Uranium-233/234	pCi/L		0.08511		0.08064
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0.01048 U		0.009923 U
	Uranium-238	pCi/L		0.05663		0.04471 U
X749-45G	Americium-241	pCi/L		0.00882 U		-0.01167 U
	Neptunium-237	pCi/L		0.01575 U		-0.00854 U
	Plutonium-238	pCi/L		0.0314 U		0.008533 U
	Plutonium-239/240	pCi/L		0.02355 U		0 U
	Technetium-99	pCi/L		1.67 U		1.22 U
	Uranium	µg/L		1.894		0.1254 U
	Uranium-233/234	pCi/L		0.758		0.05909
	Uranium-235	pCi/L		0.01247 U		1.04E-05 U
	Uranium-236	pCi/L		1.1E-05 U		0 U
	Uranium-238	pCi/L		0.6354		0.04213 U
X749-50B	Americium-241	pCi/L				0.0312 U
	Neptunium-237	pCi/L				1.67E-05 U
	Plutonium-238	pCi/L				0.01664 U
	Plutonium-239/240	pCi/L				8.31E-06 U
	Technetium-99	pCi/L				-2.74 U
	Uranium	µg/L				0.1087 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-50B	Uranium-233/234	pCi/L				0.187
	Uranium-235	pCi/L				0.01098 U
	Uranium-236	pCi/L				0 U
	Uranium-238	pCi/L				0.03555 U
X749-51B	Americium-241	pCi/L		0.02061 U		0.1141 U
	Neptunium-237	pCi/L		0.00847 U		-0.02024 U
	Plutonium-238	pCi/L		0.0169 U		0.03032 U
	Plutonium-239/240	pCi/L		0.00845 U		2.02E-05 U
	Technetium-99	pCi/L		-0.975 U		-1.8 U
	Uranium	µg/L		0.1095 U		0.06347 U
	Uranium-233/234	pCi/L		0.01851 U		0.1815
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.03679 U		0.02132 U
	Americium-241	pCi/L	-0.01 U	0 U	0 U	0.01146 U
	Neptunium-237	pCi/L	-0.007 U	0 U	-0.03833 U	2.66E-05 U
X749-54B	Plutonium-238	pCi/L	0.0203 U	0.02329 U	0 U	0.01771 U
	Plutonium-239/240	pCi/L	7E-06 U	0 U	0.007652 U	-0.00884 U
	Technetium-99	pCi/L	-0.286 U	0.286 U	0.514 U	-5.04 U
	Uranium	µg/L	0.0287 U	-0.0244 U	0.1157	3.51E-05 U
	Uranium-233/234	pCi/L	0.0087 U	0.02736 U	0.1753	0.03889 U
	Uranium-235	pCi/L	0.0107 U	0.01124 U	0.02277 U	0 U
	Uranium-236	pCi/L	0 U	-0.0202 U	0 U	0 U
	Uranium-238	pCi/L	0.0087 U	-0.0091 U	0.03683 U	9.69E-06 U
	Americium-241	pCi/L				0.0213 U
	Neptunium-237	pCi/L				-0.01449 U
X749-60B	Plutonium-238	pCi/L				0.0217 U
	Plutonium-239/240	pCi/L				-0.00722 U
	Technetium-99	pCi/L				-2.12 U
	Uranium	µg/L				1.043
	Uranium-233/234	pCi/L				1.104
	Uranium-235	pCi/L				0.01107 U
	Uranium-236	pCi/L				0.01988 U
	Uranium-238	pCi/L				0.3492
X749-63B	Americium-241	pCi/L				-0.01225 U
	Neptunium-237	pCi/L				-0.00769 U
	Plutonium-238	pCi/L				0.01537 U
	Plutonium-239/240	pCi/L				0.02304 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-63B	Technetium-99	pCi/L				-4.22 U
	Uranium	µg/L				0.02817 U
	Uranium-233/234	pCi/L				0.01721 U
	Uranium-235	pCi/L				0.01058 U
	Uranium-236	pCi/L				-0.00949 U
	Uranium-238	pCi/L				0.008569 U
X749-64B	Americium-241	pCi/L				0.01237 U
	Neptunium-237	pCi/L				-0.04729 U
	Plutonium-238	pCi/L				0.009443 U
	Plutonium-239/240	pCi/L				0.009443 U
	Technetium-99	pCi/L				-6.43 U
	Uranium	µg/L				0.3162
	Uranium-233/234	pCi/L				0.6515
	Uranium-235	pCi/L				0.01182 U
X749-67G	Uranium-236	pCi/L				0 U
	Uranium-238	pCi/L				0.1052
	Americium-241	pCi/L		8.9E-06 U		-0.00971 U
	Neptunium-237	pCi/L		1.1E-05 U		8.04E-06 U
	Plutonium-238	pCi/L		0.02128 U		0.01605 U
	Plutonium-239/240	pCi/L		0.01065 U		0.01604 U
	Technetium-99	pCi/L		81.6		90.9
	Uranium	µg/L		0.8294		0.1329 U
X749-68G	Uranium-233/234	pCi/L		0.2693		0.07869 U
	Uranium-235	pCi/L		0.02768 U		0.01078 U
	Uranium-236	pCi/L		0 U		0.009682 U
	Uranium-238	pCi/L		0.2762		0.04363 U
	Americium-241	pCi/L				0 U
	Neptunium-237	pCi/L				8.36E-06 U
	Plutonium-238	pCi/L				0.0167 U
	Plutonium-239/240	pCi/L				0 U
X749-96G	Technetium-99	pCi/L				-4.03 U
	Uranium	µg/L				0.0575 U
	Uranium-233/234	pCi/L				0.08233
	Uranium-235	pCi/L				0.01128 U
	Uranium-236	pCi/L				0.01013 U
	Uranium-238	pCi/L				0.01826 U
	Americium-241	pCi/L	0.0177 U	0.01821 U	-0.01038 U	0.03107 U
	Neptunium-237	pCi/L	0 U	0.01225 U	0.01782 U	0.008557 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-96G	Plutonium-238	pCi/L	0 U	0.01223 U	0.04435 U	-0.0169 U
	Plutonium-239/240	pCi/L	0.0081 U	1.2E-05 U	0.008865 U	0.02539 U
	Technetium-99	pCi/L	-2.38 U	-4.08 U	-0.815 U	-6.69 U
	Uranium	µg/L	0.0304 U	0.06261 U	0.02989 U	0.03074 U
	Uranium-233/234	pCi/L	0.0736	0.06645 U	0.08048	0.1233
	Uranium-235	pCi/L	0.0114 U	0.02342 U	0 U	0 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0.01138 U
	Uranium-238	pCi/L	0.0092 U	0.01895 U	0.01004 U	0.01026 U
X749-97G	Americium-241	pCi/L	0.0093 U	0.00955 U	-0.02224 U	0.01037 U
	Neptunium-237	pCi/L	0 U	0.01106 U	7.953E-05 U	-0.01796 U
	Plutonium-238	pCi/L	0.0154 U	0.02207 U	0.0359 U	0.01794 U
	Plutonium-239/240	pCi/L	0 U	-0.0110 U	1.762E-05 U	-0.00895 U
	Technetium-99	pCi/L	5.11 U	-3.85 U	8.39 U	4.56 U
	Uranium	µg/L	0.147	0.3227	1.547	6.009
	Uranium-233/234	pCi/L	0.1188	0.1172	0.6232	2.076
	Uranium-235	pCi/L	1E-05 U	0.01205 U	0.03548 U	0.04699 U
X749-98G	Uranium-236	pCi/L	0 U	0.02164 U	-0.01061 U	0 U
	Uranium-238	pCi/L	0.0494	0.1072	0.5167	2.015
	Americium-241	pCi/L	0.0252 U	9.2E-06 U	7.749E-06 U	0.01803 U
	Neptunium-237	pCi/L	0.0076 U	0.01059 U	0 U	-0.03842 U
	Plutonium-238	pCi/L	0.0076 U	0.02109 U	0.008327 U	-0.00766 U
	Plutonium-239/240	pCi/L	0.0076 U	0.03164 U	0 U	-0.00766 U
	Technetium-99	pCi/L	5 U	-1.76 U	-1.68 U	-3.93 U
	Uranium	µg/L	0.0655 U	0.1363	0.1516	0.1884 U
X749-99M	Uranium-233/234	pCi/L	0.0729	0.04349 U	0.03404 U	0.03166 U
	Uranium-235	pCi/L	0.0129 U	0.02683 U	0 U	0 U
	Uranium-236	pCi/L	0.0115 U	0 U	0 U	0.02337 U
	Uranium-238	pCi/L	0.0208 U	0.0434 U	0.05095	0.06319 U
	Americium-241	pCi/L	9E-06 U	0.0283 U	0.07311 U	0.01978 U
	Neptunium-237	pCi/L	-0.008 U	0.01196 U	0.006601 U	-0.06192 U
	Plutonium-238	pCi/L	0.0165 U	1.2E-05 U	-0.02605 U	0.03095 U
	Plutonium-239/240	pCi/L	0 U	0.02387 U	6.086E-06 U	-0.03089 U
X749-99M	Technetium-99	pCi/L	3.22 U	1.8 U	-1.31 U	-4 U
	Uranium	µg/L	1E-05 U	0.07515 U	-0.000135 U	0.003805 U
	Uranium-233/234	pCi/L	0.0677	0.02274 U	0.0194 U	4.37E-05 U
	Uranium-235	pCi/L	0 U	0.02804 U	0 U	0.0135 U
	Uranium-236	pCi/L	0 U	0.01259 U	-0.01072 U	0.01212 U
	Uranium-238	pCi/L	0 U	0.02268 U	9.659E-06 U	1.09E-05 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-100M	Americium-241	pCi/L	1E-05 U	0.03838 U	0.0000106 U	-0.00851 U
	Neptunium-237	pCi/L	0.0092 U	-0.0102 U	-0.02731 U	-0.01635 U
	Plutonium-238	pCi/L	0.0368 U	0 U	0.0182 U	-0.00815 U
	Plutonium-239/240	pCi/L	0 U	1.0E-05 U	9.088E-06 U	-0.02449 U
	Technetium-99	pCi/L	0.371 U	-1.81 U	-3.21 U	-4.01 U
	Uranium	µg/L	0.0262 U	0.1272 U	0.03667 U	0.06162 U
	Uranium-233/234	pCi/L	0.0528	0.07291	0.09097 U	0.2073
	Uranium-235	pCi/L	0 U	0.01285 U	0.02493 U	1.28E-05 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.0088 U	0.04159 U	0.01009 U	0.0207 U
X749-101M	Americium-241	pCi/L	-0.032 U	-0.0188 U	8.598E-06 U	-0.08245 U
	Neptunium-237	pCi/L	0 U	-0.0116 U	-0.007391 U	-0.07122 U
	Plutonium-238	pCi/L	0.0333 U	0.02324 U	0.007392 U	2.67E-05 U
	Plutonium-239/240	pCi/L	8E-06 U	0.02324 U	0.007378 U	-0.01776 U
	Technetium-99	pCi/L	-5.49 U	-0.022 U	1.18 U	-5.37 U
	Uranium	µg/L	0.2297	0.2385	0.2947	0.05519 U
	Uranium-233/234	pCi/L	0.0572	0.0803	0.2857	0.07408 U
	Uranium-235	pCi/L	0.0118 U	0 U	0.01101 U	0 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0.01025 U
	Uranium-238	pCi/L	0.0761	0.08015	0.09803	0.01849 U
X749-102G	Americium-241	pCi/L	0 U	0.00839 U	1.184E-05 U	-0.04888 U
	Neptunium-237	pCi/L	0.0096 U	-0.0225 U	1.252E-05 U	-0.02065 U
	Plutonium-238	pCi/L	0 U	0.02996 U	-0.01248 U	0.02072 U
	Plutonium-239/240	pCi/L	0.0192 U	0.00749 U	1.248E-05 U	0.02073 U
	Technetium-99	pCi/L	-1.15 U	-0.0921 U	0.535 U	0.494 U
	Uranium	µg/L	2.244	0.1063 U	0.07174 U	0.1009 U
	Uranium-233/234	pCi/L	0.6838	8.9E-06 U	0.01615 U	0.03397 U
	Uranium-235	pCi/L	0.0362 U	0 U	0 U	0 U
	Uranium-236	pCi/L	0.0216 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.7507	0.03572 U	0.02411 U	0.03389 U
X749-103G	Americium-241	pCi/L	0.0168 U	0.01963 U	-0.01925 U	-0.00884 U
	Neptunium-237	pCi/L	1E-05 U	3.8E-05 U	-0.009428 U	0.02062 U
	Plutonium-238	pCi/L	0 U	0.01893 U	0 U	0 U
	Plutonium-239/240	pCi/L	-0.010 U	0 U	0.02826 U	0.01026 U
	Technetium-99	pCi/L	0.947 U	-3.16 U	-1.79 U	4.1 U
	Uranium	µg/L	0.9044	0.1293 U	-0.02619 U	0.1962
	Uranium-233/234	pCi/L	0.3902	0.1087	-0.03192 U	0.06491
	Uranium-235	pCi/L	0.056	0 U	-0.009848 U	0.01335 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-103G	Uranium-236	pCi/L	0.0101 U	0.01204 U	0.008852 U	-0.01197 U
	Uranium-238	pCi/L	0.2988	0.0434 U	-0.007967 U	0.06478
X749-104G	Americium-241	pCi/L	0.0256 U	1.8E-05 U	0.06936 U	-0.00886 U
	Neptunium-237	pCi/L	0.0084 U	0.0077 U	-0.0614 U	-0.00780 U
	Plutonium-238	pCi/L	0.0837 U	7.7E-06 U	8.867E-05 U	1.56E-05 U
	Plutonium-239/240	pCi/L	0 U	0 U	-0.02042 U	-0.0078 U
	Technetium-99	pCi/L	-3.27 U	-2.51 U	-0.339 U	-6 U
	Uranium	µg/L	1.74	0.08638 U	0.1826	0.0881 U
	Uranium-233/234	pCi/L	0.5231	0.1457	0.0503	0.05931 U
	Uranium-235	pCi/L	0.0127 U	0 U	0.01241 U	0 U
X749-105G	Uranium-236	pCi/L	0 U	-0.0108 U	0 U	0 U
	Uranium-238	pCi/L	0.5835	0.02907 U	0.06024	0.0296 U
	Americium-241	pCi/L	0.0241 U	0.02398 U	0.009471 U	-0.00846 U
	Neptunium-237	pCi/L	0 U	-0.0103 U	-0.01731 U	8.72E-06 U
	Plutonium-238	pCi/L	0.0092 U	0.02048 U	0.03457 U	0 U
	Plutonium-239/240	pCi/L	0.0184 U	0 U	0.01728 U	0.008708 U
	Technetium-99	pCi/L	-3.16 U	-7.42 U	-4.36 U	-3.14 U
	Uranium	µg/L	3.308	0.3212	0.1425 U	0.1863
	Uranium-233/234	pCi/L	1.385	0.107	0.05084 U	0.07059
	Uranium-235	pCi/L	0.0621	0.01466 U	-0.03129 U	0.01088 U
X749-BG6G	Uranium-236	pCi/L	0 U	-0.0263 U	-0.009369 U	0 U
	Uranium-238	pCi/L	1.106	0.1068	0.05073 U	0.06163
	Americium-241	pCi/L	-0.009 U	0.0111 U	0.009847 U	0.01091 U
	Neptunium-237	pCi/L	0.0075 U	-0.0121 U	-0.02149 U	0.01887 U
	Plutonium-238	pCi/L	0.03 U	0.04836 U	0.08579 U	1.88E-05 U
	Plutonium-239/240	pCi/L	-0.007 U	0 U	0.02145 U	1.88E-05 U
	Technetium-99	pCi/L	1.67 U	-0.617 U	8.18 U	0.758 U
	Uranium	µg/L	0.5818	0.304	0.2748	0.3371
	Uranium-233/234	pCi/L	0.2937	0.09212	0.1083	0.1445
	Uranium-235	pCi/L	0 U	0 U	0.01027 U	0 U
X749-BG9G	Uranium-236	pCi/L	0.0109 U	0 U	0 U	-0.01142 U
	Uranium-238	pCi/L	0.1954	0.1021	0.09142	0.1133
	Americium-241	pCi/L	0 U	0.04327	-0.05098 U	-0.01813 U
	Neptunium-237	pCi/L	8E-06 U	0.00902 U	-0.02559 U	-0.00836 U
	Plutonium-238	pCi/L	0.0168 U	0.036 U	0.0001053 U	0.01671 U
	Plutonium-239/240	pCi/L	0 U	0.027 U	-0.01705 U	8.34E-06 U
	Technetium-99	pCi/L	4.69 U	-2.13 U	3.7 U	5.72 U
	Uranium	µg/L	0.2431	0.1355	0.2382	0.0558 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-BG9G	Uranium-233/234	pCi/L	0.0819	0.1094	0.07012	0.05644
	Uranium-235	pCi/L	0 U	0 U	0 U	0 U
	Uranium-236	pCi/L	0 U	0.01009 U	0.0111 U	-0.01041 U
	Uranium-238	pCi/L	0.0817	0.04547	0.07998	0.0188 U
X749-PZ02G	Americium-241	pCi/L		9.4E-06 U		0.01073 U
	Neptunium-237	pCi/L		0.0159 U		0.01599 U
	Plutonium-238	pCi/L		0.03171 U		7.95E-06 U
	Plutonium-239/240	pCi/L		0.00793 U		7.95E-06 U
	Technetium-99	pCi/L		-2.12 U		1 U
	Uranium	µg/L		0.1537		0.05678 U
	Uranium-233/234	pCi/L		0.06027		0.00955 U
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0.01907 U		0.01055 U
	Uranium-238	pCi/L		0.05156		0.01902 U
X749-PZ03G	Americium-241	pCi/L	0 U	8.7E-06 U	1.046E-05 U	0 U
	Neptunium-237	pCi/L	0.0077 U	0.01664 U	0.01201 U	-0.05504 U
	Plutonium-238	pCi/L	0.0308 U	0.03318 U	0.01197 U	0.0157 U
	Plutonium-239/240	pCi/L	0.0231 U	0.02488 U	0 U	7.84E-06 U
	Technetium-99	pCi/L	-0.023 U	4.36 U	-3.02 U	-7.57 U
	Uranium	µg/L	0.0556 U	0.9367	-0.05535 U	0.1798
	Uranium-233/234	pCi/L	0.028 U	0.6061	-0.03519 U	0.05945
	Uranium-235	pCi/L	0 U	0.03399 U	-0.01086 U	0.01222 U
	Uranium-236	pCi/L	0.0103 U	0.01017 U	-0.009755 U	0 U
	Uranium-238	pCi/L	0.0186 U	0.3116	-0.01758 U	0.05933
X749-PZ04G	Americium-241	pCi/L	0 U	0.01653 U	0.01746 U	0.01058 U
	Neptunium-237	pCi/L	9E-06 U	-0.0082 U	0.01119 U	-0.03445 U
	Plutonium-238	pCi/L	0.0274 U	0.01638 U	0 U	0.01721 U
	Plutonium-239/240	pCi/L	0.0274 U	0.01638 U	0.01116 U	-0.0172 U
	Technetium-99	pCi/L	155	98.2	107	72.8
	Uranium	µg/L	0.2511	0.3273	-0.05771 U	0.1758 U
	Uranium-233/234	pCi/L	0.0845	0.2296	0.03977 U	0.07894
	Uranium-235	pCi/L	0 U	0 U	-0.03913 U	0 U
	Uranium-236	pCi/L	0.0104 U	0 U	-0.01757 U	1.09E-05 U
	Uranium-238	pCi/L	0.0843	0.11	-0.01581 U	0.05909 U
X749-PZ05G	Americium-241	pCi/L	-0.009 U	-0.0086 U	0.02009 U	1.01E-05 U
	Neptunium-237	pCi/L	-0.032 U	9.2E-06 U	0.0131 U	-0.06344 U
	Plutonium-238	pCi/L	0.0399 U	0.00913 U	0.01306 U	0.04224 U
	Plutonium-239/240	pCi/L	0.0319 U	0.01827 U	0.01307 U	1.06E-05 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-PZ05G	Technetium-99	pCi/L	-2.13 U	0.0409 U	-0.472 U	-2.39 U
	Uranium	µg/L	0.5038	0.8501	0.4467	0.5932
	Uranium-233/234	pCi/L	0.2946	0.2669	0.1682	0.2184
	Uranium-235	pCi/L	0 U	0.01135 U	-0.01035 U	0.01225 U
	Uranium-236	pCi/L	0 U	-0.0102 U	9.303E-06 U	0.011 U
	Uranium-238	pCi/L	0.1693	0.2847	0.151	0.1982
X749-PZ06G	Americium-241	pCi/L				-0.02065 U
	Neptunium-237	pCi/L				-0.09486 U
	Plutonium-238	pCi/L				0.01186 U
	Plutonium-239/240	pCi/L				0.01184 U
	Technetium-99	pCi/L				0.183 U
	Uranium	µg/L				0.06907 U
	Uranium-233/234	pCi/L				0.01165 U
	Uranium-235	pCi/L				0 U
	Uranium-236	pCi/L				0 U
	Uranium-238	pCi/L				0.02321 U
X749-PZ09G	Americium-241	pCi/L	-0.009 U	0.01111 U	0.08108 U	-0.01112 U
	Neptunium-237	pCi/L	0.017 U	0 U	2.224E-05 U	-0.01636 U
	Plutonium-238	pCi/L	0.0339 U	0.01891 U	-0.02171 U	0.01635 U
	Plutonium-239/240	pCi/L	0.0085 U	0 U	-0.007271 U	0.00818 U
	Technetium-99	pCi/L	1520	1270	821	1250
	Uranium	µg/L	0.4345	0.344	0.1161 U	0.1834 U
	Uranium-233/234	pCi/L	0.1826	0.06952	0.1141	0.04963
	Uranium-235	pCi/L	0.0237 U	0.03216 U	0.01173 U	0.02449 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.1439	0.1127	0.03797 U	0.05945 U
X749-PZ10G	Americium-241	pCi/L	0.0093 U	8.8E-06 U	0.02537 U	0.02927 U
	Neptunium-237	pCi/L	0.0224 U	0.02114 U	-0.03881 U	0.01674 U
	Plutonium-238	pCi/L	0.0297 U	0 U	0.009792 U	0.02504 U
	Plutonium-239/240	pCi/L	7E-06 U	0.01406 U	-0.009675 U	0.03339 U
	Technetium-99	pCi/L	47.2	56.9	63.5	66.1
	Uranium	µg/L	2.098	0.803	0.3394	0.5202
	Uranium-233/234	pCi/L	0.8981	0.2911	0.1792	0.1185
	Uranium-235	pCi/L	0.0217 U	0.01842 U	0.01164 U	0.02248 U
	Uranium-236	pCi/L	0.0098 U	8.3E-06 U	0 U	0 U
	Uranium-238	pCi/L	0.703	0.2682	0.113	0.1728
X749-PZ11G	Americium-241	pCi/L	0.0181 U	2.5E-05 U	0.05391 U	2.74E-05 U
	Neptunium-237	pCi/L	0.0078 U	0.00713 U	0 U	-0.02236 U

Table 4.2. Results for radionuclides at the X-749/X-120/PK Landfill (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749-PZ11G	Plutonium-238	pCi/L	0.0311 U	0.02844 U	0.008258 U	0.02232 U
	Plutonium-239/240	pCi/L	0.0078 U	0 U	0.00825 U	0.01489 U
	Technetium-99	pCi/L	2.25 U	1.12 U	-2.5 U	5.52 U
	Uranium	µg/L	15.6	8.642	1.809	1.215
	Uranium-233/234	pCi/L	5.255	2.946	0.5677	0.4665
	Uranium-235	pCi/L	0.2734	0.1833	0.02415 U	0.01199 U
	Uranium-236	pCi/L	0.0205 U	0.00969 U	0 U	0 U
	Uranium-238	pCi/L	5.217	2.887	0.6056	0.4074
X749-PZ13G	Americium-241	pCi/L	0.0087 U	0.00838 U	0.07933 U	0.008848 U
	Neptunium-237	pCi/L	-0.008 U	-0.0082 U	-0.007785 U	-0.00904 U
	Plutonium-238	pCi/L	0.0324 U	0.01632 U	7.764E-06 U	0.009023 U
	Plutonium-239/240	pCi/L	0.0081 U	0.00816 U	0.007771 U	0.02707 U
	Technetium-99	pCi/L	9.08 U	11.8	12.6	19.4
	Uranium	µg/L	1.543	1.279	1.2	0.827
	Uranium-233/234	pCi/L	0.7079	0.5084	0.5837	0.5087
	Uranium-235	pCi/L	0.0624	0.04479 U	0.02361 U	0 U
X749-PZ14G	Uranium-236	pCi/L	0 U	-0.0101 U	-0.01059 U	0.01063 U
	Uranium-238	pCi/L	0.5131	0.4258	0.4011	0.2778
	Americium-241	pCi/L	-0.02 U	0.02927 U	-0.0585 U	0.01091 U
	Neptunium-237	pCi/L	-0.008 U	0 U	0.03395 U	0 U
	Plutonium-238	pCi/L	0.0314 U	0.01743 U	0.008473 U	0.03549 U
	Plutonium-239/240	pCi/L	0.0079 U	-0.0087 U	0.01693 U	-0.00886 U
	Technetium-99	pCi/L	-4.3 U	-1.99 U	-2.11 U	-1.57 U
	Uranium	µg/L	0.944	0.6424	0.4098	0.3445
X749-WPW	Uranium-233/234	pCi/L	1.087	0.2069	0.139	0.1129
	Uranium-235	pCi/L	0.0353 U	0 U	-0.01142 U	0.03481 U
	Uranium-236	pCi/L	0 U	0 U	0 U	0 U
	Uranium-238	pCi/L	0.314	0.2159	0.1387	0.1126
	Americium-241	pCi/L	1E-05 U		0.05535 U	
	Neptunium-237	pCi/L	0.0153 U		-0.049 U	
	Plutonium-238	pCi/L	0.0152 U		0.008229 U	
	Plutonium-239/240	pCi/L	0 U		2.732E-05 U	
X749-WPW	Technetium-99	pCi/L	23600		10000	
	Uranium	µg/L	1.767		1.819	
	Uranium-233/234	pCi/L	0.7799		0.7459	
	Uranium-235	pCi/L	0.0278 U		0.0239 U	
	Uranium-236	pCi/L	0.0083 U		0 U	
	Uranium-238	pCi/L	0.5912		0.6091	

Table 4.3. Volatile organic compounds detected at the Quadrant I Groundwater Investigative Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X230K-11G	Acetone	µg/L			3.7 J	
	Methylene chloride	µg/L			0.5 BJ	
X230K-15G	Methylene chloride	µg/L			0.58 BJ	
	Trichloroethene	µg/L			4.3	
X231A-01G	1,1,1-Trichloroethane	µg/L			0.37 J	
	1,1-Dichloroethane	µg/L			0.82 J	
	1,1-Dichloroethene	µg/L			1.4 J	
	Acetone	µg/L			2.8 J	
	Chloroform	µg/L			0.6 J	
	cis-1,2-Dichloroethene	µg/L			1.5 J	
	Methylene chloride	µg/L			0.55 BJ	
	Trichloroethene	µg/L			47	
	1,1,1-Trichloroethane	µg/L			3.8 J	
	1,1-Dichloroethane	µg/L			0.66 J	
	1,1-Dichloroethene	µg/L			19	
X231A-04G	Chloroform	µg/L			0.71 J	
	cis-1,2-Dichloroethene	µg/L			2.1 J	
	Methylene chloride	µg/L			1.4 BJ	
	Trichloroethene	µg/L			75	
	Acetone	µg/L	99 J		200 U	
	Chloroform	µg/L	66 J		48	
	cis-1,2-Dichloroethene	µg/L	34 J		34 J	
X231B-02G	Methylene chloride	µg/L	67 U		12 BJ	
	Trichloroethene	µg/L	660		820	
	1,1,1-Trichloroethane	µg/L	50 J		73 J	
	1,1-Dichloroethane	µg/L	59 J		130 J	
	1,1-Dichloroethene	µg/L	200		390	
X231B-03G	Acetone	µg/L	97 J		1000 U	
	Chloroform	µg/L	16 J		36 J	
	cis-1,2-Dichloroethene	µg/L	30 J		47 J	
	Methylene chloride	µg/L	67 U		54 BJ	
	Trichloroethene	µg/L	1100		2100	
	Acetone	µg/L	240		100 U	
	Chloroform	µg/L	16 J		9.8 J	
	cis-1,2-Dichloroethene	µg/L	22 J		15 J	
X231B-04G	Methylene chloride	µg/L	40 U		6.2 BJ	
	Trichloroethene	µg/L	430		340	
	1,1,1-Trichloroethane	µg/L	670		46	

**Table 4.3. Volatile organic compounds detected at the Quadrant I Groundwater Investigative Area
(continued)**

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-06G	1,1-Dichloroethane	µg/L	160		17 J	
	1,1-Dichloroethene	µg/L	540		60	
	1,2-Dichloroethane	µg/L	6.2 J		20 U	
	Acetone	µg/L	100 J		100 U	
	cis-1,2-Dichloroethene	µg/L	3.8 J		12 J	
	Methylene chloride	µg/L	40 U		10 BJ	
	Trichloroethene	µg/L	30 J		270	
X231B-08G	1,1-Dichloroethene	µg/L	1.7 J		1.3 J	
	cis-1,2-Dichloroethene	µg/L	0.91 J		0.52 J	
	Methylene chloride	µg/L	10 U		1.2 BJ	
	Trichloroethene	µg/L	95		75	
X231B-12G	1,1,1-Trichloroethane	µg/L	4.2		4.2	
	1,1-Dichloroethane	µg/L	0.29 J		0.22 J	
	1,1-Dichloroethene	µg/L	13		12	
	cis-1,2-Dichloroethene	µg/L	0.27 J		0.25 J	
	Methylene chloride	µg/L	2 U		0.43 BJ	
	Trichloroethene	µg/L	17		15	
X231B-14G	1,1,1-Trichloroethane	µg/L	8.9 J		8.5 J	
	1,1-Dichloroethene	µg/L	49		50	
	Acetone	µg/L	67 J		100 U	
	Chloroform	µg/L	1.7 J		20 U	
	cis-1,2-Dichloroethene	µg/L	10 J		12 J	
	Methylene chloride	µg/L	20 U		3.3 BJ	
	Trichloroethene	µg/L	200		230	
X231B-15G	1,1-Dichloroethene	µg/L	0.32 J		0.31 J	
	cis-1,2-Dichloroethene	µg/L	3		2.5	
	Methylene chloride	µg/L	2 U		0.35 BJ	
	trans-1,2-Dichloroethene	µg/L	0.79		0.63	
	Trichloroethene	µg/L	2.1		1.8 J	
X231B-16G	1,1,1-Trichloroethane	µg/L	1.8 J		1.9 J	
	1,1-Dichloroethane	µg/L	0.32 J		0.25 J	
	1,1-Dichloroethene	µg/L	8.3		7.8	
	cis-1,2-Dichloroethene	µg/L	0.28 J		0.25 J	
	Methylene chloride	µg/L	2 U		0.43 BJ	
	Trichloroethene	µg/L	0.6 J		0.58 J	
X231B-20G	cis-1,2-Dichloroethene	µg/L	1.8 J		1 J	
	Methylene chloride	µg/L	20 U		2.2 BJ	
	Trichloroethene	µg/L	140		120	

**Table 4.3. Volatile organic compounds detected at the Quadrant I Groundwater Investigative Area
(continued)**

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-23G	1,1,1-Trichloroethane	µg/L	1.1 J		0.95 J	
	1,1-Dichloroethane	µg/L	0.24 J		2 U	
	1,1-Dichloroethene	µg/L	4.2		3.3	
	cis-1,2-Dichloroethene	µg/L	0.53 J		0.35 J	
	Methylene chloride	µg/L	2 U		0.47 BJ	
	Trichloroethene	µg/L	4.8		4.8	
X231B-24B	Methylene chloride	µg/L			0.32 BJ	
X231B-27G	Methylene chloride	µg/L	2 U		0.5 BJ	
X231B-28G	Acetone	µg/L	10 U		3.9 J	
	cis-1,2-Dichloroethene	µg/L	0.33 J		0.22 J	
	Methylene chloride	µg/L	2 U		0.55 BJ	
	Trichloroethene	µg/L	1.5 J		0.95 J	
X231B-32B	Methylene chloride	µg/L			0.49 BJ	
	Trichloroethene	µg/L			0.28 J	
X231B-33B	Methylene chloride	µg/L			0.48 BJ	
X231B-34B	Acetone	µg/L			11	
	Methylene chloride	µg/L			0.47 BJ	
X231B-37G	1,1-Dichloroethane	µg/L	4.6		3.4	
	1,1-Dichloroethene	µg/L	5.2		4.7	
	Benzene	µg/L	0.2 J		0.23 J	
	Chloroethane	µg/L	2 U		0.38 J	
	cis-1,2-Dichloroethene	µg/L	7.8		10	
	Methylene chloride	µg/L	2 U		0.48 BJ	
	trans-1,2-Dichloroethene	µg/L	1.5		2.1	
	Trichloroethene	µg/L	29		29	
	Vinyl chloride	µg/L	0.42 J		0.45 J	
	Chloroform	µg/L	450		490	
X326-09G	cis-1,2-Dichloroethene	µg/L	29 J		400 U	
	Methylene chloride	µg/L	270 U		99 BJ	
	Trichloroethene	µg/L	4000		4500	
	Chloroform	µg/L	3.2		0.59 J	
X326-10G	cis-1,2-Dichloroethene	µg/L	2.5		1.3 J	
	Methylene chloride	µg/L	0.28 J		0.53 BJ	
	Trichloroethene	µg/L	24		11	
X626-07G	Chloroform	µg/L	4.9 J		40 U	
	Methylene chloride	µg/L	40 U		11 BJ	
	Trichloroethene	µg/L	690		480	
X749A-01G	Trichloroethene	µg/L		1.4 J		

**Table 4.3. Volatile organic compounds detected at the Quadrant I Groundwater Investigative Area
(continued)**

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749A-02G	Methylene chloride	µg/L		0.57 BJ		
X749A-03G	Methylene chloride	µg/L		0.57 BJ		
X749A-04G	Methylene chloride	µg/L		0.54 BJ		
X749A-07G	Methylene chloride	µg/L		0.55 BJ		
X749A-14G	Methylene chloride	µg/L		0.55 BJ		
X749A-16G	Methylene chloride	µg/L		0.5 BJ		
X770-MW17G	Acetone	µg/L	970 J		2000 U	
	cis-1,2-Dichloroethene	µg/L	340 J		330 J	
	Methylene chloride	µg/L	400 U		270 BJ	
	Trichloroethene	µg/L	6200		7900	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X230K-11G	Americium-241	pCi/L			-0.009008 U	
	Neptunium-237	pCi/L			0 U	
	Plutonium-238	pCi/L			8.771E-06 U	
	Plutonium-239/240	pCi/L			0.01756 U	
	Technetium-99	pCi/L			-3.89 U	
	Uranium	µg/L			0.1338	
	Uranium-233/234	pCi/L			0.08997	
	Uranium-235	pCi/L			1.109E-05 U	
	Uranium-236	pCi/L			0.009966 U	
	Uranium-238	pCi/L			0.0449	
X230K-15G	Americium-241	pCi/L			0.02831 U	
	Neptunium-237	pCi/L			1.129E-05 U	
	Plutonium-238	pCi/L			1.126E-05 U	
	Plutonium-239/240	pCi/L			-0.01126 U	
	Technetium-99	pCi/L			-1.97 U	
	Uranium	µg/L			0.1213 U	
	Uranium-233/234	pCi/L			0.08168	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.04075 U	
X231A-01G	Americium-241	pCi/L			0.06239 U	
	Neptunium-237	pCi/L			-0.04866 U	
	Plutonium-238	pCi/L			0.05477 U	
	Plutonium-239/240	pCi/L			1.194E-05 U	
	Technetium-99	pCi/L			6.38 U	
	Uranium	µg/L			35.28	
	Uranium-233/234	pCi/L			14.67	
	Uranium-235	pCi/L			0.5178	
	Uranium-236	pCi/L			0.05813 U	
	Uranium-238	pCi/L			11.81	
X231A-04G	Americium-241	pCi/L			0.01482 U	
	Neptunium-237	pCi/L			-0.04029 U	
	Plutonium-238	pCi/L			0.03017 U	
	Plutonium-239/240	pCi/L			0.0101 U	
	Technetium-99	pCi/L			-2.31 U	
	Uranium	µg/L			0.2845	
	Uranium-233/234	pCi/L			0.1065	
	Uranium-235	pCi/L			0 U	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231A-04G	Uranium-236	pCi/L			-0.01178 U	
	Uranium-238	pCi/L			0.09566	
X231B-02G	Americium-241	pCi/L	0.0338 U		0 U	
	Neptunium-237	pCi/L	-0.014 U		-0.01756 U	
	Plutonium-238	pCi/L	0.0273 U		0.02632 U	
	Plutonium-239/240	pCi/L	0.0205 U		0.01754 U	
	Technetium-99	pCi/L	19.6		24.9	
	Uranium	µg/L	0.294		0.1084 U	
	Uranium-233/234	pCi/L	0.198		0.1005	
	Uranium-235	pCi/L	0 U		1.126E-05 U	
	Uranium-236	pCi/L	0 U		-0.01011 U	
	Uranium-238	pCi/L	0.0988		0.03647 U	
X231B-03G	Americium-241	pCi/L	-0.023 U		0 U	
	Neptunium-237	pCi/L	-0.013 U		-0.06374 U	
	Plutonium-238	pCi/L	-0.034 U		0.01818 U	
	Plutonium-239/240	pCi/L	0.0135 U		1.816E-05 U	
	Technetium-99	pCi/L	5.7 U		11.7	
	Uranium	µg/L	0.5073		0.3437	
	Uranium-233/234	pCi/L	0.2656		0.2367	
	Uranium-235	pCi/L	0 U		0.02336 U	
	Uranium-236	pCi/L	0.0105 U		0 U	
	Uranium-238	pCi/L	0.1704		0.1134	
X231B-04G	Americium-241	pCi/L	1E-04 U		-0.009424 U	
	Neptunium-237	pCi/L	-0.044 U		-0.02822 U	
	Plutonium-238	pCi/L	-0.015 U		0.01879 U	
	Plutonium-239/240	pCi/L	0.0221 U		0 U	
	Technetium-99	pCi/L	14.4		15.9	
	Uranium	µg/L	2.202		1.27	
	Uranium-233/234	pCi/L	4.096		2.61	
	Uranium-235	pCi/L	0.1831		0.09053 U	
	Uranium-236	pCi/L	0.0194 U		0.01161 U	
	Uranium-238	pCi/L	0.7233		0.4185	
X231B-06G	Americium-241	pCi/L	0.0729 U		-0.01015 U	
	Neptunium-237	pCi/L	-0.025 U		0.01799 U	
	Plutonium-238	pCi/L	-0.084 U		-0.008952 U	
	Plutonium-239/240	pCi/L	0.0252 U		8.962E-06 U	
	Technetium-99	pCi/L	262		143	
	Uranium	µg/L	3.886		0.9191	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-06G	Uranium-233/234	pCi/L	3.921		0.9655	
	Uranium-235	pCi/L	0.0466 U		0.05015 U	
	Uranium-236	pCi/L	0.0419 U		0.01126 U	
	Uranium-238	pCi/L	1.301		0.3043	
X231B-08G	Americium-241	pCi/L	0.0755 U		0 U	
	Neptunium-237	pCi/L	-0.009 U		0.008649 U	
	Plutonium-238	pCi/L	0.0444 U		0.008625 U	
	Plutonium-239/240	pCi/L	0.0177 U		-0.01723 U	
	Technetium-99	pCi/L	0.762 U		0.651 U	
	Uranium	µg/L	0.4995		0.4587	
	Uranium-233/234	pCi/L	0.2258		0.1716	
	Uranium-235	pCi/L	0.0103 U		0.01114 U	
	Uranium-236	pCi/L	0 U		-0.009991 U	
	Uranium-238	pCi/L	0.1669		0.1532	
	Americium-241	pCi/L	0.0246 U		1.835E-05 U	
X231B-12G	Neptunium-237	pCi/L	-0.011 U		0 U	
	Plutonium-238	pCi/L	0.0106 U		0.01634 U	
	Plutonium-239/240	pCi/L	0.0106 U		0.04901 U	
	Technetium-99	pCi/L	3.38 U		-7.23 U	
	Uranium	µg/L	0.2062		0.2786	
	Uranium-233/234	pCi/L	0.0457 U		0.1562	
	Uranium-235	pCi/L	0.0094 U		0 U	
	Uranium-236	pCi/L	8E-06 U		0.01153 U	
	Uranium-238	pCi/L	0.0684		0.09354	
	Americium-241	pCi/L	-0.025 U		0 U	
	Neptunium-237	pCi/L	-0.039 U		-0.01569 U	
X231B-14G	Plutonium-238	pCi/L	-0.008 U		0.01568 U	
	Plutonium-239/240	pCi/L	2E-05 U		0 U	
	Technetium-99	pCi/L	1.02 U		-3.59 U	
	Uranium	µg/L	0.2947		0.2282	
	Uranium-233/234	pCi/L	0.1275 U		0.03788 U	
	Uranium-235	pCi/L	0.0121 U		0.01169 U	
	Uranium-236	pCi/L	0.0217 U		0.01049 U	
	Uranium-238	pCi/L	0.0978		0.0756	
	Americium-241	pCi/L	-0.009 U		0.009131 U	
	Neptunium-237	pCi/L	0.0089 U		-0.007196 U	
	Plutonium-238	pCi/L	0 U		0.007197 U	
X231B-15G	Plutonium-239/240	pCi/L	0.0265 U		0.007197 U	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-15G	Technetium-99	pCi/L	6.65 U		-3.03 U	
	Uranium	µg/L	0.3549		0.221 U	
	Uranium-233/234	pCi/L	0.1036		0.0744 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		0 U	
	Uranium-238	pCi/L	0.1192		0.07425 U	
X231B-16G	Americium-241	pCi/L	0.0183 U		0.01102 U	
	Neptunium-237	pCi/L	0.0111 U		-0.02701 U	
	Plutonium-238	pCi/L	0.0111 U		8.98E-06 U	
	Plutonium-239/240	pCi/L	0.0111 U		0.008988 U	
	Technetium-99	pCi/L	2.44 U		-2.91 U	
	Uranium	µg/L	0.2367		0.1659	
	Uranium-233/234	pCi/L	0.0942		0.04663 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		-0.01031 U	
	Uranium-238	pCi/L	0.0795		0.0558	
X231B-20G	Americium-241	pCi/L	0.0703 U		0.0389 U	
	Neptunium-237	pCi/L	0.0727 U		0 U	
	Plutonium-238	pCi/L	0.0453 U		0.02492 U	
	Plutonium-239/240	pCi/L	-0.009 U		8.298E-06 U	
	Technetium-99	pCi/L	-4.02 U		-2.21 U	
	Uranium	µg/L	0.4405		0.1805 U	
	Uranium-233/234	pCi/L	0.1474		0.139	
	Uranium-235	pCi/L	0.0101 U		0.01225 U	
	Uranium-236	pCi/L	2E-05 U		0.02199 U	
	Uranium-238	pCi/L	0.1471		0.05945 U	
X231B-23G	Americium-241	pCi/L	0.0093 U		1.026E-05 U	
	Neptunium-237	pCi/L	0 U		0 U	
	Plutonium-238	pCi/L	0.0082 U		0.01812 U	
	Plutonium-239/240	pCi/L	0.0082 U		9.051E-06 U	
	Technetium-99	pCi/L	4.8 U		0.0465 U	
	Uranium	µg/L	0.2738		0.2917	
	Uranium-233/234	pCi/L	0.1369		0.1277	
	Uranium-235	pCi/L	0.0094 U		0 U	
	Uranium-236	pCi/L	0.0084 U		-0.01087 U	
	Uranium-238	pCi/L	0.0911		0.09807	
X231B-24B	Americium-241	pCi/L			1.125E-05 U	
	Neptunium-237	pCi/L			0.00832 U	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-24B	Plutonium-238	pCi/L			0.01658 U	
	Plutonium-239/240	pCi/L			0.02486 U	
	Technetium-99	pCi/L			0.909 U	
	Uranium	µg/L			0.2863	
	Uranium-233/234	pCi/L			0.3596	
	Uranium-235	pCi/L			0.01305 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.09501	
X231B-27G	Americium-241	pCi/L	-0.009 U		0.01916 U	
	Neptunium-237	pCi/L	1E-05 U		0.03374 U	
	Plutonium-238	pCi/L	0.0098 U		0.02524 U	
	Plutonium-239/240	pCi/L	0.0098 U		0.02523 U	
	Technetium-99	pCi/L	2.05 U		-3.59 U	
	Uranium	µg/L	0.0506 U		0.05694 U	
	Uranium-233/234	pCi/L	0.0762		0.09992	
	Uranium-235	pCi/L	0 U		0.01121 U	
X231B-28G	Uranium-236	pCi/L	0.0188 U		0 U	
	Uranium-238	pCi/L	0.0169 U		0.01813 U	
	Americium-241	pCi/L	0.0089 U		-0.01097 U	
	Neptunium-237	pCi/L	0.0199 U		-0.007788 U	
	Plutonium-238	pCi/L	0.0297 U		0.02332 U	
	Plutonium-239/240	pCi/L	0 U		0.03109 U	
	Technetium-99	pCi/L	2.16 U		-7.67 U	
	Uranium	µg/L	0.4525		0.3016	
X231B-32B	Uranium-233/234	pCi/L	0.3511		0.2264	
	Uranium-235	pCi/L	0.0206 U		0.01035 U	
	Uranium-236	pCi/L	0 U		0 U	
	Uranium-238	pCi/L	0.1502		0.1004	
	Americium-241	pCi/L			0 U	
	Neptunium-237	pCi/L			-0.009371 U	
	Plutonium-238	pCi/L			0.009354 U	
	Plutonium-239/240	pCi/L			0.02806 U	
X231B-32B	Technetium-99	pCi/L			-7.12 U	
	Uranium	µg/L			0.2762	
	Uranium-233/234	pCi/L			0.2719	
	Uranium-235	pCi/L			-0.01289 U	
	Uranium-236	pCi/L			1.157E-05 U	
	Uranium-238	pCi/L			0.09395	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X231B-33B	Americium-241	pCi/L			9.23E-06 U	
	Neptunium-237	pCi/L			0.06415 U	
	Plutonium-238	pCi/L			0.02398 U	
	Plutonium-239/240	pCi/L			0.02398 U	
	Technetium-99	pCi/L			-6.06 U	
	Uranium	µg/L			0.2478	
	Uranium-233/234	pCi/L			0.19	
	Uranium-235	pCi/L			0.02232 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.08128	
X231B-34B	Americium-241	pCi/L			0.0102 U	
	Neptunium-237	pCi/L			0.01571 U	
	Plutonium-238	pCi/L			1.564E-05 U	
	Plutonium-239/240	pCi/L			0.01566 U	
	Technetium-99	pCi/L			-6.54 U	
	Uranium	µg/L			0.1439 U	
	Uranium-233/234	pCi/L			0.3195	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.04833 U	
X231B-37G	Americium-241	pCi/L	0.0183 U		0 U	
	Neptunium-237	pCi/L	0.0086 U		-0.03464 U	
	Plutonium-238	pCi/L	0.0597 U		0.02593 U	
	Plutonium-239/240	pCi/L	-0.009 U		0 U	
	Technetium-99	pCi/L	-2.43 U		-3.13 U	
	Uranium	µg/L	0.5225		0.3425	
	Uranium-233/234	pCi/L	0.1089		0.08795	
	Uranium-235	pCi/L	0 U		0.01085 U	
	Uranium-236	pCi/L	0 U		0 U	
	Uranium-238	pCi/L	0.1756		0.1141	
X326-09G	Americium-241	pCi/L	-0.009 U		0 U	
	Neptunium-237	pCi/L	0.0095 U		0.07536 U	
	Plutonium-238	pCi/L	0 U		0.01879 U	
	Plutonium-239/240	pCi/L	0.019 U		0.03757 U	
	Technetium-99	pCi/L	5.02 U		-1.82 U	
	Uranium	µg/L	0.1007 U		0.1199 U	
	Uranium-233/234	pCi/L	0.0784		0.1008	
	Uranium-235	pCi/L	-0.011 U		0 U	

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X326-09G	Uranium-236	pCi/L	0 U		0.01116 U	
	Uranium-238	pCi/L	0.0348 U		0.04023 U	
X326-10G	Americium-241	pCi/L	0.0197 U		0 U	
	Neptunium-237	pCi/L	0.0074 U		-0.02632 U	
	Plutonium-238	pCi/L	0.0294 U		-0.008745 U	
	Plutonium-239/240	pCi/L	0.0221 U		0.01754 U	
	Technetium-99	pCi/L	3.72 U		2.57 U	
	Uranium	µg/L	2.975		5.895	
	Uranium-233/234	pCi/L	0.9495		2.435	
	Uranium-235	pCi/L	0.0207 U		0.1136	
	Uranium-236	pCi/L	0.0093 U		0.01133 U	
	Uranium-238	pCi/L	0.9979		1.971	
X626-07G	Americium-241	pCi/L	9E-06 U		0.03685 U	
	Neptunium-237	pCi/L	0.0096 U		0.02595 U	
	Plutonium-238	pCi/L	0.0096 U		0.01725 U	
	Plutonium-239/240	pCi/L	0 U		0.01725 U	
	Technetium-99	pCi/L	8.34 U		2.07 U	
	Uranium	µg/L	0.2541		0.1951 U	
	Uranium-233/234	pCi/L	0.1369		0.1141 U	
	Uranium-235	pCi/L	0 U		0.03836	
	Uranium-236	pCi/L	-0.009 U		0.01148 U	
	Uranium-238	pCi/L	0.0854		0.06207 U	
X749A-01G	Americium-241	pCi/L		-0.0111 U		0.01051 U
	Neptunium-237	pCi/L		0 U		0.007702 U
	Plutonium-238	pCi/L		0.01064 U		0.03072 U
	Plutonium-239/240	pCi/L		0.01064 U		0.01537 U
	Technetium-99	pCi/L		-5.52 U		-0.936 U
	Uranium	µg/L		0.5193		0.3268
	Uranium-233/234	pCi/L		0.1634		0.2163
	Uranium-235	pCi/L		0.0126 U		0.02052 U
	Uranium-236	pCi/L		0.02262 U		0.009214 U
	Uranium-238	pCi/L		0.1733		0.1079
X749A-02G	Americium-241	pCi/L		0.0119 U		0.0357 U
	Neptunium-237	pCi/L		2.8E-05 U		0.01761 U
	Plutonium-238	pCi/L		0.01849 U		0.01755 U
	Plutonium-239/240	pCi/L		0.01849 U		-0.00877 U
	Technetium-99	pCi/L		0.191 U		-1.33 U
	Uranium	µg/L		0.2934 U		0.1828

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749A-02G	Uranium-233/234	pCi/L		0.1207		0.1757
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0 U		0.009732 U
	Uranium-238	pCi/L		0.09858 U		0.06138
X749A-03G	Americium-241	pCi/L		-0.0205 U		0.0356 U
	Neptunium-237	pCi/L		0.00803 U		0.01645 U
	Plutonium-238	pCi/L		0.05604		0.008204 U
	Plutonium-239/240	pCi/L		0.02402 U		8.19E-06 U
	Technetium-99	pCi/L		0.608 U		-3.22 U
	Uranium	µg/L		0.5772		0.3465
	Uranium-233/234	pCi/L		0.2542		0.2167
	Uranium-235	pCi/L		0.01254 U		0 U
	Uranium-236	pCi/L		0.01126 U		0 U
	Uranium-238	pCi/L		0.1928		0.1164
X749A-04G	Americium-241	pCi/L		-0.0100 U		0.008452 U
	Neptunium-237	pCi/L		0 U		-0.00748 U
	Plutonium-238	pCi/L		0.0315 U		0.02988 U
	Plutonium-239/240	pCi/L		1.0E-05 U		0.01494 U
	Technetium-99	pCi/L		-2.39 U		-1.77 U
	Uranium	µg/L		0.1383 U		0.05061 U
	Uranium-233/234	pCi/L		0.07169		0.008563 U
	Uranium-235	pCi/L		-0.0147 U		0 U
	Uranium-236	pCi/L		0.01323 U		-0.00946 U
	Uranium-238	pCi/L		0.04771 U		0.01706 U
X749A-05G	Americium-241	pCi/L		-0.0105 U		0 U
	Neptunium-237	pCi/L		-0.0361 U		0.007438 U
	Plutonium-238	pCi/L		-0.0359 U		0.007417 U
	Plutonium-239/240	pCi/L		1.0E-05 U		7.41E-06 U
	Technetium-99	pCi/L		-1.61 U		-2.05 U
	Uranium	µg/L		0.2314		0.09728 U
	Uranium-233/234	pCi/L		0.07791		-0.02453 U
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.07775		0.03269 U
X749A-07G	Americium-241	pCi/L		-0.0187 U		9.93E-06 U
	Neptunium-237	pCi/L		0.00945 U		-0.00662 U
	Plutonium-238	pCi/L		0.00943 U		0.006624 U
	Plutonium-239/240	pCi/L		0 U		6.62E-06 U

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749A-07G	Technetium-99	pCi/L		-4.57 U		-0.153 U
	Uranium	µg/L		6.814		4.971
	Uranium-233/234	pCi/L		3.233		2.146
	Uranium-235	pCi/L		0.1224		0.06431
	Uranium-236	pCi/L		0.01571 U		-0.00961 U
	Uranium-238	pCi/L		2.278		1.665
X749A-12G	Americium-241	pCi/L		0.03011 U		0 U
	Neptunium-237	pCi/L		-0.0209 U		0.01625 U
	Plutonium-238	pCi/L		0.01041 U		0.008118 U
	Plutonium-239/240	pCi/L		1.0E-05 U		0.01622 U
	Technetium-99	pCi/L		-4.72 U		0.169 U
	Uranium	µg/L		0.1463		0.05729 U
	Uranium-233/234	pCi/L		0.1038		-0.01014 U
	Uranium-235	pCi/L		0.02328 U		-0.01257 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.04708		0.02037 U
X749A-13GA	Americium-241	pCi/L		-0.0086 U		0 U
	Neptunium-237	pCi/L		-0.0104 U		1.49E-05 U
	Plutonium-238	pCi/L		0.04146 U		0.02967 U
	Plutonium-239/240	pCi/L		0.02072 U		0.01483 U
	Technetium-99	pCi/L		-3.1 U		-0.29 U
	Uranium	µg/L		2.177		1.47
	Uranium-233/234	pCi/L		0.8579		0.7369
	Uranium-235	pCi/L		0.03969 U		0.0404 U
	Uranium-236	pCi/L		0.01188 U		0 U
	Uranium-238	pCi/L		0.7278		0.4902
X749A-14G	Americium-241	pCi/L		0 U		-0.01724 U
	Neptunium-237	pCi/L		1.2E-05 U		7.79E-06 U
	Plutonium-238	pCi/L		1.2E-05 U		0.007773 U
	Plutonium-239/240	pCi/L		0.03504 U		7.77E-06 U
	Technetium-99	pCi/L		-3.99 U		0.923 U
	Uranium	µg/L		0.28		0.07849 U
	Uranium-233/234	pCi/L		0.03586 U		0.0352 U
	Uranium-235	pCi/L		-0.0147 U		0 U
	Uranium-236	pCi/L		0 U		0.009732 U
	Uranium-238	pCi/L		0.0954		0.02632 U
X749A-16G	Americium-241	pCi/L		2.9E-05 U		-0.00867 U
	Neptunium-237	pCi/L		0 U		0.02907 U

Table 4.4. Results for radionuclides at the Quadrant I Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X749A-16G	Plutonium-238	pCi/L		0.01723 U		0.009662 U
	Plutonium-239/240	pCi/L		0.00861 U		0.02899 U
	Technetium-99	pCi/L		-3.68 U		-1.63 U
	Uranium	µg/L		0.6866		0.3139
	Uranium-233/234	pCi/L		0.3138		0.08803
	Uranium-235	pCi/L		-0.0143 U		0 U
	Uranium-236	pCi/L		1.3E-05 U		0.00975 U
	Uranium-238	pCi/L		0.232		0.1054
X770-MW17G	Americium-241	pCi/L	0.0077 U		0.01765 U	
	Neptunium-237	pCi/L	-0.009 U		0.01597 U	
	Plutonium-238	pCi/L	0.0092 U		7.94E-06 U	
	Plutonium-239/240	pCi/L	0.0092 U		0.0159 U	
	Technetium-99	pCi/L	0.141 U		5.92 U	
	Uranium	µg/L	0.526		2.748	
	Uranium-233/234	pCi/L	0.2144		1.04	
	Uranium-235	pCi/L	0 U		0.03346 U	
	Uranium-236	pCi/L	0 U		0 U	
	Uranium-238	pCi/L	0.1767		0.9205	

Table 4.5. Volatile organic compounds detected at the Quadrant II Groundwater Investigative Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X700-02G	1,1-Dichloroethene	µg/L			110 J	
	cis-1,2-Dichloroethene	µg/L			75 J	
	Trichloroethene	µg/L			7600	
X701-45G	1,1-Dichloroethane	µg/L			0.27 J	
	1,1-Dichloroethene	µg/L			0.68 J	
	Methylene chloride	µg/L			0.48 BJ	
	Trichloroethene	µg/L			1.1 J	
X701-68G	1,1-Dichloroethene	µg/L			1.1 J	
	cis-1,2-Dichloroethene	µg/L			3.7 J	
	Methylene chloride	µg/L			3.3 BJ	
	Trichloroethene	µg/L			210	
X701-69G	Acetone	µg/L			460 J	
	Carbon disulfide	µg/L			22 J	
	cis-1,2-Dichloroethene	µg/L			500	
	Methylene chloride	µg/L			54 BJ	
	trans-1,2-Dichloroethene	µg/L			18 J	
	Trichloroethene	µg/L			2800	
X701-70G	1,1-Dichloroethene	µg/L			6.1 J	
	Methylene chloride	µg/L			18 BJ	
	Trichloroethene	µg/L			730	
X701-117GA	cis-1,2-Dichloroethene	µg/L			4.6 J	
	Methylene chloride	µg/L			4.5 BJ	
	Trichloroethene	µg/L			180	
X705-01GA	Chloroform	µg/L			15	
	Trichloroethene	µg/L			140	
X705-04G	1,1-Dichloroethene	µg/L			7 J	
	Carbon tetrachloride	µg/L			19 J	
	Chloroform	µg/L			260	
	Methylene chloride	µg/L			6.1 J	
	Trichloroethene	µg/L			380	
X705-07G	Bromodichloromethane	µg/L			0.26 J	
	Chloroform	µg/L			1.2 J	
	cis-1,2-Dichloroethene	µg/L			0.79 J	
	Methylene chloride	µg/L			0.21 J	
	Trichloroethene	µg/L			20	
	Trichlorofluoromethane	µg/L			0.63 J	
X720-01G	1,1,1-Trichloroethane	µg/L			1200 J	
	1,1-Dichloroethene	µg/L			1500 J	

Table 4.6. Results for radionuclides at the Quadrant II Groundwater Investigative Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X700-02G	Americium-241	pCi/L			1.162E-05 U	
	Neptunium-237	pCi/L			0 U	
	Plutonium-238	pCi/L			1.262E-05 U	
	Plutonium-239/240	pCi/L			-0.02522 U	
	Technetium-99	pCi/L			89.6	
	Uranium	µg/L			1.227	
	Uranium-233/234	pCi/L			0.4946	
	Uranium-235	pCi/L			0.01131 U	
	Uranium-236	pCi/L			-0.03041 U	
	Uranium-238	pCi/L			0.4114	
X701-45G	Americium-241	pCi/L			-0.03386 U	
	Neptunium-237	pCi/L			0 U	
	Plutonium-238	pCi/L			0.0305 U	
	Plutonium-239/240	pCi/L			-0.01016 U	
	Technetium-99	pCi/L			2.08 U	
	Uranium	µg/L			0.4317	
	Uranium-233/234	pCi/L			0.2811	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			-0.01073 U	
	Uranium-238	pCi/L			0.1451	
X701-68G	Americium-241	pCi/L			0.02847 U	
	Neptunium-237	pCi/L			0.01397 U	
	Plutonium-238	pCi/L			0.01392 U	
	Plutonium-239/240	pCi/L			0.006962 U	
	Technetium-99	pCi/L			23.1	
	Uranium	µg/L			1.968	
	Uranium-233/234	pCi/L			0.6801	
	Uranium-235	pCi/L			0.02432 U	
	Uranium-236	pCi/L			0.01092 U	
	Uranium-238	pCi/L			0.6591	
X701-69G	Americium-241	pCi/L			0.01963 U	
	Neptunium-237	pCi/L			0 U	
	Plutonium-238	pCi/L			0.02644 U	
	Plutonium-239/240	pCi/L			0.008815 U	
	Technetium-99	pCi/L			2.96 U	
	Uranium	µg/L			7.264	
	Uranium-233/234	pCi/L			3.109	
	Uranium-235	pCi/L			0.1055	

Table 4.6. Results for radionuclides at the Quadrant II Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-69G	Uranium-236	pCi/L			0.01184 U	
	Uranium-238	pCi/L			2.431	
X701-70G	Americium-241	pCi/L			-0.009044 U	
	Neptunium-237	pCi/L			8.603E-06 U	
	Plutonium-238	pCi/L			0.03435 U	
	Plutonium-239/240	pCi/L			0.02576 U	
	Technetium-99	pCi/L			40.8	
	Uranium	µg/L			2.359	
	Uranium-233/234	pCi/L			1.321	
	Uranium-235	pCi/L			0.02172 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.7908	
X701-117GA	Americium-241	pCi/L			0.01018 U	
	Neptunium-237	pCi/L			-0.01523 U	
	Plutonium-238	pCi/L			0 U	
	Plutonium-239/240	pCi/L			0.007608 U	
	Technetium-99	pCi/L			47.7	
	Uranium	µg/L			2.798	
	Uranium-233/234	pCi/L			1.421	
	Uranium-235	pCi/L			0.08583	
	Uranium-236	pCi/L			0.02202 U	
	Uranium-238	pCi/L			0.9325	
X705-01GA	Americium-241	pCi/L			-0.01925 U	
	Neptunium-237	pCi/L			1.028E-05 U	
	Plutonium-238	pCi/L			1.025E-05 U	
	Plutonium-239/240	pCi/L			0.02052 U	
	Technetium-99	pCi/L			1380	
	Uranium	µg/L			1.048	
	Uranium-233/234	pCi/L			0.534	
	Uranium-235	pCi/L			0.03593 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.3488	
X705-04G	Americium-241	pCi/L			0.02122 U	
	Neptunium-237	pCi/L			-0.01562 U	
	Plutonium-238	pCi/L			0.01561 U	
	Plutonium-239/240	pCi/L			0.01562 U	
	Technetium-99	pCi/L			19.1	
	Uranium	µg/L			2.907	

Table 4.6. Results for radionuclides at the Quadrant II Groundwater Investigative Area (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X705-04G	Uranium-233/234	pCi/L			1.666	
	Uranium-235	pCi/L			0.03759 U	
	Uranium-236	pCi/L			0.01125 U	
	Uranium-238	pCi/L			0.9732	
X705-07G	Americium-241	pCi/L			-0.00934 U	
	Neptunium-237	pCi/L			1.212E-05 U	
	Plutonium-238	pCi/L			0 U	
	Plutonium-239/240	pCi/L			0.0242 U	
	Technetium-99	pCi/L			312	
	Uranium	µg/L			1.927	
	Uranium-233/234	pCi/L			0.629	
	Uranium-235	pCi/L			0.02217 U	
	Uranium-236	pCi/L			-0.009942 U	
	Uranium-238	pCi/L			0.6456	
	Americium-241	pCi/L			-0.02647 U	
	Neptunium-237	pCi/L			0.01044 U	
X720-01G	Plutonium-238	pCi/L			0.03119 U	
	Plutonium-239/240	pCi/L			0.03119 U	
	Technetium-99	pCi/L			10.4	
	Uranium	µg/L			19.34	
	Uranium-233/234	pCi/L			6.385	
	Uranium-235	pCi/L			0.3926	
	Uranium-236	pCi/L			0.03411 U	
	Uranium-238	pCi/L			6.464	
	Americium-241	pCi/L			-0.009837 U	
	Neptunium-237	pCi/L			0.01356 U	
	Plutonium-238	pCi/L			-0.01351 U	
	Plutonium-239/240	pCi/L			-0.02702 U	
X720-08G	Technetium-99	pCi/L			214	
	Uranium	µg/L			4.138	
	Uranium-233/234	pCi/L			1.49	
	Uranium-235	pCi/L			0.08197	
	Uranium-236	pCi/L			-0.0105 U	
	Uranium-238	pCi/L			1.383	

Table 4.7. Volatile organic compounds detected at the X-701B Holding Pond

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
LBC-PZ03	Benzene	µg/L	0.32 J		20 U	
	cis-1,2-Dichloroethene	µg/L	21		190	
	M + P Xylene	µg/L	0.29 J		20 U	
	Methylene chloride	µg/L	0.64 BJ		5.5 J	
	Toluene	µg/L	1 J		20 U	
	trans-1,2-Dichloroethene	µg/L	0.33 J		2.1 J	
	Trichloroethene	µg/L	41		180	
LBC-PZ06	Acetone	µg/L	3.5 J		10 U	
	Methylene chloride	µg/L	0.74 BJ		2 U	
	Trichloroethene	µg/L	2 U		0.34 J	
X230J7-01GA	Methylene chloride	µg/L	2.1 BJ			
	Trichloroethene	µg/L	190			
X230J7-02GA	Methylene chloride	µg/L	14 BJ			
	Trichloroethene	µg/L	1300			
X230J7-03GA	cis-1,2-Dichloroethene	µg/L	160 J			
	Methylene chloride	µg/L	39 BJ			
	Trichloroethene	µg/L	3700			
X700-03G	Methylene chloride	µg/L	0.42 BJ			
X701-01G	1,1-Dichloroethene	µg/L	0.23 J		2 U	
	cis-1,2-Dichloroethene	µg/L	2.6		1.9 J	
	Methylene chloride	µg/L	2 U		0.71 BJ	
	Trichloroethene	µg/L	16		11	
X701-02G	cis-1,2-Dichloroethene	µg/L	3.2		9.2	
	Trichloroethene	µg/L	3.5		8.1	
X701-05G	1,1-Dichloroethene	µg/L	0.47 J		4.9 J	
	cis-1,2-Dichloroethene	µg/L	2 U		0.73 J	
	Trichloroethene	µg/L	19		160	
X701-06G	1,1-Dichloroethene	µg/L	1.6 J		1.7 J	
	Acetone	µg/L	8.8 J		20 U	
	cis-1,2-Dichloroethene	µg/L	11		17	
	trans-1,2-Dichloroethene	µg/L	1.7 U		1	
	Trichloroethene	µg/L	130		110	
X701-08G	cis-1,2-Dichloroethene	µg/L			610 J	
	Methylene chloride	µg/L			2800 BJ	
	Trichloroethene	µg/L			76000	
X701-09G	cis-1,2-Dichloroethene	µg/L	18000 J			
	Trichloroethene	µg/L	600000			
X701-10G	cis-1,2-Dichloroethene	µg/L	210		160 J	

Table 4.7. Volatile organic compounds detected at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-10G	Methylene chloride	µg/L	33 BJ		130 J	
	Trichloroethene	µg/L	3000		3400	
	Vinyl chloride	µg/L	66 J		200 U	
X701-12G	1,2-Dichlorobenzene	µg/L	0.49 J		0.55 J	
	Chlorobenzene	µg/L	0.24 J		2 U	
	cis-1,2-Dichloroethene	µg/L	25		37	
	Tetrachloroethene	µg/L	0.29 J		0.32 J	
	Trichloroethene	µg/L	17		29	
	Vinyl chloride	µg/L	1.4		1.7	
X701-13G	cis-1,2-Dichloroethene	µg/L	180		150 J	
	Methylene chloride	µg/L	130 U		64 J	
	Trichloroethene	µg/L	2100		1400	
X701-14G	cis-1,2-Dichloroethene	µg/L	3700 J			
	Trichloroethene	µg/L	80000			
X701-15G	cis-1,2-Dichloroethene	µg/L	8.5		12	
	trans-1,2-Dichloroethene	µg/L	0.21 J		0.67	
	Trichloroethene	µg/L	2.5		5.9	
X701-16G	Trichloroethene	µg/L	2 U		0.16 J	
X701-18G	Methylene chloride	µg/L			0.52 BJ	
X701-19G	Methylene chloride	µg/L	2 U		0.57 BJ	
X701-20G	Methylene chloride	µg/L	7.2 BJ			
	Trichloroethene	µg/L	210			
X701-21G	1,2-Dichlorobenzene	µg/L	0.29 J		5 U	
	cis-1,2-Dichloroethene	µg/L	0.77 J		1.3 J	
	Methylene chloride	µg/L	0.69 BJ		1.4 J	
	Trichloroethene	µg/L	39		99	
X701-23G	Trichloroethene	µg/L			2.5	
X701-24G	Acetone	µg/L	19000		3300 U	
	cis-1,2-Dichloroethene	µg/L	1500		1100	
	Methylene chloride	µg/L	440 BJ		170 J	
	Trichloroethene	µg/L	16000		7700	
X701-25G	Methylene chloride	µg/L	2 U		0.6 BJ	
X701-30G	cis-1,2-Dichloroethene	µg/L	0.69 J		0.57 J	
	Trichloroethene	µg/L	14		12	
	Trichlorofluoromethane	µg/L	2.7		1.7 J	
X701-38G	1,2-Dichlorobenzene	µg/L			0.47 J	
	Chloroform	µg/L			1.9 J	
	Methylene chloride	µg/L			0.61 BJ	

Table 4.7. Volatile organic compounds detected at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-48G	Methylene chloride	µg/L			0.48 BJ	
X701-58B	Benzene	µg/L			0.57 J	
X701-61B	4-Methyl-2-pentanone	µg/L			5.2	
	cis-1,2-Dichloroethene	µg/L			0.94 J	
	M + P Xylene	µg/L			1.8 J	
	Trichloroethene	µg/L			1.5 J	
X701-127G	1,1,2-Trichloroethane	µg/L	16000 U		120 J	
	cis-1,2-Dichloroethene	µg/L	16000 U		850	
	Methylene chloride	µg/L	5100 BJ		800 U	
	Trichloroethene	µg/L	130000		97000	
X701-128G	Methylene chloride	µg/L	0.72 BJ		350 J	
	Trichloroethene	µg/L	24		19000	
X701-BW1G	Acetone	µg/L			4.2 J	
	Methylene chloride	µg/L			0.6 BJ	
X701-BW2G	1,1-Dichloroethene	µg/L	9.1 J			
	cis-1,2-Dichloroethene	µg/L	110			
	Methylene chloride	µg/L	9.2 BJ			
	trans-1,2-Dichloroethene	µg/L	4.2 J			
	Trichloroethene	µg/L	750			
X701-BW4G	cis-1,2-Dichloroethene	µg/L	0.8 J		1.1 J	
	Methylene chloride	µg/L	0.45 BJ		2 U	
	Trichloroethene	µg/L	1 J		1.3 J	
X744G-01G	Methylene chloride	µg/L	0.47 BJ		2 U	
X744G-02G	cis-1,2-Dichloroethene	µg/L	1.8 J		1 J	
	Methylene chloride	µg/L	0.49 BJ		0.71 BJ	
	Trichloroethene	µg/L	30		16	
	Trichlorofluoromethane	µg/L	1.2 J		0.92 J	
X744G-03G	Methylene chloride	µg/L	0.51 BJ		2 U	
	Trichloroethene	µg/L	0.29 J		0.2 J	

Table 4.8. Results for radionuclides at the X-701B Holding Pond

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
LBC-PZ03	Americium-241	pCi/L	0.0186 U		0 U	
	Neptunium-237	pCi/L	0.0077 U		-0.0303 U	
	Plutonium-238	pCi/L	0.0154 U		0.0002048 U	
	Plutonium-239/240	pCi/L	0.0077 U		0.01011 U	
	Technetium-99	pCi/L	-2.52 U		-5.94 U	
	Uranium	µg/L	0.0298 U		0.1213 U	
	Uranium-233/234	pCi/L	0.0653 U		0.09186	
	Uranium-235	pCi/L	0.0201 U		0 U	
	Uranium-236	pCi/L	0.0090 U		0 U	
	Uranium-238	pCi/L	0.0082 U		0.04075 U	
LBC-PZ06	Americium-241	pCi/L	0.029 U		0 U	
	Neptunium-237	pCi/L	0 U		-0.02461 U	
	Plutonium-238	pCi/L	0.0163 U		0.03282 U	
	Plutonium-239/240	pCi/L	-0.008 U		0.03282 U	
	Technetium-99	pCi/L	-2.4 U		-2.43 U	
	Uranium	µg/L	0.1834		0.2949	
	Uranium-233/234	pCi/L	0.0761		0.1445	
	Uranium-235	pCi/L	0.0094 U		0 U	
	Uranium-236	pCi/L	0.0084 U		0 U	
	Uranium-238	pCi/L	0.0607		0.0991	
X230J7-01GA	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0 U			
	Plutonium-238	pCi/L	0.0167 U			
	Plutonium-239/240	pCi/L	-0.008 U			
	Technetium-99	pCi/L	0.192 U			
	Uranium	µg/L	0.2243			
	Uranium-233/234	pCi/L	0.0573			
	Uranium-235	pCi/L	0.0202 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.0736			
X230J7-02GA	Americium-241	pCi/L	2E-05 U			
	Neptunium-237	pCi/L	0.0075 U			
	Plutonium-238	pCi/L	0.0149 U			
	Plutonium-239/240	pCi/L	-0.007 U			
	Technetium-99	pCi/L	21.5			
	Uranium	µg/L	0.2427			
	Uranium-233/234	pCi/L	0.2063			
	Uranium-235	pCi/L	0.0111 U			

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X230J7-02GA	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.0806			
X230J7-03GA	Americium-241	pCi/L	-0.032 U			
	Neptunium-237	pCi/L	0 U			
	Plutonium-238	pCi/L	0.0245 U			
	Plutonium-239/240	pCi/L	0.0082 U			
	Technetium-99	pCi/L	28.2			
	Uranium	µg/L	0.4626			
	Uranium-233/234	pCi/L	0.1464			
	Uranium-235	pCi/L	-0.013 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.1566			
	Americium-241	pCi/L			0.02848 U	
	Neptunium-237	pCi/L			0.03235 U	
X230J7-04GA	Plutonium-238	pCi/L			0.03225 U	
	Plutonium-239/240	pCi/L			0.02419 U	
	Technetium-99	pCi/L			3.66 U	
	Uranium	µg/L			0.2142	
	Uranium-233/234	pCi/L			0.1153	
	Uranium-235	pCi/L			0.01094 U	
	Uranium-236	pCi/L			0.02948 U	
	Uranium-238	pCi/L			0.07084	
X700-03G	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0 U			
	Plutonium-238	pCi/L	-0.008 U			
	Plutonium-239/240	pCi/L	-0.008 U			
	Technetium-99	pCi/L	1.25 U			
	Uranium	µg/L	0.1445			
	Uranium-233/234	pCi/L	0.1116			
	Uranium-235	pCi/L	0.0098 U			
	Uranium-236	pCi/L	-0.009 U			
X701-02G	Uranium-238	pCi/L	0.0477			
	Americium-241	pCi/L	0 U		0.01023 U	
	Neptunium-237	pCi/L	0.0092 U		-0.008762 U	
	Plutonium-238	pCi/L	0.0275 U		8.755E-06 U	
	Plutonium-239/240	pCi/L	0 U		8.755E-06 U	
	Technetium-99	pCi/L	7.84 U		-1.58 U	
	Uranium	µg/L	1.063		0.5197	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-02G	Uranium-233/234	pCi/L	0.972		0.5311	
	Uranium-235	pCi/L	0.0375 U		0.01191 U	
	Uranium-236	pCi/L	0 U		0.0107 U	
	Uranium-238	pCi/L	0.3537		0.1735	
X701-05G	Americium-241	pCi/L	0.0081 U		0.008758 U	
	Neptunium-237	pCi/L	-0.015 U		-0.09944 U	
	Plutonium-238	pCi/L	0.015 U		2.479E-05 U	
	Plutonium-239/240	pCi/L	0.015 U		-0.03304 U	
	Technetium-99	pCi/L	345		47.3	
	Uranium	µg/L	93.56		14.63	
	Uranium-233/234	pCi/L	174.5		28.29	
	Uranium-235	pCi/L	8.275		1.121	
	Uranium-236	pCi/L	1.013		0.1936	
	Uranium-238	pCi/L	30.69		4.814	
	Americium-241	pCi/L	0.0085 U		8.575E-06 U	
	Neptunium-237	pCi/L	0 U		-0.01596 U	
X701-06G	Plutonium-238	pCi/L	0 U		0.02393 U	
	Plutonium-239/240	pCi/L	0.0245 U		-0.007951 U	
	Technetium-99	pCi/L	14.9		5.46 U	
	Uranium	µg/L	2.708		0.2222 U	
	Uranium-233/234	pCi/L	0.5135		0.08414	
	Uranium-235	pCi/L	0.012 U		0 U	
	Uranium-236	pCi/L	0.0215 U		0 U	
	Uranium-238	pCi/L	0.9089		0.07466 U	
	Americium-241	pCi/L			0.02033 U	
	Neptunium-237	pCi/L			0.02472 U	
X701-08G	Plutonium-238	pCi/L			8.204E-06 U	
	Plutonium-239/240	pCi/L			0.02463 U	
	Technetium-99	pCi/L			504	
	Uranium	µg/L			0.08715 U	
	Uranium-233/234	pCi/L			0.0273 U	
	Uranium-235	pCi/L			0.02244 U	
	Uranium-236	pCi/L			0.01007 U	
	Uranium-238	pCi/L			0.02723 U	
	Americium-241	pCi/L	0.0382 U			
	Neptunium-237	pCi/L	0 U			
X701-09G	Plutonium-238	pCi/L	8E-06 U			
	Plutonium-239/240	pCi/L	8E-06 U			

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-09G	Technetium-99	pCi/L	70.8			
	Uranium	µg/L	0.2935			
	Uranium-233/234	pCi/L	0.0967			
	Uranium-235	pCi/L	0.0239 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.0965			
X701-10G	Americium-241	pCi/L	0 U		-0.01032 U	
	Neptunium-237	pCi/L	0.0078 U		-0.04096 U	
	Plutonium-238	pCi/L	0.0156 U		-0.008173 U	
	Plutonium-239/240	pCi/L	0.0078 U		-0.01632 U	
	Technetium-99	pCi/L	-0.906 U		0.514 U	
	Uranium	µg/L	0.2595		0.1942	
	Uranium-233/234	pCi/L	0.166		0.0748	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		-0.01034 U	
	Uranium-238	pCi/L	0.0872		0.06531	
X701-12G	Americium-241	pCi/L	0.0184 U		1.931E-05 U	
	Neptunium-237	pCi/L	0.0090 U		0.01559 U	
	Plutonium-238	pCi/L	0.009 U		0.03102 U	
	Plutonium-239/240	pCi/L	2E-05 U		7.745E-06 U	
	Technetium-99	pCi/L	537		579	
	Uranium	µg/L	0.3177		0.05424 U	
	Uranium-233/234	pCi/L	0.0876		0.02739 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	-0.011 U		0.0000101 U	
	Uranium-238	pCi/L	0.1068		0.01822 U	
X701-13G	Americium-241	pCi/L	0.0089 U		0.0231 U	
	Neptunium-237	pCi/L	0 U		-0.03388 U	
	Plutonium-238	pCi/L	0.0354 U		1.691E-05 U	
	Plutonium-239/240	pCi/L	0.0089 U		0.008462 U	
	Technetium-99	pCi/L	238		641	
	Uranium	µg/L	0.1898 U		0.4143	
	Uranium-233/234	pCi/L	0.1643		0.07519 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		-0.02377 U	
	Uranium-238	pCi/L	0.0638 U		0.1393	
X701-14G	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	-0.008 U			

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-14G	Plutonium-238	pCi/L	0.0167 U			
	Plutonium-239/240	pCi/L	0 U			
	Technetium-99	pCi/L	131			
	Uranium	µg/L	0.0635 U			
	Uranium-233/234	pCi/L	0.0427 U			
	Uranium-235	pCi/L	0 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.0213 U			
X701-15G	Americium-241	pCi/L	0.0177 U		0 U	
	Neptunium-237	pCi/L	0 U		-0.05294 U	
	Plutonium-238	pCi/L	0.0173 U		0.008858 U	
	Plutonium-239/240	pCi/L	6E-06 U		8.814E-06 U	
	Technetium-99	pCi/L	5.58 U		-4.26 U	
	Uranium	µg/L	0.1866		0.307	
	Uranium-233/234	pCi/L	0.0718		0.04231 U	
	Uranium-235	pCi/L	0 U		0.02087 U	
X701-16G	Uranium-236	pCi/L	0.0099 U		0 U	
	Uranium-238	pCi/L	0.0627		0.1013	
	Americium-241	pCi/L	-0.009 U		0.008873 U	
	Neptunium-237	pCi/L	0.0078 U		-0.05006 U	
	Plutonium-238	pCi/L	0.0155 U		0.03331 U	
	Plutonium-239/240	pCi/L	-0.008 U		0.008329 U	
	Technetium-99	pCi/L	5.63 U		-0.829 U	
	Uranium	µg/L	0.3014		0.3104	
X701-18G	Uranium-233/234	pCi/L	0.0913		0.1045 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		0 U	
	Uranium-238	pCi/L	0.1013		0.1043	
	Americium-241	pCi/L			0.01007 U	
	Neptunium-237	pCi/L			-0.03443 U	
	Plutonium-238	pCi/L			0.02589 U	
	Plutonium-239/240	pCi/L			8.619E-06 U	
	Technetium-99	pCi/L			-0.0661 U	
	Uranium	µg/L			0.02739 U	
	Uranium-233/234	pCi/L			0.06416	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0.01016 U	
	Uranium-238	pCi/L			0.009147 U	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-19G	Americium-241	pCi/L	-0.017 U		-0.0557 U	
	Neptunium-237	pCi/L	0.0164 U		-0.06299 U	
	Plutonium-238	pCi/L	0.0245 U		0.007862 U	
	Plutonium-239/240	pCi/L	8E-06 U		-0.007854 U	
	Technetium-99	pCi/L	3.9 U		0.273 U	
	Uranium	µg/L	0.0291 U		0.05442 U	
	Uranium-233/234	pCi/L	0.0591 U		-0.009677 U	
	Uranium-235	pCi/L	0 U		-0.01195 U	
	Uranium-236	pCi/L	-0.011 U		0 U	
	Uranium-238	pCi/L	0.0098 U		0.01935 U	
X701-20G	Americium-241	pCi/L	-0.010 U			
	Neptunium-237	pCi/L	0.0082 U			
	Plutonium-238	pCi/L	0.0247 U			
	Plutonium-239/240	pCi/L	-0.008 U			
	Technetium-99	pCi/L	118			
	Uranium	µg/L	0.1378			
	Uranium-233/234	pCi/L	0.0818			
	Uranium-235	pCi/L	0.0112 U			
	Uranium-236	pCi/L	-0.010 U			
X701-21G	Uranium-238	pCi/L	0.0454			
	Americium-241	pCi/L	2E-05 U		8.414E-06 U	
	Neptunium-237	pCi/L	0 U		-0.01691 U	
	Plutonium-238	pCi/L	0.0248 U		-0.1013 U	
	Plutonium-239/240	pCi/L	8E-06 U		-0.02534 U	
	Technetium-99	pCi/L	211		236	
	Uranium	µg/L	0.3886		0.2015 U	
	Uranium-233/234	pCi/L	0.1218		0.0776	
	Uranium-235	pCi/L	0.0100 U		0 U	
	Uranium-236	pCi/L	0.009 U		-0.01073 U	
X701-23G	Uranium-238	pCi/L	0.1296		0.06776 U	
	Americium-241	pCi/L			1.012E-05 U	
	Neptunium-237	pCi/L			-0.008504 U	
	Plutonium-238	pCi/L			0.01726 U	
	Plutonium-239/240	pCi/L			-0.01722 U	
	Technetium-99	pCi/L			2.29 U	
	Uranium	µg/L			0.05305 U	
	Uranium-233/234	pCi/L			0.0627 U	
	Uranium-235	pCi/L			0 U	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-23G	Uranium-236	pCi/L			-0.00991 U	
	Uranium-238	pCi/L			0.01788 U	
X701-24G	Americium-241	pCi/L	-0.023 U		-0.01814 U	
	Neptunium-237	pCi/L	-0.008 U		-0.09649 U	
	Plutonium-238	pCi/L	0.0153 U		0.008029 U	
	Plutonium-239/240	pCi/L	8E-06 U		-0.01603 U	
	Technetium-99	pCi/L	6.22 U		-0.292 U	
	Uranium	µg/L	0.3611		0.4302	
	Uranium-233/234	pCi/L	0.1459		0.1546	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		-0.01069 U	
	Uranium-238	pCi/L	0.1213		0.1446	
X701-25G	Americium-241	pCi/L	0.0085 U		0 U	
	Neptunium-237	pCi/L	0 U		-0.06169 U	
	Plutonium-238	pCi/L	0.0082 U		8.79E-06 U	
	Plutonium-239/240	pCi/L	-0.008 U		0.008798 U	
	Technetium-99	pCi/L	4.03 U		-0.0426 U	
	Uranium	µg/L	0.1012 U		0.02774 U	
	Uranium-233/234	pCi/L	0.0852		0.02782 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0 U		0.01027 U	
	Uranium-238	pCi/L	0.034 U		0.009265 U	
X701-38G	Americium-241	pCi/L			0 U	
	Neptunium-237	pCi/L			-0.01748 U	
	Plutonium-238	pCi/L			0.008723 U	
	Plutonium-239/240	pCi/L			8.715E-06 U	
	Technetium-99	pCi/L			-1.76 U	
	Uranium	µg/L			0.06956 U	
	Uranium-233/234	pCi/L			0.07028 U	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.02337 U	
X701-48G	Americium-241	pCi/L			-0.008597 U	
	Neptunium-237	pCi/L			-0.0421 U	
	Plutonium-238	pCi/L			-0.05247 U	
	Plutonium-239/240	pCi/L			0.000021 U	
	Technetium-99	pCi/L			-0.0865 U	
	Uranium	µg/L			0.08821 U	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-48G	Uranium-233/234	pCi/L			2.967E-05 U	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.02964 U	
X701-50B	Americium-241	pCi/L			0.01904 U	
	Neptunium-237	pCi/L			-0.02516 U	
	Plutonium-238	pCi/L			0.03359 U	
	Plutonium-239/240	pCi/L			0.008407 U	
	Technetium-99	pCi/L			0.143 U	
	Uranium	µg/L			0.0266 U	
	Uranium-233/234	pCi/L			0.152	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0 U	
	Uranium-238	pCi/L			0.00893 U	
X701-58B	Americium-241	pCi/L			0 U	
	Neptunium-237	pCi/L			3.277E-05 U	
	Plutonium-238	pCi/L			0.01635 U	
	Plutonium-239/240	pCi/L			0.008176 U	
	Technetium-99	pCi/L			-4.71 U	
	Uranium	µg/L			0.02782 U	
	Uranium-233/234	pCi/L			0.158	
	Uranium-235	pCi/L			1.146E-05 U	
	Uranium-236	pCi/L			0.0103 U	
	Uranium-238	pCi/L			0.009286 U	
X701-61B	Americium-241	pCi/L			9.203E-06 U	
	Neptunium-237	pCi/L			-0.033 U	
	Plutonium-238	pCi/L			0.008236 U	
	Plutonium-239/240	pCi/L			8.229E-06 U	
	Technetium-99	pCi/L			-3.3 U	
	Uranium	µg/L			0.1904	
	Uranium-233/234	pCi/L			0.1922	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			0.01014 U	
	Uranium-238	pCi/L			0.06392	
X701-127G	Americium-241	pCi/L	0.0095 U		1.071E-05 U	
	Neptunium-237	pCi/L	0 U		-0.01437 U	
	Plutonium-238	pCi/L	0.0228 U		0.007177 U	
	Plutonium-239/240	pCi/L	0.0076 U		-0.007155 U	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-127G	Technetium-99	pCi/L	-0.694 U		12.1	
	Uranium	µg/L	0.1183		0.174 U	
	Uranium-233/234	pCi/L	0.0875		0.1366	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0.0088 U		0 U	
	Uranium-238	pCi/L	0.0397		0.05845 U	
X701-128G	Americium-241	pCi/L	0.0209 U		0.009847 U	
	Neptunium-237	pCi/L	8E-06 U		8.568E-06 U	
	Plutonium-238	pCi/L	0.0084 U		0.008552 U	
	Plutonium-239/240	pCi/L	0 U		0.008552 U	
	Technetium-99	pCi/L	5.47 U		5.9 U	
	Uranium	µg/L	1.407		0.9568	
	Uranium-233/234	pCi/L	0.6196		0.2908	
	Uranium-235	pCi/L	0.0306 U		-0.02048 U	
	Uranium-236	pCi/L	0 U		-0.009184 U	
	Uranium-238	pCi/L	0.4699		0.3234	
X701-BW1G	Americium-241	pCi/L			0 U	
	Neptunium-237	pCi/L			-0.007715 U	
	Plutonium-238	pCi/L			0.01557 U	
	Plutonium-239/240	pCi/L			-0.007764 U	
	Technetium-99	pCi/L			-1.3 U	
	Uranium	µg/L			0.08136 U	
	Uranium-233/234	pCi/L			0.08233	
	Uranium-235	pCi/L			0 U	
	Uranium-236	pCi/L			-0.01012 U	
	Uranium-238	pCi/L			0.02739 U	
X701-BW2G	Americium-241	pCi/L	0.0110 U			
	Neptunium-237	pCi/L	0.0154 U			
	Plutonium-238	pCi/L	0.0231 U			
	Plutonium-239/240	pCi/L	0.0077 U			
	Technetium-99	pCi/L	382			
	Uranium	µg/L	0.0993 U			
	Uranium-233/234	pCi/L	0.0417			
	Uranium-235	pCi/L	0 U			
	Uranium-236	pCi/L	0.0092 U			
	Uranium-238	pCi/L	0.0333 U			
X701-BW4G	Americium-241	pCi/L	0.0105 U		-0.03117 U	
	Neptunium-237	pCi/L	0 U		0.008243 U	

Table 4.8. Results for radionuclides at the X-701B Holding Pond (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X701-BW4G	Plutonium-238	pCi/L	0.0257 U		0.01643 U	
	Plutonium-239/240	pCi/L	0.0086 U		-0.008195 U	
	Technetium-99	pCi/L	184		212	
	Uranium	µg/L	0.1022 U		0.09923 U	
	Uranium-233/234	pCi/L	0.0859		0.02505 U	
	Uranium-235	pCi/L	0 U		0 U	
	Uranium-236	pCi/L	0.0095 U		0 U	
	Uranium-238	pCi/L	0.0343 U		0.03334 U	

Table 4.9. Results for chromium at the X-633 Pumphouse/Cooling Towers Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X633-07G	Chromium	µg/L		91		140
X633-PZ04G	Chromium	µg/L		9.2 B		13

Table 4.10. Volatile organic compounds detected at the X-616 Chromium Sludge Surface Impoundments

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X616-02G	Methylene chloride	µg/L	0.34 J			
X616-05G	Methylene chloride	µg/L	0.31 J			
	Trichlorofluoromethane	µg/L	0.29 J			
X616-09G	1,1,1-Trichloroethane	µg/L	3.4			
	1,1-Dichloroethane	µg/L	1.4 J			
	1,1-Dichloroethene	µg/L	12			
	cis-1,2-Dichloroethene	µg/L	0.71 J			
	Methylene chloride	µg/L	0.3 J			
	Trichloroethene	µg/L	6.6			
X616-16G	cis-1,2-Dichloroethene	µg/L	1.9 J			
	Methylene chloride	µg/L	0.23 J			
	Trichloroethene	µg/L	3.2			
X616-20B	1,1-Dichloroethane	µg/L	0.72 J			
	cis-1,2-Dichloroethene	µg/L	0.47 J			
	Methylene chloride	µg/L	0.31 J			
	Trichloroethene	µg/L	11			
X616-25G	1,1-Dichloroethane	µg/L	0.27 J			
	cis-1,2-Dichloroethene	µg/L	0.43 J			
	Methylene chloride	µg/L	0.31 J			
	Trichloroethene	µg/L	0.88 J			
X616-28B	1,1,1-Trichloroethane	µg/L	2			
	1,1-Dichloroethene	µg/L	1.5 J			
	Methylene chloride	µg/L	0.31 J			
	Trichloroethene	µg/L	0.57 J			

Table 4.11. Results for chromium at the X-616 Chromium Sludge Surface Impoundments

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X616-02G	Chromium	µg/L	2.1			
X616-05G	Chromium	µg/L	150			
X616-09G	Chromium	µg/L	2.5			
X616-16G	Chromium	µg/L	0.98 B			
X616-20B	Chromium	µg/L	1.7 B			
X616-25G	Chromium	µg/L	4.5			
X616-28B	Chromium	µg/L	1.5 B			

Table 4.12. Results for radionuclides at the X-616 Chromium Sludge Surface Impoundments

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X616-02G	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0.0237 U			
	Plutonium-238	pCi/L	0.0158 U			
	Plutonium-239/240	pCi/L	0 U			
	Technetium-99	pCi/L	-0.779 U			
	Uranium	µg/L	3.53			
	Uranium-233/234	pCi/L	1.819			
	Uranium-235	pCi/L	0.0412 U			
	Uranium-236	pCi/L	0.0093 U			
	Uranium-238	pCi/L	1.182			
X616-05G	Americium-241	pCi/L	0.0412 U			
	Neptunium-237	pCi/L	-0.008 U			
	Plutonium-238	pCi/L	0.0333 U			
	Plutonium-239/240	pCi/L	0 U			
	Technetium-99	pCi/L	4.41 U			
	Uranium	µg/L	0.3051			
	Uranium-233/234	pCi/L	0.212			
	Uranium-235	pCi/L	0.0105 U			
	Uranium-236	pCi/L	0.0094 U			
	Uranium-238	pCi/L	0.1015			
X616-09G	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0 U			
	Plutonium-238	pCi/L	0.0203 U			
	Plutonium-239/240	pCi/L	0.0102 U			
	Technetium-99	pCi/L	2.52 U			
	Uranium	µg/L	1.092			
	Uranium-233/234	pCi/L	0.4547			
	Uranium-235	pCi/L	0.0098 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.3662			
X616-16G	Americium-241	pCi/L	0.0092 U			
	Neptunium-237	pCi/L	0.0174 U			
	Plutonium-238	pCi/L	0.0348 U			
	Plutonium-239/240	pCi/L	0.0174 U			
	Technetium-99	pCi/L	2.37 U			
	Uranium	µg/L	0.6013			
	Uranium-233/234	pCi/L	0.2024			
	Uranium-235	pCi/L	0 U			

Table 4.12. Results for radionuclides at the X-616 Chromium Sludge Surface Impoundments (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X616-16G	Uranium-236	pCi/L	0.0093 U			
	Uranium-238	pCi/L	0.202			
X616-20B	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0.0093 U			
	Plutonium-238	pCi/L	0.037 U			
	Plutonium-239/240	pCi/L	0.0185 U			
	Technetium-99	pCi/L	2.64 U			
	Uranium	µg/L	0.5911			
	Uranium-233/234	pCi/L	0.3166			
	Uranium-235	pCi/L	0 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.1986			
	Americium-241	pCi/L	0.0416 U			
X616-25G	Neptunium-237	pCi/L	-0.061 U			
	Plutonium-238	pCi/L	0.0459 U			
	Plutonium-239/240	pCi/L	0.0153 U			
	Technetium-99	pCi/L	-2.31 U			
	Uranium	µg/L	0.7454			
	Uranium-233/234	pCi/L	0.1964			
	Uranium-235	pCi/L	0.0110 U			
	Uranium-236	pCi/L	0.0099 U			
	Uranium-238	pCi/L	0.2495			
	Americium-241	pCi/L	0 U			
	Neptunium-237	pCi/L	0 U			
X616-28B	Plutonium-238	pCi/L	1E-05 U			
	Plutonium-239/240	pCi/L	0.0355 U			
	Technetium-99	pCi/L	-2.78 U			
	Uranium	µg/L	1.207			
	Uranium-233/234	pCi/L	0.9146			
	Uranium-235	pCi/L	0.0217 U			
	Uranium-236	pCi/L	0 U			
	Uranium-238	pCi/L	0.4037			

Table 4.13. Volatile organic compounds detected at the X-740 Waste Oil Handling Facility

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-03G	1,1,1-Trichloroethane	µg/L		120 J		150 J
	1,1-Dichloroethane	µg/L		30 J		44 J
	1,1-Dichloroethene	µg/L		560		930
	1,2-Dichloroethane	µg/L		130 J		170 J
	2-Butanone	µg/L		500 U		430 J
	cis-1,2-Dichloroethene	µg/L		200 U		14 J
	Methylene chloride	µg/L		200 U		110 BJ
	Tetrachloroethene	µg/L		99 J		130 J
	Trichloroethene	µg/L		3100		4500
X740-04G	1,1,1-Trichloroethane	µg/L		0.91 J		
	1,1-Dichloroethane	µg/L		0.3 J		
	1,1-Dichloroethene	µg/L		1.4 J		
	1,2-Dichloroethane	µg/L		0.38 J		
	Acetone	µg/L		2.9 J		
	Methylene chloride	µg/L		0.32 BJ		
	Trichloroethene	µg/L		7.2		
X740-08G	1,1,1-Trichloroethane	µg/L		1.1 J		
	1,1-Dichloroethane	µg/L		10		
	1,1-Dichloroethene	µg/L		0.91 J		
	1,2-Dichloroethane	µg/L		0.3 J		
	cis-1,2-Dichloroethene	µg/L		24		
	trans-1,2-Dichloroethene	µg/L		7.5		
	Trichloroethene	µg/L		16		
X740-09B	1,1,1-Trichloroethane	µg/L		110 J		40 J
	1,1-Dichloroethane	µg/L		200 U		9.3 J
	1,1-Dichloroethene	µg/L		620		210
	1,2-Dichloroethane	µg/L		150 J		38 J
	2-Butanone	µg/L		500 U		53 J
	cis-1,2-Dichloroethene	µg/L		200 U		4.5 J
	Methylene chloride	µg/L		200 U		29 BJ
	Tetrachloroethene	µg/L		64 J		27 J
	Trichloroethene	µg/L		3000		1100
X740-10G	1,1,1-Trichloroethane	µg/L		9.6 J		24 J
	1,1-Dichloroethane	µg/L		20 U		6.1 J
	1,1-Dichloroethene	µg/L		44		140
	1,2-Dichloroethane	µg/L		13 J		27
	2-Butanone	µg/L		50 U		40 J
	Chloroform	µg/L		20 U		2.3 J

Table 4.13. Volatile organic compounds detected at the X-740 Waste Oil Handling Facility (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-10G	cis-1,2-Dichloroethene	µg/L		20 U		2.9 J
	Methylene chloride	µg/L		20 U		14 BJ
	Tetrachloroethene	µg/L		2.8 J		9.7 J
	Trichloroethene	µg/L		210		580
X740-11G	1,1,1-Trichloroethane	µg/L		1 J		1.1 J
	1,1-Dichloroethane	µg/L		0.4 J		0.46 J
	1,1-Dichloroethene	µg/L		6.1		8.8
	1,2-Dichloroethane	µg/L		2.4		2.3
	Chloroform	µg/L		0.2 J		0.2 J
	Methylene chloride	µg/L		2 U		0.25 BJ
	Trichloroethene	µg/L		17		21
X740-12B	Methylene chloride	µg/L		0.23 BJ		2 U
X740-PZ10G	1,1,1-Trichloroethane	µg/L		1.9 J		4.6
	1,1-Dichloroethane	µg/L		0.47 J		0.63 J
	1,1-Dichloroethene	µg/L		5.6		9.5
	1,2-Dichloroethane	µg/L		1.2 J		2.4 J
	cis-1,2-Dichloroethene	µg/L		0.21 J		4 U
	Methylene chloride	µg/L		0.32 BJ		4 U
	Tetrachloroethene	µg/L		0.89 J		1.3 J
X740-PZ12G	Trichloroethene	µg/L		37		62
	1,1,1-Trichloroethane	µg/L		7.6 J		7 J
	1,1-Dichloroethane	µg/L		1.6 J		1.5 J
	1,1-Dichloroethene	µg/L		41		36
	1,2-Dichloroethane	µg/L		11 J		10 J
	Methylene chloride	µg/L		1.6 BJ		2.9 J
X740-PZ14G	Trichloroethene	µg/L		190		170
	1,1,1-Trichloroethane	µg/L		3.3 J		3.2 J
	1,1-Dichloroethane	µg/L		1 J		1.8 J
	1,1-Dichloroethene	µg/L		17		28
	1,2-Dichloroethane	µg/L		5.9		7.2 J
	Chloroform	µg/L		0.48 J		10 U
	Methylene chloride	µg/L		0.5 BJ		2 J
X740-PZ17G	Trichloroethene	µg/L		82		98
	1,1,1-Trichloroethane	µg/L		2.6		0.59 J
	1,1-Dichloroethane	µg/L		0.73 J		2 U
	1,1-Dichloroethene	µg/L		15		2.3
	1,2-Dichloroethane	µg/L		4		0.71 J
	Chloroform	µg/L		0.4 J		2 U

Table 4.13. Volatile organic compounds detected at the X-740 Waste Oil Handling Facility (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-PZ17G	cis-1,2-Dichloroethene	µg/L		0.16 J		2 U
	Methylene chloride	µg/L		0.25 BJ		2 U
	Trichloroethene	µg/L		52		18

Table 4.14. Results for radionuclides at the X-740 Waste Oil Handling Facility

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-01G	Americium-241	pCi/L		-0.1019 U		
	Neptunium-237	pCi/L		0.04066 U		
	Plutonium-238	pCi/L		0.01352 U		
	Plutonium-239/240	pCi/L		0.04055 U		
	Technetium-99	pCi/L		-3.83 U		
	Uranium	µg/L		0.1594		
	Uranium-233/234	pCi/L		0.1822		
	Uranium-235	pCi/L		0 U		
	Uranium-236	pCi/L		0.01187 U		
	Uranium-238	pCi/L		0.05349		
X740-03G	Americium-241	pCi/L		0.04246 U		1.03E-05 U
	Neptunium-237	pCi/L		0.01555 U		-0.09897 U
	Plutonium-238	pCi/L		0.01552 U		0.009919 U
	Plutonium-239/240	pCi/L		0.00776 U		-0.00987 U
	Technetium-99	pCi/L		3.85 U		-2.64 U
	Uranium	µg/L		6.537		4.31
	Uranium-233/234	pCi/L		3.043		1.976
	Uranium-235	pCi/L		0.1025		0.0677
	Uranium-236	pCi/L		0.02301 U		0 U
	Uranium-238	pCi/L		2.187		1.442
X740-04G	Americium-241	pCi/L		-0.0118 U		
	Neptunium-237	pCi/L		0.00093 U		
	Plutonium-238	pCi/L		0.00186 U		
	Plutonium-239/240	pCi/L		0.00093 U		
	Technetium-99	pCi/L		2.66 U		
	Uranium	µg/L		0.3215		
	Uranium-233/234	pCi/L		0.1169		
	Uranium-235	pCi/L		0.01202 U		
	Uranium-236	pCi/L		0 U		
	Uranium-238	pCi/L		0.1069		
X740-08G	Americium-241	pCi/L		0.03855 U		
	Neptunium-237	pCi/L		0 U		
	Plutonium-238	pCi/L		0.02807 U		
	Plutonium-239/240	pCi/L		0 U		
	Technetium-99	pCi/L		1.04 U		
	Uranium	µg/L		2.715		
	Uranium-233/234	pCi/L		1.086		
	Uranium-235	pCi/L		0.04827 U		

Table 4.14. Results for radionuclides at the X-740 Waste Oil Handling Facility (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-08G	Uranium-236	pCi/L		0 U		
	Uranium-238	pCi/L		0.908		
X740-09B	Americium-241	pCi/L		-0.0199 U		1.44E-05 U
	Neptunium-237	pCi/L		0 U		0 U
	Plutonium-238	pCi/L		0.01877 U		-0.01052 U
	Plutonium-239/240	pCi/L		-0.0094 U		1.05E-05 U
	Technetium-99	pCi/L		-2.25 U		-0.718 U
	Uranium	µg/L		0.873		0.4818
	Uranium-233/234	pCi/L		0.4879		0.2749
	Uranium-235	pCi/L		0.01337 U		0.01169 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.2921		0.1608
X740-10G	Americium-241	pCi/L		0.01693 U		0.01014 U
	Neptunium-237	pCi/L		0.01846 U		-0.00825 U
	Plutonium-238	pCi/L		9.2E-06 U		0.03304 U
	Plutonium-239/240	pCi/L		0.00920 U		8.25E-06 U
	Technetium-99	pCi/L		-0.445 U		1.58 U
	Uranium	µg/L		2.829		2.391
	Uranium-233/234	pCi/L		1.542		1.013
	Uranium-235	pCi/L		0.03658 U		0.02884 U
	Uranium-236	pCi/L		0.02191 U		0 U
	Uranium-238	pCi/L		0.9471		0.801
X740-11G	Americium-241	pCi/L		9E-06 U		0.02936 U
	Neptunium-237	pCi/L		0.00763 U		-0.01728 U
	Plutonium-238	pCi/L		0 U		0 U
	Plutonium-239/240	pCi/L		0.02282 U		0.008635 U
	Technetium-99	pCi/L		-3.71 U		-1.35 U
	Uranium	µg/L		0.56		0.4047
	Uranium-233/234	pCi/L		0.2382		0.2096
	Uranium-235	pCi/L		0 U		1.29E-05 U
	Uranium-236	pCi/L		-0.011 U		0.0116 U
	Uranium-238	pCi/L		0.1882		0.1359
X740-12B	Americium-241	pCi/L		9.2E-06 U		-0.0099 U
	Neptunium-237	pCi/L		0.00763 U		0 U
	Plutonium-238	pCi/L		0.03042 U		1.56E-05 U
	Plutonium-239/240	pCi/L		0 U		-0.01558 U
	Technetium-99	pCi/L		5.47 U		-0.607 U
	Uranium	µg/L		0.4154		0.2625

Table 4.14. Results for radionuclides at the X-740 Waste Oil Handling Facility (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-12B	Uranium-233/234	pCi/L		0.3878		0.159
	Uranium-235	pCi/L		0.02126 U		0 U
	Uranium-236	pCi/L		0.00955 U		0 U
	Uranium-238	pCi/L		0.1376		0.08819
X740-PZ10G	Americium-241	pCi/L		-0.0195 U		0.01092 U
	Neptunium-237	pCi/L		8.6E-06 U		0 U
	Plutonium-238	pCi/L		0.00862 U		0.008454 U
	Plutonium-239/240	pCi/L		0 U		0.008454 U
	Technetium-99	pCi/L		-0.524 U		-1.63 U
	Uranium	µg/L		0.3056		0.3965
	Uranium-233/234	pCi/L		0.2223		0.1514
	Uranium-235	pCi/L		0.01143 U		0.01167 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.1017		0.1322
X740-PZ12G	Americium-241	pCi/L		1.0E-05 U		9.96E-06 U
	Neptunium-237	pCi/L		-0.1701 U		-0.00748 U
	Plutonium-238	pCi/L		-0.0076 U		7.46E-06 U
	Plutonium-239/240	pCi/L		7.7E-06 U		0.007472 U
	Technetium-99	pCi/L		-4.83 U		-2.28 U
	Uranium	µg/L		0.2089		0.1739 U
	Uranium-233/234	pCi/L		0.1906		0.1073
	Uranium-235	pCi/L		0.01069 U		0 U
	Uranium-236	pCi/L		0.0096 U		0 U
	Uranium-238	pCi/L		0.06919		0.05843 U
X740-PZ14G	Americium-241	pCi/L		-0.0211 U		0.01791 U
	Neptunium-237	pCi/L		-0.0077 U		0 U
	Plutonium-238	pCi/L		0.00768 U		0.008135 U
	Plutonium-239/240	pCi/L		0.01536 U		8.12E-06 U
	Technetium-99	pCi/L		-6.46 U		0.139 U
	Uranium	µg/L		1.967		1.543
	Uranium-233/234	pCi/L		0.9453		0.5854
	Uranium-235	pCi/L		0.03931 U		0.03186 U
	Uranium-236	pCi/L		0.02353 U		0.009535 U
	Uranium-238	pCi/L		0.6573		0.5155
X740-PZ17G	Americium-241	pCi/L		0.01875 U		9.37E-06 U
	Neptunium-237	pCi/L		0.03317 U		-0.01608 U
	Plutonium-238	pCi/L		0.00828 U		0 U
	Plutonium-239/240	pCi/L		0.00828 U		0.008042 U

Table 4.14. Results for radionuclides at the X-740 Waste Oil Handling Facility (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X740-PZ17G	Technetium-99	pCi/L		-3.82 U		1.94 U
	Uranium	µg/L		2.551		2.124
	Uranium-233/234	pCi/L		0.8046		0.8457
	Uranium-235	pCi/L		0.03771 U		0.02898 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.8538		0.7112

Table 4.15. Results for beryllium and chromium at the X-611A Former Lime Sludge Lagoons

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
F-07G	Beryllium	µg/L	0.49 B		7.2	
	Chromium	µg/L	2.2 B		4.6 B	
F-08B	Beryllium	µg/L	5 U		0.55 B	
	Chromium	µg/L	10 U		10 U	
X611-01B	Beryllium	µg/L	3.2 B		0.42 B	
	Chromium	µg/L	10 U		10 U	
X611-02BA	Beryllium	µg/L	3.7 B		0.49 B	
	Chromium	µg/L	10 U		10 U	
X611-03G	Beryllium	µg/L	4 B		5 U	
	Chromium	µg/L	10 U		10 U	
X611-04BA	Beryllium	µg/L	5 U		0.48 B	
	Chromium	µg/L	4 B		2.3 B	

Table 4.16. Results for radionuclides at the X-735 Landfills

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X735-01GA	Americium-241	pCi/L		0.0267 U		0.01094 U
	Neptunium-237	pCi/L		-0.0082 U		0.008898 U
	Plutonium-238	pCi/L		0.00814 U		0.01773 U
	Plutonium-239/240	pCi/L		8.1E-06 U		-0.00884 U
	Technetium-99	pCi/L		-1.05 U		-2.55 U
	Uranium	µg/L		0.02624 U		0.02778 U
	Uranium-233/234	pCi/L		0.05957 U		0.05082 U
	Uranium-235	pCi/L		-0.0122 U		0.01045 U
	Uranium-236	pCi/L		0 U		-0.00937 U
X735-02GA	Uranium-238	pCi/L		0.00991 U		0.00845 U
	Americium-241	pCi/L		0.03729 U		-0.01053 U
	Neptunium-237	pCi/L		-0.0084 U		8.44E-06 U
	Plutonium-238	pCi/L		0.00867 U		0.03368 U
	Plutonium-239/240	pCi/L		0.03412 U		0 U
	Technetium-99	pCi/L		-1.84 U		-0.886 U
	Uranium	µg/L		0.08681 U		0.02935 U
	Uranium-233/234	pCi/L		0.04871		-0.01986 U
	Uranium-235	pCi/L		0 U		0 U
X735-03GA	Uranium-236	pCi/L		0 U		-0.011 U
	Uranium-238	pCi/L		0.02917 U		0.009922 U
	Americium-241	pCi/L		-0.0292 U		8.72E-06 U
	Neptunium-237	pCi/L		0.00980 U		-0.00830 U
	Plutonium-238	pCi/L		0 U		0.01657 U
	Plutonium-239/240	pCi/L		0.02932 U		-0.01656 U
	Technetium-99	pCi/L		-0.462 U		9.07 U
	Uranium	µg/L		0.1257 U		0.3307
	Uranium-233/234	pCi/L		-0.0103 U		0.09115 U
X735-04GA	Uranium-235	pCi/L		0.0127 U		0.02248 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.04111 U		0.1091
	Americium-241	pCi/L		-0.0385 U		-0.01991 U
	Neptunium-237	pCi/L		0.00905 U		-0.00871 U
	Plutonium-238	pCi/L		0.02708 U		-0.00868 U
	Plutonium-239/240	pCi/L		-0.0090 U		0 U
	Technetium-99	pCi/L		-4.71 U		4.41 U
	Uranium	µg/L		0.148		0.1171 U
	Uranium-233/234	pCi/L		0.04985		-0.01965 U
	Uranium-235	pCi/L		0 U		0 U

Table 4.16. Results for radionuclides at the X-735 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X735-04GA	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.04975		0.03937 U
X735-05GA	Americium-241	pCi/L		-0.0092 U		0 U
	Neptunium-237	pCi/L		7.6E-06 U		-0.00848 U
	Plutonium-238	pCi/L		0.02289 U		0.01699 U
	Plutonium-239/240	pCi/L		0.0229 U		8.48E-06 U
	Technetium-99	pCi/L		-3.1 U		-3.94 U
	Uranium	µg/L		0.1411		0.1818 U
	Uranium-233/234	pCi/L		0.08371 U		0.1001 U
	Uranium-235	pCi/L		0.01147 U		0.01234 U
	Uranium-236	pCi/L		0 U		0.01108 U
	Uranium-238	pCi/L		0.0464		0.05992 U
X735-06GAA	Americium-241	pCi/L		1E-05 U		-0.02113 U
	Neptunium-237	pCi/L		0.00894 U		0 U
	Plutonium-238	pCi/L		0.00891 U		0.01876 U
	Plutonium-239/240	pCi/L		0 U		0.009388 U
	Technetium-99	pCi/L		1.26 U		-2.55 U
	Uranium	µg/L		0.02955 U		5.49E-05 U
	Uranium-233/234	pCi/L		0.0199 U		-0.00948 U
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		1.1E-05 U		0 U
	Uranium-238	pCi/L		0.00993 U		1.89E-05 U
X735-13GA	Americium-241	pCi/L		0.00822 U		-0.01003 U
	Neptunium-237	pCi/L		0.01004 U		-0.00905 U
	Plutonium-238	pCi/L		0.01 U		0.03622 U
	Plutonium-239/240	pCi/L		0.02 U		-0.00905 U
	Technetium-99	pCi/L		0.761 U		-2.39 U
	Uranium	µg/L		0.07943 U		0.2366
	Uranium-233/234	pCi/L		0.07129		0.1328
	Uranium-235	pCi/L		1.1E-05 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.02669 U		-0.07951
X735-16B	Americium-241	pCi/L		0.00994 U		0.008244 U
	Neptunium-237	pCi/L		0.02865 U		0.008572 U
	Plutonium-238	pCi/L		9.5E-06 U		0.01709 U
	Plutonium-239/240	pCi/L		0.00953 U		8.53E-06 U
	Technetium-99	pCi/L		-0.844 U		-2.2 U
	Uranium	µg/L		0.00393 U		-0.04854 U

Table 4.16. Results for radionuclides at the X-735 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X735-16B	Uranium-233/234	pCi/L		0.01179 U		-0.01729 U
	Uranium-235	pCi/L		0.01455 U		0.0107 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		2.4E-05 U		-0.01726 U
X735-17B	Americium-241	pCi/L		8.7E-06 U		0 U
	Neptunium-237	pCi/L		0 U		0.00934 U
	Plutonium-238	pCi/L		0.02543 U		0.03726 U
	Plutonium-239/240	pCi/L		0 U		0.009323 U
	Technetium-99	pCi/L		-1.46 U		4.22 U
	Uranium	µg/L		0.2738		0.2464
	Uranium-233/234	pCi/L		0.2299		0.1014 U
	Uranium-235	pCi/L		0.02465 U		0 U
X735-18B	Uranium-236	pCi/L		0.01107 U		0 U
	Uranium-238	pCi/L		0.08974		0.08281
	Americium-241	pCi/L		-0.0091 U		-0.01942 U
	Neptunium-237	pCi/L		-0.0108 U		0.009178 U
	Plutonium-238	pCi/L		0.01074 U		0.01831 U
	Plutonium-239/240	pCi/L		1.1E-05 U		0 U
	Technetium-99	pCi/L		-1.65 U		1.46 U
	Uranium	µg/L		0.1881		0.07231 U
	Uranium-233/234	pCi/L		0.04524		0.008439 U
	Uranium-235	pCi/L		0 U		-0.01038 U
	Uranium-236	pCi/L		0 U		9.32E-06 U
	Uranium-238	pCi/L		0.06321		0.02522 U
X735-19G	Americium-241	pCi/L		-0.0108 U		0.02276 U
	Neptunium-237	pCi/L		0.01053 U		-0.02304 U
	Plutonium-238	pCi/L		0.04199 U		0.01537 U
	Plutonium-239/240	pCi/L		0.0105 U		0.007685 U
	Technetium-99	pCi/L		-4.33 U		4.44 U
	Uranium	µg/L		0.03074 U		0.1085 U
	Uranium-233/234	pCi/L		0.02768 U		3.55E-05 U
	Uranium-235	pCi/L		0.01138 U		0.01096 U
	Uranium-236	pCi/L		0.02044 U		0 U
	Uranium-238	pCi/L		0.00921 U		0.03548 U
X735-20B	Americium-241	pCi/L		-0.0094 U		-0.00876 U
	Neptunium-237	pCi/L		0.01911 U		-0.00821 U
	Plutonium-238	pCi/L		0.01906 U		0.00819 U
	Plutonium-239/240	pCi/L		0.00953 U		0.008199 U

Table 4.16. Results for radionuclides at the X-735 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X735-20B	Technetium-99	pCi/L		5.06 U		5.77 U
	Uranium	µg/L		0.6128		0.2625
	Uranium-233/234	pCi/L		0.35		0.2474
	Uranium-235	pCi/L		0.02399 U		0 U
	Uranium-236	pCi/L		1.1E-05 U		0 U
	Uranium-238	pCi/L		0.2038		0.0882
X735-21G	Americium-241	pCi/L		-0.0295 U		0.01702 U
	Neptunium-237	pCi/L		0.00883 U		-0.02615 U
	Plutonium-238	pCi/L		0.03523 U		0.01744 U
	Plutonium-239/240	pCi/L		0 U		-0.02612 U
	Technetium-99	pCi/L		-0.647 U		3.08 U
	Uranium	µg/L		0.5502		0.6306
	Uranium-233/234	pCi/L		0.2315		0.2195
	Uranium-235	pCi/L		0 U		0.01003 U
	Uranium-236	pCi/L		0 U		0.009004 U
	Uranium-238	pCi/L		0.1849		0.2109
X737-05B	Americium-241	pCi/L		0 U		0.01795 U
	Neptunium-237	pCi/L		0 U		0.01975 U
	Plutonium-238	pCi/L		0.02236 U		0.01969 U
	Plutonium-239/240	pCi/L		0 U		0.009854 U
	Technetium-99	pCi/L		2.38 U		-4.36 U
	Uranium	µg/L		0.1059 U		0.1154 U
	Uranium-233/234	pCi/L		0.03564 U		0.01947 U
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.03557 U		0.03879 U
X737-06G	Americium-241	pCi/L		-0.0181 U		0.009765 U
	Neptunium-237	pCi/L		-0.0091 U		-0.00865 U
	Plutonium-238	pCi/L		-0.0091 U		0.0173 U
	Plutonium-239/240	pCi/L		0.00908 U		0.008654 U
	Technetium-99	pCi/L		5.42 U		-0.72 U
	Uranium	µg/L		0.02688 U		0.06606 U
	Uranium-233/234	pCi/L		0.05399 U		0.008397 U
	Uranium-235	pCi/L		0 U		-0.03086 U
	Uranium-236	pCi/L		0.00997 U		-0.00924 U
	Uranium-238	pCi/L		0.00898 U		0.025 U
X737-07B	Americium-241	pCi/L		1.1E-05 U		0.01988 U
	Neptunium-237	pCi/L		0 U		0.0001 U

Table 4.16. Results for radionuclides at the X-735 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X737-07B	Plutonium-238	pCi/L		0.00993 U		0.0333 U
	Plutonium-239/240	pCi/L		0.00993 U		0.01664 U
	Technetium-99	pCi/L		1.63 U		-2 U
	Uranium	µg/L		0.03312 U		0.0542 U
	Uranium-233/234	pCi/L		0.05016		0.02597 U
	Uranium-235	pCi/L		0.01238 U		0.01066 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.01002 U		0.01726 U
X737-08B	Americium-241	pCi/L		1.9E-05 U		0.009528 U
	Neptunium-237	pCi/L		0.00909 U		0 U
	Plutonium-238	pCi/L		0 U		0.02259 U
	Plutonium-239/240	pCi/L		0.00905 U		0.00753 U
	Technetium-99	pCi/L		0.0665 U		-3.9 U
	Uranium	µg/L		0.7921		0.4708
	Uranium-233/234	pCi/L		0.8247		0.5818
	Uranium-235	pCi/L		0.02609 U		-0.01156 U
X737-09G	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.2638		0.1592
	Americium-241	pCi/L		7.8E-06 U		0.01735 U
	Neptunium-237	pCi/L		-0.0076 U		4.07E-05 U
	Plutonium-238	pCi/L		0.0228 U		-0.00811 U
	Plutonium-239/240	pCi/L		0.0076 U		0.00812 U
	Technetium-99	pCi/L		2.25 U		-1.01 U
	Uranium	µg/L		0.2816		0.1245
	Uranium-233/234	pCi/L		0.08538		0.09035
	Uranium-235	pCi/L		0 U		0.01013 U
	Uranium-236	pCi/L		-0.0105 U		-0.00909 U
	Uranium-238	pCi/L		0.09467		0.04098

Table 4.17. Volatile organic compounds detected at the X-734 Landfills

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X734-01G	Methylene chloride	µg/L		0.56 BJ		5 U
X734-02B	Acetone	µg/L		10 U		29
X734-03G	1,1-Dichloroethane	µg/L		0.8 J		0.49 J
	1,4-Dichlorobenzene	µg/L		3.3		2.1
	Acetone	µg/L		10 U		44
	Chlorobenzene	µg/L		0.65 J		0.44 J
X734-04G	Acetone	µg/L		4.6 J		5.1 J
	Methylene chloride	µg/L		0.55 BJ		5 U
X734-05B	1,2-Dimethylbenzene	µg/L		2 U		0.21 J
	Acetone	µg/L		10 U		3.1 J
	Benzene	µg/L		1.5 J		2.6
	Ethylbenzene	µg/L		0.18 J		0.25 J
	Methylene chloride	µg/L		0.62 BJ		5 U
	Toluene	µg/L		0.35 J		0.74 J
X734-06G	Acetone	µg/L		3.8 J		35
	Methylene chloride	µg/L		0.58 BJ		5 U
X734-10G	Acetone	µg/L		10		10 U
	Methylene chloride	µg/L		0.59 BJ		5 U
X734-14G	Acetone	µg/L		10 U		23
X734-15G	1,1-Dichloroethane	µg/L		0.87 J		0.95 J
	Acetone	µg/L		6.1 J		10 U
	Methylene chloride	µg/L		0.52 BJ		5 U
X734-16G	Acetone	µg/L		15		5.3 J
	Methylene chloride	µg/L		0.54 BJ		5 U
X734-18G	Methylene chloride	µg/L		0.52 BJ		5 U
X734-20G	2-Butanone	µg/L		5 U		3.2 J
	Acetone	µg/L		3.3 J		2.6 J
	Methylene chloride	µg/L		0.57 BJ		5 U
X734-21B	1,1-Dichloroethene	µg/L		0.39 J		10 U
	Acetone	µg/L		5.5 J		50 U
	cis-1,2-Dichloroethene	µg/L		33		30
	Methylene chloride	µg/L		0.94 BJ		25 U
	trans-1,2-Dichloroethene	µg/L		2.7		2.3 J
	Trichloroethene	µg/L		150		120
X734-22G	Acetone	µg/L		6.9 J		10 U
	Methylene chloride	µg/L		0.95 BJ		5 U

Table 4.18. Results for radionuclides at the X-734 Landfills

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
RSY-02B	Americium-241	pCi/L		0.01309 U		2.27E-05 U
	Neptunium-237	pCi/L		-0.0198 U		-0.00862 U
	Plutonium-238	pCi/L		0.0099 U		0.01743 U
	Plutonium-239/240	pCi/L		0.0099 U		-0.01735 U
	Technetium-99	pCi/L		-1.14 U		54.9
	Uranium	µg/L		0.2028 U		0.1088 U
	Uranium-233/234	pCi/L		0.1189		0.119
	Uranium-235	pCi/L		-0.0122 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.06924 U		0.03656 U
X734-01G	Americium-241	pCi/L		-0.0158 U		-0.01183 U
	Neptunium-237	pCi/L		0.00902 U		4.07E-05 U
	Plutonium-238	pCi/L		0.01797 U		0.03556 U
	Plutonium-239/240	pCi/L		0 U		-0.00884 U
	Technetium-99	pCi/L		-6.33 U		-2.81 U
	Uranium	µg/L		0.114 U		0.2586
	Uranium-233/234	pCi/L		0.09585		0.0574 U
	Uranium-235	pCi/L		0 U		0.0118 U
	Uranium-236	pCi/L		1.1E-05 U		-0.01058 U
	Uranium-238	pCi/L		0.03829 U		0.08591
X734-02B	Americium-241	pCi/L		0.00885 U		0.04378 U
	Neptunium-237	pCi/L		0.00785 U		0.008825 U
	Plutonium-238	pCi/L		0.00783 U		-0.01743 U
	Plutonium-239/240	pCi/L		0 U		0.008753 U
	Technetium-99	pCi/L		-0.884 U		-2.3 U
	Uranium	µg/L		0.2043		0.03182 U
	Uranium-233/234	pCi/L		0.08844		0.04364
	Uranium-235	pCi/L		0 U		0.02153 U
	Uranium-236	pCi/L		0 U		0.009667 U
	Uranium-238	pCi/L		0.06864		0.008718 U
X734-03G	Americium-241	pCi/L		0.00994 U		0.009339 U
	Neptunium-237	pCi/L		-0.0088 U		-0.04258 U
	Plutonium-238	pCi/L		0.02625 U		0.07667 U
	Plutonium-239/240	pCi/L		-0.0087 U		-0.00849 U
	Technetium-99	pCi/L		0 U		-0.671 U
	Uranium	µg/L		2.588		0.4364
	Uranium-233/234	pCi/L		1.955		0.5085
	Uranium-235	pCi/L		0.0946		0.03136 U

Table 4.18. Results for radionuclides at the X-734 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X734-03G	Uranium-236	pCi/L		0.02124 U		0.009387 U
	Uranium-238	pCi/L		0.861		0.1438
X734-04G	Americium-241	pCi/L		-0.0089 U		0.01021 U
	Neptunium-237	pCi/L		0 U		-0.07181 U
	Plutonium-238	pCi/L		0.02057 U		0.06382 U
	Plutonium-239/240	pCi/L		0.02742 U		-0.01592 U
	Technetium-99	pCi/L		2.79 U		-3.51 U
	Uranium	µg/L		2.292		1.957
	Uranium-233/234	pCi/L		1.012		0.8077
	Uranium-235	pCi/L		0.06062 U		0.0219 U
	Uranium-236	pCi/L		-0.0109 U		0 U
	Uranium-238	pCi/L		0.7648		0.6555
	Americium-241	pCi/L		0.02891 U		0.02067 U
X734-05B	Neptunium-237	pCi/L		0.00770 U		-0.06859 U
	Plutonium-238	pCi/L		2.3E-05 U		0.1176 U
	Plutonium-239/240	pCi/L		0.00769 U		0.009811 U
	Technetium-99	pCi/L		-7.43 U		-3.51 U
	Uranium	µg/L		1.477		0.9439
	Uranium-233/234	pCi/L		1.142		0.8416
	Uranium-235	pCi/L		0 U		0.0236 U
	Uranium-236	pCi/L		0 U		0.01059 U
	Uranium-238	pCi/L		0.4963		0.315
	Americium-241	pCi/L		-0.009 U		0.01065 U
	Neptunium-237	pCi/L		0 U		-0.1107 U
X734-06G	Plutonium-238	pCi/L		0.03238 U		0.008648 U
	Plutonium-239/240	pCi/L		0.00809 U		0.01703 U
	Technetium-99	pCi/L		-3.68 U		1.03 U
	Uranium	µg/L		0.1603		0.1443 U
	Uranium-233/234	pCi/L		0.018 U		0.03802 U
	Uranium-235	pCi/L		0 U		0.01173 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.05388		0.04744 U
	Americium-241	pCi/L		0 U		1.12E-05 U
	Neptunium-237	pCi/L		-0.0218 U		-0.1176 U
	Plutonium-238	pCi/L		0.04351 U		0.0181 U
X734-10G	Plutonium-239/240	pCi/L		0 U		0.02714 U
	Technetium-99	pCi/L		-4.64 U		-1.7 U
	Uranium	µg/L		0.3925		0.3569

Table 4.18. Results for radionuclides at the X-734 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X734-10G	Uranium-233/234	pCi/L		0.1025		0.1748
	Uranium-235	pCi/L		-0.0126 U		0 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.133		0.1199
X734-14G	Americium-241	pCi/L		0.01945 U		-0.01071 U
	Neptunium-237	pCi/L		-0.0070 U		-0.09418 U
	Plutonium-238	pCi/L		0.01404 U		0.01893 U
	Plutonium-239/240	pCi/L		0.00702 U		0.009405 U
	Technetium-99	pCi/L		-1.73 U		-2.44 U
	Uranium	µg/L		0.2077		1.003
	Uranium-233/234	pCi/L		0.08391 U		0.366
	Uranium-235	pCi/L		0 U		0.02508 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.06978		0.3348
	Americium-241	pCi/L		0.0307 U		0.02014 U
X734-15G	Neptunium-237	pCi/L		0.00767 U		-0.09763 U
	Plutonium-238	pCi/L		0.02296 U		-0.0162 U
	Plutonium-239/240	pCi/L		0.0153 U		0 U
	Technetium-99	pCi/L		-8.58 U		1.94 U
	Uranium	µg/L		0.1395		0.0543 U
	Uranium-233/234	pCi/L		0.03758 U		0.04333 U
	Uranium-235	pCi/L		0 U		0.01069 U
	Uranium-236	pCi/L		0 U		0 U
	Uranium-238	pCi/L		0.04687		0.01729 U
	Americium-241	pCi/L		0.01915 U		-0.00976 U
	Neptunium-237	pCi/L		-0.0138 U		-0.03289 U
X734-18G	Plutonium-238	pCi/L		0.00689 U		0.0493
	Plutonium-239/240	pCi/L		0.01379 U		0.01643 U
	Technetium-99	pCi/L		-1.69 U		-2.9 U
	Uranium	µg/L		1.957		1.99
	Uranium-233/234	pCi/L		0.7912		0.9044
	Uranium-235	pCi/L		0.01268 U		0.03381 U
	Uranium-236	pCi/L		0 U		0.02024 U
	Uranium-238	pCi/L		0.6563		0.6656
	Americium-241	pCi/L		0.018 U		
	Neptunium-237	pCi/L		0 U		
	Plutonium-238	pCi/L		0.01536 U		
X734-20G	Plutonium-239/240	pCi/L		0.03072 U		

Table 4.18. Results for radionuclides at the X-734 Landfills (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
X734-20G	Technetium-99	pCi/L		-0.395 U		
	Uranium	µg/L		0.2208		
	Uranium-233/234	pCi/L		0.1464		
	Uranium-235	pCi/L		0.0129 U		
	Uranium-236	pCi/L		0 U		
	Uranium-238	pCi/L		0.07305		
X734-21B	Americium-241	pCi/L		0.07272 U		1.08E-05 U
	Neptunium-237	pCi/L		-0.0293 U		-0.02117 U
	Plutonium-238	pCi/L		0.039 U		-0.0106 U
	Plutonium-239/240	pCi/L		0 U		0.01061 U
	Technetium-99	pCi/L		-7.53 U		-2.73 U
	Uranium	µg/L		0.2193 U		0.2556
	Uranium-233/234	pCi/L		0.1292		0.05377 U
	Uranium-235	pCi/L		0 U		0 U
	Uranium-236	pCi/L		0 U		0.01191 U
	Uranium-238	pCi/L		0.0737 U		0.08581
X734-22G	Americium-241	pCi/L		-0.0311 U		0.0213 U
	Neptunium-237	pCi/L		0.00877 U		-0.1258 U
	Plutonium-238	pCi/L		0.00875 U		-0.00888 U
	Plutonium-239/240	pCi/L		0.00875 U		-0.01793 U
	Technetium-99	pCi/L		-9.04 U		-5.13 U
	Uranium	µg/L		1.213		1.066
	Uranium-233/234	pCi/L		0.4594		0.5594
	Uranium-235	pCi/L		0 U		0.01131 U
	Uranium-236	pCi/L		0 U		0.01016 U
	Uranium-238	pCi/L		0.4076		0.357

Table 4.19. Results for cadmium, cobalt, and nickel at the X-533 Switchyard Area

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
F-03G	Cadmium	µg/L		28		28
	Cobalt	µg/L		51		52
	Nickel	µg/L		290		290
TCP-01G	Cadmium	µg/L		26		17
	Cobalt	µg/L		61		50
	Nickel	µg/L		270		210
X533-03G	Cadmium	µg/L		7		8.6
	Cobalt	µg/L		21		27
	Nickel	µg/L		120		160

Table 4.20. Volatile organic compounds detected at surface water monitoring locations

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
BRC-SW01	Acetone	µg/L	10 U	3.2 J	10 U	4.4 J
	Bromodichloromethane	µg/L	1.3 J	3.1	1.9 J	2.4
	Bromoform	µg/L	0.35 J	6.7	0.69 J	0.75 J
	Chloroform	µg/L	2.7	3	2.7	2.6
	cis-1,2-Dichloroethene	µg/L	0.14 J	2 U	2 U	2 U
	Dibromochloromethane	µg/L	1.5 J	4.1	2.2	2.5
	Methylene chloride	µg/L	2 U	2 U	0.29 BJ	0.33 BJ
	Trichloroethene	µg/L	0.27 J	2 U	2 U	2 U
BRC-SW02	2-Butanone	µg/L	5 U	3.5 J	5 U	5 U
	Acetone	µg/L	4.9 J	32	5.4 J	17
	Methylene chloride	µg/L	2 U	2 U	0.31 BJ	0.39 BJ
BRC-SW03	2-Butanone	µg/L	5 U	4.8 J	5 U	5 U
	Acetone	µg/L	7.8 J	49	41	30
	Chloroform	µg/L	0.21 J	2 U	2 U	2 U
	Methylene chloride	µg/L	2 U	0.26 J	0.3 BJ	0.36 BJ
BRC-SW04	2-Butanone	µg/L	5 U	5	5 U	5 U
	Acetone	µg/L	7.5 J	55	39	34
	Chloroform	µg/L	0.2 J	2 U	2 U	2 U
	Methylene chloride	µg/L	2 U	0.27 J	0.34 BJ	0.44 BJ
EDD-SW01	Acetone	µg/L	10 U	3.8 J	10 U	4.9 BJ
	Bromodichloromethane	µg/L	4.5	1.3 J	1.9 J	7.4
	Bromoform	µg/L	0.93 J	0.44 J	0.75 J	2.6
	Chloroform	µg/L	3.5	2	2.7	5.8
	Dibromochloromethane	µg/L	4.2	1.5 J	2.4	9.2
	Methylene chloride	µg/L	2 U	0.74 BJ	0.34 BJ	0.31 BJ
LBC-SW01	Acetone	µg/L	10 U	5.4 J	10 U	3.9 BJ
	Bromodichloromethane	µg/L	2.6	0.69 J	1.9 J	4.9
	Bromoform	µg/L	0.56 J	0.28 J	0.87 J	2.1
	Chloroform	µg/L	2	1.1 J	2.1	4.1
	cis-1,2-Dichloroethene	µg/L	2 U	0.15 J	2 U	0.17 J
	Dibromochloromethane	µg/L	2.6	0.79 J	2.3	6.4
	Methylene chloride	µg/L	2 U	0.8 BJ	0.33 BJ	0.34 BJ
	Trichloroethene	µg/L	0.41 J	0.21 J	2 U	0.3 J
LBC-SW02	Acetone	µg/L	10 U	4.6 J	10 U	6.8 BJ
	Bromodichloromethane	µg/L	2	0.52 J	1.3 J	2.9
	Bromoform	µg/L	0.5 J	2 U	0.76 J	1.3 J
	Chloroform	µg/L	1.5 J	0.86 J	1.6 J	2.4
	Dibromochloromethane	µg/L	2.1	0.6 J	1.8 J	3.8

Table 4.20. Volatile organic compounds detected at surface water monitoring locations (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
LBC-SW02	Methylene chloride	µg/L	2 U	0.65 BJ	0.38 BJ	0.29 BJ
	Trichloroethene	µg/L	0.25 J	0.17 J	2 U	0.19 J
LBC-SW03	Acetone	µg/L	10 U	3.7 J	10 U	4.6 BJ
	Bromodichloromethane	µg/L	0.74 J	2 U	2 U	0.8 J
	Bromoform	µg/L	0.26 J	2 U	2 U	0.74 J
	Chloroform	µg/L	0.54 J	0.19 J	2 U	0.49 J
	Dibromochloromethane	µg/L	0.83 J	2 U	0.28 J	1.6 J
	Methylene chloride	µg/L	2 U	0.7 BJ	0.46 BJ	0.26 BJ
LBC-SW04	Acetone	µg/L	10	10 U	10 U	4.2 BJ
	Benzene	µg/L	2 U	2 U	2 U	0.96 J
	Bromodichloromethane	µg/L	0.25 J	2 U	2 U	2 U
	Bromoform	µg/L	2 U	2 U	2 U	0.27 J
	Dibromochloromethane	µg/L	0.37 J	2 U	2 U	0.44 J
	Methylene chloride	µg/L	2 U	0.66 BJ	0.36 BJ	0.26 BJ
NHP-SW01	Toluene	µg/L	2 U	2 U	2 U	0.26 J
	Acetone	µg/L	10 U	8.9 J	2.7 J	3.5 BJ
	Bromodichloromethane	µg/L	2 U	2 U	2 U	0.24 J
	Bromoform	µg/L	2 U	2 U	0.36 J	0.65 J
	Chloroform	µg/L	2 U	0.29 J	2 U	2 U
	Dibromochloromethane	µg/L	2 U	2 U	0.24 J	0.59 J
UND-SW01	Methylene chloride	µg/L	2 U	0.63 BJ	0.38 BJ	0.27 BJ
	Methylene chloride	µg/L	0.42 BJ	0.7 BJ	0.62 BJ	0.28 BJ
UND-SW02	Trichloroethene	µg/L	1.3 J	2	1.6 J	2
	Methylene chloride	µg/L	0.43 BJ	0.74 BJ	0.71 BJ	0.33 BJ
WDD-SW01	Acetone	µg/L	8.9 J	7.2 J	10 U	10 U
	Bromodichloromethane	µg/L	0.7 J	2 U	1.2 J	0.82 J
	Bromoform	µg/L	2 U	2 U	1.7 J	2.2
	Chloroform	µg/L	0.64 J	2 U	0.77 J	0.44 J
	Dibromochloromethane	µg/L	0.58 J	2 U	2.5	2.1
	Methylene chloride	µg/L	0.76 BJ	0.74 BJ	0.3 BJ	0.23 BJ
WDD-SW02	Acetone	µg/L	15	14	10 U	10 U
	Methylene chloride	µg/L	0.76 BJ	0.7 BJ	0.31 BJ	0.36 BJ
WDD-SW03	Acetone	µg/L	10 U	3.5 J	10 U	3.1 J
	Bromodichloromethane	µg/L	2 U	2 U	0.23 J	0.25 J
	Bromoform	µg/L	2 U	2 U	0.33 J	0.73 J
	Chloroform	µg/L	0.24 J	2 U	0.28 J	2 U
	Dibromochloromethane	µg/L	2 U	2 U	0.44 J	0.61 J
	Methylene chloride	µg/L	0.69 BJ	0.76 BJ	0.35 BJ	0.31 BJ

Table 4.21. Results for radionuclides at surface water monitoring locations

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
BRC-SW01	Americium-241	pCi/L	0.0117 U	-0.0473 U	0.008949 U	2.93E-05 U
	Neptunium-237	pCi/L	0.0075 U	-0.0369 U	-0.01637 U	0.007844 U
	Plutonium-238	pCi/L	0.0075 U	0.0276 U	0.008176 U	0.01564 U
	Plutonium-239/240	pCi/L	0.0075 U	0.0276 U	-0.00816 U	0 U
	Technetium-99	pCi/L	1.65 U	-7.42 U	-2.36 U	-1.1 U
	Uranium	µg/L	3.153	1.582	0.5062	0.3934
	Uranium-233/234	pCi/L	6.487	1.09	0.4804	0.2749
	Uranium-235	pCi/L	0.2364	0.01095 U	0.02079 U	0 U
	Uranium-236	pCi/L	0.0303 U	-0.0098 U	0 U	0.01128 U
	Uranium-238	pCi/L	1.038	0.5307	0.1682	0.1321
BRC-SW02	Americium-241	pCi/L	2E-05 U	0.0834 U	1.804E-05 U	0.02046 U
	Neptunium-237	pCi/L	0 U	8.6E-06 U	-0.00865 U	0.008404 U
	Plutonium-238	pCi/L	8E-06 U	0.00863 U	0.0173 U	-0.00836 U
	Plutonium-239/240	pCi/L	-0.017 U	0.00863 U	0.01731 U	8.37E-06 U
	Technetium-99	pCi/L	1.41 U	-6.48 U	-3.25 U	1.98 U
	Uranium	µg/L	0.7609	0.8764	0.6533	0.7273
	Uranium-233/234	pCi/L	0.8427	1.106	0.5312	0.8205
	Uranium-235	pCi/L	0.0478 U	0.02332 U	0.08341	0.05687
	Uranium-236	pCi/L	0.0107 U	-0.0105 U	1.069E-05 U	0.01022 U
	Uranium-238	pCi/L	0.2513	0.2924	0.2121	0.2392
BRC-SW03	Americium-241	pCi/L	0.011 U	0.01963 U	-0.009275 U	-0.02078 U
	Neptunium-237	pCi/L	0.0079 U	0.00955 U	8.736E-06 U	0.007823 U
	Plutonium-238	pCi/L	0.0158 U	0.00952 U	0.01745 U	0.01559 U
	Plutonium-239/240	pCi/L	-0.008 U	0.00952 U	0 U	0.007793 U
	Technetium-99	pCi/L	-0.769 U	-0.0675 U	-0.279 U	-4.38 U
	Uranium	µg/L	1.226	1.145	0.7007	0.9169
	Uranium-233/234	pCi/L	1.471	1.093	0.8242	0.9079
	Uranium-235	pCi/L	0.0908	0.05864	0.03315 U	0.03327 U
	Uranium-236	pCi/L	0.0102 U	0.01053 U	9.914E-06 U	0.009957 U
	Uranium-238	pCi/L	0.4038	0.3795	0.2325	0.305
BRC-SW04	Americium-241	pCi/L	0.0099 U	0.02685 U	-0.00922 U	2.19E-05 U
	Neptunium-237	pCi/L	0 U	-0.0189 U	-0.1008 U	0 U
	Plutonium-238	pCi/L	0.0248 U	9.4E-06 U	0.02746 U	0.03626 U
	Plutonium-239/240	pCi/L	0 U	0.00942 U	0.009166 U	0.01813 U
	Technetium-99	pCi/L	-2.96 U	1.02 U	-0.265 U	0.165 U
	Uranium	µg/L	1.203	1.198	0.8583	0.6592
	Uranium-233/234	pCi/L	1.737	1.299	0.7155	0.7762
	Uranium-235	pCi/L	0.0346 U	0.04108 U	0.01076 U	0.04304 U

Table 4.21. Results for radionuclides at surface water monitoring locations (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
BRC-SW04	Uranium-236	pCi/L	0.0207 U	0.01229 U	0.009665 U	0 U
	Uranium-238	pCi/L	0.4009	0.3988	0.2874	0.2176
EDD-SW01	Americium-241	pCi/L	-0.021 U	0.00929 U	0 U	0.01028 U
	Neptunium-237	pCi/L	0.0076 U	0.01529 U	7.694E-06 U	9.5E-06 U
	Plutonium-238	pCi/L	-0.008 U	1.5E-05 U	-0.007672 U	0.01896 U
	Plutonium-239/240	pCi/L	8E-06 U	-0.0076 U	0.007695 U	0.01897 U
	Technetium-99	pCi/L	2.94 U	0.583 U	3.41 U	3.33 U
	Uranium	µg/L	1.103	1.476	0.4351	0.477
	Uranium-233/234	pCi/L	1.885	2.191	0.5312	0.8258
	Uranium-235	pCi/L	0.0771	0.0606	0.0468 U	0.01158 U
	Uranium-236	pCi/L	0 U	0.01088 U	0 U	0 U
	Uranium-238	pCi/L	0.3637	0.4902	0.142	0.1592
LBC-SW01	Americium-241	pCi/L	-0.027 U	0 U	0.00914 U	-0.01012 U
	Neptunium-237	pCi/L	0 U	0 U	-0.009767 U	1.72E-05 U
	Plutonium-238	pCi/L	0.0080 U	0.01565 U	0.039 U	0.03438 U
	Plutonium-239/240	pCi/L	0.0080 U	0.00783 U	9.741E-06 U	8.58E-06 U
	Technetium-99	pCi/L	1.08 U	1.92 U	-0.24 U	5.16 U
	Uranium	µg/L	1.002	1.062	0.4179	0.5202
	Uranium-233/234	pCi/L	1.137	1.785	0.4609	0.7745
	Uranium-235	pCi/L	0.0620	0.02502 U	0.01322 U	0.04444 U
	Uranium-236	pCi/L	0 U	0.02247 U	0.02375 U	0.009975 U
	Uranium-238	pCi/L	0.3313	0.3543	0.1391	0.1708
LBC-SW02	Americium-241	pCi/L	0.0373 U	0.02692 U	0.008054 U	9.07E-06 U
	Neptunium-237	pCi/L	-0.008 U	8.0E-06 U	0.0153 U	0.008039 U
	Plutonium-238	pCi/L	0.0083 U	0.03205 U	0.03052 U	0.02403 U
	Plutonium-239/240	pCi/L	0 U	0.00801 U	0.01525 U	-0.016 U
	Technetium-99	pCi/L	4.62 U	0.487 U	2.81 U	4.02 U
	Uranium	µg/L	0.7938	0.9712	0.3041	0.5285
	Uranium-233/234	pCi/L	1.122	1.786	0.6678	0.796
	Uranium-235	pCi/L	0.0625	0.01296 U	0.01248 U	0.02283 U
	Uranium-236	pCi/L	0.0093 U	0.02327 U	0.01121 U	0 U
	Uranium-238	pCi/L	0.2611	0.325	0.101	0.1755
LBC-SW03	Americium-241	pCi/L	0.0182 U	0.0097 U	0.01859 U	-0.01966 U
	Neptunium-237	pCi/L	-0.032 U	0.0253 U	-0.007287 U	8.15E-06 U
	Plutonium-238	pCi/L	0.0239 U	0.02523 U	0.01457 U	-0.01625 U
	Plutonium-239/240	pCi/L	0 U	0.01682 U	0.01456 U	0.01627 U
	Technetium-99	pCi/L	8.31 U	0.506 U	2.5 U	5.39 U
	Uranium	µg/L	0.8791	0.6979	0.2895	0.8444

Table 4.21. Results for radionuclides at surface water monitoring locations (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
LBC-SW03	Uranium-233/234	pCi/L	1.163	1.384	0.8477	0.8174
	Uranium-235	pCi/L	0.0259 U	0.01203 U	0.04598 U	0.05931
	Uranium-236	pCi/L	0.0348 U	0 U	0.03096 U	0.0213 U
	Uranium-238	pCi/L	0.2929	0.2334	0.09297	0.2783
LBC-SW04	Americium-241	pCi/L	-0.026 U	-0.0203 U	0.008734 U	-0.00929 U
	Neptunium-237	pCi/L	-0.030 U	0.01749 U	0.02044 U	0 U
	Plutonium-238	pCi/L	0.0227 U	0.00872 U	0.03058 U	0.007196 U
	Plutonium-239/240	pCi/L	0 U	0.00873 U	0.0102 U	0.01438 U
NHP-SW01	Technetium-99	pCi/L	2.62 U	1.87 U	3.91 U	3.82 U
	Uranium	µg/L	1.295	1.081	0.7416	0.9362
	Uranium-233/234	pCi/L	1.385	1.144	1.182	1.149
	Uranium-235	pCi/L	0.0495 U	0.04553 U	0.01057 U	0.06541 U
	Uranium-236	pCi/L	0 U	0 U	0.04745	0.009797 U
	Uranium-238	pCi/L	0.4306	0.3591	0.248	0.3086
	Americium-241	pCi/L	1E-05 U	0.01 U	0.02731 U	0.01837 U
	Neptunium-237	pCi/L	-0.018 U	-0.0079 U	0.0000229 U	0 U
	Plutonium-238	pCi/L	0.0089 U	0.03162 U	0.01524 U	0.03191 U
	Plutonium-239/240	pCi/L	9E-06 U	0.00791 U	0.01524 U	0.02394 U
	Technetium-99	pCi/L	1.16 U	6.41 U	-2.39 U	3.73 U
	Uranium	µg/L	6.321	5.783	3.978	7.173
	Uranium-233/234	pCi/L	2.559	2.174	1.469	2.695
	Uranium-235	pCi/L	0.1238	0.1822	0.02876 U	0.1196
	Uranium-236	pCi/L	0 U	-0.0117 U	0.008609 U	0 U
	Uranium-238	pCi/L	2.113	1.927	1.334	2.4
UND-SW01	Americium-241	pCi/L	0.0217 U	0 U	0.01079 U	0 U
	Neptunium-237	pCi/L	0.0079 U	0 U	-0.01811 U	-0.01756 U
	Plutonium-238	pCi/L	0.0316 U	0.04204 U	0.03617 U	0.03505 U
	Plutonium-239/240	pCi/L	0.0079 U	0.01051 U	0.01808 U	-0.01751 U
	Technetium-99	pCi/L	-5.71 U	-6.45 U	1.56 U	0.0236 U
	Uranium	µg/L	1.76	1.477	1.558	1.294
	Uranium-233/234	pCi/L	0.7501	0.7906	0.6178	0.7544
	Uranium-235	pCi/L	0.0557	-0.015 U	0.04355 U	0.06493
	Uranium-236	pCi/L	0.0100 U	0.01347 U	0.009775 U	0 U
UND-SW02	Uranium-238	pCi/L	0.5862	0.4977	0.5197	0.429
	Americium-241	pCi/L	0.0222 U	-0.0320 U	-0.009889 U	0 U
	Neptunium-237	pCi/L	-0.008 U	9.9E-06 U	0 U	-0.00793 U
	Plutonium-238	pCi/L	8E-06 U	0 U	0.01319 U	-0.0079 U
	Plutonium-239/240	pCi/L	0.0155 U	0.01972 U	6.589E-06 U	7.91E-06 U

Table 4.21. Results for radionuclides at surface water monitoring locations (continued)

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
UND-SW02	Technetium-99	pCi/L	-3.2 U	-4.68 U	-0.836 U	-3.74 U
	Uranium	µg/L	1.39	0.9486	0.8171	1.434
	Uranium-233/234	pCi/L	0.4586	0.4483	0.2843	0.5244
	Uranium-235	pCi/L	0 U	0.03253 U	0.0000113 U	0.03291 U
	Uranium-236	pCi/L	0 U	1.5E-05 U	0 U	0 U
	Uranium-238	pCi/L	0.467	0.3159	0.2746	0.479
WDD-SW01	Americium-241	pCi/L	0.0196 U	0.03284 U	0.009079 U	0.008866 U
	Neptunium-237	pCi/L	-0.008 U	0.00873 U	8.845E-06 U	-0.00718 U
	Plutonium-238	pCi/L	0.0243 U	0.01743 U	-0.01764 U	-0.00716 U
	Plutonium-239/240	pCi/L	2E-05 U	0.02613 U	0 U	0 U
	Technetium-99	pCi/L	-3.01 U	-9.94 U	-5.64 U	-6.29 U
	Uranium	µg/L	4.469	1.209	0.8063	1.201
	Uranium-233/234	pCi/L	2.679	0.9875	0.4608	0.5053
	Uranium-235	pCi/L	0.1202	0.01354 U	0.02145 U	0.02113 U
	Uranium-236	pCi/L	0.027 U	0 U	0 U	9.48E-06 U
	Uranium-238	pCi/L	1.491	0.4052	0.269	0.4017
WDD-SW02	Americium-241	pCi/L	1E-05 U	0.0311 U	-0.01936 U	0.01865 U
	Neptunium-237	pCi/L	0 U	9.9E-06 U	0 U	-0.01706 U
	Plutonium-238	pCi/L	0.0346 U	0.0099 U	0.01495 U	8.51E-06 U
	Plutonium-239/240	pCi/L	0 U	0.0198 U	0.007475 U	-0.00851 U
	Technetium-99	pCi/L	-4.51 U	-8.93 U	-7.1 U	-3.44 U
	Uranium	µg/L	2.531	0.7243	2.203	1.336
	Uranium-233/234	pCi/L	1.13	0.4961	1.033	0.6839
	Uranium-235	pCi/L	0.0702	0.0136 U	0.0788	1.16E-05 U
	Uranium-236	pCi/L	0.0090 U	0.02442 U	0.01179 U	0 U
	Uranium-238	pCi/L	0.8441	0.242	0.7331	0.4488
WDD-SW03	Americium-241	pCi/L	0.0097 U	0.00976 U	-0.01018 U	0.01933 U
	Neptunium-237	pCi/L	0.008 U	0.0171 U	0.009292 U	-0.00711 U
	Plutonium-238	pCi/L	0.0159 U	0.00852 U	0.01853 U	0.007106 U
	Plutonium-239/240	pCi/L	0 U	0.00853 U	0.01853 U	0.007099 U
	Technetium-99	pCi/L	-1.34 U	-7.64 U	-3.51 U	-2.55 U
	Uranium	µg/L	2.535	0.563	1.183	2.069
	Uranium-233/234	pCi/L	2.127	0.7242	0.533	0.7772
	Uranium-235	pCi/L	0.0897	0.02882 U	0.01399 U	0.02557 U
	Uranium-236	pCi/L	0.0201 U	0.01294 U	0 U	0 U
	Uranium-238	pCi/L	0.8435	0.1865	0.3961	0.693

Table 4.22. Results for radionuclides at exit pathway monitoring locations

Sampling Location	Parameter	Unit	First quarter	Second quarter	Third quarter	Fourth quarter
F-29B	Americium-241	pCi/L		0 U		
	Neptunium-237	pCi/L		-0.0442 U		
	Plutonium-238	pCi/L		0.02647 U		
	Plutonium-239/240	pCi/L		8.8E-06 U		
	Technetium-99	pCi/L		0.735 U		
	Uranium	µg/L		0.1634		
	Uranium-233/234	pCi/L		0.03103 U		
	Uranium-235	pCi/L		0.03828 U		
	Uranium-236	pCi/L		-0.0229 U		
	Uranium-238	pCi/L		0.05162		
X749-62B	Americium-241	pCi/L		0 U		
	Neptunium-237	pCi/L		0 U		
	Plutonium-238	pCi/L		0.02001 U		
	Plutonium-239/240	pCi/L		0.01001 U		
	Technetium-99	pCi/L		0.857 U		
	Uranium	µg/L		0.00517 U		
	Uranium-233/234	pCi/L		0.05269 U		
	Uranium-235	pCi/L		0.01083 U		
	Uranium-236	pCi/L		0.00973 U		
	Uranium-238	pCi/L		0 U		

Note: A table is not provided for volatile organic compounds at exit pathway monitoring locations because none except methylene chloride, a common laboratory contaminant, were detected at wells F-29B and X749-62B. Results for the following additional exit pathway monitoring locations can be found in the following tables:

- BRC-SW02, LBC-SW04, UND-SW02, and WDD-SW03: see Tables 4.20 and 4.21
- X701-48G: see Tables 4.7 and 4.8
- X749-14B, X749-44G, X749-45G, X749-64B, X749-68G, X749-96G, X749-97G, X749-98G, X749-99M, X749-100M, and X749-101M: see Tables 4.1 and 4.2

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